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Advanced Life Support

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Intravenous versus intraosseous drug delivery: Granfeldt A, Avis SR, Lind PC, Holmberg MJ, Kleinman M, Maconochie I, Hsu CH, de Almeida MF, Wang TL,	

Neumar RW, Andersen LW. Intravenous vs. Intraosseous Administration of Drugs During Cardiac Arrest: A Systematic Review. Resuscitation.	2020; 149: 150–157	16
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Nikolaou N, Dainty KN, Couper K, Morley P, Tijssen J, Vaillancourt C, et al. A systematic review and meta-analysis of the effect of dispatcher-assisted CPR on outcomes from sudden cardiac arrest in adults and children. Resuscitation.	2019;138:82-105.....	29
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[Anticipatory charging \(ALS New: ScopRev\)](#)

MEDLINE AND EMBASE via HDAS on 7/10/2019

(exp "HEART ARREST"/ OR exp "VENTRICULAR FIBRILLATION"/ OR heart arrest OR cardiac arrest OR asystole OR cardiopulmonary arrest OR cardiovascular arrest OR exp "CARDIOPULMONARY RESUSCITATION"/ OR resuscitation OR CPR OR "advanced life support" OR ALS OR "advanced cardiac life support" OR ACLS OR exp "HEART MASSAGE"/ OR heart massage*OR cardiac massage* OR Basic Life Support OR BLS OR cardiac rhythm) AND (("pre-charge*" OR "pre charge*" OR Anticipatory charg* OR Defibrillator charg* OR Defibrillation strateg* OR Defibrillation Sequence OR defibrillation algorithm OR shocking strateg* OR Shocking Algorithm OR COACHED OR "C.O.A.C.H.E.D." OR (prior ADJ3 charg*)).ti,ab)

[Double Sequential Defibrillation \(ALS New: SysRev\)](#)

Date PubMed Search Completed: 28 Feb 2020 All years = 83

Updated 25 Aug 2020 1 year=15

((("heart arrest"[MeSH] OR "cardiac arrest"[TIAB] OR "cardiac arrests"[TIAB] OR "cardiovascular arrest"[TIAB] OR "heart arrest"[TIAB] OR "heart arrests"[TIAB] OR "asystole"[TIAB] OR "pulseless electrical activity"[TIAB] OR "cardiopulmonary arrest"[TIAB] OR "cardiopulmonary arrests"[TIAB] OR "cardio-pulmonary arrest"[TIAB] OR "cardio-pulmonary arrests"[TIAB] OR "Pulseless"[TIAB]) AND ((("tachycardia, ventricular"[MeSH Terms] OR ("tachycardia"[All Fields] AND "ventricular"[All Fields]) OR "ventricular tachycardia"[All Fields] OR ("ventricular"[All Fields] AND "tachycardia"[All Fields])) OR ("ventricular fibrillation"[MeSH Terms] OR ("ventricular"[All Fields] AND "fibrillation"[All Fields]) OR "ventricular fibrillation"[All Fields]))) AND (((("electric countershock"[MeSH Terms] OR ("electric"[All Fields] AND "countershock"[All Fields]) OR "electric countershock"[All Fields] OR "defibrillation"[All Fields]) OR ("defibrillators"[MeSH Terms] OR "defibrillators"[All Fields])) NOT "defibrillators, implantable"[MeSH Major Topic])) AND (((("mortality"[Subheading] OR "mortality"[All Fields] OR "survival"[All Fields] OR "survival"[MeSH Terms]) OR outcome[All Fields]) OR (return[All Fields] AND spontaneous[All Fields] AND ("blood circulation"[MeSH Terms] OR ("blood"[All Fields] AND "circulation"[All Fields]) OR "blood circulation"[All Fields] OR "circulation"[All Fields]))) OR ("recovery of function"[MeSH Terms] OR ("recovery"[All Fields] AND "function"[All Fields]) OR "recovery of function"[All Fields])) OR ("nervous system physiological phenomena"[MeSH Terms] OR ("nervous"[All Fields] AND "system"[All Fields] AND "physiological"[All Fields] AND "phenomena"[All Fields]) OR "nervous system physiological phenomena"[All Fields] OR ("neurological"[All Fields] AND "function"[All Fields]) OR "neurological function"[All Fields]))) NOT ("animals"[MH] NOT ("animals"[MeSH Terms] AND "humans"[MH])) AND ("dual"[TIAB] OR "double"[TIAB] OR "sequence"[TIAB] OR "sequential"[TIAB]))

AED vs manual defibrillator (ALS 495: EvUp)

PubMed 2019 Search Strategy:

Updated 25 Aug 2020 1 year=1

((((manual[Title/Abstract]) OR automatic[Title/Abstract])) AND ((defibrillation, electric[MeSH Terms]) NOT defibrillator, implantable[MeSH Terms])) AND (((((((life support care[MeSH Terms]) OR "life support"[Title/Abstract]) OR cardiopulmonary resuscitation[MeSH Terms]) OR "cardiopulmonary resuscitation"[Title/Abstract]) OR "CPR"[Title/Abstract]) OR "return of spontaneous circulation"[Title/Abstract]) OR "ROSC"[Title/Abstract]) OR heart arrest[MeSH Terms]) OR "cardiac arrest"[Title/Abstract])) NOT ((animals[MH] NOT humans[MH])))

Waveform analysis for predicting successful defibrillation (ALS 601: EvUp)

Pubmed 2019:

Updated 25 Aug 2020 1 year=1

((defibrillator[MeSH Terms]) OR defibrillation, electric[MeSH Terms])) AND waveform[Title/Abstract]

Airway management during cardiac arrest (ALS 576, 783, 432, 496, 711 and 714: SysRev): Granfeldt A, Avis SR, Nicholson TC, Holmberg MJ, Moskowitz A, Coker A, et al. Advanced airway management during adult cardiac arrest: A systematic review. Resuscitation. 2019;139:133-43.

MEDLINE

- 1 *airway management/ (1642)
- 2 exp Intubation, Intratracheal/ (36421)
- 3 Laryngeal Masks/ (4870)
- 4 airway.tw. (126851)
- 5 intubation.tw. (42023)
- 6 supraglottic.tw. (3844)
- 7 extraglottic.tw. (86)
- 8 laryngeal.tw. (43320)
- 9 perilaryngeal.tw. (79)
- 10 tracheal.tw. (41495)
- 11 "i-gel".tw. (565)
- 12 (king adj25 tube).tw. (67)
- 13 "Streamlined liner of the pharynx airway".tw. (20)
- 14 SLIPA.tw. (31)
- 15 baska.tw. (36)
- 16 3gLm.tw. (1)
- 17 (cobra adj25 tube).tw. (21)
- 18 (cobra adj25 LMA).tw. (21)
- 19 ("lma" adj25 tube).tw. (443)
- 20 proseal.tw. (544)
- 21 "ILMA".tw. (194)
- 22 "bag-valve mask".tw. (373)
- 23 "bag mask".tw. (288)
- 24 "self inflating bag".tw. (144)
- 25 Ambu.ti. (119)
- 26 "ambu bag".tw. (56)

27 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20
or 21 or 22 or 23 or 24 or 25 or 26 (230586)
28 *heart arrest/ (19811)
29 *cardiac arrest/ (19811)
30 exp Death, Sudden, Cardiac/ (14034)
31 "return of spontaneous circulation".tw. (2544)
32 ROSC.tw. (1829)
33 Cardiopulmonary Resuscitation/ (15317)
34 CPR.ti,ab. (10793)
35 cardiovascular arrest.tw. (59)
36 asystole.tw. (3425)
37 "pulseless electrical activity".tw. (750)
38 exp Ventricular Fibrillation/ (16472)
39 pulseless ventricular tachycardia.tw. (288)
40 "cardiopulmonary arrest".tw. (2091)
41 exp Advanced Cardiac Life Support/ (900)
42 ACLS.tw. (1011)
43 exp Heart Massage/ (3021)
44 "heart massage".tw. (273)
45 "cardiac massage".tw. (1073)
46 "chest compression".tw. (1985)
47 28or29or30or31or32or33or34or35or36or37or38or39or40or41or42or43or44or45or
46 (67177)
48 27 and 47 (2635)
49 animals/ not (humans/ and animals/) (4473797)
50 *VETERINARY MEDICINE/ (18469)
51 letter.pt. (1004220)
52 comment.pt. (738403)
53 editorial.pt. (471510)
54 review.pt. (2443087)
55 limit 48 to "review articles" (310)
56 49 or 50 or 51 or 52 or 53 or 54 or 55 (8358814)
57 48 not 56 (1945)
58 remove duplicates from 57 (1943)

Oxygen dose during CPR (ALS 889: EvUp)

PubMed: (Search Completed: December 2, 2019)

Updated 25 Aug 2020 1 year=39

("Oxygen"[Mesh] OR "oxygen concentration"[TIAB] OR "supplemental oxygen"[TIAB] OR "oxygen therapy"[TIAB] OR "titrated oxygen"[TIAB] OR "inspired oxygen"[TIAB] OR paO2[TIAB] OR "100% oxygen"[TIAB] OR "high flow oxygen"[TIAB] OR "Hyperoxia"[Mesh] OR "Oxidative Stress"[Mesh] OR ((Hyperoxi*[TIAB] OR Hypoxi*[TIAB] OR Normoxi*[TIAB]) AND (Ventilat*[TIAB] OR "Oxygen Inhalation Therapy"[Mesh>NoExp] OR "Respiration, Artificial"[Mesh: NoExp]))) AND ("Heart Arrest"[Mesh] OR "heart arrest"[TIAB] OR "heart arrests"[TIAB] OR "cardiac arrest"[TIAB] OR "cardiac arrests"[TIAB] OR "cardiovascular arrest"[TIAB] OR asystole*[TIAB] OR "pulseless electrical activity"[TIAB] OR "cardiopulmonary arrest"[TIAB] OR "cardiopulmonary arrests"[TIAB] OR "cardio-pulmonary arrest"[TIAB] OR "cardio-pulmonary arrests"[TIAB] OR "Out-of-Hospital Cardiac Arrest"[Mesh]) AND

("resuscitation"[Mesh] OR resuscitat* OR CPR OR prehospital OR pre-hospital OR "out-of-hospital"[TIAB] OR "out of hospital"[TIAB] OR "Emergency Medical Services"[Mesh]) NOT (neonat*OR newborn*) NOT ("letter"[Publication Type] OR "comment"[Publication Type] OR "editorial"[Publication Type] or Case Reports[Publication Type])

Automatic ventilators vs manual ventilation during CPR (ALS 490: EvUp)

Pubmed 2019

Updated 25 Aug 2020 1 year=2

(Ventilators, Mechanical) AND (((((((((life support care[MeSH Terms]) OR "life support"[Title/Abstract]) OR cardiopulmonary resuscitation[MeSH Terms]) OR "cardiopulmonary resuscitation"[Title/Abstract]) OR "CPR"[Title/Abstract]) OR "return of spontaneous circulation"[Title/Abstract]) OR "ROSC"[Title/Abstract]) OR heart arrest[MeSH Terms]) OR "cardiac arrest"[Title/Abstract])) NOT ((animals[MH] NOT humans[MH])))

ECPR versus manual or mechanical CPR (ALS 723: SysRev, 2019 CoSTR):

Holmberg MJ, Geri G, Wiberg S, Guerguerian A-M, Donnino MW, Nolan JP, et al. Extracorporeal cardiopulmonary resuscitation for cardiac arrest: A systematic review. *Resuscitation*. 2018;131:91-100.

Database: Ovid Medline

- 1 Extracorporeal Circulation/ (13566)
- 2 Cardiopulmonary Bypass/ (24689)
- 3 Extracorporeal Membrane Oxygenation/ (8724)
- 4 Heart Bypass, Left/ (190)
- 5 extracorporeal circulation*.tw,kf. (8027)
- 6 extra-corporeal circulation*.tw,kf. (306)
- 7 extracorporeal blood flow*.tw,kf. (109)
- 8 extra-corporeal blood flow*.tw,kf. (2)
- 9 extracorporeal bypass*.tw,kf. (223)
- 10 extra-corporeal bypass*.tw,kf. (4)
- 11 extracorporeal perfusion*.tw,kf. (570)
- 12 extra-corporeal perfusion*.tw,kf. (10)
- 13 (artificial adj2 circulation*).tw,kf. (913)
- 14 (cardiac adj2 bypass*).tw,kf. (1065)
- 15 (heart adj1 bypass*).tw,kf. (922)
- 16 extracorporeal cardiopulmonary resuscitation*.tw,kf. (255)
- 17 extracorporeal CPR.tw,kf. (36)
- 18 ECPR.tw,kf. (193)
- 19 E-CPR.tw,kf. (60)
- 20 cardiopulmonary bypass*.tw,kf. (32118)
- 21 CPB.tw,kf. (10564)
- 22 atriopulmonary shunt*.tw,kf. (3)
- 23 cardiopulmonary shunt*.tw,kf. (4)
- 24 heart-lung bypass*.tw,kf. (97)
- 25 (extracorporeal adj3 oxygenation*).tw,kf. (8715)
- 26 (extra-corporeal adj3 oxygenation*).tw,kf. (283)
- 27 ECMO.tw,kf. (6144)
- 28 extrapulmonary oxygenation*.tw,kf. (13)
- 29 extra-pulmonary oxygenation*.tw,kf. (1)

30 extracorporeal life support*.tw,kf. (1675)
31 extra-corporeal life support*.tw,kf. (53)
32 ECLS.tw,kf. (1072)
33 left ventric* bypass*.tw,kf. (198)
34 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or
18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33
(69449)
35 exp Heart Arrest/ (45606)
36 Ventricular Fibrillation/ (18038)
37 Tachycardia, Ventricular/ (14734)
38 heart arrest*.tw,kf. (2225)
39 cardiac arrest*.tw,kf. (31130)
40 circulat* arrest*.tw,kf. (5872)
41 heart standstill*.tw,kf. (8)
42 cardiopulmonary arrest*.tw,kf. (2302)
43 cardiovascular arrest*.tw,kf. (66)
44 asystol*.mp. (4182)
45 ventric* fibrillation*.tw,kf. (19248)
46 ventric* tachy*.tw,kf. (27344)
47 ventricular tachyarrhythmia*.tw,kf. (4326)
48 pulseless electrical activity.mp. (762)
49 35 or 36 or 37 or 38 or 39 or 40 or 41 or 42 or 43 or 44 or 45 or 46 or 47 or 48 (107855)
50 34 and 49 (6244)
51 exp Animals/ not Humans/ (4809559)
52 50 not 51 (5077)
53 limit 52 to (case reports or comment or editorial or letter) (1472)
54 52 not 53 (3605)

Monitoring physiological parameters during CPR (ALS 656: EvUp)

Email Jas: ? O2 Co2 during (AHA EvUP; no articles)

Echocardiography: Dec 6 19

Pub Med

Updated 25 Aug 2020 1 year=2

((((((((((((Cardiopulmonary resuscitation) AND Point-of-care systems)) OR
((cardiopulmonary resuscitation) AND echocardiography, transesophageal)) OR
((cardiopulmonary resuscitation) AND echocardiography, transthoracic)) OR
((cardiopulmonary resuscitation/methods*) AND Echocardiography)) OR heart
arrest/diagnostic imaging*) OR ((out-of-hospital cardiac arrest/diagnostic imaging) AND
echocardiography))) OR ((Cardiopulmonary resuscitation) AND Point-of-care systems)) OR
((cardiopulmonary resuscitation) AND echocardiography, transesophageal)) OR
((cardiopulmonary resuscitation) AND echocardiography,transthoracic)) OR
((cardiopulmonary resuscitation/methods*) AND Echocardiography)) OR heart
arrest/diagnostic imaging*) OR ((out-of-hospital cardiac arrest/diagnostic imaging) AND
echocardiography)) OR (in-hospital cardiac arrest/diagnostic imaging AND
echocardiography)) AND Humans[Mesh])) OR ((in-hospital cardiac arrest) AND
echocardiography AND Humans[Mesh])) OR ((in hospital cardiac arrest) AND point-of-care
systems AND Humans[Mesh]) Filters: Humans

NIRS Pubmed

Search on 14/10/2019

- 1 "Spectroscopy, Near-Infrared"[Mesh] (12558)
- 2 ((cerebral oximetry) OR regional cerebral oxygenation) OR regional cerebral oxygen saturation (4242)
- 3 1 or 2 (15786)
- 4 "Life Support Care"[Mesh] (8692)
- 5 "Cardiopulmonary Resuscitation"[Mesh] (17057)
- 6 "Heart Arrest"[Mesh] (45984)
- 7 (((life support) OR cardiopulmonary resuscitation) OR ROSC) OR return of spontaneous circulation) OR cardiac arrest (749608)
- 8 4 or 5 or 6 or 7 (749608)
- 9 ("Infant"[Mesh]) OR "Adolescent"[Mesh]) OR "Child"[Mesh] (3454029)
- 10 (infan* OR baby OR baby* OR babies OR toddler* OR minors OR minors* OR kid OR kids OR child OR child* OR children* OR schoolchild* OR schoolchild OR school child[tiab] OR school child*[tiab] OR adolescen* OR juvenil* OR youth* OR teen* OR under*age* OR pubescen* OR pediatrics[mh] OR pediatric* OR paediatric* OR pediatric* OR school[tiab] OR school*[tiab]]) (4506159)
- 11 9 or 10 (4506281)
- 12 (animals [mh]) NOT humans [mh] (4628218)
- 13 (newborn* OR new-born* OR perinat* OR neonat* OR prematur* OR preterm*) (1003665)
- 14 3 and 8 and 11 not 12 not 13 (79)

ETCO2: Pubmed see ALS 459 below

PubMed and Embase

We combined the following terms using Boolean operators: life support care, cardiopulmonary resuscitation, ROSC, heart arrest, cardiac arrest using both individual (ti,ab,kw) and related MESH terms, as well as exploded terms within Embase. We combined these with the terms: end tidal carbon dioxide, carbon dioxide end tidal, end tidal pCO2, EtCO2, capnography (again both individual and MESH terms, and Embase exploded terms).

BP: Pubmed and Embase

We combined the following terms using Boolean operators: life support care, cardiopulmonary resuscitation, ROSC, heart arrest, cardiac arrest using both individual (ti,ab,kw) and related MESH terms, as well as exploded terms within Embase. We combined these with the terms: blood pressure, diastolic, systolic, (mean) arterial pressure, coronary perfusion pressure, hemodynamic-directed, haemodynamic-directed (again both individual and MESH terms, and Embase exploded terms).

Antiarrhythmic drugs for cardiac arrest (ALS 428 and 493: 2018 SysRev and published CoSTR): Ali MU, Fitzpatrick-Lewis D, Kenny M, Raina P, Atkins DL, Soar J, et al. Effectiveness of antiarrhythmic drugs for shockable cardiac arrest: a systematic review. *Resuscitation*. 2018;132:63-72.

Database: OVID Medline Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) 1946 to Present

- 1 exp heart arrest/ (42565)
- 2 exp cardiopulmonary resuscitation/ (14960)
- 3 cardiac arrest.tw. (27527)
- 4 cpr.tw. (10203)

5 resuscitation.tw. (48102)
6 heart arrest.tw. (593)
7 or/1-6 (95745)
8 (Antiarrhythmi\$ agent\$ or antiarrhythmi\$ drug\$ or antiarrhythmi\$ medication\$).tw.
(11916)
9 (Anti-arrhythmi\$ agent\$ or anti-arrhythmi\$ drug\$ or anti-arrhythmi\$ medication\$).tw.
(1741)
10 (Dysrhythmi\$ agent\$ or dysrhythmi\$ drug\$ or disrhythmi\$ medication\$).tw. (14)
11 exp anti-arrhythmia agents/ (213263)
12 lidocaine.tw. (20047)
13 amiodarone.tw. (8929)
14 lidocaine/ (23667)
15 amiodarone/ (7575)
16 lignocaine.tw. (2768)
17 procainamide.tw. (2519)
18 procainamide/ (3612)
19 bretylium tosylate/ (310)
20 bretylium.tw. (1028)
21 nifekalant.mp. (139)
22 Quinidine.mp. or Quinidine/ (9090)
23 Ajmaline.mp. (1310)
24 disopyramide.mp. (2166)
25 phenytoin.mp. (18232)
26 mexiletine.mp. (1894)
27 Tocainide.mp. (531)
28 Flecainide.mp. (2397)
29 Encainide.mp. (455)
30 propafenone.mp. (1833)
31 moricizine.mp. (413)
32 Carvedilol.mp. (3344)
33 Propranolol.mp. (45565)
34 Esmolol.mp. (1331)
35 Timolol.mp. (4835)
36 Metoprolol.mp. (8042)
37 Atenolol.mp. (8239)
38 Sotalol.mp. (3238)
39 Bisoprolol.mp. (1614)
40 Nebivolol.mp. (1003)
41 Ibutilide.mp. (371)
42 Dofetilide.mp. (909)
43 Dronedarone.mp. (589)
44 verapamil.mp. (26029)
45 Diltiazem.mp. (9592)
46 Adenosine.mp. (248952)
47 Digoxin.mp. (15213)
48 exp Adrenergic beta-Antagonists/ or beta blocker\$.mp. (96802)
49 slow channel blocker\$.mp. (79)
50 exp Calcium Channel Blockers/ or fast channel blocker\$.mp. (80677)
51 magnesium sulfate.mp. (6324)
52 or/8-51 (570998)

- 53 7 and 52 (6265)
54 limit 53 to "therapy (maximizes sensitivity)" (4338)
55 limit 53 to "reviews (maximizes sensitivity)" (2705)
56 54 or 55 (4990)

Vasopressors during Cardiac Arrest (ALS 788, 659, 789, 784 and 778: 2019 SysRev): Holmberg MJ, Issa MS, Moskowitz A, Morley P, Welsford M, Neumar RW, et al. Vasopressors during adult cardiac arrest: A systematic review and meta-analysis. Resuscitation. 2019;139:106-21.

PubMed

Updated 25 Aug 2020 1 year=33

("Heart Arrest"[Mesh] OR heart arrest[tiab] OR cardiac arrest[tiab] OR sudden cardiac death[tiab] OR cardiovascular arrest[tiab] OR cardiopulmonary arrest[tiab] OR cardiopulmonary failure[tiab] OR "Resuscitation"[Mesh] OR resuscitation[tiab] OR "Cardiopulmonary Resuscitation"[Mesh] OR cardiopulmonary resuscitation[tiab] OR cpr[tiab] OR code blue[tiab] OR code 99[tiab] OR basic life support[tiab] OR bls[tiab] OR "Advanced Cardiac Life Support"[Mesh] OR advanced cardiac life support[tiab] OR acls[tiab] OR pulseless electrical activity[tiab] OR "Ventricular Fibrillation"[Mesh] OR ventricular fibrillation[tiab] OR asystole[tiab] OR pulseless ventricular tachycardia[tiab]) AND ("Vasoconstrictor Agents"[Mesh] OR "Vasoconstrictor Agents" [Pharmacological Action] OR vasoconstrictor agent[tiab] OR vasoconstrictor agents[tiab] OR "Epinephrine"[Mesh] OR epinephrine[tiab] OR adrenalin[tiab] OR "Vasopressins"[Mesh] OR vasopressins[tiab] OR vasopressin[tiab] OR noradrenalin[tiab] OR norepinephrine[tiab] OR adrenaline acid tartrate[tiab] OR epinephrine hydrogen tartrate[tiab] OR adrenaline acid tartrate[tiab] OR epinephrine bitartrate[tiab] OR epinephrine hydrochloride[tiab] OR adrenaline hydrochloride[tiab]) AND (Clinical Trial[ptyp] OR Comparative Study[ptyp] OR Controlled Clinical Trial[ptyp] OR Guideline[ptyp] OR Meta-Analysis[ptyp] OR Multicenter Study[ptyp] OR Observational Study[ptyp] OR Practice Guideline[ptyp] OR Pragmatic Clinical Trial[ptyp] OR Randomized Controlled Trial[ptyp] OR systematic[sb]))

Intravenous versus intraosseous drug delivery: Granfeldt A, Avis SR, Lind PC, Holmberg MJ, Kleinman M, Maconochie I, Hsu CH, de Almeida MF, Wang TL, Neumar RW, Andersen LW. Intravenous vs. Intraosseous Administration of Drugs During Cardiac Arrest: A Systematic Review. Resuscitation. 2020; 149: 150–157

- All Ovid Medline <1946 - present>
- 1 exp Heart Arrest/ (45608)
 - 2 Ventricular Fibrillation/ (16747)
 - 3 Resuscitation/ (25588)
 - 4 Heart Massage/ (3068)
 - 5 exp Cardiopulmonary Resuscitation/ (16927)
 - 6 cardi* arrest*.tw,kf. (36886)
 - 7 heart arrest*.tw,kf. (2227)
 - 8 OHCA.tw,kf. (2201)
 - 9 IHCA.tw,kf. (288)
 - 10 CPR.tw,kf. (11630)
 - 11 advanced cardiac life support.tw,kf. (1018)
 - 12 ACLS.tw,kf. (1080)

- 13 basic life support.tw,kf. (1880)
 14 BLS.tw,kf. (1775)
 15 asystol*.tw,kf. (4118)
 16 pulseless electrical activity.tw,kf. (820)
 17 pulseless ventricular tachycardia.tw,kf. (318)
 18 (return of circulation or return of spontaneous circulation or ROSC).tw,kf. (3669)
 19 resuscitat*.tw,kf. (61684)
 20 ventricular fibrillation*.tw,kf. (18360)
 21 chest compression*.tw,kf. (3561)
 22 or/1-21 (141248)
 23 Infusions, Intraosseous/ (702)
 24 Intraosseous.tw,kf. (5865)
 25 Intra-osseous.tw,kf. (623)
 26 or/23-25 (6533)
 27 Infusions, Intravenous/ (53864)
 28 Intravenous.tw,kf. (276952)
 29 Intra-venous.tw,kf. (538)
 30 Umbilical Veins/ (12517)
 31 (umbilical vein or umbilical veins or umbilical venous).tw,kf. (24157)
 32 (venous adj3 catheter*).tw,kf. (16311)
 Page 6 of 18
 33 (vascular adj3 catheter*).tw,kf. (2106)
 34 catheterization/ or catheterization, central venous/ or catheterization, peripheral/ (71132)
 35 catheters/ or catheters, indwelling/ or exp vascular access devices/ (26842)
 36 central venous.tw,kf. (24246)
 37 vascular access.tw,kf. (9286)
 38 or/27-37 (439774)
 39 (IO adj15 IV).tw,kf. (145)
 40 (26 and 38) or 39 (747)
 41 22 and 40 (337)
 42 41 not (animals/ not humans/) (278)
 43 limit 42 to (case reports or comment or editorial or letter) (49)
 44 42 not 43 (229)
 45 remove duplicates from 44 (228)

Steroids for Cardiac Arrest (ALS 433: EvUp) Steroids post-resuscitation (ALS 446: EvUp)

ANZCOR developed on Embase Platform for Medline and Embase

#1 Population – Cardiac arrest. Terms related to cardiac arrest and/or ROSC should be the focus of the article, so these terms must appear in either the title or the abstract, or the article must be tagged with EMTREE terms for cardiac arrest or ROSC. Note, general terms for life support such as ‘basic life support’ (as used in prior search) or ‘advanced cardiac life support’ were considered too generic, and terms relating to CPR techniques such as chest compressions and heart massage were considered too specifically focusing on the process of CPR rather than the post-ROSC patient.

'heart arrest'/exp
 'heart arrest\$':ti,ab
 'cardiac arrest\$':ti,ab
 'cardiovascular arrest\$':ti,ab
 'cardiopulmonary arrest'/exp

'cardiopulmonary arrest\$:ti,ab
'cardio-pulmonary arrest\$:ti,ab
'resuscitation'/exp
rosc:ti,ab
'post-rosc':ti,ab
'post-resuscitation':ti,ab
'return of spontaneous circulation':ti,ab
resuscitat*:ti,ab
#2
#1 NOT ('animal'/exp NOT 'human'/exp OR 'nonhuman'/exp OR 'rodent'/exp OR 'animal experiment'/exp OR 'experimental animal'/exp OR rat:ti,ab OR rats:ti,ab OR mouse:ti,ab OR mice:ti,ab OR dog\$:ti,ab OR pig\$:ti,ab OR porcine:ti,ab OR swine:ti,ab OR chick\$:ti,ab)
Exclude non-human studies. The search results must include citations from the newborn population string, so a 'non-human studies' filter was applied to it.
#3
#2 NOT ([conference abstract]/lim OR [conference review]/lim OR [editorial]/lim OR [erratum]/lim OR [letter]/lim OR [note]/lim OR [book]/lim OR 'case report'/de) Exclude publication types. Conference abstracts and other ineligible study types were removed here.
#4
#3 AND [2014-2020]/py Date limit The date of the last ILCOR search was 18 July 2014. This search string can be combined with intervention strings or other population strings to produce a final number of records.

#5 Intervention terms – steroids. To identify steroid studies. These terms must appear in the title or abstract, or the article must be tagged with EMTREE terms for steroids. Note, the EMTREE terms were not exploded as that includes a large number of irrelevant interventions. Instead, studies coded directly to the steroid EMTREE term (or the corticosteroid EMTREE term, etc.) were captured, along with studies that include these terms as free text, or include the specific drugs that were included in the search for the 2015 ILCOR CoSTR (hydrocortisone was added to this set of specific drugs as it is mentioned in the 2015 Consensus on science).
'steroid'/de
'corticosteroid'/de
'mineralocorticoid'/de
corticosteroi\$:ti,ab
mineralocorticoid\$:ti,ab
steroid\$:ti,ab
prednisone:ti,ab
prednisolone:ti,ab
methylprednisolone:ti,ab
fludrocortisone:ti,ab
hydrocortisone:ti,ab
dexamethasone:ti,ab
#6
#4 AND #5 Population + intervention
#7
(((after OR post) NEAR/4 (rosc OR spontaneous OR circulation OR resuscitation OR cardiac OR arrest)):ti,ab) OR postarrest:ti,ab OR 'post-arrest':ti,ab OR 'post-rosc':ti,ab OR (surviv* NEAR/3 (cardiac OR arrest OR resuscitation OR ohca OR 'oh ca' OR ihca OR 'ih ca')) Post-arrest terms. This string is useful to stratify studies according to whether they include

reference to post-ROSC status. However, this string could potentially exclude relevant studies, and should not be relied upon to filter the identified studies.

#8

#6 AND #7 Population + intervention + post-arrest terms

#9

#6 NOT #8 Population + intervention (minus + post-arrest terms)

Buffering agents for cardiac arrest (ALS 483: EvUp)

Pubmed 2019

Updated 25 Aug 2020 1 year=21

(((((sodium bicarbonate[MeSH Terms]) OR bicarbonate[Title/Abstract]) OR buffers[MeSH Terms]) OR buffer[Title/Abstract])) AND (((((((((life support care[MeSH Terms]) OR "life support"[Title/Abstract]) OR cardiopulmonary resuscitation[MeSH Terms]) OR "cardiopulmonary resuscitation"[Title/Abstract]) OR "CPR"[Title/Abstract]) OR "return of spontaneous circulation"[Title/Abstract]) OR "ROSC"[Title/Abstract]) OR heart arrest[MeSH Terms]) OR "cardiac arrest"[Title/Abstract])) NOT ((animals[MH] NOT humans[MH])))

Drugs for Torsades de Pointes (ALS 457: EvUp)

Pubmed

torsades de pointes/dt NOT (((animals[MH] NOT humans[MH])))

Search updated:

Updated 25 Aug 2020 1 year=150 results

(("torsades de pointes"[MeSH Terms] OR (("torsades"[All Fields] AND "de"[All Fields]) AND "pointes"[All Fields])) OR "torsades de pointes"[All Fields]) NOT (animals[MH] NOT humans[MH])

Ultrasound during CPR (ALS 658: SysRev)

2014 Pubmed

PubMed: (Search Completed: November 18, 2014) Nov 18 2014 539 results

Updated 25 Aug 2020 1 year=99 results

((((((((("Heart Arrest/ultrasonography"[Mesh]) OR (((("cardiopulmonary resuscitation"[MeSH Terms] OR "cardiac arrest"[TI] OR CPR[TI] OR resuscitation[TI] OR "advanced cardiac life support"[TI] OR "basic life support"[TI] OR "heart arrest"[TI] OR ACLS[TI])) AND ("Ultrasonography"[Mesh] OR "ultrasonography" [Subheading] OR Ultrasound[TIAB] OR ultrasonograph*[TIAB] OR "Ultra-sound"[TIAB] OR "Ultra-sonography"[TIAB] OR echocardiograph*[TIAB] OR echocardiogram*[TIAB] OR ECG[TIAB] OR EKG[TIAB] OR cardioscopes[TIAB] OR cardioscope[TIAB]))))) NOT (((((infant[MeSH] OR child[MeSH] OR adolescent[MeSH])))) NOT ((infant[MeSH] OR child[MeSH] OR adolescent[MeSH] AND adult[MeSH])))))) NOT ((animals[mh] NOT humans[mh]))) NOT ((letter[pt] OR "comment"[pt] OR "editorial"[pt] or Case Reports[ptyp]))))

ETCO₂ to Predict Outcome of Cardiac Arrest (ALS 459: EvUp)

Pubmed

Updated 25 Aug 2020 1 year= 21 results

((((((("Heart Arrest"[Mesh] OR "Heart Arrest, Induced"[Mesh] OR "cardiac arrest"[TIAB] OR "cardiovascular arrest"[TIAB] OR "heart arrest"[TIAB] OR "Advanced Cardiac Life Support"[TIAB] OR "ACLS"[TIAB] OR "Ventricular Fibrillation"[Mesh:noexp] OR "Cardiopulmonary Resuscitation"[Mesh] OR "cardiopulmonary resuscitation"[TIAB] OR

"CPR"[TIAB] OR "cardiopulmonary arrest"[TIAB]) AND (((((((("Carbon Dioxide"[Mesh] OR "CO2"[TIAB] OR "Carbon Dioxide"[TIAB]) AND ("Tidal Volume"[Mesh] OR "Tidal volume"[TIAB] OR "End tidal"[TIAB] OR "Endtidal"[TIAB] OR "Expired"[TIAB])))) OR ("ETCO2"[TIAB] OR PETCO2[TIAB] OR "Capnography"[Mesh])))))) AND ((("Treatment Outcome"[Mesh] OR "Fatal Outcome"[Mesh] OR "Outcome Assessment (Health Care)"[Mesh] OR "Outcome and Process Assessment (Health Care)"[Mesh] OR "Prognosis"[Mesh] OR "Survival"[Mesh] OR "Mortality"[Mesh] OR "mortality"[Subheading] OR "Disease-Free Survival"[Mesh] OR "Survival Analysis"[Mesh] OR "Survival Rate"[Mesh] OR "Outcome"[All Fields] OR "outcomes"[All Fields] OR "Predictive Value of Tests"[Mesh] OR "Survivors"[Mesh] OR "return of spontaneous circulation"[TIAB] OR "ROSC"[TIAB)))) NOT ((animals[mh] NOT humans[mh]) NOT ("letter"[pt] OR "comment"[pt] OR "editorial"[pt] or Case Reports[ptyp])))

Cardiac arrest associated with pulmonary embolism (ALS 435, 581: SysRev)
2010:

Updated 25 Aug 2020 1 year= 7 results

(pulmonary embolism/th) AND (((((((((life support care[MeSH Terms]) OR "life support"[Title/Abstract]) OR cardiopulmonary resuscitation[MeSH Terms]) OR "cardiopulmonary resuscitation"[Title/Abstract]) OR "CPR"[Title/Abstract]) OR "return of spontaneous circulation"[Title/Abstract]) OR "ROSC"[Title/Abstract]) OR heart arrest[MeSH Terms]) OR "cardiac arrest"[Title/Abstract])) NOT ((animals[MH] NOT humans[MH])))

Opioid Toxicity (ALS 441: EvUp)

PubMed 2020:

Updated 25 Aug 2020 1 year= 16 results

("analgesics, opioid"[MeSH Terms] OR opiate*[tiab] OR opioid*[tiab] OR "opium"[MeSH Terms] OR opium[tiab] OR "opium dependence"[MeSH Terms] OR "morphine derivatives"[MeSH Terms] OR codeine[tiab] OR hydrocodone[tiab] OR oxycodone[tiab] OR dihydromorphine[tiab] OR heroin[tiab] OR hydromorphone[tiab] OR morphine[tiab] OR oxymorphone[tiab] OR thebaine[tiab] OR "methadone"[MeSH Terms] OR methadone[tiab] OR "fentanyl"[MeSH Terms] OR fentanyl[tiab] OR vicodin[tiab] OR meperidine[MeSH Terms] OR meperidine[tiab] OR demerol[tiab] OR oxycontin[tiab] OR tramadol[MeSH Terms] OR tramadol[tiab] OR "opioid-related disorders"[MeSH Terms] OR "narcotics"[MeSH Terms] OR narcotic*[tiab]) AND ("heart arrest"[MeSH Terms] OR "out-of-hospital cardiac arrest"[MeSH Terms] OR "heart arrest"[tiab] OR "cardiac arrest"[tiab] OR "cardiovascular arrest"[tiab] OR "cardiopulmonary arrest"[tiab] OR "asphyxial arrest"[tiab] OR asystole*[tiab] OR ROSC[tiab] OR "return of spontaneous circulation"[tiab] OR "pulseless electrical activity"[tiab] OR "resuscitation"[MeSH Terms] OR resuscitat*[tiab] OR CPR[tiab] OR "life support"[tiab] OR BLS[tiab] OR ALS[tiab] OR ACLS[tiab] OR "life support care"[MeSH Terms] OR "heart massage"[tiab] OR "cardiac massage"[tiab] OR "chest compression"[tiab] OR "chest compressions"[tiab] OR "cardiac compression"[tiab] OR "cardiac compressions"[tiab] OR "ventricular fibrillation"[MeSH Terms] OR "ventricular fibrillation"[tiab] OR "atrial fibrillation"[tiab] OR "heart fibrillation"[tiab] OR "cardiac fibrillation"[tiab] OR "electric countershock"[MeSH Terms] OR cardioversion[tiab] OR defibrillat*[tiab]) AND ("narcotic antagonists"[MeSH Terms] OR "narcotic antagonist"[tiab] OR "narcotic antagonists"[tiab] OR "opioid antagonist"[tiab] OR "opioid antagonists"[tiab] OR "opioid receptor antagonist"[tiab] OR "opioid receptor antagonists"[tiab] OR "naloxone"[MeSH Terms] OR naloxone[tiab] OR narcan[tiab] OR evzio[tiab] OR nalmefene[tiab] OR naltrexone[tiab] OR "buprenorphine"[MeSH Terms] OR

buprenorphine[tiab] OR subutex[tiab] OR "buprenorphine, naloxone drug combination"[MeSH Terms] OR suboxone[tiab] OR "sodium bicarbonate"[MeSH Terms] OR bicarbonate[tiab]) NOT ("animals"[mh] NOT "humans"[mh]) NOT ("letter"[pt] OR "comment"[pt] OR "editorial"[pt] or "case reports"[ptyp])

Oxygen dose after Return of Spontaneous Circulation (ROSC) in Adults (ALS 448: SysRev) and Ventilation strategy after ROSC in adults (ALS 571: SysRev):
Holmberg MJ, Nicholson T, Nolan JP, Schexnayder S, Reynolds J, Nation K, Welsford M, Morley P, Soar J, Berg KM. Oxygenation and Ventilation Targets after Cardiac Arrest: A Systematic Review and Meta-Analysis. Resuscitation. 2020 May 8.

Search strategy

MEDLINE

- 1 exp Heart Arrest/
- 2 ((heart or cardi* or cardiovascular) adj1 arrest*).ab,kf,ti.
- 3 code 99.ab,kf,ti.
- 4 asystole.ab,kf,ti.
- 5 ((cardiopulmonary or cardio-pulmonary) adj1 arrest*).ab,kf,ti.
- 6 code blue.ab,kf,ti.
- 7 respiratory arrest*.ab,kf,ti.
- 8 pulseless electrical activity.ab,kf,ti.
- 9 Advanced Cardiac Life Support/
- 10 Advanced Cardi* Life Support.ab,kf,ti.
- 11 ACLS.ab,kf,ti.
- 12 exp Cardiopulmonary Resuscitation/
- 13 ventricular fibrillation/ or Tachycardia, Ventricular/
- 14 resuscitation/
- 15 ((cardiopulmonary or cardio-pulmonary) adj1 resuscitation).ab,kf,ti.
- 16 CPR.ab,kf,ti.
- 17 Resuscitation.jw.
- 18 or/1-17
- 19 (spontaneous circulation or Return of circulation).ab,kf,ti.
- 20 ROSC.ab,kf,ti.
- 21 (re-animate* or reanimate* or reanimation).ab,kf,ti.
- 22 (post resuscitat* or post-resuscitat* or postresuscitat*).ab,kf,ti.
- 23 postarrest*.ab,kf,ti.
- 24 (post adj2 (heart or cardiac or cardiovascular) adj1 arrest*).ab,kf,ti.
- 25 Intensive Care Units/
- 26 (Intensive Care or ICU or ICUs).ab,kf,ti.
- 27 or/19-26
- 28 Oxygen/bl [Blood]
- 29 Carbon Dioxide/bl [Blood]
- 30 hypoxia/ or hypercapnia/ or hyperoxia/ or hypocapnia/
- 31 exp Oxygen Inhalation Therapy/
- 32 Respiration, Artificial/
- 33 exp Ventilators, Mechanical/
- 34 ((blood or arterial or peripheral or titrated or inspired or high flow or supplement* or concentration or saturat*) adj2 (oxygen or oxygenation or reoxygenation or Carbon Dioxide or CO2 or O2)).ab,kf,ti.

35 (hypoxia or hyperoxia or normoxia or normocarbia or hypercapnia or hypocapnia or hyperoxic or supranormal or normoxic or titrated).ab,kf,ti.
36 Mechanical ventilat*.ab,kf,ti.
37 ventilation strateg*.ab,kf,ti.
38 (PaO₂ or SpO₂ or PaCO₂).ab,kf,ti.
39 or/28-38
40 18 and 27 and 39
41 Animals/ not (Animals/ and Humans/)
42 40 not 41
43 (case reports or comment or editorial).pt.
44 42 not 43
45 ("30430209" or "29437118" or "24892265" or "27697606" or "27060535").ui.
46 44 and 45
47 ("26415731" or "25600183" or "24557423" or "24210887" or "23613256" or "23454258" or "17101205").ui.
48 44 and 47
See above (published SR)

Post-resuscitation Hemodynamic Support (ALS 570: EvUp)

2019 Search Strategy:

Pubmed:

Updated 25 Aug 2020 1 year= 56 results

((((((((heart arrest[MeSH Terms] OR heart arrest OR cardiac arrest OR cardiopulmonary resuscitation [MeSH Terms] OR CPR OR resuscitation))) AND ((return of spontaneous circulation OR (rosc) OR spontaneous circulation OR post resuscitation OR post cardiac arrest)))))) AND (((hemodynamic goal OR physiological monitoring[MeSH Terms] or "goal directed therapy" "OR titration OR drug therapy OR vasopressor OR inotrope OR titrate OR Algorithm[mh] OR ((goal OR target OR parameter) and hemodynamic))) OR (supranormal OR Lactate [mh] OR "Low cardiac output syndrome" or cardiac output)))))) AND ((((((((((((" patients "[MeSH Terms] OR " patients "[All Fields] OR " patient "[All Fields]) AND outcomes [All Fields])) OR (" mortality "[Subheading] OR " mortality "[All Fields] OR " survival "[All Fields] OR " survival "[MeSH Terms]) OR (" survival rate "[MeSH Terms] OR (" survival "[All Fields] AND " rate "[All Fields]) OR " survival rate "[All Fields]))) OR outcomes) OR neurological function) OR length of stay)) AND Humans[Mesh])NOT (((animals "[MH] NOT (animals[MH] AND human[MH])))))))))))) AND ("2013/12/01"[Date - Publication] : "3000"[Date - Publication]))

Targeted Temperature Management (ALS 790: EvUp)

2019 Search Strategy:

Updated 25 Aug 2020 1 year= 238 results

("paramedic cooling"[TIAB] OR "field hypothermia"[TIAB] OR "Hypothermia, Induced"[Mesh] OR "targeted temperature management"[TIAB] OR "therapeutic hypothermia"[TIAB] OR "hypothermia therapy"[TIAB] OR "whole body cooling"[TIAB] OR "whole-body cooling"[TIAB] OR ((cool*[TIAB] OR cold[TIAB] OR "target temperature"[TIAB] OR "Body Temperature"[Mesh] OR "body temperature"[TIAB])) AND ("Brain Injuries"[Mesh] OR "brain injury"[TIAB] OR "brain injuries"[TIAB] OR "neurological status"[TIAB] OR "neurological outcome"[TIAB] OR "neurological outcomes"[TIAB] OR "functional outcome"[TIAB] OR "functional outcomes"[TIAB] OR neuroprotect*[TIAB] OR "Hypoxia-Ischemia, Brain"[Mesh] OR "hypoxic-ischemic encephalopathy"[TIAB] OR "cognitive impairment"[TIAB] OR "cognitive

impairments"[TIAB] OR "cognitive function"[TIAB] OR "Outcome and Process Assessment (Health Care)"[Mesh] OR "Treatment Outcome"[Mesh] OR "Glasgow Outcome Scale"[Mesh])) AND ("Out-of-Hospital Cardiac Arrest"[Mesh] OR "Out of Hospital Cardiac Arrest"[TIAB] OR "Out-of-Hospital Cardiac Arrest"[TIAB] OR "return of spontaneous circulation"[TIAB] OR ROSC[TIAB] OR "Heart Arrest"[Mesh] OR "cardiac arrest"[TIAB] OR "cardiac arrests"[TIAB] OR "cardiovascular arrest"[TIAB] OR "cardiovascular arrests"[TIAB] OR "heart arrest"[TIAB] OR "heart arrests"[TIAB] OR "asystole"[TIAB] OR "pulseless electrical activity"[TIAB] OR "cardiopulmonary arrest"[TIAB] OR "cardiopulmonary arrests"[TIAB] OR "Advanced Cardiac Life Support"[Mesh] OR "Advanced Cardiac Life Support"[TIAB] OR "ACLS"[TIAB] OR "Ventricular Fibrillation"[Mesh] OR "cardiopulmonary resuscitation"[Mesh] OR "cardiopulmonary resuscitation"[TIAB] OR CPR[TIAB] OR "Heart Massage"[Mesh]) NOT ((animal[mesh] NOT humans[mesh])) NOT ("letter"[Publication Type] OR "comment"[Publication Type] OR "editorial"[Publication Type] or Case Reports[Publication Type]) Deploying a filter to exclude non-english studies, non-human studies and studies published greater than 5 years ago

Fever post resuscitation (ALS 455) and Prevention of fever after cardiac arrest (ALS 879) SysRev

PubMed

Updated 25 Aug 2020 1 year= 216 results

((("Heart Arrest"[Mesh] OR "cardiac arrest"[TIAB] OR "cardiovascular arrest"[TIAB] OR "heart arrest"[TIAB] OR "asystole"[TIAB] OR "pulseless electrical activity"[TIAB] OR "Advanced Cardiac Life Support"[TIAB] OR "ACLS"[TIAB] OR "Ventricular Fibrillation"[Mesh:noexp] OR "Cardiopulmonary Resuscitation"[Mesh] OR "cardiopulmonary resuscitation"[TIAB] OR "CPR"[TIAB] OR "cardiopulmonary arrest"[TIAB]) AND ("Fever"[Mesh] OR fever[TIAB] OR pyrexia[TIAB] OR hyperthermia[TIAB] OR hyperthermic[TIAB] OR "temperature control"[TIAB] OR normothermia[TIAB] OR "Body Temperature"[Mesh:NoExp] OR "fever control"[TIAB] OR "temperature management"[TIAB]))) NOT (animals[mh] NOT humans[mh]) NOT ("letter"[pt] OR "comment"[pt] OR "editorial"[pt] or Case Reports[ptyp]))

Embase:

'heart arrest'/exp OR 'cardiac arrest':ab,ti OR 'cardiovascular arrest':ab,ti OR 'heart arrest':ab,ti OR 'cardiopulmonary arrest':ab,ti OR 'asystole':ab,ti OR 'pulseless electrical activity':ab,ti OR 'advanced cardiac life support':ab,ti OR 'acls':ab,ti OR 'heart ventricle fibrillation'/de OR 'cardiopulmonary resuscitation':ab,ti OR 'cpr':ab,ti AND ('fever'/exp OR fever:ab,ti OR pyrexia:ab,ti OR 'hyperthermia'/de OR hyperthermia:ab,ti OR hyperthermic:ab,ti OR 'temperature control':ab,ti OR normothermia:ab,ti OR 'body temperature'/de OR 'fever control':ab,ti OR 'temperature management':ab,ti) NOT ('animal'/exp NOT 'human'/exp) NOT ([editorial]/lim OR [letter]/lim OR 'case report'/de) AND [embase]/lim

Cochrane:

([mh "Heart Arrest"] or "cardiac arrest":ti,ab or "cardiovascular arrest":ti,ab or "heart arrest":ti,ab or "asystole":ti,ab or "pulseless electrical activity":ti,ab or "Advanced Cardiac Life Support":ti,ab or "ACLS":ti,ab or [mh ^"Ventricular Fibrillation"] or [mh "Cardiopulmonary Resuscitation"] or "cardiopulmonary resuscitation":ti,ab or "CPR":ti,ab or "cardiopulmonary arrest":ti,ab) and ([mh Fever] or fever:ti,ab or pyrexia:ti,ab or hyperthermia:ti,ab or hyperthermic:ti,ab or "temperature control":ti,ab or normothermia:ti,ab or [mh ^"Body Temperature"] or "fever control":ti,ab or "temperature management":ti,ab)

Prophylactic antibiotics after cardiac arrest (ALS New: SysRev)

Search strategy (MEDLINE search)

1. exp Heart Arrest/
2. exp Cardiopulmonary Resuscitation/
3. exp Out-of-Hospital Cardiac Arrest/
4. exp Heart Massage/
5. (cardiac adj arrest).mp.
6. (cardiopulmonary adj resuscitation).mp.
7. (chest adj compression*).mp.
8. (cardiac adj compression*).mp.
9. exp Anti-Bacterial Agents/
10. exp Antibiotic Prophylaxis/
11. exp Anti-Infective Agents/
12. exp ANTIMICROBIAL STEWARDSHIP/
13. antibiotic*.mp.
14. anti-biotic*.mp.
15. antimicrobial*.mp.
16. anti-microbial*.mp.
17. 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8
18. 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16
19. 17 and 18

Post Cardiac Arrest Seizure Prophylaxis and Treatment (ALS 431, 868: SysRev)

PubMed

July 11, 2014 results – 560

September 26, 2019 update – 200

Updated 25 Aug 2020 1 year= 36 results

((((((((((((Heart Arrest[MeSH Terms]) OR Ventricular Fibrillation[MeSH Terms]) OR Cardiopulmonary Resuscitation[MeSH Terms]) OR heart arrest[Title/Abstract]) OR cardiac arrest[Title/Abstract]) OR cardiopulmonary arrest[Title/Abstract]) OR cardiovascular arrest[Title/Abstract]) OR asystole[Title/Abstract]) OR ventricular fibrillation[Title/Abstract]) OR pulseless electrical activity[Title/Abstract]) OR Advanced Cardiac Life Support[Title/Abstract]) OR ACLS[Title/Abstract]) OR cardiopulmonary resuscitation[Title/Abstract]) OR CPR[Title/Abstract]) OR post-resuscitat*[Title/Abstract]) OR postresuscitat*[Title/Abstract]) OR resuscitated[Title/Abstract]) OR return of spontaneous circulation[Title/Abstract]) OR return of circulation[Title/Abstract]) OR ROSC[Title/Abstract]) OR post-cardiac arrest[Title/Abstract]) OR postcardiac arrest[Title/Abstract]) OR post-infarct*[Title/Abstract]) OR postinfarct*[Title/Abstract])) AND (((((((Seizures[Mesh:NoExp]) OR seizure*[Title/Abstract]) OR convuls*[Title/Abstract])) AND (((((Treatment Outcome[MeSH Terms]) OR therap*[Title/Abstract]) OR treatment*[Title/Abstract]) OR prophylaxis[Title/Abstract]) OR prevention[Title/Abstract]))) OR Anticonvulsants[MeSH Terms]) OR Anticonvulsants[Pharmacological Action]) OR anticonvuls*[Title/Abstract]) OR antiseizure*[Title/Abstract]) OR anti-convuls*[Title/Abstract]) OR anti-seizure*[Title/Abstract])) NOT ((animals[mh] NOT humans[mh]))) NOT ((letter"[pt] OR "comment"[pt] OR "editorial"[pt] or Case Reports[ptyp])))

Clinical Examination for Prognostication (ALS 450, 713, 487: SysRev)

Claudio: Medline via pubmed (same search for all prognostication Qs)

Updated 25 Aug 2020 1 year= 10 results

((("Heart Arrest"[Mesh]) OR ("Cardiopulmonary Resuscitation"[Mesh]) OR ("Death, Sudden, Cardiac"[Mesh]) OR ("Hypoxia-Ischemia, Brain"[Mesh])) AND ((("Coma"[Mesh]) AND ("Prognosis"[Mesh])))

Neurophysiological Tests for Prognostication (450, 713, 460: SysRev)

Claudio: Medline via pubmed (same search for all prognostication Qs)

Updated 25 Aug 2020 1 year= 10 results

((("Heart Arrest"[Mesh]) OR ("Cardiopulmonary Resuscitation"[Mesh]) OR ("Death, Sudden, Cardiac"[Mesh]) OR ("Hypoxia-Ischemia, Brain"[Mesh])) AND ((("Coma"[Mesh]) AND ("Prognosis"[Mesh])))

Biomarkers for Prognostication (ALS 450, 713, 484: SysRev)

Claudio: Medline via pubmed (same search for all prognostication Qs)

Updated 25 Aug 2020 1 year= 10 results

((("Heart Arrest"[Mesh]) OR ("Cardiopulmonary Resuscitation"[Mesh]) OR ("Death, Sudden, Cardiac"[Mesh]) OR ("Hypoxia-Ischemia, Brain"[Mesh])) AND ((("Coma"[Mesh]) AND ("Prognosis"[Mesh])))

Imaging for Prognostication (ALS 450, 713, 458: SysRev)

Claudio: Medline via pubmed (same search for all prognostication Qs)

Updated 25 Aug 2020 1 year= 10 results

((("Heart Arrest"[Mesh]) OR ("Cardiopulmonary Resuscitation"[Mesh]) OR ("Death, Sudden, Cardiac"[Mesh]) OR ("Hypoxia-Ischemia, Brain"[Mesh])) AND ((("Coma"[Mesh]) AND ("Prognosis"[Mesh])))

Other ALS in appendix C-3

Confirmation of Correct Tracheal Tube Placement (ALS 469: EvUp)

2019 Search Strategy:

Updated 25 Aug 2020 1 year= 8 results

((((((((endotracheal tube) OR "Intubation, intratracheal"[MH] OR "tracheal intubation"[TI] OR "endotracheal intubation"[TI] OR "ETT"[TI] OR "advanced airway management"[TI] OR "intubation"[TI] OR "intubation/methods"[MH]) OR "advanced airway management"[TI]))) AND ((((((((((Heart Arrest[MeSH Major Topic]) OR Cardiopulmonary resuscitation[MeSH Major Topic]) OR Ventricular Fibrillation[MeSH Major Topic]) OR heart Massage[MeSH Major Topic]) OR asystole[Title/Abstract]) OR (cardiac arrest[Title/Abstract]) OR Cardiac compression[Title/Abstract]) OR cardiac massage[Title/Abstract]) OR Cardiac compression[Title/Abstract]) OR cardiac massage[Title/Abstract] OR chest compression*[Title/Abstract]) OR CPR[Title/Abstract]) OR heart compression[Title/Abstract]))) AND (((((capnography) OR Waveform[Title/Abstract]) OR CO2 Detection Device) OR Carbon dioxide device) OR Esophageal detector device) OR edd) OR instrumentation[MeSH Subheading]))) NOT (((animals[mh] NOT humans[mh]))) NOT ((("letter"[pt] OR "comment"[pt] OR "editorial"[pt] or Case Reports[ptyp])))

Cardiac Arrest in Pregnancy (ALS 436: EvUp)

Updated 25 Aug 2020 1 year= 36 results

("Pregnancy"[Mesh>NoExp] or "Pregnant Women"[Mesh] or "Pregnancy Complications"[Mesh>NoExp] or pregnant[TI] or pregnancy[TI] OR maternal[TI] OR parturient[TIAB] OR "Anesthesia, Obstetrical"[Mesh] OR "Perinatology"[Mesh] OR "Maternal Mortality"[Mesh]) AND ("Heart Arrest"[Mesh] OR "cardiac arrest"[TIAB] OR "cardiac arrests"[TIAB] OR "cardiovascular arrest"[TIAB] OR "heart arrest"[TIAB] OR "heart arrests"[TIAB] OR "asystole"[TIAB] OR "pulseless electrical activity"[TIAB] OR "cardiopulmonary arrest"[TIAB] OR "cardiopulmonary arrests"[TIAB] OR CPR[TIAB] OR "resuscitation"[Mesh] OR resuscitat*[TIAB] OR "chest compression"[TIAB] OR "chest compressions"[TIAB] OR "heart massage"[TIAB] OR "cardiac massage"[TIAB] OR "cardiac compression"[TIAB] OR "cardiac compressions"[TIAB] OR "thoracic compression"[TIAB] OR "thoracic compressions"[TIAB] OR "maternal resuscitation"[TIAB]) AND ("perimortem cesarean section"[TIAB] OR "perimortem delivery"[TIAB] OR "left lateral"[TIAB] OR "lateral tilt"[TIAB] OR "uterine displacement"[TIAB] OR "aortocaval compression"[TIAB] OR "Patient Positioning"[Mesh] OR "Pregnancy Complications, Cardiovascular"[MeSH] OR pharmacokinetic*[TIAB] OR "Pharmacokinetics"[Mesh] OR "lipid resuscitation" OR "Thrombolytic Therapy"[Mesh] OR thrombolytic*[TIAB] OR Fibrinolytic*[TIAB] OR "Fat Emulsions, Intravenous"[Mesh] OR "fat emulsion"[TIAB] OR "fat emulsions"[TIAB] OR "lipid emulsion"[TIAB] OR "lipid emulsions"[TIAB] OR "cardiac output"[TIAB] OR "Hypothermia, Induced"[Mesh>NoExp] OR hypothermia[TIAB] OR emergenc*[TIAB] OR "Emergencies"[Mesh] OR "Emergency Medical Services"[Mesh] OR "Combined Modality Therapy"[Mesh>NoExp]) NOT ("animals"[Mesh] NOT "humans"[Mesh]) NOT ("letter"[pt] OR "comment"[pt] OR "editorial"[pt] or Case Reports[ptyp] or news[ptyp])

ALS 491: Atropine (EvUp)

2019 Search Strategy:

Updated 25 Aug 2020 1 year= 3 results

((((bradycardia/dt[MeSH Terms]) OR asystole/dt[MeSH Terms])) OR av block/dt[MeSH Terms])) AND atropine[MeSH Terms]

Automatic Versus Manual Modes for Multimodal Defibrillators (EvUp)

2019 PubMed Search Strategy:

Updated 25 Aug 2020 1 year= 1 result

((((manual[Title/Abstract]) OR automatic[Title/Abstract])) AND ((defibrillation, electric[MeSH Terms]) NOT defibrillator, implantable[MeSH Terms])) AND ((((((((((life support care[MeSH Terms]) OR "life support"[Title/Abstract]) OR cardiopulmonary resuscitation[MeSH Terms]) OR "cardiopulmonary resuscitation"[Title/Abstract]) OR "CPR"[Title/Abstract]) OR "return of spontaneous circulation"[Title/Abstract]) OR "ROSC"[Title/Abstract]) OR heart arrest[MeSH Terms]) OR "cardiac arrest"[Title/Abstract])) NOT ((animals[MH] NOT humans[MH])))

Head up CPR (EvUp)

2019 Search Strategy:

Updated 25 Aug 2020 1 year= 8 results

(((((("head up") OR "heads up") OR "head-up") OR "heads-up") OR tilt)) AND ((((((((((life support care[MeSH Terms]) OR "life support"[Title/Abstract]) OR cardiopulmonary resuscitation[MeSH Terms]) OR "cardiopulmonary resuscitation"[Title/Abstract]) OR "CPR"[Title/Abstract]) OR "return of spontaneous circulation"[Title/Abstract]) OR

"ROSC"[Title/Abstract]) OR heart arrest[MeSH Terms]) OR "cardiac arrest"[Title/Abstract])) NOT ((animals[MH] NOT humans[MH])))

ALS 444 : Algorithm for transition from shockable to non-shockable rhythm and vice versa (EvUp)

2019 Search Strategy:

Updated 25 Aug 2020 1 year= 54 results

((((((((asystole [mesh]) OR pulseless electrical activity [tiab]) OR PEA [tiab]) AND ventricular fibrillation [mesh]) OR ventricular tachycardia [mesh]) AND ("2009/01/01"[PDat] : "3000/12/31"[PDat])))) AND (((((((life support care[MeSH Terms]) OR "life support"[Title/Abstract]) OR cardiopulmonary resuscitation[MeSH Terms]) OR "cardiopulmonary resuscitation"[Title/Abstract]) OR "CPR"[Title/Abstract]) OR "return of spontaneous circulation"[Title/Abstract]) OR "ROSC"[Title/Abstract]) OR heart arrest[MeSH Terms]) OR "cardiac arrest"[Title/Abstract)))) AND ("2009/01/01"[PDat] : "3000/12/31"[PDat])))) AND (((((asystole [mesh]) OR pulseless electrical activity [tiab]) OR PEA [tiab]) AND ventricular fibrillation [mesh]) OR ventricular tachycardia [mesh])) AND ("2009/01/01"[PDat] : "3000/12/31"[PDat])))) NOT animals Filters: Publication date from 2008/01/01

Rescue Breathing Tidal Volume (EvUp)

2019 Search Strategy:

Updated 25 Aug 2020 1 year= 3 results

(tidal volume[MeSH Terms]) AND (((((((life support care[MeSH Terms]) OR "life support"[Title/Abstract]) OR cardiopulmonary resuscitation[MeSH Terms]) OR "cardiopulmonary resuscitation"[Title/Abstract]) OR "CPR"[Title/Abstract]) OR "return of spontaneous circulation"[Title/Abstract]) OR "ROSC"[Title/Abstract]) OR heart arrest[MeSH Terms]) OR "cardiac arrest"[Title/Abstract])) NOT ((animals[MH] NOT humans[MH])))

ALS 482: Calcium administration (adults)

2019 Search Strategy:

Updated 25 Aug 2020 1 year= 4 results

(calcium[MeSH Terms]) AND (((((((life support care[MeSH Terms]) OR "life support"[Title/Abstract]) OR cardiopulmonary resuscitation[MeSH Terms]) OR "cardiopulmonary resuscitation"[Title/Abstract]) OR "CPR"[Title/Abstract]) OR "return of spontaneous circulation"[Title/Abstract]) OR "ROSC"[Title/Abstract]) OR heart arrest[MeSH Terms]) OR "cardiac arrest"[Title/Abstract])) NOT ((animals[MH] NOT humans[MH])))

Supraventricular Tachycardia

2019 Search Strategy:

Updated 25 Aug 2020 1 year= 7 results

((((atrioventricular nodal reentrant tachycardia[MeSH Terms]) OR supraventricular tachycardia[MeSH Terms])) NOT sinus tachycardia[MeSH Terms])) AND

((adenosine[Title/Abstract]) OR cardioversion[MeSH Terms]) OR calcium channel blocking drugs[MeSH Terms]) OR beta blockers, adrenergic[MeSH Terms])

ALS 791 Duration of TTM (EvUp)

2019 Search Strategy:

Updated 25 Aug 2020 1 year= 66 results

("Hypothermia, Induced"[Mesh] OR "targeted temperature management"[TIAB] OR "therapeutic hypothermia"[TIAB] OR "hypothermia therapy"[TIAB] OR "whole body cooling"[TIAB] OR "whole-body cooling"[TIAB] OR ((cool*[TIAB] OR cold[TIAB]) AND ("Brain Injuries/prevention and control"[Mesh] OR neuroprotection[TIAB] OR "Hypoxia-Ischemia, Brain/prevention and control"[Mesh] OR "hypoxic-ischemic encephalopathy"[TIAB]))) AND ("Heart Arrest"[Mesh] OR "cardiac arrest"[TIAB] OR "cardiac arrests"[TIAB] OR "cardiovascular arrest"[TIAB] OR "cardiovascular arrests"[TIAB] OR "heart arrest"[TIAB] OR "heart arrests"[TIAB] OR "asystole"[TIAB] OR "pulseless electrical activity"[TIAB] OR "cardiopulmonary arrest"[TIAB] OR "cardiopulmonary arrests"[TIAB] OR "Advanced Cardiac Life Support"[Mesh] OR "Advanced Cardiac Life Support"[TIAB] OR "ACLS"[TIAB] OR "Ventricular Fibrillation"[Mesh] OR "cardiopulmonary resuscitation"[Mesh] OR "cardiopulmonary resuscitation"[TIAB] OR CPR[TIAB] OR "Heart Massage"[Mesh]) AND (prolong*[TIAB] OR hour*[TIAB] OR hrs[TIAB] OR duration*[TIAB] OR "Time Factors"[Mesh]) NOT ("letter"[pt] OR "comment"[pt] OR "editorial"[pt] or Case Reports[ptyp]))

Published SRs

Ashoor HM, Lillie E, Zarin W, Pham B, Khan PA, Nincic V, et al. Effectiveness of different compression-to-ventilation methods for cardiopulmonary resuscitation: A systematic review. *Resuscitation*. 2017;118:112-25.
Database: Ovid MEDLINE(R) <1946 to January Week 1 2016>, Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations <January 14, 2016>
Search Strategy:

-
- 1 exp Cardiopulmonary Resuscitation/
 - 2 (cardiopulmonary respiratory resuscitation\$ or cardiopulmonary resuscitation\$ or cardio pulmonary resuscitation\$ or cardio-pulmonary resuscitation\$ or CPR or Advanced Cardiac Life Support or basic cardiac life support or code blue or resuscitation\$ mouth-to-mouth or mouth-to-mouth resuscitation\$ or mouth to mouth resuscitation\$).tw.
 - 3 Resuscitation/
 - 4 limit 3 to yr=1978-1991
 - 5 1 or 2 or 4
 - 6 mt.fs.
 - 7 method\$.tw.
 - 8 6 or 7
 - 9 5 and 8
 - 10 randomized controlled trial.pt.
 - 11 (randomized or placebo).mp.
 - 12 clinical trial.pt.

13 Comparative Study.pt.
14 cross-over studies/
15 controlled clinical trial.pt.
16 (time adj series).tw.
17 (pre test or pretest or (posttest or post test)).tw.
18 random allocation/
19 (controlled adj before).tw.
20 exp epidemiologic studies/
21 ((case* adj3 control*) or (case adj3 comparison*) or control group*).tw.
22 or/10-21
23 9 and 22
24 (control\$ or compar\$ or random\$).tw.
25 9 and 24
26 23 or 25
27 animals/ not humans/
28 26 not 27
29 (editorial or letter).pt.
30 28 not 29
31 ("18334691" or "19660833" or "16564776" or "18374452" or "20370759" or "26550795").ui.
32 30 or 31
33 comment.pt.
34 32 not 33
35 remove duplicates from 34

Nikolaou N, Dainty KN, Couper K, Morley P, Tijssen J, Vaillancourt C, et al. A systematic review and meta-analysis of the effect of dispatcher-assisted CPR on outcomes from sudden cardiac arrest in adults and children. *Resuscitation*. 2019;138:82-105.

Database: All Ovid Medline <1946 - present>

1. exp Out-of-Hospital Cardiac Arrest/ (2885)
2. exp Death, Sudden, Cardiac/ (15302)
3. exp heart arrest/ (45881)
4. exp myocardial infarction/ (179612)
5. infarction.ti,ab. (224074)
6. ((cardiac or cardiopulmonary or heart or respiratory) adj2 arrest).ti,ab. (32663)
7. asystole.ti,ab. (3594)
8. fibrillation.mp. (27064)
9. exp Ventricular Fibrillation/ (18081)
10. ventricular fibrillation.mp. (27064)
11. exp Tachycardia, Ventricular/ (17250)
12. ventricular tachycardia.mp. (23681)
13. Resuscitation Orders/ (3811)
14. pulseless electrical activity.mp. (765)
15. exp Cardiopulmonary Resuscitation/ (16201)
16. Cardiopulmonary resuscitation.af. (21809)
17. chest compressions.mp. (2010)
18. AED.ti,ab. (5649)

19. Resuscitation/ (26026)
20. *defibrillators/ (1108)
21. defibrillator*.ti,ab. [end of cpr terms] (19871)
22. or/1-21 (423407)
23. *Telecommunications/ (3466)
24. telecommun*.ti,ab. (3862)
25. telephone/ (11706)
26. exp emergency medical service communication systems/ (1759)
27. emergency medical dispatch*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] (154)
28. medical priority dispatch system.mp. (66)
29. MPDS.ti,ab. (491)
30. exp Emergency Medical Dispatcher/ (16)
31. dispatch*.af. (2848)
32. exp emergency medical dispatch/ (36)
33. call-taker.af. (20)
34. exp Hotlines/ (2710)
35. hotline.af. (1049)
36. ("000" or 0-0-0 or "111" or 1-1-1 or "112" or 1-1-2 or "911" or 9-1-1 or "999" or 9-9-9).ti,ab. (607249)
37. or/23-36 (631781)
38. 22 and 37 (16720)
39. (Instruct* or direct* or Guide* or lead* or assist*).ti,ab. (3973466)
40. bystander.mp. (8701)
41. exp police/ (4690)
42. exp Firefighters/ (792)
43. layperson.mp. or lay.ti. (371)
44. 39 or 40 or 41 or 42 or 43 (3984037)
45. 38 and 44 (4094)
46. remove duplicates from 45 (3654)

Considine J, Gazmuri RJ, Perkins GD, Kudenchuk PJ, Olasveengen TM, Vaillancourt C, et al. Chest compression components (rate, depth, chest wall recoil and leaning): A scoping review. *Resuscitation*. 2020;146:188-202.

1. MEDLINE [1 November 2013 to 20 June 2019]

Updated 29 Aug 2020 2019-2020 = 71 results

Chest compression depth

(((("Resuscitation" [Mesh] OR resuscitation[TIAB] OR "Cardiopulmonary Resuscitation"[MeSH] OR CPR[TI] OR "Heart Massage"[MeSH] OR compression*[TIAB] OR "heart massage"[TIAB] OR "cardiac massage"[TIAB] OR "Advanced Cardiac Life Support"[TIAB] OR "high-quality CPR"[TIAB] OR "high quality CPR"[TIAB] OR "CPR metrics"[TIAB] OR "CPR quality"[TIAB] OR "compression quality"[TIAB]) AND (lean*[TIAB] OR "chest recoil"[TIAB] OR recoil*[TIAB] OR (("Thoracic Wall"[Mesh] OR "thoracic wall"[TIAB] OR "chest wall"[TIAB] OR mm/s[TIAB])) AND (Recoil*[TIAB] OR decompress*[TIAB] OR release*[TIAB]))) NOT (animals[Mesh] NOT humans[Mesh]) NOT ("letter"[Publication Type] OR "comment"[Publication Type] OR "editorial"[Publication Type] OR Case Reports[Publication Type])))

OR

Chest compression rate

Updated 29 Aug 2020 2019-2020 = 344 results

(((((((((((((((Heart Arrest[MeSH Terms]) OR Ventricular Fibrillation[MeSH Terms])
OR heart arrest[Title/Abstract]) OR cardiac arrest[Title/Abstract]) OR
asystole[Title/Abstract]) OR cardiopulmonary arrest[Title/Abstract]) OR cardiovascular
arrest[Title/Abstract]) OR Cardiopulmonary Resuscitation[MeSH Terms]) OR
resuscitation[Title/Abstract]) OR CPR[Title/Abstract]) OR "advanced cardiac life
support"[Title/Abstract]) OR ACLS[Title/Abstract]) OR Heart Massage[MeSH Terms]) OR
heart massage*[Title/Abstract]) OR cardiac massage*[Title/Abstract] OR Basic Life
Support[Title/Abstract] OR BLS[Title/Abstract])) AND (((((((((((((compression
rate*[Title/Abstract]) OR cc rate*[Title/Abstract]) OR fast compression[Title/Abstract]) OR
slow compression[Title/Abstract]) OR compression ratio[Title/Abstract]) OR compression
ratios[Title/Abstract]) OR "compression-decompression ratio"[Title/Abstract]) OR
"compression-to-ventilation ratio"[Title/Abstract]) OR "compression-to ventilation
ratios"[Title/Abstract]) OR compression-ventilation ratio[Title/Abstract]) OR compression
ventilation ratios[Title/Abstract]) OR compression fraction[Title/Abstract]) OR rate
directed[Title/Abstract]) OR high impulse[Title/Abstract]) OR CPR rate*[Title/Abstract])
OR fast rate*[Title/Abstract]) OR time dependent[Title/Abstract]) OR
interruption*[Title/Abstract]) OR pause*[Title/Abstract]) OR hands off[Title/Abstract]) OR
per minute[Title/Abstract]) OR rest[Title/Abstract]))) NOT ((animals[mh] NOT
humans[mh]))) NOT ((letter"[pt] OR "comment"[pt] OR "editorial"[pt] or Case
Reports[ptyp])))

OR

Leaning and recoil

Updated 29 Aug 2020 2019-2020 = 321 results

(((((((((((((((Heart Arrest[MeSH Terms]) OR heart arrest[Title/Abstract]) OR cardiac
arrest[Title/Abstract]) OR asystole*[Title/Abstract]) OR cardiopulmonary
arrest[Title/Abstract]) OR cardiovascular arrest[Title/Abstract]) OR Ventricular
Fibrillation[MeSH Terms]) OR Cardiopulmonary Resuscitation[MeSH Terms]) OR
resuscitation[Title/Abstract]) OR CPR[Title/Abstract]) OR pulseless electrical
activity[Title/Abstract]) OR advanced cardiac life support[Title/Abstract]) OR
ACLS[Title/Abstract]) OR Heart Massage[MeSH Terms]) OR heart
massage*[Title/Abstract]) OR cardiac massage*[Title/Abstract]) OR chest
compression*[Title/Abstract]) OR cardiac compression*[Title/Abstract])) AND
((((((((depth[Title/Abstract]) OR recoil[Title/Abstract]) OR
decompression[Title/Abstract]) OR elasticity[Title/Abstract]) OR inches[Title/Abstract]) OR
centimetres[Title/Abstract]) OR centimeters[Title/Abstract]) OR depress[Title/Abstract]) OR
relaxation[Title/Abstract]) OR chest wall compression[Title/Abstract]) OR chest compression
quality[Title/Abstract]) OR compression force[Title/Abstract]))

Early Access and Cardiac Arrest Prevention, including Emergency Medical Dispatch and Dispatcher Assisted CPR

Dispatcher recognition of cardiac arrest (BLS 740: SysRev)

See also SR when published

Database: All Ovid Medline <1946 - present>

Search Strategy:

-
- 1 emergency medical service communication systems/ (1758)
2 emergency medical dispatch/ (91)
3 Emergency Medical Dispatcher/ (36)
4 call centers/ (61)
5 hotlines/ (2659)
6 telephone/ or cell phone/ (19468)
7 Telecommunications/ (4760)
8 "911".tw,kf. (9248)
9 "9-1-1".tw,kf. (583)
10 "999".tw,kf. (13411)
11 "9-9-9".tw,kf. (69)
12 dispatch*.tw,kf. (3055)
13 despatch*.tw,kf. (90)
14 (call adj3 take*).tw,kf. (163)
15 (calls adj3 take*).tw,kf. (81)
16 calltaker*.tw,kf. (1)
17 call receiver*.tw,kf. (4)
18 phone*.tw,kf. (35149)
19 telephone*.tw,kf. (56538)
20 telecommunicat*.tw,kf. (4183)
21 "T-CPR".tw,kf. (33)
22 operator*.tw,kf. (56327)
23 emergency call*.tw,kf. (839)
24 emergency medical call*.tw,kf. (26)
25 call centre*.tw,kf. (273)
26 call center*.tw,kf. (573)
27 emd.tw,kf. (2727)
28 hotline*.tw,kf. (1156)
29 or/1-28 (189858)
30 exp Heart Arrest/ (46333)
31 Ventricular Fibrillation/ (16858)
32 Resuscitation/ (25767)
33 Heart Massage/ (3086)
34 exp Cardiopulmonary Resuscitation/ (17214)
35 cardi* arrest*.tw,kf. (37515)
36 heart arrest*.tw,kf. (2265)
37 CPR.tw,kf. (11841)
38 advanced cardiac life support.tw,kf. (1031)
39 ACLS.tw,kf. (1094)
40 basic life support.tw,kf. (1916)
41 BLS.tw,kf. (1820)
42 asystole*.tw,kf. (4149)
43 pulseless electrical activity.tw,kf. (837)
44 (return of circulation or return of spontaneous circulation or ROSC).tw,kf. (3763)
45 resuscitat*.tw,kf. (62496)
46 ventricular fibrillation*.tw,kf. (18508)
47 chest compression*.tw,kf. (3615)
48 agonal breath*.tw,kf. (47)
49 Electric Countershock/ (14530)

50 Defibrillators/ (1736)
51 electric countershock.tw,kf. (397)
52 defibrillat*.tw,kf. (25927)
53 aed.tw,kf. (6084)
54 exp Drowning/ (3934)
55 drown*.tw,kf. (5234)
56 or/30-55 (172390)
57 29 and 56 (2929)
58 Communication/ (81377)
59 communication barriers/ (6343)
60 Linguistics/ (8150)
61 early diagnosis/ (25327)
62 Diagnosis, Differential/ (443460)
63 Delayed Diagnosis/ (5826)
64 exp Diagnostic Errors/ (114204)
65 Clinical Protocols/ (27191)
66 Critical Pathways/ (6464)
67 Risk Assessment/ (252020)
68 (recogni* or identif* or detect* or diagnos*).tw,kf. (6952079)
69 accuracy.tw,kf. (379025)
70 exp "Sensitivity and Specificity"/ (566344)
71 sensitivity.tw,kf. (768683)
72 specificity.tw,kf. (447265)
73 predictive value of test*.tw,kf. (416)
74 positive predictive value.tw,kf. (40115)
75 negative predictive value.tw,kf. (33378)
76 true positive*.tw,kf. (7781)
77 true negative*.tw,kf. (3303)
78 false positive*.tw,kf. (57101)
79 false negative*.tw,kf. (32154)
80 or/58-79 (8250450)
81 57 and 80 (1399)
82 limit 81 to (comment or editorial or letter) (16)
83 81 not 82 (1383)
84 83 not (animals/ not humans/) (1361)
85 remove duplicates from 84 (1357)
86 limit 85 to ed=20190423-20191128 (59)
87 limit 85 to dt=20190423-20191128 (68)
88 limit 85 to ez=20190423-20191128 (51)
89 86 or 87 or 88 (121)
90 remove duplicates from 89 (121)

Dispatcher instructions (BLS 359: SysRev)

Pubmed

Updated 29 Aug 2020 last 1 year = 163 results

(((((Emergency Medical Service Communication Systems[mesh] OR 911[TIAB] OR
999[TIAB] OR 9-1-1[TIAB] OR 9-9-9[TIAB] OR Emergency Medical Services[mesh] OR
"Telephone"[Mesh] OR telephone[TIAB] OR dispatch-assisted[TIAB] OR dispatcher-
assisted[TIAB] OR dispatch*[TIAB] OR "call-taker"[TIAB] OR operator*[TIAB] OR
"Hotlines"[Mesh]))) AND (Instruct*[TIAB] OR direct*[TIAB] OR Guide*[TIAB] OR

lead*[TIAB] OR assist*[TIAB] OR bystander[TIAB])) AND ((("Out-of-Hospital Cardiac Arrest"[Mesh] OR "Heart Arrest"[Mesh] OR "cardiac arrest"[TIAB] OR "cardiac arrests"[TIAB] OR "cardiovascular arrest"[TIAB] OR "cardiovascular arrests"[TIAB] OR "heart arrest"[TIAB] OR "heart arrests"[TIAB] OR "asystole"[TIAB] OR "pulseless electrical activity"[TIAB] OR "cardiopulmonary arrest"[TIAB] OR "cardiopulmonary arrests"[TIAB] OR "cardiopulmonary resuscitation"[Mesh] OR "cardiopulmonary resuscitation"[TIAB] OR CPR[TIAB] OR "Heart Massage"[Mesh]))) NOT ((editorial /lim OR letter /lim OR case report/de)

Dispatch assisted compression-only CPR vs conventional CPR (BLS-2016: SysRev)

See ILCOR SR above.

Compression-only CPR

EMS chest compression-only versus conventional CPR (BLS 360: SysRev)

See ICOR SR above: Effectiveness of different compression-to-ventilation methods for cardiopulmonary resuscitation: A systematic review

Chest compression-only CPR vs conventional CPR (BLS 372: SysRev)

See ICOR SR above: Effectiveness of different compression-to-ventilation methods for cardiopulmonary resuscitation: A systematic review

Lay rescuer chest compression only vs standard CPR (BLS 547: SysRev)

See ICOR SR above: Effectiveness of different compression-to-ventilation methods for cardiopulmonary resuscitation: A systematic review

Rescuer fatigue in chest compression (CC)-Only CPR (BLS 349: ScopRev)

Listed as Pubmed

((compression only) OR hands only) AND resuscitation AND ((depth) OR (rate) OR (recoil) OR (fraction) OR (quality) OR (effectiveness) OR (willingness) OR (fatigue) OR (change) OR (bystander) OR (rescuer))

Also listed as:

Cardiopulmonary resuscitation OR CPR AND fatigue

Cardiopulmonary resuscitation OR CPR AND quality

Chest compression AND fatigue

Chest compression AND quality

Chest compression AND continuous

Searched as:

Updated 29 Aug 2020 last 1 year = 72 results

((((((((((("compress"[All Fields] OR "compressed"[All Fields]) OR "compresses"[All Fields]) OR "compressibilities"[All Fields]) OR "compressibility"[All Fields]) OR "compressible"[All Fields]) OR "compressing"[All Fields]) OR "compression"[All Fields]) OR "compression s"[All Fields]) OR "compressions"[All Fields]) OR "compressive"[All Fields]) OR "compressively"[All Fields]) AND "only"[All Fields]) OR (((("hand"[MeSH Terms] OR "hand"[All Fields]) OR "hands"[All Fields]) OR "hand s"[All

Fields]) AND "only"[All Fields])) AND (((((((("resuscitability"[All Fields] OR "resuscitate"[All Fields]) OR "resuscitated"[All Fields]) OR "resuscitates"[All Fields]) OR "resuscitating"[All Fields]) OR "resuscitation"[MeSH Terms]) OR "resuscitation"[All Fields]) OR "resuscitations"[All Fields]) OR "resuscitative"[All Fields]) OR "resuscitator"[All Fields]) OR "resuscitators"[All Fields])) AND (((((((("depth"[All Fields] OR "depths"[All Fields]) OR ("j rehabil assist technol eng"[Journal] OR "rate"[All Fields])) OR (((recoil"[All Fields] OR "recoiled"[All Fields]) OR "recoiling"[All Fields]) OR "recoils"[All Fields])) OR (((((((("dose fractionation, radiation"[MeSH Terms] OR ("dose"[All Fields] AND "fractionation"[All Fields]) AND "radiation"[All Fields])) OR "radiation dose fractionation"[All Fields]) OR "fractionation"[All Fields]) OR "chemical fractionation"[MeSH Terms]) OR ("chemical"[All Fields] AND "fractionation"[All Fields])) OR "chemical fractionation"[All Fields]) OR "fraction"[All Fields] OR "fraction s"[All Fields]) OR "fractionate"[All Fields]) OR "fractionated"[All Fields]) OR "fractionates"[All Fields]) OR "fractionating"[All Fields]) OR "fractionationed"[All Fields]) OR "fractionations"[All Fields]) OR "fractionator"[All Fields]) OR "fractionators"[All Fields]) OR "fractioned"[All Fields]) OR "fractioning"[All Fields]) OR "fractionized"[All Fields]) OR "fractions"[All Fields])) OR (((("qualities"[All Fields] OR "quality"[All Fields]) OR "quality s"[All Fields])) OR (((((((("effect"[All Fields] OR "effecting"[All Fields]) OR "effective"[All Fields]) OR "effectively"[All Fields]) OR "effectiveness"[All Fields]) OR "effectivenesses"[All Fields]) OR "effectives"[All Fields]) OR "effectivities"[All Fields]) OR "effectivity"[All Fields]) OR "effects"[All Fields])) OR "willingness"[All Fields]) OR ((((("fatiguability"[All Fields] OR "fatiguable"[All Fields]) OR "fatigue"[MeSH Terms]) OR "fatigue"[All Fields]) OR "fatigued"[All Fields]) OR "fatigues"[All Fields]) OR "fatiguing"[All Fields]) OR "fatigueability"[All Fields])) OR (((("change"[All Fields] OR "changed"[All Fields]) OR "changes"[All Fields]) OR "changing"[All Fields]) OR "changings"[All Fields])) OR (((("bystander"[All Fields] OR "bystander s"[All Fields]) OR "bystanders"[All Fields]) OR "bystanding"[All Fields])) OR (((("rescuer"[All Fields] OR "rescuer s"[All Fields]) OR "rescuers"[All Fields])))

CPR Sequence

Firm surface for CPR (BLS 370: SysRev)

Database: Ovid MEDLINE(R) <1946 to September Week 1 2019>

Search Strategy:

-
- 1 exp Death, sudden, cardiac/ (14796)
 - 2 cardiopulmonary resuscitation.ti,ab. or exp Cardiopulmonary Resuscitation/ (21251)
 - 3 cpr.ti,ab. (10043)
 - 4 exp heart massage/ (3068)
 - 5 chest compression*.ti,ab. (3078)
 - 6 resuscitat*.ti,ab. (53080)
 - 7 or/2-6 (63712)
 - 8 exp Beds/ (4295)

- 9 (bed not capacity).ti,ab. (72378)
10 mattress*.ti,ab. (3342)
11 (backboard* or back-board* or back board*).ti,ab. (150)
12 exp stretchers/ or stretcher*.ti,ab. (726)
13 8 or 9 or 10 or 11 or 12 (78057)
14 7 and 13 (672)
15 limit 14 to yr="2009 -Current" (305)
16 exp animals/ not humans.sh. (4612957)
17 15 not 16 (298)

Starting CPR (Compressions-Airway-Breaths [CAB] vs. Airway-Breaths-Compressions [ABC]) (BLS 661: SysRev)

Pubmed

Updated 29 Aug 2020 Last 1 year = 36 results

(((((compression:ventilation[Title/Abstract] OR "chest compression fraction"[TIAB]))) OR (((Heart Massage[MeSH Terms] OR heart massage*[Title/Abstract] OR cardiac massage*[Title/Abstract] OR compression*[Title/Abstract])) AND ("Respiration, Artificial"[Mesh:NoExp] OR ventilation*[Title/Abstract])) AND (ratio[Title/Abstract] OR ratios[Title/Abstract]))) NOT ((animals[mh] NOT humans[mh]) NOT ("letter"[pt] OR "comment"[pt] OR "editorial"[pt] or Case Reports[ptyp])))

CPR before call for help (BLS 1527: SysRev)

Christopher M Smith, Tetsuo Hatanaka

- 1 "Heart Arrest"/ or "Death, Sudden, Cardiac"/ or ("heart arrest" or "cardiac arrest" or "cardiopulmonary arrest" or "cardio-pulmonary arrest" or "sudden cardiac death" or "sudden heart death" or asystole* or asystolic).ti,ab,kf,kw.
2 "Out-of-Hospital Cardiac Arrest"/ or "out of hospital cardiac arrest"/ or OHCA.ti,ab,kf.
3 (out-of-hospital or "out of hospital" or prehospital or pre-hospital or pre-hospitalization or prehospitalization or pre-hospitalisation or prehospitalisation or (before adj2 hospital) or (before adj2 hospitalization) or (before adj2 hospitalization)).ti,ab,kf,kw.
4 or/1-3 [OUT OF HOSPITAL CARDIAC ARREST]
5 exp "Resuscitation"/ or (resuscitat* or "heart massag*" or "cardiac massag*" or "heart compression*" or "cardiac compression*" or "chest compression*" or CPR or "basic cardiac life support" or BCLS or "basic life support" or BLS).ti,ab,kf,kw.
6 4 and 5 [OUT OF HOSPITAL CARDIAC ARREST + RESUSCITATION]
7 ((bystander* or by-stander* or stranger or strangers or layperson* or lay or public) adj1 (CPR or resuscitat* or compression* or "life support")).ti,ab,kf.
8 "Emergency Medical Dispatch"/ or "Emergency Medical Service Communication Systems"/ or "emergency medical dispatch"/ or "emergency medical dispatcher"/
9 ("call first" or "calling first" or "call immediately" or "calling immediately" or "cpr first" or "immediate cpr" or "cpr immediately" or "resuscitat* first" or "immediate resuscitat*" or "resuscitat* immediately").ti,ab,kw.
10 ("emergency medical dispatch" or "emergency dispatch" or "medical dispatcher" or "emergency dispatcher" or "emergency call" or "emergency calls" or "emergency caller*" or "emergency calling" or "call for help" or "calls for help" or "calling for help").ti,ab,kw.

- 11 ("9-1-1" or "9-9-9" or "9-9-1" or "1-1-2" or "1-1-1" or "0-0-0" or "9-9-5" or (("911" or "999" or "991" or "112" or "111" or "000" or "995") adj2 (call or calls or calling or dispatch*))).ti,ab,kf,kw.
- 12 ((EMS or "emergency medical service" or paramedic* or EMT or "emergency medical technician*") adj2 communication*).ti,ab,kf,kw.
- 13 or/7-12 [BYSTANDER CPR OR EMERGENCY COMMUNICATION]
- 14 6 and 13 [OUT OF HOSPITAL CARDIAC ARREST + RESUSCITATION + (BYSTANDER CPR OR EMERGENCY COMMUNICATION)]
- 15 "Time Factors"/ or "time factor"/ or "treatment duration"/ or "algorithm"/ or ("time factor" or "time factors" or "response time*" or "time interval*" or "time elements" or timely or temporal or sequence or sequencing or timing or duration or "length of treatment" or algorithm* or immediate* or delay or delays or delayed or prompt*).ti,ab,kf,kw. [TIMING]
- 16 14 and 15 [OUT OF HOSPITAL CARDIAC ARREST + RESUSCITATION + (BYSTANDER CPR OR EMERGENCY COMMUNICATION) + TIMING]
- 17 (Animals/ or "Animal Experimentation"/ or "Models, Animal"/ or "Disease Models, Animal"/) not (Humans/ or "Human Experimentation"/)
- 18 (exp "animal model"/ or exp "animal experiment"/ or "nonhuman"/ or exp "vertebrate"/) not (exp "human"/ or exp "human experiment"/)
- 19 16 not (17 or 18) [ANIMAL STUDIES REMOVED]
- 20 (editorial or comment or letter or "newspaper article" or news or note).pt.
- 21 (conference or "conference abstract" or "conference paper" or "conference review" or congresses).pt.
EBM Reviews - Cochrane Database of Systematic Reviews <2005 to October 16, 2019>
EBM Reviews - ACP Journal Club <1991 to September 2019>
EBM Reviews - Database of Abstracts of Reviews of Effects <1st Quarter 2016>
EBM Reviews - Cochrane Clinical Answers <August 2019>
[EBM Reviews - Cochrane Central Register of Controlled Trials <September 2019>](#)
EBM Reviews - Cochrane Methodology Register <3rd Quarter 2012>
EBM Reviews - Health Technology Assessment <4th Quarter 2016>
EBM Reviews - NHS Economic Evaluation Database <1st Quarter 2016>
[Embase <1974 to 2019 October 18>](#)
[Ovid MEDLINE\(R\) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily <1946 to October 18, 2019>](#)
- 22 19 not (20 or 21) [ANIMAL STUDIES / PUBLICATION TYPES REMOVED]
EBM Reviews - Cochrane Database of Systematic Reviews <2005 to October 16, 2019>
EBM Reviews - ACP Journal Club <1991 to September 2019>
EBM Reviews - Database of Abstracts of Reviews of Effects <1st Quarter 2016>
EBM Reviews - Cochrane Clinical Answers <August 2019>
[EBM Reviews - Cochrane Central Register of Controlled Trials <September 2019>](#)
EBM Reviews - Cochrane Methodology Register <3rd Quarter 2012>
EBM Reviews - Health Technology Assessment <4th Quarter 2016>
EBM Reviews - NHS Economic Evaluation Database <1st Quarter 2016>
[Embase <1974 to 2019 October 18>](#)
[Ovid MEDLINE\(R\) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily <1946 to October 18, 2019>](#)

- 23 remove duplicates from 22
 EBM Reviews - Cochrane Database of Systematic Reviews <2005 to October 16, 2019>
 EBM Reviews - ACP Journal Club <1991 to September 2019>
 EBM Reviews - Database of Abstracts of Reviews of Effects <1st Quarter 2016>
 EBM Reviews - Cochrane Clinical Answers <August 2019>
[EBM Reviews - Cochrane Central Register of Controlled Trials <September 2019>](#)
 EBM Reviews - Cochrane Methodology Register <3rd Quarter 2012>
 EBM Reviews - Health Technology Assessment <4th Quarter 2016>
 EBM Reviews - NHS Economic Evaluation Database <1st Quarter 2016>
[Embase <1974 to 2019 October 18>](#)
[Ovid MEDLINE\(R\) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily <1946 to October 18, 2019>](#)
- 24 from 23 keep 1-74
- 25 from 23 keep 75-869
- 26 from 23 keep 870-1486

Timing of CPR cycles (2 min vs other) (BLS 346: SysRev)

Pubmed

Updated 29 Aug 2020 Last 1 year = 52 results

(“CPR cycle”[TIAB] OR “CPR cycles”[TIAB] OR “CPR sequences”[TIAB] OR “CPR sequence”[TIAB] OR “cycle duration”[TIAB] OR “loop duration”[TIAB] OR “loop durations”[TIAB] OR “Pulse”[Mesh] OR “pulse check”[TIAB] OR “pulse checks”[TIAB] OR “pulse checking”[TIAB] OR “pulse assessment”[TIAB] OR “heart rate”[Mesh] OR “heart rhythm”[TIAB] OR “cardiac rhythm”[TIAB] OR “rhythm check”[TIAB] OR “rhythm analysis”[TIAB] OR “analysis of rhythm”[TIAB] OR “rhythm assessment”[TIAB] OR “rhythm assessments”[TIAB] OR “compression interruption”[TIAB] OR “compression interruptions”[TIAB] OR “compression delay”[TIAB] OR “compression pause”[TIAB] OR “compression pauses”[TIAB] OR “No flow time”[TIAB] OR “Hands off time”[TIAB]) AND (minute*[TIAB] OR min[TIAB] OR “1 min”[TIAB] OR “1-min”[TIAB] OR “1min”[TIAB] OR “2 minute”[TIAB] OR “2 minutes”[TIAB] OR “two minute”[TIAB] OR “two minutes”[TIAB] OR “2-minute”[TIAB] OR “2-minutes”[TIAB] OR “two-minute”[TIAB] OR “2 min”[TIAB] OR “2-min”[TIAB] OR “2min”[TIAB] OR “3 min”[TIAB] OR “3-min”[TIAB] OR “3min”[TIAB] OR “4 min”[TIAB] OR “4-min”[TIAB] OR “4min”[TIAB] OR “5 min”[TIAB] OR “5-min”[TIAB] OR “5min”[TIAB] OR timing[TI] OR “Time Factors”[Mesh] OR resum*[TIAB] OR length[TIAB] OR last*[TIAB] OR seconds[TIAB] OR paus*[TIAB] OR delay*[TIAB] OR interval*[TIAB]) AND (“Resuscitation”[Mesh] OR resuscitat*[TIAB] OR “cardiopulmonary resuscitation”[Mesh] OR “cardiopulmonary resuscitation”[TIAB] OR CPR[TIAB] OR “heart massage”[Mesh] OR “heart massage”[TIAB] OR “chest compression”[TIAB] OR “chest compressions”[TIAB] OR “cardiac massage”[TIAB] OR “cardiac compression”[TIAB] OR “cardiac compressions”[TIAB] OR “thoracic compression”[TIAB] OR “thoracic compressions”[TIAB]) AND (“Out-of-Hospital Cardiac Arrest”[Mesh] OR “Out of Hospital Cardiac Arrest”[TIAB] OR “Out-of-Hospital Cardiac Arrest”[TIAB] OR “Out of Hospital Cardiac Arrests”[TIAB] OR “Out-of-Hospital Cardiac Arrests”[TIAB] OR “Heart Arrest”[Mesh] OR “heart arrest”[TIAB] OR “heart arrests”[TIAB] OR “asystole”[TIAB] OR “pulseless electrical activity”[TIAB] OR “cardiac arrest”[TIAB] OR “cardiac arrests”[TIAB] OR “cardiovascular arrest”[TIAB] OR “cardiovascular arrests”[TIAB] OR “cardiopulmonary arrest”[TIAB] OR “cardiopulmonary arrests”[TIAB]

OR "cardio-pulmonary arrest"[TIAB] OR "cardio-pulmonary arrests"[TIAB] OR "Ventricular Fibrillation"[Mesh] OR "Ventricular Fibrillation"[TIAB] OR "Tachycardia, Ventricular"[Mesh]) NOT (animal[mesh] NOT humans[mesh]) NOT ("letter"[Publication Type] OR "comment"[Publication Type] OR "editorial"[Publication Type] or Case Reports[Publication Type])

Check for circulation during BLS (BLS 348: EvUpdate)

Pubmed

Updated 29 Aug 2020 Last 1 year = results

(((((Heart Arrest[MeSH Terms]) OR (Ventricular Fibrillation[MeSH Terms]) OR (Cardiopulmonary Resuscitation[MeSH Terms]) OR (Heart Massage[MeSH Terms]) OR (heart arrest[Title/Abstract]) OR (cardiac arrest[Title/Abstract]) OR (asystole[Title/Abstract]) OR (ventricular fibrillation[Title/Abstract]) OR (cardiopulmonary arrest[Title/Abstract]) OR (cardiovascular arrest[Title/Abstract]) OR (resuscitation[Title/Abstract]) OR (CPR[Title/Abstract]) OR (heart massage[Title/Abstract]) OR (cardiac massage[Title/Abstract]) OR (chest compression*[Title/Abstract]) OR (cardiac compression*[Title/Abstract]) OR (Basic Life Support[Title/Abstract]) OR (BLS[Title/Abstract]))) AND and AND ((Coronary Circulation[MeSH Terms]) OR (Pulse[MeSH Terms]) OR (Heart Rate[MeSH Terms]) OR (circulation[Title/Abstract]) OR (pulse[Title/Abstract]) OR (heart rate[Title/Abstract]) OR (rhythm[Title/Abstract])) AND and AND ((interrupt*[Title/Abstract]) OR (check*[Title/Abstract]) OR (pause*[Title/Abstract]))) NOT (animals[mh] NOT humans[mh])) NOT ("letter"[pt] OR "comment"[pt] OR "editorial"[pt] OR Case Reports[ptyp])) AND ("2014"[Date - Publication] : "3000"[Date - Publication])

Revised and searched:

Updated 29 Aug 2020 Last 1 year = 47 results

(((((Heart Arrest[MeSH Terms]) OR (Ventricular Fibrillation[MeSH Terms]) OR (Cardiopulmonary Resuscitation[MeSH Terms]) OR (Heart Massage[MeSH Terms]) OR (heart arrest[Title/Abstract]) OR (cardiac arrest[Title/Abstract]) OR (asystole[Title/Abstract]) OR (ventricular fibrillation[Title/Abstract]) OR (cardiopulmonary arrest[Title/Abstract]) OR (cardiovascular arrest[Title/Abstract]) OR (resuscitation[Title/Abstract]) OR (CPR[Title/Abstract]) OR (heart massage[Title/Abstract]) OR (cardiac massage[Title/Abstract]) OR (chest compression*[Title/Abstract]) OR (cardiac compression*[Title/Abstract]) OR (Basic Life Support[Title/Abstract]) OR (BLS[Title/Abstract]))) AND ((Coronary Circulation[MeSH Terms]) OR (Pulse[MeSH Terms]) OR (Heart Rate[MeSH Terms]) OR (circulation[Title/Abstract]) OR (pulse[Title/Abstract]) OR (heart rate[Title/Abstract]) OR (rhythm[Title/Abstract])) AND ((interrupt*[Title/Abstract]) OR (check*[Title/Abstract]) OR (pause*[Title/Abstract]))) NOT (animals[mh] NOT humans[mh])) NOT ("letter"[pt] OR "comment"[pt] OR "editorial"[pt] OR Case Reports[ptyp]))

Components of High-Quality CPR

Compression-ventilation ratio (BLS 362: SysRev)

See ICOR SR above: Effectiveness of different compression-to-ventilation methods for cardiopulmonary resuscitation: A systematic review

Rhythm check timing (BLS 345: SysRev)

Updated 29 Aug 2020 Last 1 year = 13 results

("Pulse"[Mesh] OR "heart rate"[Mesh] OR "rhythm check"[TIAB] OR "heart rhythm"[TIAB] OR "cardiac rhythm"[TIAB] OR "pulse check"[TIAB] OR "pulse checks"[TIAB] OR "pulse checking"[TIAB] OR "pulse assessment"[TIAB] OR "rhythm analysis"[TIAB] OR "Monitoring, Physiologic"[Mesh] OR "pulse palpation"[TIAB]) AND (early[TIAB] OR earlie*[TIAB] OR late[TIAB] OR later[TIAB] OR resum*[TIAB] OR length[TIAB] OR minute*[TIAB] OR second*[TIAB] OR time[TIAB] OR timing[TIAB] OR "Time Factors"[Mesh] OR paus*[TIAB] OR delay*[TIAB]) AND ("Out-of-Hospital Cardiac Arrest"[Mesh] OR "Out of Hospital Cardiac Arrest"[TIAB] OR "Out-of-Hospital Cardiac Arrest"[TIAB] OR "Heart Arrest"[Mesh] OR "cardiac arrest"[TIAB] OR "cardiac arrests"[TIAB] OR "cardiovascular arrest"[TIAB] OR "cardiovascular arrests"[TIAB] OR "heart arrest"[TIAB] OR "heart arrests"[TIAB] OR "asystole"[TIAB] OR "pulseless electrical activity"[TIAB] OR "cardiopulmonary arrest"[TIAB] OR "cardiopulmonary arrests"[TIAB] OR "Heart Failure"[Mesh] OR "heart failure"[TIAB] OR "Myocardial Infarction"[Mesh] OR "myocardial infarction"[TIAB] OR "myocardial infarctions"[TIAB] OR "AMI"[TIAB] OR "Ventricular Fibrillation"[Mesh]) AND ((("Resuscitation"[Mesh] OR resuscitat*[TIAB] OR "Advanced Cardiac Life Support"[Mesh] OR "Advanced Cardiac Life Support"[TIAB] OR "ACLS"[TIAB] OR "return of spontaneous circulation"[TIAB] OR ROSC[TIAB] OR "cardiopulmonary resuscitation"[Mesh] OR "cardiopulmonary resuscitation"[TIAB] OR CPR[TIAB] OR "Electric Countershock"[Mesh] OR Countershock*[TIAB] OR Cardioversion*[TIAB] OR Electroversion*[TIAB] OR "Defibrillators"[Mesh] OR defibrillator*[TIAB] defibrillation*[TIAB] OR "automatic external defibrillator"[TIAB] OR "automatic external defibrillators"[TIAB] OR "automated external defibrillator"[TIAB] OR "automated external defibrillators"[TIAB] OR AED*[TIAB] OR "automatic external defibrillation"[TIAB] OR "chest compression"[TIAB] OR "chest compressions"[TIAB] OR "heart massage"[TIAB] OR "cardiac massage"[TIAB] OR "cardiac compression"[TIAB] OR "cardiac compressions"[TIAB] OR "thoracic compression"[TIAB] OR "thoracic compressions"[TIAB])) AND ("methods" [Subheading] OR method*[TIAB] OR technique*[TIAB])) NOT ((animals[mesh] NOT humans[mesh])) NOT ("letter"[Publication Type] OR "comment"[Publication Type] OR "editorial"[Publication Type] or Case Reports[Publication Type]))

Feedback for CPR quality (BLS 361: SysRev)

Pubmed

Updated 29 Aug 2020 Last 1 year = 98 results

((((((((heart arrest[MH] OR cardiopulmonary resuscitation[MH] OR "cardiac arrest"[TIAB] OR CPR[TIAB] OR "cardiopulmonary resuscitation"[TIAB] OR "advanced cardiac life support"[TIAB] OR "basic life support"[TIAB] OR "heart arrest"[TIAB] OR "ventricular fibrillation"[TIAB] OR ACLS[TIAB] OR Ventricular Fibrillation[MH])) AND ("Feedback"[Mesh] OR feed-back[TW] OR "feed back"[TW] OR feedback[TW] OR prompt*[TI] OR CPR-sensing[TW] OR Q-CPR[TW] OR CPR-plus[TW] OR CPREzy[TW] OR CPR-Ezy[TW] OR sensor*[TI] OR metronome*[TW] OR rate-directed[TW] OR depth-directed[TW] OR guidance[TI] OR real-time[TI] OR audio-visual[TI] OR audio[TI] OR visual[TI]))) NOT (((("animals"[MH] NOT (animals[MH] AND "humans"[MH])))))) NOT (((("letter"[pt] OR "comment"[pt] OR "editorial"[pt]))))) AND (English[lang])))

Chest compression rate, depth and chest wall recoil (BLS 366, BLS 367, BLS 343: ScopRev)

See ILCOR SR

Hand position during compressions (BLS 357: SysRev)

PubMed S Avis

Updated 29 Aug 2020 Last 1 year = 21 results

("hand"[Mesh] OR "Hand placement"[TIAB] OR "hand position"[TIAB] OR "hand positioning"[TIAB] OR "finger placement"[TIAB] OR "finger position"[TIAB] OR "finger positioning"[TIAB] OR "alternative position" OR "alternative compression") AND ("Resuscitation"[Mesh] OR resuscitat*[TIAB] OR "cardiopulmonary resuscitation"[Mesh] OR "heart massage"[Mesh] OR "cardiopulmonary resuscitation"[TIAB] OR CPR[TIAB] OR "chest compression"[TIAB] OR "chest compressions"[TIAB] OR "heart massage"[TIAB] OR "cardiac massage"[TIAB] OR "cardiac compression"[TIAB] OR "cardiac compressions"[TIAB] OR "thoracic compression"[TIAB] OR "thoracic compressions"[TIAB]) NOT (animal[Mesh] NOT humans[Mesh]) NOT ("News" [Publication Type] OR "letter"[Publication Type] OR "comment"[Publication Type] OR "editorial"[Publication Type] or Case Reports[Publication Type]))

Alternative compression techniques (cough, precordial thump, fist pacing) (BLS 374: SysRev)

Ovid MEDLINE(R) <1946 to September Week 3 2019>

- | | | |
|----|--|---------|
| 1 | exp Cardiopulmonary Resuscitation/exp Cardiopulmonary Resuscitation/ | 16975 |
| 2 | cardiopulmonary resuscitation.ab,ti. | |
| | 11835 | |
| 3 | CPR.ab,ti. | 10056 |
| 4 | exp Heart Massage/ | 3068 |
| 5 | "chest compression*".ab,ti. | 3082 |
| 6 | "resus*".ab,ti. | 57800 |
| 7 | 1 or 2 or 3 or 4 or 5 or 6 | 68409 |
| 8 | cough CPR.mp | 15 |
| 9 | cicpr.mp | 1 |
| 10 | exp Cough/ | 15191 |
| 11 | "cough*".ab,ti. | 41353 |
| 12 | 10 or 11 | 45373 |
| 13 | 7 and 12 | 171 |
| 14 | "precordial thump*".ab,ti. | 64 |
| 15 | (chest and thump*).ab,ti. | 95 |
| 16 | fist pacing.ab,ti. | 5 |
| 17 | percussion pacing.ab,ti. | 9 |
| 18 | (percussion and (pace or pacing or paced)).ab,ti. | 11 |
| 19 | (precordial and thump*).ab,ti. | 68 |
| 20 | 8 or 9 or 13 or 14 or 15 or 16 or 17 or 18 or 19 | 328 |
| 21 | manual.ab,ti. | 75363 |
| 22 | 7 and 21 | 972 |
| 23 | 20 or 22 | 1283 |
| 24 | exp animals/ not humans.sh. | 4617145 |
| 25 | 23 not 24 | 1084 |

CPR during transport (BLS 1509: ScopRev)

- | | | |
|---|---|-------|
| 1 | cardiac arrest.mp. or exp Heart Arrest/ | 55761 |
| 2 | myocardial arrest.mp. | 17 |

3 exp Heart Arrest/ or cardiac standstill.mp. 46361
4 out of hospital.mp. 9104
5 out-of-hospital.mp. 9104
6 prehospital.mp. 10336
7 pre-hospital.mp. 3505
8 ambulance.mp. or exp Ambulances/ 13046
9 exp Emergency Medical Services/ or EMS.mp. 139044
10 cardiopulmonary resuscitation.mp. or exp Cardiopulmonary Resuscitation/21734
11 CPR.mp. or exp Cardiopulmonary Resuscitation/ 21935
12 exp Resuscitation/ or exp Cardiopulmonary Resuscitation/ or chest compressions.mp.
92033
13 exp Cardiopulmonary Resuscitation/ or exp Resuscitation/ or basic life support.mp.
92291
14 exp Resuscitation/ or advanced life support.mp. or exp Cardiopulmonary
Resuscitation/ 92813
15 exp Cardiopulmonary Resuscitation/ or compression depth.mp. 17231
16 exp Cardiopulmonary Resuscitation/ or compression rate.mp. 17426
17 exp Cardiopulmonary Resuscitation/ or compression fraction.mp. 17188
18 recoil.mp. 2792
19 Heart Massage/ or leaning.mp. 4126
20 exp Cardiopulmonary Resuscitation/ or duty cycle.mp. 19202
21 exp Cardiopulmonary Resuscitation/ or perishock pause.mp. 17185
22 duration.mp. 492410
23 timing.mp. 107799
24 transportation.mp. or exp TRANSPORTATION/ 91468
25 exp Cardiopulmonary Resuscitation/ or exp Heart Arrest/ or return of spontaneous
circulation.mp. or exp Resuscitation/ 122996
26 exp Cardiopulmonary Resuscitation/ or exp Resuscitation/ or exp Heart Arrest/ or
ROSC.mp. 123103
27 1 or 2 or 3 55876
28 4 or 5 or 6 or 7 or 8 or 9 150333
29 10 or 11 or 12 or 13 or 14 or 25 or 26128971
30 15 or 16 or 17 or 18 or 19 or 20 or 2125529
31 22 or 23 590116
32 27 and 28 and 29 and 30 5003
33 27 and 28 and 29 and 31 624
34 24 and 27 and 28 and 29 673
35 32 or 33 or 34 5557

Automated External Defibrillation

Public access AED programs (BLS 347: SysRev)

2014: PubMed

("Out-of-Hospital Cardiac Arrest"[Mesh] OR "Out of Hospital Cardiac Arrest" [TIAB] OR
"Out-of-Hospital Cardiac Arrest" [TIAB] OR "Out of Hospital Cardiac Arrests" [TIAB] OR
"Out-of-Hospital Cardiac Arrests" [TIAB] OR (("out-of-hospital"[TIAB] OR "out
ofhospital"[TIAB] OR "outside of hospital"[TIAB]) AND cardiac[TIAB] AND
arrest*[TIAB]) OR "Heart Arrest"[Mesh:NoExp] OR "heart arrest"[TIAB] OR "heart
arrests"[TIAB] OR "cardiac arrest"[TIAB] OR "cardiac arrests"[TIAB] OR "cardiovascular

arrest"[TIAB] OR "cardiovascular arrests"[TIAB] OR "asystole"[TIAB] OR "Heart Failure"[Mesh] OR "heart failure"[TIAB] OR "cardiopulmonary arrest"[TIAB] OR "cardiopulmonary arrests"[TIAB] OR "cardio-pulmonary arrest"[TIAB] OR "cardio-pulmonary arrests"[TIAB] OR "Ventricular Fibrillation"[Mesh] OR "Ventricular Fibrillation"[TIAB] OR "Tachycardia, Ventricular"[Mesh] OR "pulseless ventricular tachycardia"[TIAB] OR (Pulseless[TIAB] AND (V-tach[TIAB] OR VT[TIAB])) OR "Cardiopulmonary Resuscitation"[Mesh] OR "cardiopulmonary resuscitation"[TIAB] OR CPR[TIAB] OR "Resuscitation"[Mesh] OR resuscitat*[TIAB]) AND ("early defibrillation"[TIAB] OR "automatic external defibrillator"[TIAB] OR "automatic external defibrillators"[TIAB] OR "automated external defibrillator"[TIAB] OR "automated external defibrillators"[TIAB] OR AED*[TIAB] OR "automatic external defibrillation"[TIAB] OR "public access defibrillation program"[TIAB] OR "public access defibrillation programs"[TIAB] OR ((("Electric Countershock"[Mesh] OR "electric countershock"[TIAB] OR countershock*[TIAB] OR electroversion*[TIAB] OR cardioversion*[TIAB] OR "Defibrillators"[Mesh] OR defibrillator*[TIAB] OR defibrillation*[TIAB]) AND (public[TIAB] OR bystander*[TIAB] OR "first responder"[TIAB] OR "first responders"[TIAB] OR "firstresponder"[TIAB] OR "first-responders"[TIAB] OR Layperson*[TIAB] OR "lay people"[TIAB] OR "lay rescuer"[TIAB] OR "lay rescuers"[TIAB] OR witness*[TIAB] OR Firefighter*[TIAB] OR "fire fighter" OR "fire fighters" OR "Firefighters"[Mesh] OR "Police"[Mesh] OR Police[TIAB] OR "non-healthcare professionals"[TIAB] OR "non-healthcare professional"[TIAB] OR "Emergency Medical Technicians"[Mesh] OR "emergency medic"[TIAB] OR "emergency medical"[TIAB] OR "EMS"[TIAB] OR "EMT"[TIAB] OR paramedic*[TIAB]))) NOT (animals[Mesh] NOT humans[Mesh]) NOT ("letter"[Publication Type] OR "comment"[Publication Type] OR "editorial"[Publication Type] or Case Reports[Publication Type] OR "case series"[TIAB])

Searched:

Updated 29 Aug 2020 Last 1 year = 170 results

("Out-of-Hospital Cardiac Arrest"[Mesh] OR "Out of Hospital Cardiac Arrest" [TIAB] OR "Out-of-Hospital Cardiac Arrest" [TIAB] OR "Out of Hospital Cardiac Arrests" [TIAB] OR "Out-of-Hospital Cardiac Arrests" [TIAB] OR (("out-of-hospital"[TIAB] OR "out of hospital"[TIAB] OR "outside of hospital"[TIAB]) AND cardiac[TIAB] AND arrest*[TIAB]) OR "Heart Arrest"[Mesh:NoExp] OR "heart arrest"[TIAB] OR "heart arrests"[TIAB] OR "cardiac arrest"[TIAB] OR "cardiac arrests"[TIAB] OR "cardiovascular arrest"[TIAB] OR "cardiovascular arrests"[TIAB] OR "asystole"[TIAB] OR "Heart Failure"[Mesh] OR "heart failure"[TIAB] OR "cardiopulmonary arrest"[TIAB] OR "cardiopulmonary arrests"[TIAB] OR "cardio-pulmonary arrest"[TIAB] OR "cardio-pulmonary arrests"[TIAB] OR "Ventricular Fibrillation"[Mesh] OR "Ventricular Fibrillation"[TIAB] OR "Tachycardia, Ventricular"[Mesh] OR "pulseless ventricular tachycardia"[TIAB] OR (Pulseless[TIAB] AND (V-tach[TIAB] OR VT[TIAB])) OR "Cardiopulmonary Resuscitation"[Mesh] OR "cardiopulmonary resuscitation"[TIAB] OR CPR[TIAB] OR "Resuscitation"[Mesh] OR resuscitat*[TIAB]) AND ("early defibrillation"[TIAB] OR "automatic external defibrillator"[TIAB] OR "automatic external defibrillators"[TIAB] OR "automated external defibrillator"[TIAB] OR "automated external defibrillators"[TIAB] OR AED[TIAB] OR AEDs[TIAB] OR "automatic external defibrillation"[TIAB] OR "public access defibrillation program"[TIAB] OR "public access defibrillation programs"[TIAB] OR ((("Electric Countershock"[Mesh] OR "electric countershock"[TIAB] OR countershock*[TIAB] OR electroversion*[TIAB] OR cardioversion*[TIAB] OR "Defibrillators"[Mesh] OR defibrillator*[TIAB] OR defibrillation*[TIAB]) AND (public[TIAB] OR bystander*[TIAB] OR "first responder"[TIAB] OR "first responders"[TIAB] OR "firstresponder"[TIAB] OR "first-responders"[TIAB] OR Layperson*[TIAB] OR "lay people"[TIAB] OR "lay

rescuer"[TIAB] OR "lay rescuers"[TIAB] OR witness*[TIAB] OR Firefighter*[TIAB] OR "fire fighter" OR "fire fighters" OR "Firefighters"[Mesh] OR "Police"[Mesh] OR Police[TIAB] OR "non-healthcare professionals"[TIAB] OR "non-healthcare professional"[TIAB] OR "Emergency Medical Technicians"[Mesh] OR "emergency medic"[TIAB] OR "emergency medical"[TIAB] OR "EMS"[TIAB] OR "EMT"[TIAB] OR paramedic*[TIAB])))) NOT (animals[Mesh] NOT humans[Mesh]) NOT ("letter"[Publication Type] OR "comment"[Publication Type] OR "editorial"[Publication Type] or Case Reports[Publication Type] OR "case series"[TIAB])

Analysis of rhythm during chest compressions (BLS 373: SysRev)

Pubmed 2015

Updated 29 Aug 2020 Last 1 year = 85 results

((((((((((("continuous compressions"[TIAB] OR "Continuous chest compression"[TIAB] OR "Continuous chest-compressions"[TIAB] OR "uninterrupted compressions"[TIAB] OR "uninterrupted chest compression"[TIAB] OR "uninterrupted chest-compressions"[TIAB] OR "ongoing compressions"[TIAB] OR "ongoing chest compression"[TIAB] OR "ongoing chest-compressions"[TIAB] OR "instantaneous chest compression"[TIAB] OR "instantaneous chest compression"[TIAB]))) OR (((("Heart Arrest"[Mesh] OR "cardiac arrest"[TIAB] OR "cardiovascular arrest"[TIAB] OR "heart arrest"[TIAB] OR "asystole"[TIAB] OR "pulseless electrical activity"[TIAB] OR "Ventricular Fibrillation"[Mesh:noexp] OR "cardiopulmonary arrest"[TIAB])) AND ("cardiopulmonary resuscitation"[TIAB] OR "Advanced Cardiac Life Support"[TIAB] OR "ACLS"[TIAB] OR "cardiopulmonary resuscitation"[Mesh] OR "advanced cardiac life support"[Mesh] OR "Heart Massage"[Mesh] OR cardiac massage[ti] OR CPR[ti] OR "basic life support"[ti] OR chest compression[TIAB] OR chest compressions[TIAB])))) AND ((("Electrocardiography/instrumentation"[Mesh:NoExp] OR "Electrocardiography/methods"[Mesh:NoExp] OR "Artifacts"[Mesh] OR "Continuous ECG monitoring"[TIAB] OR "ECG analysis"[TIAB] OR "ECG rhythm analysis"[TIAB] OR "Electrocardiogram analysis"[TIAB] OR "rhythm analyses"[TIAB] OR "rhythm analysis"[TIAB] OR "rhythm assessment"[TIAB] OR "rhythm check"[TIAB] OR "rhythm evaluation"[TIAB] OR "rhythm monitoring"[TIAB] OR "shock advisory system"[TIAB] OR "nonshockable rhythm"[TIAB] OR "non-shockable rhythms"[TIAB] OR "non-shockable rhythm"[TIAB] OR "shockable rhythm"[TIAB] OR "nonshockable rhythms"[TIAB] OR "shockable rhythms"[TIAB]))) OR ((("rhythm analysis"[TIAB] AND algorithm[TIAB])))) NOT (((((animals[mh] NOT humans[mh]) NOT ("letter"[pt] OR "comment"[pt] OR "editorial"[pt] or Case Reports[ptyp]))))

CPR prior to defibrillation (BLS 363: SysRev)

Pubmed

Updated 29 Aug 2020 Last 1 year = 33 results

((((((((((("Ventricular Fibrillation"[Mesh] OR "Ventricular Fibrillation"[TW] OR "pulseless VT"[TW] OR "pulseless ventricular tachycardia"[TW] OR "Electrocardiography"[Mesh:NoExp]) AND ((("Cardiopulmonary Resuscitation"[Mesh] OR "chest compressions"[TW] OR "chest compression"[TW] OR "thorax compression"[TW] OR "Heart Massage"[Mesh] OR "cardiopulmonary resuscitation"[TW] OR "cardio-pulmonary resuscitation"[TW] OR CPR[TW])) AND ("Electric Countershock"[Mesh] OR "Defibrillators"[Mesh:NoExp] OR "electric countershock"[TW] OR "cardiac electroversion"[TW] OR defibrillator*[TW] OR defibrillation*[TW])))) NOT ("Defibrillators, Implantable"[Mesh])) NOT "Atrial Fibrillation"[Mesh])))) AND ((("Time

Factors"[Mesh] OR "Emergencies"[Mesh] OR "Emergency Medical Services"[Mesh>NoExp] OR "Emergency Medical Technicians"[Mesh] OR "Treatment Outcome"[Mesh] OR "Fatal Outcome"[Mesh] OR "Outcome Assessment (Health Care)"[Mesh] OR "Outcome and Process Assessment (Health Care)"[Mesh] OR "Survival"[Mesh] OR "Mortality"[Mesh] OR "mortality"[Subheading] OR "Disease-Free Survival"[Mesh] OR "Survival Analysis"[Mesh] OR "Survival Rate"[Mesh] OR "Outcome"[All Fields] OR "outcomes"[All Fields] OR "Survivors"[Mesh] OR "return of spontaneous circulation"[TIAB] OR "ROSC"[TIAB])))) NOT (((animals[mh] NOT humans[mh]) NOT ("letter"[pt] OR "comment"[pt] OR "editorial"[pt] or Case Reports[ptyp]))))

Paddle size and placement for defibrillation (ALS-E-030A: ScopeRev)

Searches

1 Electric Countershock/

2 Defibrillators/

3 (defibrillat* or AED or electroversion? or electro-version? or cardioversion? or cardio-version? or electric countershock? or electric counter-shock?).tw,kf.

4 (cardiac adj2 stimulator?).tw,kf.

5 or/1-4 [DEFIBRILLATORS]

6 Cardiography, Impedance/ or Electric Impedance/ or Electric Conductivity/

7 ((transthoracic adj2 (impedance or resistance)) or TTI or TTR).tw,kf.

8 (electric* adj2 (conductiv* or impedance)).tw,kf.

9 ((orientation? or position* or placement or placed or placing or situated or shape? or size? or rectangl* or square or anterior* or posterior* or anteroposterior* or antero-posterior* or lateral* or lateroposterior* or latero-posterior* or longitudinal* or transverse*) adj2 (pad? or paddle? or electrode? or defibrillat* or AED)).tw,kf.

10 or/6-9 [IMPEDANCE]

11 5 and 10

12 exp Animals/ not (exp Animals/ and Humans/)

13 11 not 12 [ANIMAL-ONLY REMOVED]

14 exp Child/ not (exp Adult/ or Adolescent/)

15 exp Infant/ not (exp Adult/ or Adolescent/)

16 13 not (14 or 15) [CHILD- AND INFANT-ONLY REMOVED]

17 (comment or editorial or news or newspaper article).pt.

18 (letter not (letter and randomized controlled trial)).pt.

19 16 not (17 or 18) [OPINION PIECES REMOVED]

20 19 and (2009* or 2010* or 2011* or 2012* or 2013* or 2014* or 2015* or 2016* or 2017* or 2018* or 2019*).dt.

21 20 use ppez

22 cardioversion/

23 defibrillator/ or exp external defibrillator/

24 (defibrillat* or AED or electroversion? or electro-version? or cardioversion? or cardio-version? or electric countershock? or electric counter-shock?).tw,kw.

25 (cardiac adj2 stimulator?).tw,kw.

26 or/22-25 [DEFIBRILLATORS]

27 impedance cardiography/ or impedance/ or electric conductivity/ or electric resistance/

28 ((transthoracic adj2 (impedance or resistance)) or TTI or TTR).tw,kw.

29 (electric* adj2 (conductiv* or impedance)).tw,kw.

30 ((orientation? or position* or placement or placed or placing or situated or shape? or size? or rectangl* or square or anterior* or posterior* or anteroposterior* or antero-posterior* or

lateral* or lateroposterior* or latero-posterior* or longitudinal* or transverse*) adj2 (pad? or paddle? or electrode? or defibrillat* or AED)).tw,kw.

31 or/27-30 [IMPEDANCE]

32 26 and 31

33 exp animal experimentation/ or exp animal model/ or exp animal experiment/ or nonhuman/ or exp vertebrate/

34 exp human/ or exp human experimentation/ or exp human experiment/

35 32 not (33 not 34) [ANIMAL-ONLY REMOVED]

36 exp adolescent/ not (exp adult/ and exp adolescent/)

37 exp child/ not (exp adult/ and exp child/)

38 fetus/ not (exp adult/ and fetus/)

39 35 not (36 or 37 or 38) [UNDER 18 REMOVED]

40 editorial.pt.

41 letter.pt. not (randomized controlled trial/ and letter.pt.)

42 39 not (40 or 41) [OPINION PIECES REMOVED]

43 conference abstract.pt.

44 42 not 43 [CONFERENCE ABSTRACTS REMOVED]

45 44 and (2009* or 2010* or 2011* or 2012* or 2013* or 2014* or 2015* or 2016* or 2017* or 2018* or 2019*).dc.

46 45 use oemezd

47 Electric Countershock/

48 Defibrillators/

49 (defibrillat* or AED or electroversion? or electro-version? or cardioversion? or cardio-version? or electric countershock? or electric counter-shock?).tw,kw.

50 (cardiac adj2 stimulator?).tw,kw.

51 or/47-50 [DEFIBRILLATORS]

52 Cardiography, Impedance/ or Electric Impedance/ or Electric Conductivity/

53 ((transthoracic adj2 (impedance or resistance)) or TTI or TTR).tw,kw.

54 (electric* adj2 (conductiv* or impedance)).tw,kw.

55 ((orientation? or position* or placement or placed or placing or situated or shape? or size? or rectangl* or square or anterior* or posterior* or anteroposterior* or antero-posterior* or lateral* or lateroposterior* or latero-posterior* or longitudinal* or transverse*) adj2 (pad? or paddle? or electrode? or defibrillat* or AED)).tw,kw.

56 or/52-55 [IMPEDANCE]

57 51 and 56

58 exp Child/ not (exp Adult/ or Adolescent/)

59 exp Infant/ not (exp Adult/ or Adolescent/)

60 57 not (58 or 59) [CHILD- AND INFANT-ONLY REMOVED]

61 conference abstract.pt.

62 60 not 61 [CONFERENCE ABSTRACTS REMOVED]

63 62 and (2009* or 2010* or 2011* or 2012* or 2013* or 2014* or 2015* or 2016* or 2017* or 2018* or 2019*).up,pd,dp,dr.

64 63 use coch [COCHRANE DATABASE OF SYSTEMATIC REVIEWS]

65 63 use ctr [COCHRANE CENTRAL]

66 63 use acp [ACP JOURNAL CLUB]

67 63 use dare [DATABASE OF ABSTRACTS OF REVIEWS OF EFFECTS]

68 63 use clcmr [COCHRANE METHODOLOGY REGISTER DATABASE]

69 63 use clhta [HEALTH TECHNOLOGY ASSESSMENT DATABASE]

70 63 use cleed [NATIONAL HEALTH SERVICE ECONOMIC EVALUATION DATABASE]

71 21 or 46 or 64 or 65 or 66 or 67 or 68 or 69 or 70 [ALL DATABASES - NO DUPLICATES REMOVED]
72 remove duplicates from 71 [TOTAL UNIQUE RECORDS]
73 72 use ppez [MEDLINE UNIQUE RECORDS]
74 72 use oemezd [EMBASE UNIQUE RECORDS]
75 72 use coch [COCHRANE DATABASE OF SYSTEMATIC REVIEWS UNIQUE RECORDS]
76 72 use cctr [CENTRAL UNIQUE RECORDS]
77 72 use acp [ACP JOURNAL CLUB UNIQUE RECORDS]
78 72 use dare [DATABASE OF ABSTRACTS OF REVIEWS OF EFFECTS UNIQUE RECORDS]
79 72 use clcmr [COCHRANE METHODOLOGY REGISTER DATABASE]
80 72 use clhta [HEALTH TECHNOLOGY ASSESSMENT DATABASE]
81 72 use cleed [NATIONAL HEALTH SERVICE ECONOMIC EVALUATION DATABASE]

Special Circumstances

Foreign body airway obstruction (BLS 368: ~~eeBLS 811~~: SysRev)

Database: Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Daily and Versions(R): 1946 to current

- 1 exp Airway Obstruction/th [Therapy]
- 2 exp Foreign Bodies/
- 3 1 and 2
- 4 (Foreign body adj3 air* adj3 obstruct*).tw,kf.
- 5 (Foreign bodies adj3 air* adj3 obstruct*).tw,kf.
- 6 (Foreign object* adj3 air* adj3 obstruct*).tw,kf.
- 7 (Foreign body adj3 air* adj3 remov*).tw,kf.
- 8 (Foreign bodies adj3 air* adj3 remov*).tw,kf.
- 9 (Foreign object* adj3 air* adj3 remov*).tw,kf.
- 10 back slap*.tw,kf.
- 11 back blow*.tw,kf.
- 12 chest thrust*.tw,kf.
- 13 abdominal thrust*.tw,kf.
- 14 (heimlich maneuver or heimlich manoeuvre).tw,kf.
- 15 Heimlich Maneuver/
- 16 manual suction device*.tw,kf.
- 17 de-choker.tw,kf.
- 18 dechoker.tw,kf.
- 19 lifewand.tw,kf.
- 20 lifevac.tw,kf.
- 21 anti-choking.tw,kf.
- 22 table maneuver.tw,kf.
- 23 table manoeuvre.tw,kf.
- 24 finger sweep.mp.
- 25 Magill forcep*.mp.
- 26 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25

- 27 ((airway* or airflow or aspiration* or inhale* or inhalation* or respiratory or asphyxiat*) adj3 (obstruct* or closure or occlusion* or impaction or foreign body or foreign bodies or foreign object* or food or bolus)).tw,kf.
28 (choking or choke).tw,kf.
29 first aid.tw,kf. or first aid/
30 27 or 28
31 29 and 30
32 26 or 31
33 32 not (animals/ not human/)
34 limit 33 to (comment or editorial)
35 33 not 34

Drowning (BLS 856: SysRev)

Gavin Perkins to check: including scoping reviews

Database: Ovid MEDLINE(R) Daily Update <October 29, 2019>, Ovid MEDLINE(R) Epub Ahead of Print and In-Process & Other Non-Indexed Citations <October 29, 2019>

Search Strategy:

- 1 exp Near Drowning/ or exp Drowning/ or drowning.mp. (414)
- 2 drown*.mp. (522)
- 3 exp Immersion/ (2)
- 4 immers*.mp. (8719)
- 5 submer*.mp. (2544)
- 6 ships/ (2)
- 7 (boat or boats).mp. (1656)
- 8 in-water.mp. (23355)
- 9 exp Fresh water/ or exp Seawater/ or exp Saline water/ (219)
- 10 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 (35920)
- 11 exp Resuscitation/ or resuscitat*.mp. (7229)
- 12 cpr.mp. or exp Cardiopulmonary Resuscitation/ (1522)
- 13 exp Extracorporeal Membrane Oxygenation/ or ecmo.mp. (1311)
- 14 aed.mp. (804)
- 15 ARDS.mp. (1535)
- 16 exp Respiratory Distress Syndrome, Adult/ (18)
- 17 intubation.mp. or exp Intubation/ or exp Intubation, Intratracheal/ (5689)
- 18 airway management.mp. or exp Airway Management/ (1400)
- 19 artificial respiration.mp. or exp Respiration, Artificial/ (228)
- 20 (oxygen adj3 (therapy or delivery or additional)).mp. or exp Oxygen Inhalation Therapy/ (2320)
- 21 positive pressure ventilation.mp. or exp Positive-Pressure Respiration/ (544)
- 22 (Peep or positive end expiratory pressure).mp. (686)
- 23 (niv or non-invasive ventilation or non invasive ventilation or noninvasive ventilation).mp. (1141)
- 24 hospital admission.mp. or exp Hospitalization/ (3577)
- 25 Defibrillators/ or defibrillat*.mp. (3167)
- 26 exp patient discharge/ (66)
- 27 ((patient or hospital) adj3 discharg*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] (8047)

28 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or
26 or 27 (33757)
29 10 and 28 (157)

Potential Harm from CPR

Harm from CPR to victims not in arrest (eSysRev) BLS 353

Pubmed

Updated 29 Aug 2020 Last 1 year = 4 results

((("Cardiopulmonary Resuscitation/adverse effects"[Mesh:NoExp]) OR
((("Cardiopulmonary Resuscitation"[Mesh:NoExp] OR "cardiopulmonary
resuscitation"[TIAB] OR "cardio-pulmonary resuscitation"[TIAB] OR CPR[TIAB] OR
"thorax compressions"[TIAB] OR "chest compressions"[TIAB] OR "chest
compression"[TIAB] OR "basic life support"[TIAB] OR "Basic Cardiac Life
Support"[TIAB]))) AND ((("Thoracic Injuries"[Mesh] OR "Wounds and
Injuries"[Mesh:NoExp] OR "Abdominal Injuries"[Mesh] OR "Rupture"[Mesh] OR
"Pneumothorax"[Mesh] OR "Respiratory Aspiration"[Mesh] OR "Pain"[Mesh] OR
Complications[TIAB])))) AND (bystander[TIAB] OR bystanders[TIAB] OR "lay
rescuer"[TIAB] OR "lay rescuers"[TIAB] OR "first responder"[TIAB] OR "first
responders"[TIAB] OR "layperson"[TIAB] OR "lay people"[TIAB] OR "lay
person"[TIAB]))

Harm to rescuers from CPR (eeScopRev) BLS 354

((Rescuer OR "Single rescuer" OR "single-rescuer" OR saviour* OR savior* OR deliverer)
AND ("Heart Arrest"[Mesh] OR "heart arrest*"[TIAB] OR "cardiac arrest*"[TIAB] OR
"cardiovascular arrest*"[TIAB] OR "cardiopulmonary arrest*"[TIAB] OR "cardio-
pulmonary arrest*"[TIAB] OR "Out-of-Hospital Cardiac Arrest*"[Mesh] OR OHCA OR
"Out of Hospital Cardiac Arrest*"[TIAB] OR "Out-of-Hospital Cardiac Arrest*"[TIAB] OR
"Outside-of-Hospital Cardiac Arrest"[TIAB] OR resuscitation [Mesh] OR resuscitation*
[TIAB] OR "cardiopulmonary resuscitation"[Mesh] OR "cardiopulmonary
resuscitation"[TIAB] OR "Cardio-Pulmonary Resuscitation" OR "Cardio Pulmonary
Resuscitation" OR CPR [TIAB] OR "Life Support Care"[Mesh] OR "Basic Cardiac Life
Support" OR "basic life support" OR "Cardiac Life Support" [TIAB] OR "cardiorespiratory
resuscitation"[TIAB] OR "Heart Massage*"[Mesh] OR "heart massage*"[TIAB] OR
"cardiac massage*"[TIAB] OR "chest compression*"[TIAB] OR "cardiac
compression*"[TIAB] OR ventilation OR defibrillation OR "Electric countershock" [MeSH
Terms] OR "Electric Defibrillation" OR "Automated External Defibrillator*" OR AED))
AND (harm OR harms OR danger* OR injur* OR trauma OR damage OR hurt OR "adverse
effects" OR safety OR hazard OR "disease transmission" OR infection [MeSH Terms] OR
infection* OR "patient-to-professional" OR stress OR psychological OR exhaustion OR
fatigue OR collapse OR burnout))

Updated 29 Aug 2020 Last 1 year = 31 results

Actual search:

((((((("rescuer"[All Fields] OR "rescuer s"[All Fields]) OR "rescuers"[All Fields]) OR
"single rescuer"[All Fields]) OR "single rescuer"[All Fields]) OR "saviour*"[All Fields]) OR
"savior*"[All Fields]) OR ("deliverer"[All Fields] OR "deliverers"[All Fields])) AND
((((((((((((((((((("Heart Arrest"[MeSH Terms] OR "heart arrest*"[Title/Abstract])

OR "cardiac arrest*[Title/Abstract]) OR "cardiovascular arrest*[Title/Abstract]) OR "cardiopulmonary arrest*[Title/Abstract]) OR "cardio pulmonary arrest*[Title/Abstract]) OR "out-of-hospital cardiac arrest*[MeSH Terms]) OR "OHCA"[All Fields]) OR "out of hospital cardiac arrest*[Title/Abstract]) OR "out of hospital cardiac arrest*[Title/Abstract]) OR "resuscitation"[MeSH Terms]) OR "resuscitation*[Title/Abstract]) OR "cardiopulmonary resuscitation"[MeSH Terms]) OR "cardiopulmonary resuscitation*[Title/Abstract]) OR "cardio pulmonary resuscitation"[All Fields]) OR "cardio pulmonary resuscitation"[All Fields]) OR "CPR"[Title/Abstract]) OR "Life Support Care"[MeSH Terms]) OR "Basic Cardiac Life Support"[All Fields]) OR "basic life support"[All Fields]) OR "Cardiac Life Support"[Title/Abstract]) OR "cardiorespiratory resuscitation"[Title/Abstract]) OR "heart massage*[MeSH Terms]) OR "heart massage*[Title/Abstract]) OR "cardiac massage*[Title/Abstract]) OR "chest compression*[Title/Abstract]) OR "cardiac compression*[Title/Abstract]) OR (((((((((((("ventilated"[All Fields] OR "ventilates"[All Fields]) OR "ventilating"[All Fields]) OR "ventilation"[MeSH Terms]) OR "ventilation"[All Fields]) OR "ventilate"[All Fields]) OR "ventilations"[All Fields]) OR "ventilator s"[All Fields]) OR "ventilators, mechanical"[MeSH Terms]) OR ("ventilators"[All Fields] AND "mechanical"[All Fields])) OR "mechanical ventilators"[All Fields]) OR "ventilator"[All Fields]) OR "ventilators"[All Fields]) OR "ventillation"[All Fields])) OR (((((((((((("defibrillator"[All Fields] OR "defibrillate"[All Fields]) OR "defibrillated"[All Fields]) OR "defibrillates"[All Fields]) OR "defibrillating"[All Fields]) OR "defibrillations"[All Fields]) OR "defibrillator s"[All Fields]) OR "defibrillators"[MeSH Terms]) OR "defibrillators"[All Fields]) OR "defibrillator"[All Fields]) OR "Electric countershock"[MeSH Terms]) OR ("electric"[All Fields] AND "countershock"[All Fields])) OR "Electric countershock"[All Fields]) OR "defibrillation"[All Fields])) OR "Electric countershock"[MeSH Terms]) OR "Electric Defibrillation"[All Fields]) OR "automated external defibrillator*[All Fields]) OR "AED"[All Fields])) AND (((((((((((((("harm"[All Fields] OR (((("harmed"[All Fields] OR "harmful"[All Fields]) OR "harmfulness"[All Fields]) OR "harming"[All Fields]) OR "harms"[All Fields])) OR "danger*[All Fields]) OR "injur*[All Fields]) OR ((((("injuries"[MeSH Subheading] OR "injuries"[All Fields]) OR "trauma"[All Fields]) OR "wounds and injuries"[MeSH Terms]) OR ("wounds"[All Fields] AND "injuries"[All Fields])) OR "wounds and injuries"[All Fields]) OR "trauma s"[All Fields]) OR "traumas"[All Fields])) OR (((("damage"[All Fields] OR "damaged"[All Fields]) OR "damages"[All Fields]) OR "damaging"[All Fields])) OR "hurt"[All Fields]) OR "adverse effects"[All Fields]) OR ((("safety"[MeSH Terms] OR "safety"[All Fields]) OR "safeties"[All Fields])) OR (((("hazard"[All Fields] OR "hazard s"[All Fields]) OR "hazardous"[All Fields]) OR "hazardously"[All Fields]) OR "hazardousness"[All Fields]) OR "hazards"[All Fields])) OR "disease transmission"[All Fields]) OR "infections"[MeSH Terms]) OR "infection*[All Fields]) OR "patient-to-professional"[All Fields]) OR (((("stress"[All Fields] OR "stressed"[All Fields]) OR "stresses"[All Fields]) OR "stressful"[All Fields]) OR "stressfulness"[All Fields]) OR "stressing"[All Fields])) OR (((("psychologic"[All Fields] OR "psychological"[All Fields]) OR "psychologically"[All Fields]) OR "psychologization"[All Fields]) OR "psychologized"[All Fields]) OR "psychologizing"[All Fields])) OR (((("exhausted"[All Fields] OR "exhausting"[All Fields]) OR "exhaustion"[All Fields]) OR "exhaustions"[All Fields]) OR "exhaustive"[All Fields]) OR "exhaustively"[All Fields])) OR ((((("fatiguability"[All Fields] OR "fatiguable"[All Fields]) OR "fatigue"[MeSH Terms]) OR "fatigue"[All Fields]) OR "fatigued"[All Fields]) OR "fatigues"[All Fields]) OR "fatiguing"[All Fields]) OR "fatigueability"[All Fields])) OR ((((("collapsed"[All Fields] OR "collapses"[All Fields]) OR "collapsibility"[All Fields]) OR "collapsible"[All Fields]) OR "collapsing"[All Fields]) OR "shock"[MeSH Terms]) OR "shock"[All Fields]) OR

"collapse"[All Fields])) OR (((("burnout s"[All Fields] OR "burnout, psychological"[MeSH Terms]) OR ("burnout"[All Fields] AND "psychological"[All Fields])) OR "psychological burnout"[All Fields]) OR "burnout"[All Fields]) OR "burnouts"[All Fields]))

Others

BLS 811 Resuscitation care for suspected opioid-associated emergencies (SR)

M Castren

2015 pubmed

Updated 29 Aug 2020 Last 1 year = 352 results

((((((("Narcotics"[Mesh] OR "Narcotics" [Pharmacological Action] OR Oxycodone[TIAB] or hydrocodone[TIAB] or heroin[TIAB] or morphine[TIAB] or methadone[TIAB] or codeine[TIAB] or fentanyl[TIAB] or opiate[TIAB] or opiates[TIAB] or opioid[TIAB] or opioids[TIAB] OR Hydromorphone[TIAB] or vicodin[TIAB] or Demerol[TIAB] or oxycontin[TIAB] or Tramadol[TIAB] or Meperidine[TIAB] or opium[TIAB] or narcotic[TIAB] OR narcotics[TIAB] OR "Opioid-Related Disorders"[Mesh]) AND ("Drug Overdose"[Mesh] or "poisoning" [Subheading] or "Poisoning"[Mesh:NoExp] or "toxicity" [Subheading] or overdose[TIAB] OR overdosed[TIAB] or overdosing[TIAB] or toxicity[TIAB] or poisoning[TIAB]))) AND ((("Resuscitation"[Mesh] OR "cardiopulmonary resuscitation"[TIAB] or "cardio-pulmonary resuscitation"[TIAB] or CPR[TIAB] or "chest compression"[TIAB] or "chest compressions"[TIAB] OR "basic life support"[TIAB] or BLS[TIAB] or "cardiac massage"[TIAB] or "heart massage"[TIAB] OR "Naloxone"[Mesh] OR "Narcotic Antagonists"[Mesh] or naloxone[TIAB] or naloxon[TIAB] or narcan[TIAB] or "narcotic antagonist"[TIAB] or "narcotic antagonists"[TIAB] OR "opioid antagonist"[TIAB] OR "opioid antagonists"[TIAB]))) NOT ((animals[mh] NOT humans[mh]) NOT ("letter"[pt] OR "comment"[pt] OR "editorial"[pt] or Case Reports[ptyp])))

Opioid Overdose First Aid Education (EIT 891: ScopRev)

Opioid Overdose Education

Database(s): EBM Reviews - Cochrane Database of Systematic Reviews 2005 to November 13, 2019, EBM Reviews - ACP Journal Club 1991 to October 2019, EBM Reviews - Database of Abstracts of Reviews of Effects 1st Quarter 2016, EBM Reviews - Cochrane Clinical Answers October 2019, EBM Reviews - Cochrane Central Register of Controlled Trials October 2019, EBM Reviews - Cochrane Methodology Register 3rd Quarter 2012, EBM Reviews - Health Technology Assessment 4th Quarter 2016, EBM Reviews - NHS Economic Evaluation Database 1st Quarter 2016, Embase 1974 to 2019 November 13, Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily 1946 to November 13, 2019

Search Strategy:

#	Searches	Results
1	exp Opioid-Related Disorders/	45626
2	Heroin/ or Morphine/ or Opium/ or exp Narcotics/	444291
3	(narcotic* or opiate* or opioid* or oxycodone* or percocet* or percoden* or oxycontin* or hydrocodone* or hycodan* or hysingla* or robidone* or vantrela* or zohydro* or diamorphine* or heroin* or morphine* or arymo* or avinza* or depodur* or doloral* or duramorph* or infumorph* or kadian* or "m-ediat*" or "m-eslon*" or morphabond* or "ms	

contin*" or "ms.ir*" or opium* or oramorph* or paregoric* or roxanol* or statex* or zomorph* or astramorph* or codeine* or fentanyl* or fentanil* or phentanyl* or fenantest* or sublimaze* or duragesic* or durogesic* or fentora* or abstral* or actiq* or effentora* or oxaydo* or oxecta* or "oxy.ir" or hydromorphone* or dilaudid* or exalgo* or hydromorph* or vicodin* or tramadol* or conzip* or durela* or ralivia* or rybix* or ryzolt* or synaprym* or meperidine* or demerol*).tw,kf. 453541

4 or/1-3 [OPIATES] 637226
5 Drug overdose/ 37555
6 (overdose* or over-dose*).tw,kf. 50606
7 (toxic* or poison*).tw,kf. 1624325
8 (po or to).fs. 1526906
9 or/5-8 [OVERDOSE] 2789118
10 Naloxone/ or Narcotic Antagonists/ 71029
11 (naloxone* or narcan* or evzio*).tw,kf. 54031
12 or/10-11 [NALOXONE] 83726
13 First Aid/ or Emergency Medical Services/ 144460
14 exp Emergency Responders/ 19828
15 (first aid* or first respon* or EMT or emergency medical technician* or paramedic* or para-medic* or ambulance* or firefighter* or fire-fighter* or police* or prehospital or pre-hospital or nonmedical* or non-medical* or peer or peers or lay* or bystander* or by-stander*).tw,kf. 1345539
16 ((expand* or increas*) adj1 access adj5 (naloxone* or narcan* or evzio*)).tw,kf. 104
17 (take-home or THN).tw,kf. 8286
18 (opioid overdose prevention program* or OOPP or OEND).tw,kf. 173
19 (educat* or train* or teach* or instruct* or skill* or informat*).tw,kf. 5553244
20 (recogni* or knowledge* or competen* or confiden* or empower*).tw,kf. 4493494
21 ed.fs. or education*.hw. 1679328
22 or/13-21 [FIRST AID/EDUCATION] 10730025
23 4 and 9 and 12 and 22 3192
24 exp Animals/ not (exp Animals/ and Humans/) 17012499
25 23 not 24 [ANIMAL-ONLY REMOVED] 2078
26 (comment or editorial or news or newspaper article).pt. 2002759
27 (letter not (letter and randomized controlled trial)).pt. 2135263
28 25 not (26 or 27) [OPINION PIECES REMOVED] 2011
29 28 use ppez 868
30 exp narcotic dependence/ 56965
31 exp opiate agonist/ or exp narcotic analgesic agent/ 418781
32 (narcotic* or opiate* or opioid* or oxycodone* or percocet* or percoden* or oxycontin* or hydrocodone* or hycodan* or hysingla* or robidone* or vantrela* or zohydro* or diamorphine* or heroin* or morphine* or arymo* or avinza* or depodur* or doloral* or duramorph* or infumorph* or kadian* or "m-ediat*" or "m-eslon*" or morphabond* or "ms contin*" or "ms.ir*" or opium* or oramorph* or paregoric* or roxanol* or statex* or zomorph* or astramorph* or codeine* or fentanyl* or fentanil* or phentanyl* or fenantest* or sublimaze* or duragesic* or durogesic* or fentora* or abstral* or actiq* or effentora* or oxaydo* or oxecta* or "oxy.ir" or hydromorphone* or dilaudid* or exalgo* or hydromorph* or vicodin* or tramadol* or conzip* or durela* or ralivia* or rybix* or ryzolt* or synaprym* or meperidine* or demerol*).tw,kw. 457491
33 or/30-32 [OPIATES] 702243
34 drug overdose/ or exp "drug toxicity and intoxication"/ 195826
35 (overdose* or over-dose*).tw,kw. 51605

36 (toxic* or poison*).tw,kw. 1630043
37 to.fs. 938948
38 or/34-37 [OVERDOSE] 2376740
39 exp opiate antagonist/ or exp narcotic antagonist/ 134380
40 (naloxone* or narcan* or evzio*).tw,kw. 54281
41 or/39-40 [NALOXONE] 145271
42 first aid/ or emergency treatment/ or emergency health service/ or emergency medical dispatch/ 174437
43 rescue personnel/ 7533
44 (first aid* or first respon* or EMT or emergency medical technician* or paramedic* or para-medic* or ambulance* or firefighter* or fire-fighter* or police* or prehospital or pre-hospital or nonmedical* or non-medical* or peer or peers or lay* or bystander* or bystander*).tw,kw. 1350384
45 ((expand* or increas*) adj1 access adj5 (naloxone* or narcan* or evzio*).tw,kw. 104
46 (take-home or THN).tw,kw. 8294
47 (opioid overdose prevention program* or OOPP or OEND).tw,kw. 173
48 (educat* or train* or teach* or instruct* or skill* or informat*).tw,kw. 5570601
49 (recogni* or knowledge* or competen* or confiden* or empower*).tw,kw. 4504687
50 education*.hw. 1534182
51 or/42-50 [FIRST AID/EDUCATION] 10709354
52 33 and 38 and 41 and 51 3598
53 exp animal experimentation/ or exp animal model/ or exp animal experiment/ or nonhuman/ or exp vertebrate/ 48942612
54 exp human/ or exp human experimentation/ or exp human experiment/ 39030904
55 52 not (53 not 54) [ANIMAL-ONLY REMOVED] 3341
56 editorial.pt. 1143095
57 letter.pt. not (randomized controlled trial/ and letter.pt.) 2135473
58 55 not (56 or 57) [OPINION PIECES REMOVED] 3244
59 conference abstract.pt. 3646198
60 58 not 59 [CONFERENCE ABSTRACTS REMOVED] 2711
61 60 use oemezd1667
62 exp Opioid-Related Disorders/ 45626
63 Heroin/ or Morphine/ or Opium/ or exp Narcotics/ 444291
64 (narcotic* or opiate* or opioid* or oxycodone* or percocet* or percoden* or oxycontin* or hydrocodone* or hycordan* or hysingla* or robidone* or vantrela* or zohydro* or diamorphine* or heroin* or morphine* or arymo* or avinza* or depodur* or doloral* or duramorph* or infumorph* or kadian* or "m-ediat*" or "m-eslon**" or morphabond* or "ms contin**" or "ms.ir**" or opium* or oramorph* or paregoric* or roxanol* or statex* or zomorph* or astramorph* or codeine* or fentanyl* or fentanil* or phentanyl* or fenantest* or sublimaze* or duragesic* or durogesic* or fentora* or abstral* or actiq* or effentora* or oxaydo* or oxecta* or "oxy.ir" or hydromorphone* or dilaudid* or exalgo* or hydromorph* or vicodin* or tramadol* or conzip* or durela* or ralivia* or rybix* or ryzolt* or synaprynn* or meperidine* or demerol*).tw,kw. 457491
65 or/62-64 [OPIATES] 639284
66 Drug overdose/ 37555
67 (overdose* or over-dose*).tw,kw. 51605
68 (toxic* or poison*).tw,kw. 1630043
69 (po or to).fs. 1526906
70 or/66-69 [OVERDOSE] 2800335
71 Naloxone/ or Narcotic Antagonists/ 71029

72 (naloxone* or narcan* or evzio*).tw,kw. 54281
 73 or/71-72 [NALOXONE] 83834
 74 First Aid/ or Emergency Medical Services/ 144460
 75 exp Emergency Responders/ 19828
 76 (first aid* or first respon* or EMT or emergency medical technician* or paramedic* or para-medic* or ambulance* or firefighter* or fire-fighter* or police* or prehospital or pre-hospital or nonmedical* or non-medical* or peer or peers or lay* or bystander* or by-stander*).tw,kw. 1350384
 77 ((expand* or increas*) adj1 access adj5 (naloxone* or narcan* or evzio*).tw,kw. 104
 78 (take-home or THN).tw,kw. 8294
 79 (opioid overdose prevention program* or OOPP or OEND).tw,kw. 173
 80 (educat* or train* or teach* or instruct* or skill* or informat*).tw,kw. 5570601
 81 (recogni* or knowledge* or competen* or confiden* or empower*).tw,kw.4504687
 82 ed.fs. or education*.hw. 1679328
 83 or/74-82 [FIRST AID/EDUCATION] 10752344
 84 65 and 70 and 73 and 83 3230
 85 conference abstract.pt. 3646198
 86 84 not 85 [CONFERENCE ABSTRACTS REMOVED] 2733
 87 86 use cctr 107
 88 86 use coch 24
 89 86 use dare 3
 90 86 use clhta 1
 91 86 use cleed 1
 92 86 use acp 1
 93 86 use clcmr 0
 94 29 or 61 or 87 or 88 or 89 or 90 or 91 or 92 or 93 [ALL DATABASES - NO
 DUPLICATES REMOVED] 2672
 95 remove duplicates from 94 [TOTAL UNIQUE RECORDS] 1858
 96 95 use ppez [MEDLINE UNIQUE RECORDS] 126
 97 95 use oemezd [EMBASE UNIQUE RECORDS] 1640
 98 95 use cctr [CENTRAL UNIQUE RECORDS] 62
 99 95 use coch [COCHRANE DATABASE OF SYSTEMATIC REVIEWS UNIQUE
 RECORDS] 24
 100 95 use dare [DATABASE OF ABSTRACTS OF REVIEWS OF EFFECTS UNIQUE
 RECORDS] 3
 101 95 use clhta [HEALTH TECHNOLOGY ASSESSMENT DATABASE] 1
 102 95 use cleed [NATIONAL HEALTH SERVICE ECONOMIC EVALUATION
 DATABASE] 1
 103 95 use acp [ACP JOURNAL CLUB UNIQUE RECORDS] 1
 104 95 use clcmr [COCHRANE METHODOLOGY REGISTER DATABASE] 0

Willingness to perform bystander CPR (EIT 626: ScopRev)

1. exp cardiopulmonary resuscitation/
2. cpr.tw.
3. (cardiopulmonary adj1 resuscitation).tw.
4. ("compression-only" or (compression adj1 only)).tw.
5. (chest adj10 compression\$).tw.
6. exp heart massage/
7. (cardiac adj1 massage).tw.

8. (heart adj1 massage).tw.
9. exp resuscitation/
10. (rescue adj1 breath\$).tw.
11. (bls or "basic life support" or "basic cardiac life support" or ("life support" adj5 "basic cardiac")).tw.
12. exp Psychomotor Performance/
13. psychomotor.tw.
14. exp Motor Skills/
15. (motor adj1 skill\$).tw.
16. competen\$.tw.
17. exp Survival Rate/
18. exp SURVIVAL/
19. surviv\$.tw.
20. "return of spontaneous circulation".tw.
21. rosc.tw.
22. exp KNOWLEDGE/
23. exp COMPREHENSION/
24. comprehension.tw.
25. comprehend.tw.
26. exp Mental Recall/
27. recall\$.tw.
28. exp Health Knowledge, Attitudes, Practice/
29. exp Diagnostic Self Evaluation/
30. ("self-evaluat\$" or (self adj1 evaluat\$)).tw.
31. exp Self Efficacy/
32. ("self-efficacy" or (self adj1 efficacy)).tw.
33. exp Self-Assessment/
34. exp Self Report/
35. ("self-confidence" or (self adj1 confidence)).tw.
36. exp METACOGNITION/
37. metacognition.tw.
38. exp ATTITUDE/
39. attitude\$.tw.
40. exp INTENTION/
41. inten\$.tw.
42. willing\$.tw.
43. exp Attitude to Health/
44. exp Simulation Training/
45. train\$.tw.
46. exp TEACHING/
47. teach\$.tw.
48. instruct\$.tw.
49. exp LEARNING/
50. learn\$.tw.
51. exp Health Education/
52. (health adj1 education).tw.
53. exp Educational Measurement/
54. exp Extracorporeal Membrane Oxygenation/
55. ecmo.tw.
56. exp INTUBATION/

57. intubat\$.tw.
58. exp Balloon Occlusion/
59. (endovascular adj1 balloon).tw.
60. exp Vasoconstrictor Agents/
61. vasopress\$.tw.
62. or/1-11
63. or/12-21
64. or/22-53
65. or/54-61
66. (62 and 63 and 64) not 65

Prehospital termination of resuscitation (OOH-TOR) rules (EIT 642: SysRev)

Database: Ovid MEDLINE(R) <1946 to June Week 5 2019>

Search Strategy:

- 1 exp Out-of-Hospital Cardiac Arrest/ (3567)
- 2 ohca.mp. (1700)
- 3 exp Ventricular Fibrillation/ or exp Tachycardia, Ventricular/ (30167)
- 4 heart arrest.mp. or exp Heart Arrest/ (52206)
- 5 cardiopulmonary arrest.mp. (1920)
- 6 circulatory arrest.mp. (5310)
- 7 cardiac standstill.mp. (175)
- 8 pulseless electrical activity.mp. (673)
- 9 peo.mp. (10962)
- 10 pulseless.mp. (1723)
- 11 shockable.mp. (721)
- 12 (non-shockable or non shockable).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] (222)
- 13 cardiac arrest.mp. (27990)
- 14 ventricular fibrillation.mp. (24096)
- 15 ventricular tachycardia.mp. (20276)
- 16 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 (112187)
- 17 (out of hospital or out-of-hospital or prehospital or pre-hospital or pre hospital).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] (20726)
- 18 exp Emergency Medical Services/ or emergency medical service*.mp. (132128)
- 19 exp Emergency Medical Technicians/ or paramedic*.mp. (11157)
- 20 ambulance*.mp. or exp Ambulances/ (13179)
- 21 exp air ambulances/ or air ambulance*.mp. or hems.mp. (2953)
- 22 (ems or emt).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] (24840)
- 23 field.mp. (513621)

- 24 17 or 18 or 19 or 20 or 21 or 22 or 23 (676842)
25 16 and 24 (12052)
26 1 or 2 or 25 (12079)
27 exp Resuscitation Orders/ or exp Resuscitation/ or resuscitat*.mp. (113438)
28 cardiopulmonary resuscitation.mp. or exp Cardiopulmonary Resuscitation/ (21209)
29 cpr.mp. (10078)
30 basic life support.mp. or exp Life Support Care/ (9911)
31 exp Advanced Cardiac Life Support/ or advanced life support.mp. (2607)
32 (bls or als).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] (48450)
33 exp Heart Massage/ or chest compression*.mp. (5565)
34 27 or 28 or 29 or 30 or 31 or 32 or 33 (170260)
35 26 and 34 (7457)
36 (terminat* or cease or cessation or stop or withdraw* or withhold* or withheld or TOR or futile or futility or rule* or algorithm* or decease* or decision* or prognosis or predict*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] (2718645)
37 exp Prognosis/ (1522104)
38 36 or 37 (3568463)
39 35 and 38 (3178)
40 (letter or case reports or editorial or lecture).pt. (3161441)
41 39 not 40 (2827)
42 limit 41 to humans (2786)

Database: Ovid MEDLINE(R) Daily Update <July 05, 2019>, Ovid MEDLINE(R) Epub Ahead of Print and In-Process & Other Non-Indexed Citations <July 05, 2019>
Search Strategy:

-
- 1 exp Out-of-Hospital Cardiac Arrest/ (4)
2 ohca.mp. (430)
3 exp Ventricular Fibrillation/ or exp Tachycardia, Ventricular/ (9)
4 heart arrest.mp. or exp Heart Arrest/ (150)
5 cardiopulmonary arrest.mp. (321)
6 circulatory arrest.mp. (396)
7 cardiac standstill.mp. (14)
8 pulseless electrical activity.mp. (142)
9 pea.mp. (3408)
10 pulseless.mp. (268)
11 shockable.mp. (171)
12 (non-shockable or non shockable).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] (51)
13 cardiac arrest.mp. (4283)
14 ventricular fibrillation.mp. (1331)
15 ventricular tachycardia.mp. (2174)

- 16 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 (10885)
 17 (out of hospital or out-of-hospital or prehospital or pre-hospital or pre hospital).mp.
 [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] (3074)
 18 exp Emergency Medical Services/ or emergency medical service*.mp. (1350)
 19 exp Emergency Medical Technicians/ or paramedic*.mp. (762)
 20 ambulance*.mp. or exp Ambulances/ (1247)
 21 exp air ambulances/ or air ambulance*.mp. or hems.mp. (154)
 22 (ems or emt).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] (5705)
 23 field.mp. (185268)
 24 17 or 18 or 19 or 20 or 21 or 22 or 23 (195058)
 25 16 and 24 (1530)
 26 1 or 2 or 25 (1539)
 27 exp Resuscitation Orders/ or exp Resuscitation/ or resuscitat*.mp. (7002)
 28 cardiopulmonary resuscitation.mp. or exp Cardiopulmonary Resuscitation/ (1908)
 29 cpr.mp. (1435)
 30 basic life support.mp. or exp Life Support Care/ (248)
 31 exp Advanced Cardiac Life Support/ or advanced life support.mp. (212)
 32 (bls or als).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] (5708)
 33 exp Heart Massage/ or chest compression*.mp. (436)
 34 27 or 28 or 29 or 30 or 31 or 32 or 33 (13304)
 35 26 and 34 (792)
 36 (terminat* or cease or cessation or stop or withdraw* or withhold* or withheld or TOR or futile or futility or rule* or algorithm* or decease* or decision* or prognosis or predict*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] (445196)
 37 exp Prognosis/ (1491)
 38 36 or 37 (446053)
 39 35 and 38 (246)

In-hospital termination of resuscitation (IH-TOR) (EIT new: SysRev)

Updated 30 Aug 2020 Last 1 year = 40 results

(("Heart Arrest"/ OR "Ventricular Fibrillation"/ OR exp "Tachycardia, Ventricular"/ OR "heart arrest" OR "cardiac arrest" OR "cardiopulmonary arrest" OR "cardio-pulmonary arrest" OR "circulatory arrest" OR "cardiac standstill" OR "cardiac stand still" OR "ventricular fibrillation" OR "ventricular tachycardi*" OR asystol* OR pulseless OR peo OR shockable OR non-shockable OR "non shockable" OR nonshockable) AND ("Inpatients"/ OR "Hospitalization"/ OR "Hospitals"/ OR "Cardiac Care Facilities"/ OR "Coronary Care Units"/ OR in-hospital OR inhospital OR inpatient* OR in-patient* OR hospitaliz* OR hospitalis*)

OR "hospital provider*" OR ((cardiac OR heart OR coronary OR cardiolog*) adj (facility OR facilities OR center OR centers OR centre* OR unit OR units)) OR "Hospital Mortality"/ OR "hospital mortality") OR IHCA) AND (Resuscitation Orders/ OR exp "Resuscitation"/ OR exp "Life Support Care"/ OR resuscitat* OR "heart massag*" OR "cardiac massag*" OR "heart compression*" OR "cardiac compression*" OR "chest compression*" OR CPR OR "basic cardiac life support" OR BCLS OR "basic life support" OR BLS OR "advanced life support" OR ALS OR defibrillat*) AND ("Medical Futility"/ OR "Decision Support Systems, Clinical"/ OR "Decision Support Techniques"/ OR exp "Prognosis"/ OR terminat* OR cease OR cessation OR stop OR stopping OR withdraw* OR withhold* OR withheld OR TOR OR DNAR OR futile OR futility OR rule* OR algorithm* OR decease* OR prognosis OR validation OR "clinical decision" OR "decision process" OR "decision aid" OR "prediction tool*" OR "prediction aid*" OR (predict* adj2 (outcome* OR likelihood OR survival))) NOT ((Animals/ OR "Animal Experimentation"/ OR "Models, Animal"/ OR "Disease Models, Animal"/) NOT (Humans/ OR "Human Experimentation"/))

Deliberate Practice and Mastery Learning (EIT new: EvUp)

- 1 resuscitation/ or cardiopulmonary resuscitation/ or advanced cardiac life support/ (42521)
- 2 (advanced life support adj2 (train* or course* or educat*)).tw. (201)
- 3 (advanced cardiac life support adj2 (train* or course* or educat*)).tw. (112)
- 4 (basic cardiac life support adj2 (train* or course* or educat*)).tw. (11)
- 5 ((CPR or cardiopulmonary resuscitation or resuscitation) adj2 (train* or course* or educat*)).tw. (1471)
- 6 1 or 2 or 3 or 4 or 5 (42791)
- 7 limit 6 to english language (33652)
- 8 deliberate practice.tw,kf. (398)
- 9 mastery.tw,kf. (4884)
- 10 8 or 9 (5235)
- 11 7 and 10 (44)
- 12 from 11 keep 1-6,9,12,14,16-21,24,27-28,32,34,37-38,40 (23)

Layperson Training (EIT new: EvUp)

MEDLINE SEARCH STRATEGY

1. exp cardiopulmonary resuscitation/
2. cpr.tw.
3. (cardiopulmonary adj1 resuscitation).tw.
4. ("compression-only" or (compression adj1 only)).tw.
5. (chest adj10 compression\$).tw.
6. exp heart massage/
7. (cardiac adj1 massage).tw.
8. (heart adj1 massage).tw.
9. exp resuscitation/
10. (rescue adj1 breath\$).tw.
11. (bls or "basic life support" or "basic cardiac life support" or ("life support" adj5 "basic cardiac")).tw.
12. exp Psychomotor Performance/
13. psychomotor.tw.
14. exp Motor Skills/
15. (motor adj1 skill\$).tw.

16. competen\$.tw.
17. exp Survival Rate/
18. exp SURVIVAL/
19. surviv\$.tw.
20. "return of spontaneous circulation".tw.
21. rosc.tw.
22. exp KNOWLEDGE/
23. exp COMPREHENSION/
24. comprehension.tw.
25. comprehend.tw.
26. exp Mental Recall/
27. recall\$.tw.
28. exp Health Knowledge, Attitudes, Practice/
29. exp Diagnostic Self Evaluation/
30. ("self-evaluat\$" or (self adj1 evaluat\$)).tw.
31. exp Self Efficacy/
32. ("self-efficacy" or (self adj1 efficacy)).tw.
33. exp Self-Assessment/
34. exp Self Report/
35. ("self-confidence" or (self adj1 confidence)).tw.
36. exp METACOGNITION/
37. metacognition.tw.
38. exp ATTITUDE/
39. attitude\$.tw.
40. exp INTENTION/
41. inten\$.tw.
42. willing\$.tw.
43. exp Attitude to Health/
44. exp Simulation Training/
45. train\$.tw.
46. exp TEACHING/
47. teach\$.tw.
48. instruct\$.tw.
49. exp LEARNING/
50. learn\$.tw.
51. exp Health Education/
52. (health adj1 education).tw.
53. exp Educational Measurement/
54. exp Extracorporeal Membrane Oxygenation/
55. ecmo.tw.
56. exp INTUBATION/
57. intubat\$.tw.
58. exp Balloon Occlusion/
59. (endovascular adj1 balloon).tw.
60. exp Vasoconstrictor Agents/
61. vasopress\$.tw.
62. or/1-11
63. or/12-21
64. or/22-53
65. or/54-61

66. (62 and 63 and 64) not 65

Timing for retraining (EIT 628: EvUP)

Updated 30 Aug 2020 Last 1 year = 52 results

((((((("Cardiopulmonary Resuscitation/education"[Mesh:NoExp]) OR (((("Basic Life Support"[TI] OR BLS[TI] OR CPR[TI] OR cardiopulmonary resuscitation[TI] OR AED[TI] OR defibrillator[TI] OR defibrillation[TI] OR heartsaver[TI])))) AND ((("lay person"[TIAB] OR "lay persons"[TIAB] OR layperson[TIAB] laypersons[TIAB] OR laypeople[TIAB] OR "lay people"[TIAB] OR "lay rescuer"[TIAB] OR "lay rescuers"[TIAB] OR "lay rescuers"[TIAB] OR "lay responder"[TIAB] or "lay responders"[TIAB] OR "lay volunteers"[TIAB] OR "Emergency Responders/education"[Mesh] OR "Emergency Treatment/education"[Mesh] OR "education"[TIAB] OR teach[TIAB] OR teaching[TIAB] OR teacher[TIAB] OR teachers[TIAB] OR "Inservice Training"[Mesh] OR learning[TIAB] OR Inservice[TIAB] OR Train[TIAB] OR Training[TIAB] OR "course"[TIAB] OR "program"[TIAB] OR student[TIAB] OR students[TIAB] OR instruction[TIAB]))))))) AND ((Refresher[TIAB] OR Retention[TIAB] OR retain[TIAB] OR retained[TIAB] OR update[TIAB] OR retraining[TIAB] OR retrain[TIAB] OR recertify[TIAB] OR recertification[TIAB] OR "Certification"[Mesh] OR "Clinical Competence"[Mesh] OR "Educational Measurement"[Mesh] OR "Professional Competence"[Mesh] OR "Health Knowledge, Attitudes, Practice"[Mesh] OR "Retention (Psychology)"[Mesh] OR "Mental Recall"[Mesh]))) NOT ((animals[mh] NOT humans[mh]) NOT ("letter"[pt] OR "comment"[pt] OR "editorial"[pt] or Case Reports[ptyp]))))

System Performance Improvements (EIT 640: SysRev)

PubMed

Updated 30 Aug 2020 Last 1 year = 173 results

((("Cardiopulmonary Resuscitation/organization and administration"[Mesh] AND performance)) OR (((("Cardiopulmonary Resuscitation"[Mesh] OR "Heart Arrest"[Mesh] OR "cardiac arrest"[TIAB] OR resuscitation[TIAB] OR "Ventricular Fibrillation/drug therapy"[Mesh] OR "Ventricular Fibrillation/therapy"[Mesh])) AND ("Feedback"[Mesh:NoExp] OR "Feedback, Sensory"[Mesh] OR feedback[TIAB] OR feed back[TIAB] OR "Clinical Audit"[Mesh] OR audit*[TIAB] OR "Benchmarking"[Mesh] OR benchmark*[TIAB] OR "quality control"[TIAB] OR "Total Quality Management"[Mesh] OR "Program Evaluation"[Mesh] OR "Program Evaluation"[TIAB] OR "Programme Evaluation"[TIAB] OR "Task Performance and Analysis"[Mesh:NoExp] OR "Audiovisual Aids"[Mesh:NoExp] OR "Video Recording"[Mesh] OR "quality improvement" OR "Quality improvement"[Mesh:NoExp])) AND ((("Outcome and Process Assessment Health Care"[Mesh] OR "quality of healthcare" OR "Quality of Health Care"[Mesh] OR "clinical competence" OR "Clinical Competence"[Mesh] OR "Treatment Outcome"[Mesh] OR "Mortality"[Mesh] OR "Morbidity"[Mesh] OR "return of spontaneous circulation"[TIAB] OR ROSC[TIAB] OR "health outcome" OR "health outcomes" OR mortality[TIAB] OR morbidity[TIAB] OR "change of practice" [TIAB] OR "practice change"[TIAB] OR "Heart Arrest/mortality"[Mesh]))) NOT ("letter"[pt] OR "comment"[pt] OR "editorial"[pt] or Case Reports[ptyp]))

Community initiatives to promote BLS implementation (EIT 641: ScopRev)

Updated 30 Aug 2020 Last 1 year = 163 results

((("Heart Arrest"[Mesh] OR "heart arrest*"[TIAB] OR "cardiac arrest*"[TIAB] OR "cardiovascular arrest*"[TIAB] OR "cardiopulmonary arrest*"[TIAB] OR "cardio-pulmonary arrest*"[TIAB] OR "Out-of-Hospital Cardiac Arrest*"[Mesh] OR OHCA OR "Out of Hospital Cardiac Arrest*"[TIAB] OR "out-of-hospital cardiac arrest*"[TIAB] OR "Outside-of-Hospital Cardiac Arrest"[TIAB]) OR (resuscitation [Mesh] OR resuscitation*[TIAB] OR "cardiopulmonary resuscitation"[Mesh] OR "cardiopulmonary resuscitation"[TIAB] OR "Cardio-Pulmonary Resuscitation" OR "Cardio Pulmonary Resuscitation" OR CPR [TIAB] OR "Life Support Care"[Mesh] OR "Basic Cardiac Life Support" OR "basic life support" OR "Cardiac Life Support" [TIAB] OR "cardiorespiratory resuscitation"[TIAB] OR "Heart Massage*"[Mesh] OR "heart massage*"[TIAB] OR "cardiac massage*"[TIAB] OR "chest compression*"[TIAB] OR "cardiac compression*"[TIAB] OR (defibrillators [Mesh] OR defibrillator* [TIAB] OR "automated external defibrillator*") OR AED OR "External Defibrillator*" OR "Electric Shock Cardiac Stimulator*" OR "Electric Defibrillation" OR Electric Countershock [Mesh] OR "Electrical Cardioversion*" [TIAB] OR "Cardiac Electroversion*")))) AND (bystander*[TIAB] OR "first responder*"[TIAB] OR "first-responder*"[TIAB] OR Layperson*[TIAB] OR "lay people"[TIAB] OR "lay rescuer*"[TIAB] OR "lay public" OR witness*[TIAB] OR "non-healthcare professional" [TIAB])) AND (((community OR public OR local OR social OR population* OR citizen*) AND (initiative* OR intervention* OR action* OR participation OR involvement* OR engagement OR preparation* OR implement* OR project* OR strategy* OR program OR programs OR network* OR training* OR campaign* OR education OR coaching OR information* OR learning OR instruction* OR guidance* OR response* OR responsiveness OR reply OR reaction OR awareness OR alertness OR realization OR sensibility OR sensitivity OR consciousness) OR "community-based initiative*") OR "community-driven initiative*"))

- *Search performed on 10/11/2019*
- *Filters: Only humans*

Cardiac arrest centers (EIT 624: SysRev, 2019 CoSTR)

Database(s): Ovid MEDLINE(R) Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R) 1946 to Present

- 1 Cardiac Care Facilities/ 1053
- 2 Cardiology Service, Hospital/1618
- 3 Regional Medical Programs/ 3666
- 4 (Heart attack Centre* or Heart Attack Center* or cardiac arrest centre* or cardiac arrest center*).ab,kf,ti. 69
- 5 fifth link.ab,kf,ti. 5
- 6 (cardiac resuscitation center* or cardiac resuscitation centre* or regional cardiac resuscitation).ab,kf,ti. 10
- 7 (CRC or CRC*).ab,kf,ti. 27169
- 8 (regional system* or network or hospital volume or patient volume).ab,kf,ti. 298622
- 9 (Cardiac Receiving Center* or Cardiac Receiving Centre*).ab,kf,ti.6
- 10 (post cardiac arrest adj1 (care or treatment)).ab,kf,ti.90
- 11 (postcardiac arrest adj1 (care or treatment)).ab,kf,ti. 24

12 (post resuscitation adj1 (care or treatment)).ab,kf,ti. 239
 13 (postresuscitation adj1 (care or treatment)).ab,kf,ti. 110
 14 "Cardiac Care Facilit*".ab,kf,ti. 12
 15 (Cardiac adj2 (Centre* or Center*)).ab,kf,ti. 1867
 16 (Cardiology adj1 (Service or care) adj2 Hospital).ab,kf,ti. 11
 17 (Cardiovascular adj1 (Centre or Center)).ab,kf,ti. 388
 18 cardiac catheterisation laboratory.ab,kf,ti. 113
 19 (CAC or CACs).ab,kf,ti. 5383
 20 Tertiary Care Centers/8862
 21 (Tertiary adj1 (care or Center* or Centre*)).ab,kf,ti. 44846
 22 Cardiac Arrest Registry.ab,kf,ti. 225
 23 ("Critical care medical center*" or "Critical care medical centre*").ab,kf,ti. 32
 24 ("critical care centre*" or "critical care center*").ab,kf,ti. 127
 25 or/1-24388412
 26 heart arrest/ or out-of-hospital cardiac arrest/29812
 27 cardiopulmonary resuscitation/ or advanced cardiac life support/ 15704
 28 Death, Sudden, Cardiac/ 13864
 29 Out of Hospital Cardiac Arrest.ab,kf,ti. 4406
 30 OHCA.ab,kf,ti. 1817
 31 return of spontaneous circulation.ab,kf,ti. 2499
 32 ROSC.ab,kf,ti. 1790
 33 ((heart or cardiac or cardiovascular) adj1 arrest).ab,kf,ti. 30887
 34 asystole.ab,kf,ti. 3419
 35 pulseless electrical activity.ab,kf,ti. 751
 36 Advanced Cardiac Life Support.ab,kf,ti. 962
 37 ACLS.ab,kf,ti. 1011
 38 Ventricular Fibrillation/ 16407
 39 (cardiopulmonary arrest or cardiopulmonary resuscitation).ab,kf,ti. 14661
 40 (Cardio-pulmonary arrest or cardio-pulmonary resuscitation or CPR).ab,kf,ti. 10986
 41 code blue.ab,kf,ti. 194
 42 or/26-41 83824
 43 25 and 42 1934
 44 exp Organ Transplantation/ or "transplant*".ab,kf,ti. 470881
 45 43 not 44 1863
 46 Animals/ not (Animals/ and Humans/) 4447043
 47 45 not 46 1817
 48 (exp Pediatrics/ or exp CHILD/) not exp Adult/ 1147963
 49 47 not 48 1658
 50 (letter or comment or editorial).pt. 1647537
 51 49 not 50 1596
 52 remove duplicates from 51 1593

Out of hospital CPR training in low-resource settings (EIT 634: ScopRev)

- | | |
|---|--|
| # | Searches |
| 1 | First Aid/ or exp Emergency Responders/ |
| 2 | (first aid* or first respon* or EMT or emergency medical technician* or EMT or emergency medical service* or EMS or paramedic* or para-medic* or ambulance* or |

dispatcher* or dispatch-assisted or firefighter* or fire-fighter* or layperson or lay-person or laypeople or lay-people or bystander* or by-stander* or public setting*).tw,kf.

3 (out-of-hospital or prehospital* or pre-hospital* or (before adj2 hospital*)).tw,kf.

4 "Out-of-Hospital Cardiac Arrest"/

5 OHCA.tw,kf.

6 or/1-5 [OUT OF HOSPITAL]

7 exp Resuscitation/ or exp Life Support Care/

8 (resuscitat* or heart massag* or cardiac massag* or heart compression* or cardiac compression* or chest compression* or CPR).tw,kf.

9 (basic cardiac life support or BCLS or basic life support or BLS or advanced life support or ALS).tw,kf.

10 Defibrillators/ or Electric Countershock/

11 (defibrillat* or AED or electroversion? or electro-version? or cardioversion? or cardio-version? or electric countershock? or electric counter-shock?).tw,kf.

12 or/7-11 [RESUSCITATION]

13 Developing Countries.sh,kf.

14 (Africa or Asia or Caribbean or West Indies or South America or Latin America or Central America).hw,kf,ti,ab,cp.

15 (Afghanistan or Albania or Algeria or Angola or Antigua or Barbuda or Argentina or Armenia or Armenian or Aruba or Azerbaijan or Bahrain or Bangladesh or Barbados or Benin or Byelarus or Byelorussian or Belarus or Belorussian or Belorussia or Belize or Bhutan or Bolivia or Bosnia or Herzegovina or Hercegovina or Botswana or Brasil or Brazil or Bulgaria or Burkina Faso or Burkina Fasso or Upper Volta or Burundi or Urundi or Cambodia or Khmer Republic or Kampuchea or Cameroon or Cameroons or Cameron or Camerons or Cape Verde or Central African Republic or Chad or Chile or China or Colombia or Comoros or Comoro Islands or Comores or Mayotte or Congo or Zaire or Costa Rica or Cote d'Ivoire or Ivory Coast or Croatia or Cuba or Cyprus or Czechoslovakia or Czech Republic or Slovakia or Slovak Republic or Djibouti or French Somaliland or Dominica or Dominican Republic or East Timor or East Timur or Timor Leste or Ecuador or Egypt or United Arab Republic or El Salvador or Eritrea or Estonia or Ethiopia or Fiji or Gabon or Gabonese Republic or Gambia or Gaza or Georgia Republic or Georgian Republic or Ghana or Gold Coast or Greece or Grenada or Guatemala or Guinea or Guam or Guiana or Guyana or Haiti or Honduras or Hungary or India or Maldives or Indonesia or Iran or Iraq or Isle of Man or Jamaica or Jordan or Kazakhstan or Kazakh or Kenya or Kiribati or Korea or Kosovo or Kyrgyzstan or Kirghizia or Kyrgyz Republic or Kirghiz or Kirgizstan or Lao PDR or Laos or Latvia or Lebanon or Lesotho or Basutoland or Liberia or Libya or Lithuania or Macedonia or Madagascar or Malagasy Republic or Malaysia or Malaya or Malay or Sabah or Sarawak or Malawi or Nyasaland or Mali or Malta or Marshall Islands or Mauritania or Mauritius or Agalega Islands or Mexico or Micronesia or Middle East or Moldova or Moldavia or Moldovian or Mongolia or Montenegro or Morocco or Ifni or Mozambique or Myanmar or Myanma or Burma or Namibia or Nepal or Netherlands Antilles or New Caledonia or Nicaragua or Niger or Nigeria or Northern Mariana Islands or Oman or Muscat or Pakistan or Palau or Palestine or Panama or Paraguay or Peru or Philippines or Philipines or Phillipines or Phillipines or Poland or Portugal or Puerto Rico or Romania or Rumania or Roumania or Russia or Russian or Rwanda or Ruanda or Saint Kitts or St Kitts or Nevis or Saint Lucia or St Lucia or Saint Vincent or St Vincent or Grenadines or Samoa or Samoan Islands or Navigator Island or Navigator Islands or Sao Tome or Saudi Arabia or Senegal or Serbia or Montenegro or Seychelles or Sierra Leone or Slovenia or Sri Lanka or Ceylon or Solomon Islands or Somalia or South Africa or Sudan or Suriname or Surinam or Swaziland or Syria or Tajikistan or Tadzhikistan or Tadzhik or Tanzania or Thailand or

Togo or Togolese Republic or Tonga or Trinidad or Tobago or Tunisia or Turkey or Turkmenistan or Turkmen or Uganda or Ukraine or Uruguay or USSR or Soviet Union or Union of Soviet Socialist Republics or Uzbekistan or Uzbek or Vanuatu or New Hebrides or Venezuela or Vietnam or Viet Nam or West Bank or Yemen or Yugoslavia or Zambia or Zimbabwe or Rhodesia).hw,kf,ti,ab,cp.

16 ((developing or less* developed or under developed or underdeveloped or middle income or low* income or underserved or under served or deprived or poor*) adj (countr* or nation? or population? or world)).ti,ab.

17 ((developing or less* developed or under developed or underdeveloped or middle income or low* income) adj (economy or economies)).ti,ab.

18 (low* adj (gdp or gnp or gross domestic or gross national or resource)).ti,ab.

19 (low adj3 middle adj3 countr*).ti,ab.

20 (lmic or lmics or third world or lami countr*).ti,ab.

21 transitional countr*.ti,ab.

22 Poverty/ or Poverty Area/ or Vulnerable Populations/ or Socioeconomic Factors/ or exp Homeless Persons/ or Social Class/ or Health Status Disparities/ or Healthcare Disparities/ or Residence Characteristics/

23 ((low income* or low pay or low* paid or poor or depriv* or disadvantaged) adj2 (people or person or persons or population* or communit* or neighbourhood* or neighborhood* or areas or famil*)).ti,ab.

24 ((socioeconomic or socio-economic or SES) adj2 (low* or high* or depriv* or status or factors)).ti,ab.

25 (wealth* or poverty or well educated or better educated or impoverished).ti,ab.

26 (education* adj2 (level or attainment)).ti,ab.

27 ((neighbourhood* or neighborhood*) adj2 (characteristics or factors or high-risk)).ti,ab.

28 (ethnic* or race or racial* or racis* or socioeconomic or socio-economic or SES or income*).ti.

29 or/13-28 [LOW RESOURCE]

30 6 and 12 and 29

31 exp Animals/ not (exp Animals/ and Humans/)

32 30 not 31 [ANIMAL-ONLY REMOVED]

33 (comment or editorial or news or newspaper article).pt.

34 32 not 33 [OPINION PIECES REMOVED]

35 34 use ppez

36 first aid/ or rescue personnel/

37 (first aid* or first respon* or EMT or emergency medical technician* or EMT or emergency medical service* or EMS or paramedic* or para-medic* or ambulance* or dispatcher* or dispatch-assisted or firefighter* or fire-fighter* or layperson or lay-person or laypeople or lay-people or bystander* or by-stander* or public setting*).tw,kw.

38 (out-of-hospital or prehospital* or pre-hospital* or (before adj2 hospital*)).tw,kw.

39 "out of hospital cardiac arrest"/

40 OHCA.tw,kw.

41 or/36-40 [OUT OF HOSPITAL]

42 resuscitation/

43 (resuscitat* or heart massag* or cardiac massag* or heart compression* or cardiac compression* or chest compression* or CPR).tw,kw.

44 (basic cardiac life support or BCLS or basic life support or BLS or advanced life support or ALS).tw,kw.

45 defibrillator/ or exp external defibrillator/ or cardioversion/

46 (defibrillat* or AED or electroversion? or electro-version? or cardioversion? or cardio-version? or electric countershock? or electric counter-shock?).tw,kw.

47 or/42-46 [RESUSCITATION]

48 Developing Country.sh,kw.

49 (Africa or Asia or Caribbean or West Indies or South America or Latin America or Central America).hw,kw,ti,ab,cp.

50 (Afghanistan or Albania or Algeria or Angola or Antigua or Barbuda or Argentina or Armenia or Armenian or Aruba or Azerbaijan or Bahrain or Bangladesh or Barbados or Benin or Byelarus or Byelorussian or Belarus or Belorussian or Belorussia or Belize or Bhutan or Bolivia or Bosnia or Herzegovina or Hercegovina or Botswana or Brasil or Brazil or Bulgaria or Burkina Faso or Burkina Fasso or Upper Volta or Burundi or Urundi or Cambodia or Khmer Republic or Kampuchea or Cameroon or Cameroons or Cameron or Camerons or Cape Verde or Central African Republic or Chad or Chile or China or Colombia or Comoros or Comoro Islands or Comores or Mayotte or Congo or Zaire or Costa Rica or Cote d'Ivoire or Ivory Coast or Croatia or Cuba or Cyprus or Czechoslovakia or Czech Republic or Slovakia or Slovak Republic or Djibouti or French Somaliland or Dominica or Dominican Republic or East Timor or East Timur or Timor Leste or Ecuador or Egypt or United Arab Republic or El Salvador or Eritrea or Estonia or Ethiopia or Fiji or Gabon or Gabonese Republic or Gambia or Gaza or Georgia Republic or Georgian Republic or Ghana or Gold Coast or Greece or Grenada or Guatemala or Guinea or Guam or Guiana or Guyana or Haiti or Honduras or Hungary or India or Maldives or Indonesia or Iran or Iraq or Isle of Man or Jamaica or Jordan or Kazakhstan or Kazakh or Kenya or Kiribati or Korea or Kosovo or Kyrgyzstan or Kirghizia or Kyrgyz Republic or Kirghiz or Kirgizstan or Lao PDR or Laos or Latvia or Lebanon or Lesotho or Basutoland or Liberia or Libya or Lithuania or Macedonia or Madagascar or Malagasy Republic or Malaysia or Malaya or Malay or Sabah or Sarawak or Malawi or Nyasaland or Mali or Malta or Marshall Islands or Mauritania or Mauritius or Agalega Islands or Mexico or Micronesia or Middle East or Moldova or Moldavia or Moldovian or Mongolia or Montenegro or Morocco or Ifni or Mozambique or Myanmar or Myanma or Burma or Namibia or Nepal or Netherlands Antilles or New Caledonia or Nicaragua or Niger or Nigeria or Northern Mariana Islands or Oman or Muscat or Pakistan or Palau or Palestine or Panama or Paraguay or Peru or Philippines or Philipines or Phillipines or Phillipines or Poland or Portugal or Puerto Rico or Romania or Rumania or Roumania or Russia or Russian or Rwanda or Ruanda or Saint Kitts or St Kitts or Nevis or Saint Lucia or St Lucia or Saint Vincent or St Vincent or Grenadines or Samoa or Samoan Islands or Navigator Island or Navigator Islands or Sao Tome or Saudi Arabia or Senegal or Serbia or Montenegro or Seychelles or Sierra Leone or Slovenia or Sri Lanka or Ceylon or Solomon Islands or Somalia or South Africa or Sudan or Suriname or Surinam or Swaziland or Syria or Tajikistan or Tadzhikistan or Tadjikistan or Tadzhik or Tanzania or Thailand or Togo or Togolese Republic or Tonga or Trinidad or Tobago or Tunisia or Turkey or Turkmenistan or Turkmen or Uganda or Ukraine or Uruguay or USSR or Soviet Union or Union of Soviet Socialist Republics or Uzbekistan or Uzbek or Vanuatu or New Hebrides or Venezuela or Vietnam or Viet Nam or West Bank or Yemen or Yugoslavia or Zambia or Zimbabwe or Rhodesia).hw,kw,ti,ab,cp.

51 ((developing or less* developed or under developed or underdeveloped or middle income or low* income or underserved or under served or deprived or poor*) adj (countr* or nation? or population? or world)).ti,ab.

52 ((developing or less* developed or under developed or underdeveloped or middle income or low* income) adj (economy or economies)).ti,ab.

53 (low* adj (gdp or gnp or gross domestic or gross national or resource)).ti,ab.

54 (low adj3 middle adj3 countr*).ti,ab.

55 (lmic or lmics or third world or lami countr*).ti,ab.
56 transitional countr*.ti,ab.
57 poverty/ or vulnerable population/ or socioeconomics/ or exp homeless person/ or social class/ or health disparity/ or health care disparity/ or demography/
58 ((low income* or low pay or low* paid or poor or depriv* or disadvantaged) adj2 (people or person or persons or population* or commun* or neighbourhood* or neighborhood* or areas or famil*)).ti,ab.
59 ((socioeconomic or socio-economic or SES) adj2 (low* or high* or depriv* or status or factors)).ti,ab.
60 (wealth* or poverty or well educated or better educated or impoverished).ti,ab.
61 (education* adj2 (level or attainment)).ti,ab.
62 ((neighbourhood* or neighborhood*) adj2 (characteristics or factors or high-risk)).ti,ab.
63 (ethnic* or race or racial* or racis* or socioeconomic or socio-economic or SES or income*).ti.
64 or/48-63 [LOW RESOURCE]
65 41 and 47 and 64
66 exp animal experimentation/ or exp animal model/ or exp animal experiment/ or nonhuman/ or exp vertebrate/
67 exp human/ or exp human experimentation/ or exp human experiment/
68 65 not 67) [ANIMAL-ONLY REMOVED]
69 editorial.pt.
70 68 not 69 [OPINION PIECES REMOVED]
71 conference abstract.pt.
72 70 not 71 [CONFERENCE ABSTRACTS REMOVED]
73 72 use oemezd
74 First Aid/ or exp Emergency Responders/
75 (first aid* or first respon* or EMT or emergency medical technician* or EMT or emergency medical service* or EMS or paramedic* or para-medic* or ambulance* or dispatcher* or dispatch-assisted or firefighter* or fire-fighter* or layperson or lay-person or laypeople or lay-people or bystander* or by-stander* or public setting*).tw,kw.
76 (out-of-hospital or prehospital* or pre-hospital* or (before adj2 hospital*)).tw,kw.
77 "Out-of-Hospital Cardiac Arrest"/
78 OHCA.tw,kw.
79 or/74-78 [OUT OF HOSPITAL]
80 exp Resuscitation/ or exp Life Support Care/
81 (resuscitat* or heart massag* or cardiac massag* or heart compression* or cardiac compression* or chest compression* or CPR).tw,kw.
82 (basic cardiac life support or BCLS or basic life support or BLS or advanced life support or ALS).tw,kw.
83 Defibrillators/ or Electric Countershock/
84 (defibrillat* or AED or electroversion? or electro-version? or cardioversion? or cardio-version? or electric countershock? or electric counter-shock?).tw,kw.
85 or/80-84 [RESUSCITATION]
86 Developing Countries.sh,kw.
87 (Africa or Asia or Caribbean or West Indies or South America or Latin America or Central America).hw,kw,ti,ab,cp.
88 (Afghanistan or Albania or Algeria or Angola or Antigua or Barbuda or Argentina or Armenia or Armenian or Aruba or Azerbaijan or Bahrain or Bangladesh or Barbados or Benin or Byelarus or Byelorussian or Belarus or Belorussian or Belorussia or Belize or

Bhutan or Bolivia or Bosnia or Herzegovina or Hercegovina or Botswana or Brasil or Brazil or Bulgaria or Burkina Faso or Burkina Fasso or Upper Volta or Burundi or Urundi or Cambodia or Khmer Republic or Kampuchea or Cameroon or Cameroons or Cameron or Camerons or Cape Verde or Central African Republic or Chad or Chile or China or Colombia or Comoros or Comoro Islands or Comores or Mayotte or Congo or Zaire or Costa Rica or Cote d'Ivoire or Ivory Coast or Croatia or Cuba or Cyprus or Czechoslovakia or Czech Republic or Slovakia or Slovak Republic or Djibouti or French Somaliland or Dominica or Dominican Republic or East Timor or East Timur or Timor Leste or Ecuador or Egypt or United Arab Republic or El Salvador or Eritrea or Estonia or Ethiopia or Fiji or Gabon or Gabonese Republic or Gambia or Gaza or Georgia Republic or Georgian Republic or Ghana or Gold Coast or Greece or Grenada or Guatemala or Guinea or Guam or Guiana or Guyana or Haiti or Honduras or Hungary or India or Maldives or Indonesia or Iran or Iraq or Isle of Man or Jamaica or Jordan or Kazakhstan or Kazakh or Kenya or Kiribati or Korea or Kosovo or Kyrgyzstan or Kirghizia or Kyrgyz Republic or Kirghiz or Kirgizstan or Lao PDR or Laos or Latvia or Lebanon or Lesotho or Basutoland or Liberia or Libya or Lithuania or Macedonia or Madagascar or Malagasy Republic or Malaysia or Malaya or Malay or Sabah or Sarawak or Malawi or Nyasaland or Mali or Malta or Marshall Islands or Mauritania or Mauritius or Agalega Islands or Mexico or Micronesia or Middle East or Moldova or Moldavia or Moldovian or Mongolia or Montenegro or Morocco or Ifni or Mozambique or Myanmar or Myanma or Burma or Namibia or Nepal or Netherlands Antilles or New Caledonia or Nicaragua or Niger or Nigeria or Northern Mariana Islands or Oman or Muscat or Pakistan or Palau or Palestine or Panama or Paraguay or Peru or Philippines or Philipines or Phillipines or Phillipines or Poland or Portugal or Puerto Rico or Romania or Rumania or Roumania or Russia or Russian or Rwanda or Ruanda or Saint Kitts or St Kitts or Nevis or Saint Lucia or St Lucia or Saint Vincent or St Vincent or Grenadines or Samoa or Samoan Islands or Navigator Island or Navigator Islands or Sao Tome or Saudi Arabia or Senegal or Serbia or Montenegro or Seychelles or Sierra Leone or Slovenia or Sri Lanka or Ceylon or Solomon Islands or Somalia or South Africa or Sudan or Suriname or Surinam or Swaziland or Syria or Tajikistan or Tadzhikistan or Tadzhik or Tanzania or Thailand or Togo or Togolese Republic or Tonga or Trinidad or Tobago or Tunisia or Turkey or Turkmenistan or Turkmen or Uganda or Ukraine or Uruguay or USSR or Soviet Union or Union of Soviet Socialist Republics or Uzbekistan or Uzbek or Vanuatu or New Hebrides or Venezuela or Vietnam or Viet Nam or West Bank or Yemen or Yugoslavia or Zambia or Zimbabwe or Rhodesia).hw,kw,ti,ab,cp.

89 ((developing or less* developed or under developed or underdeveloped or middle income or low* income or underserved or under served or deprived or poor*) adj (countr* or nation? or population? or world)).ti,ab.

90 ((developing or less* developed or under developed or underdeveloped or middle income or low* income) adj (economy or economies)).ti,ab.

91 (low* adj (gdp or gnp or gross domestic or gross national or resource)).ti,ab.

92 (low adj3 middle adj3 countr*).ti,ab.

93 (lmic or lmics or third world or lami countr*).ti,ab.

94 transitional countr*.ti,ab.

95 Poverty/ or Poverty Area/ or Vulnerable Populations/ or Socioeconomic Factors/ or exp Homeless Persons/ or Social Class/ or Health Status Disparities/ or Healthcare Disparities/ or Residence Characteristics/

96 ((low income* or low pay or low* paid or poor or depriv* or disadvantaged) adj2 (people or person or persons or population* or commun* or neighbourhood* or neighborhood* or areas or famil*)).ti,ab.

97 ((socioeconomic or socio-economic or SES) adj2 (low* or high* or depriv* or status or factors)).ti,ab.
98 (wealth* or poverty or well educated or better educated or impoverished).ti,ab.
99 (education* adj2 (level or attainment)).ti,ab.
100 ((neighbourhood* or neighborhood*) adj2 (characteristics or factors or high-risk)).ti,ab.
101 (ethnic* or race or racial* or racis* or socioeconomic or socio-economic or SES or income*).ti.
102 or/86-101 [LOW RESOURCE]
103 79 and 85 and 102
104 conference abstract.pt.
105 103 not 104 [CONFERENCE ABSTRACTS REMOVED]
106 105 use cctr
107 105 use coch
108 105 use dare
109 105 use clhta

Disparities in Education (EIT new: EvUp)

Pubmed

Updated 30 Aug 2020 Last 1 year = 43 results

(((("Cardiopulmonary Resuscitation"[MeSH Terms] OR "out-of-hospital cardiac arrest"[MeSH Terms] OR "Defibrillators"[Mesh] OR resuscitation[tiab] OR resuscitate[tiab] OR resuscitated[tiab] OR CPR[tiab] OR BCPR[tiab] OR AED[tiab] OR "Automated External Defibrillator"[tiab] OR "Automated External Defibrillators"[tiab] OR "out of hospital cardiac arrest"[tiab]))) AND ((Bystander[tiab] OR bystanders[tiab] OR layperson[tiab] OR laypeople[tiab] OR laypersons[tiab])))) AND (((("Health education"[mesh] OR "Certification"[Mesh] OR Methods[sh] OR education[sh] OR education[tiab] OR training[tiab] OR trained[tiab] OR train[tiab] OR educated[tiab] OR educating[tiab] OR educates[tiab] OR educate[tiab] OR certification[tiab] OR certificate[tiab] OR certified[tiab] OR certify[tiab]))) AND ((("Healthcare disparities"[mesh] OR "Sex factors"[mesh] OR "risk factors"[mesh] OR "Socioeconomic factors"[mesh] OR "Hispanic americans"[mesh] OR "African Americans"[mesh] OR disparity[tiab] OR disparities[tiab] OR socioeconomic[tiab] OR racial[tiab] OR race[tiab] OR ethnic[tiab] OR gender[tiab] OR cultural[tiab] OR "African American"[tiab] OR black[tiab] OR latino[tiab] OR latinos[tiab] OR Hispanic[tiab] OR latinx[tiab] OR Latina[tiab] OR Asian[tiab] OR income[tiab] OR wealth[tiab] OR poverty[tiab] OR barrier[tiab] OR barriers[tiab] OR education[tiab] OR educational[tiab] OR educated[tiab])))

Spaced Learning (EIT 1601: SysRev)

Pubmed

Updated 30 Aug 2020 Last 1 year = 110 results

((((((((Emergency Treatment[MeSH Terms] OR Emergency responders[MeSH Terms] OR Life support care[MeSH Terms] OR resuscitation[MeSH Terms])) AND education[MeSH Subheading])) OR (((Advanced Life Saving[Text Word] OR ALS[Text Word] OR Advanced Life support[Text Word] OR basic lifesaving[Text Word] OR BLS[Text Word] OR basic life support[Text Word] OR cardiopulmonary resuscitation[Text Word] OR CPR[Text Word] OR emergency medical responder[Text Word] OR paramedic[Text Word] OR first aid[Text Word] OR lifeguard[Text Word] OR lifesaving[Text Word] OR resuscitation[Text Word]))) AND (education OR educat* OR training OR train* OR

certification OR certificat* OR learning OR learner* OR learn*)))) AND (((((Models, Educational[MeSH Terms]) AND time factors[MeSH Terms])) OR ((distributed practice*[Text Word] OR distributed learning[Text Word] OR episodic memor*[Text Word] OR learning schedul*[Text Word] OR train* frequenc*[Text Word] OR frequency[Text Word] OR modular[Text Word] OR module[Text Word] OR Spaced education[Text Word] OR Spaced learning[Text Word] OR spaced practice[Text Word] OR space train* OR top-up[Text Word] OR bolus[Text Word]))) OR ((bolus train*[Text Word] OR bolus learn*[Text Word] OR massed train*[Text Word] OR massed learning[Text Word] OR single session[Text Word])))) NOT ((letter[Publication Type] OR comment[Publication Type] OR case report[Publication Type])))

Sort by: Best Match Filters: Clinical Study; Clinical Trial; Clinical Trial Protocol; Clinical Trial, Phase I; Clinical Trial, Phase II; Clinical Trial, Phase III; Clinical Trial, Phase IV; Comparative Study; Controlled Clinical Trial; English Abstract; Evaluation Studies; Guideline; Meta-Analysis; Observational Study; Observational Study, Veterinary; Randomized Controlled Trial; Review; Systematic Reviews; Validation Studies

EMS experience and exposure (EIT 437: SysRev)

Medline, Embase, Cochrane

- 1 advanced trauma life support care/
- 2 emergency medical service*.ti,ab.
- 3 EMS.ti,ab.
- 4 exp Emergency Medical Technicians/
- 5 Emergency Medical Technician*.ti,ab.
- 6 EMT.ti,ab.
- 7 "transportation of patients"/
- 8 ambulance*.ti,ab.
- 9 paramedic*.ti,ab.
- 10 prehospital.ti,ab.
- 11 pre-hospital.ti,ab.
- 12 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11
- 13 CPR.ti,ab.
- 14 exp Heart Massage/
- 15 exp cardiopulmonary resuscitation/
- 16 exp Electric Countershock/
- 17 13 or 14 or 15 or 16
- 18 exp Heart Arrest/
- 19 exp Ventricular Fibrillation/
- 20 exp Tachycardia, Ventricular/
- 21 18 or 19 or 20
- 22 exp Intubation, Intratracheal/
- 23 exp Laryngeal Masks/
- 24 Noninvasive Ventilation/
- 25 exp Epinephrine/
- 26 exp Drug Therapy/
- 27 22 or 23 or 24 or 25 or 26
- 28 21 and 27
- 29 17 or 28
- 30 experien*.ti,ab.
- 31 exposure*.ti,ab.

32 exp Health Knowledge, Attitudes, Practice/
33 exp Physician's Practice Patterns/
34 exp professional practice/
35 exp Nurse's Practice Patterns/
36 exp "Practice (Psychology)"/
37 novice*.ti,ab.
38 expert*.ti,ab.
39 exp Workload/
40 exp Professional Competence/
41 exp Benchmarking/
42 exp Psychomotor Performance/
43 30 or 31 or 32 or 33 or 34 or 35 or 36 or 37 or 38 or 39 or 40 or 41 or 42
44 12 and 29 and 43
45 letter.pt.
46 comment.pt.
47 editorial.pt.
48 review.pt.
49 45 or 46 or 47 or 48
50 44 not 49

Cognitive aids during resuscitation education (EIT 629: SysRev)

Medline

1 Resuscitation/
2 Cardiopulmonary Resuscitation/ or Advanced Cardiac Life Support/
3 Heart Massage/
4 Respiration, Artificial/ or Advanced Trauma Life Support Care/
5 resuscitat*.tw,kf.
6 Heart Arrest/
7 ((cardiac or heart or cardiopulmonary or cardio-pulmonary) adj2 arrest).tw,kf.
8 Anesthesia, General/ae or Anesthesia, Local/ae or Anesthetics, Local/ae or
Anesthetics, General/ae
9 or/1-8
10 Checklist/
11 (check list* or checklist* or mnemonic*).tw,kf.
12 Algorithms/
13 algorithm*.tw,kf.
14 (prompt or prompts).tw,kf.
15 cognitive aid*.tw,kf.
16 Reminder Systems/
17 reminder*.tw,kf.
18 aide memoire.mp.
19 Decision Support Techniques/
20 Decision Trees/
21 (decision adj3 (support or tree* or aid*)).tw,kf.
22 Medical Errors/pc
23 (error* adj4 (prevent* or manag* or decreas*)).tw,kf.
24 or/10-23
25 9 and 24
26 limit 25 to english language

Team and leadership training (EIT 631: SysRev)

Pubmed search string (2015 IS)

Updated 30 Aug 2020 Last 1 year = 44 results

(((((("Cardiopulmonary Resuscitation/education"[Mesh] OR "Cardiopulmonary Resuscitation/methods"[Mesh] OR Hunziker S[Author] OR "Advanced Cardiac Life Support "[Mesh] OR ACLS[TIAB] OR "advanced cardiac life support"[TIAB] OR "advanced life support"[TIAB] OR "advanced cardiopulmonary resuscitation"[TW] OR "advanced cardiovascular life support"[TW] OR "advanced resuscitation"[TW] OR "neonatal resuscitation program"[TW]))) AND ((("resuscitation/education"[Mesh] OR "Emergency Medicine/education"[Mesh] OR "Medicine/education"[Mesh] OR "Nursing/education"[Mesh] OR "Emergency Responders/education"[Mesh] OR "Emergency Medical Technicians/education"[Mesh] OR "Emergency Nursing/education"[Mesh] OR "Internal Medicine/education"[Mesh] OR "Emergency Treatment/education"[Mesh] OR "Education, Medical"[Mesh] OR "Education, Graduate"[Mesh] OR "Education, Medical, Undergraduate"[Mesh] OR "education"[mesh] OR "education"[TIAB] OR "Teaching"[Mesh] OR teach[TIAB] OR teaching[TIAB] OR teacher[TIAB] OR teachers[TIAB] OR "Inservice Training"[Mesh] OR "Learning"[Mesh] OR Inservice[TIAB] OR Train[TIAB] OR Training[TIAB] OR "course"[TIAB] OR "program"[TIAB] OR "Models, Educational"[Mesh] OR "Health Education/methods"[Mesh] OR "Curriculum"[Mesh] OR student[TIAB] OR students[TIAB]))) AND ((Leadership [Mesh] OR Leader* [TIAB] OR Lead [TIAB] OR Leads [TIAB] OR Lead's [TIAB] OR Leads' [TIAB] OR leading [TIAB] OR team* [TIAB]))) NOT (((animals[mh] NOT humans[mh]) NOT ("letter"[pt] OR "comment"[pt] OR "editorial"[pt] or Case Reports[ptyp]))))

Precourse preparation for advanced courses (EIT 637: SysRev)

PubMed 2014

Updated 30 Aug 2020 Last 1 year = 19 results

("technology-based"[TIAB] OR "computer-based"[TIAB] OR "internet-based"[TIAB] OR "web-based"[TIAB] OR "multimedia"[TIAB] OR "multi-media"[TIAB] OR "Internet"[Mesh] OR "computer simulation"[Mesh] OR "computer assisted instruction"[Mesh] OR "self-directed"[TIAB] OR "self directed"[TIAB] OR "elearning"[TIAB] OR "e-learning"[TIAB] OR "preinstruction"[TIAB] OR "pre-instruction"[TIAB] OR "pretest"[TIAB] OR "pre-test"[TIAB] OR "pretraining"[TIAB] OR "pre-training"[TIAB] OR "prepare"[TIAB] OR "preparation"[TIAB] OR "preparatory"[TIAB] OR "precourse"[TIAB] OR "pre-course"[TIAB] OR "precourses"[TIAB] OR "flipped"[TIAB] OR "before"[TIAB] OR "prior"[TIAB]) AND ((("Advanced Cardiac Life Support "[Mesh] OR "ACLS"[TIAB] OR "advanced cardiac life support"[TIAB] OR "advanced life support"[TIAB] OR "advanced cardiopulmonary resuscitation"[TW] OR "advanced cardiovascular life support"[TW] OR "advanced resuscitation"[TW] OR "paediatric life support"[TIAB] OR "pediatric life support"[TIAB] OR "APLS"[TIAB] OR "paediatric advanced life support"[TIAB] OR "PALS"[TIAB] OR "pediatric advanced life support"[TIAB] OR "advanced trauma life support care"[Mesh] OR "advanced trauma life support"[TIAB] OR "ATLS"[TIAB]) AND ("advanced cardiac life support/education"[Mesh] OR "resuscitation/education"[Mesh] OR "Emergency Medicine/education"[Mesh] OR "Medicine/education"[Mesh] OR "Nursing/education"[Mesh] OR "Emergency Responders/education"[Mesh] OR "Emergency Medical Technicians/education"[Mesh] OR "Emergency Nursing/education"[Mesh] OR "Internal Medicine/education"[Mesh] OR "Emergency Treatment/education"[Mesh] OR

"Education, Medical"[Mesh] OR "Education, Graduate"[Mesh] OR "Education, Medical, Undergraduate"[Mesh] OR "education"[mesh] OR "education"[TIAB] OR "Teaching"[Mesh] OR teach[TIAB] OR "teaching"[TIAB] OR "teacher"[TIAB] OR "teachers"[TIAB] OR "Learn"[TIAB] OR "Learning"[Mesh] OR "Train"[TIAB] OR "Training"[TIAB] OR "course"[TIAB] OR "courses"[TIAB] OR "class"[TIAB] OR "classes"[TIAB] OR "program"[TIAB] OR "programs"[TIAB] OR "Models, Educational"[Mesh] OR "Health Education/methods"[Mesh] OR "Curriculum"[Mesh])) NOT ("animals"[MeSH Terms] NOT "humans"[MeSH Terms]) NOT ("letter"[pt] OR "comment"[pt] OR "editorial"[pt] OR Case Reports[ptyp])

Rapid Response Systems in Adults (EIT 638: SysRev)

Database: Ovid MEDLINE(R) <1946 to November Week 5 2019>

Search Strategy:

- 1 exp Hospital Rapid Response Team/ (716)
- 2 (code blue or code team or medical emergency team or medical emergency teams or medical emergency response team or rapid response system or rapid response systems or rapid-response system or rapid-response systems or rapid-response team or rapid-response teams or rapid response team or rapid response teams or modified early warning score or early warning score or early warning scoring or critical care outreach or "patient at risk team" or patient care team or "track and trigger" or early warning system or icu outreach).ti,ab.
(3133)
- 3 1 or 2 (3339)
- 4 exp Heart Arrest/ (46333)
- 5 (cardiac arrest or cardiac arrests or cardiovascular arrest or heart arrest or heart arrests or asystole or cardiopulmonary arrest or cardiopulmonary arrests or respiratory arrest).ti,ab.
(34315)
- 6 4 or 5 (59835)
- 7 3 and 6 (585)
- 8 exp animals/ not humans.sh. (4646734)
- 9 7 not 8 (585)
- 10 exp Child/ (1864382)
- 11 exp Infant/ (1115204)
- 12 exp Adolescent/ (1973990)
- 13 10 or 11 or 12 (3473214)
- 14 9 not 13 (488)
- 15 letter.pt. (1003049)
- 16 comment.pt. (763474)
- 17 editorial.pt. (455591)
- 18 case reports.pt. (1962790)
- 19 15 or 16 or 17 or 18 (3398096)
- 20 14 not 19 (427)
- 21 limit 20 to yr="1990 -Current" (425)
- 22 exp Hospital Rapid Response Team/ (716)
- 23 (code blue or code team or medical emergency team or medical emergency teams or medical emergency response team or rapid response system or rapid response systems or rapid-response system or rapid-response systems or rapid-response team or rapid-response teams or rapid response team or rapid response teams or modified early warning score or early warning score or early warning scoring or critical care outreach or "patient at risk team"

or patient care team or "track and trigger" or early warning system or icu outreach).ti,ab.
(3133)

24 22 or 23 (3339)

25 exp Heart Arrest/ (46333)

26 (cardiac arrest or cardiac arrests or cardiovascular arrest or heart arrest or heart arrests or asystole or cardiopulmonary arrest or cardiopulmonary arrests or respiratory arrest).ti,ab.
(34315)

27 25 or 26 (59835)

28 24 and 27 (585)

29 exp animals/ not humans.sh. (4646734)

30 28 not 29 (585)

31 exp Child/ (1864382)

32 exp Infant/ (1115204)

33 exp Adolescent/ (1973990)

34 31 or 32 or 33 (3473214)

35 30 not 34 (488)

36 letter.pt. (1003049)

37 comment.pt. (763474)

38 editorial.pt. (455591)

39 case reports.pt. (1962790)

40 36 or 37 or 38 or 39 (3398096)

41 35 not 40 (427)

42 limit 41 to yr="1990 -Current" (425)

Database: Ovid MEDLINE(R) Daily Update <December 04, 2019>, Ovid MEDLINE(R)
Epub Ahead of Print and In-Process & Other Non-Indexed Citations <December 06, 2019>
Search Strategy:

1 exp Hospital Rapid Response Team/ (3)

2 (code blue or code team or medical emergency team or medical emergency teams or medical emergency response team or rapid response system or rapid response systems or rapid-response system or rapid-response systems or rapid-response team or rapid-response teams or rapid response team or rapid response teams or modified early warning score or early warning score or early warning scoring or critical care outreach or "patient at risk team" or patient care team or "track and trigger" or early warning system or icu outreach).ti,ab.
(674)

3 1 or 2 (674)

4 exp Heart Arrest/ (40)

5 (cardiac arrest or cardiac arrests or cardiovascular arrest or heart arrest or heart arrests or asystole or cardiopulmonary arrest or cardiopulmonary arrests or respiratory arrest).ti,ab.
(4946)

6 4 or 5 (4965)

7 3 and 6 (71)

8 exp animals/ not humans.sh. (2146)

9 7 not 8 (71)

10 exp Child/ (970)

11 exp Infant/ (522)

12 exp Adolescent/ (1156)

13 10 or 11 or 12 (1902)

14 9 not 13 (71)

End of course testing vs continuous assessment (EIT 643: SysRev)

CINAHL / MEDLINE / PsycINFO (search strings identical)

S1: (MH "Resuscitation") OR(MH "EmergencyTreatment") OR TI ((Cardi*OR "heart arrest" ORdefibrillat* OR neonat*) N6resuscitation) OR TI ((basicOR advanced OR neonat*OR trauma* OR pediatric*OR paediatric* OR cardi*OR heart) N3 "life support")OR AB ((Cardi* OR "heartarrest" OR defibrillat* ORneonat*) N6 resuscitation)OR AB ((basic OR advancedOR neonat* OR trauma* ORpediatric* OR paediatric* ORcardi* OR heart) N3 "lifesupport")

S2: (MH "Education") OR (MH"Education, Medical") OR(MH "Teaching") OR (MH"Learning") OR (MH"Models, Educational") OR(MH "Resuscitation+/ED")OR TI (educat* OR teach*OR learn* OR train* ORcourse* OR class* ORprogram*) OR AB (educat*OR teach* OR learn* ORtrain* OR course* OR class*OR program*)

S3: S1 AND S2

S4: TI ((education* OR learn*OR teach* OR train* ORcourse* OR class* ORprogram OR modul* ORmodel* OR continuous ORongoing OR final ORformative OR summative)N30 (outcome OR assess*OR evaluat* OR exam* ORtest* OR question* ORmeasur*)) OR AB((education* OR learn* ORteach* OR train* OR course*OR class* OR program ORmodul* OR model* ORcontinuous OR ongoing ORfinal OR formative ORsummative) N3 (outcomeOR assess* OR evaluat* ORExam* OR test* ORquestion* OR measur*)) ORTI (testing OR feedback OR "end of course") OR AB(testing OR feedback OR"end of course") OR TI((after OR post) N3 (course*OR class* OR program* ORmodul* OR train*)) OR AB((after OR post) N3 (course*OR class* OR program* ORmodul* OR train*))

S5: S3 AND S4

S6: TI (continuous OR ongoingOR final or "end of course")OR AB (continuous ORongoing OR final or "end ofcourse") OR TI ((after ORpost) N3 (course* OR class*OR program* OR modul* ORtrain*)) OR AB ((after ORpost) N3 (course* OR class*OR program* OR modul* ORtrain*))

S7: S5 AND S6

VR, AR and Gamified Learning (EIT new: EvUp)

Updated 30 Aug 2020 Last 1 year = 20 results

("CPR Training"[All Fields] OR "cardiopulmonary resuscitation"[All Fields] OR "basic life support"[All Fields] OR "Advanced Life Support"[All Fields] OR "Chest compressions"[All Fields] OR "resuscitation"[All Fields] OR "Cardiac massage"[All Fields] OR "Cardiac life support"[All Fields] OR "Code blue"[All Fields] OR "cardiac arrest"[All Fields]) AND ("augmented reality"[All Fields] OR "virtual reality"[All Fields] OR "HTC Vive"[All Fields] OR "Oculus Rift"[All Fields] OR Cardboard[All Fields] OR "mixed reality"[All Fields] OR "hololens"[All Fields] OR "VR Sim"[All Fields] OR "VR/AR"[All Fields] OR "VR App"[All Fields] OR "Virtual scenarios"[All Fields] OR "gamified"[All Fields] OR "gamification"[All Fields] OR "serious games"[All Fields] OR "second life"[All Fields])

In Situ Training (EIT new: EvUp)

(Medline on Ovid Platform):

1. in situ.mp.
2. clinical setting.mp.
3. learning environment.mp.
4. 1 or 2 or 3
5. life support.mp.

6. exp Resuscitation/ or resuscitation.mp. or exp Cardiopulmonary Resuscitation/
7. CPR.mp. or exp Cardiopulmonary Resuscitation/
8. training.mp.
9. simulat*.mp.
10. 5 or 6 or 7 or 8 or 9
11. 4 and 10
12. limit 11 to yr="2013 -Current"
13. letter/
14. case report.tw.
15. cancer.mp. or exp Neoplasms/
16. 13 or 14 or 15
17. 11 not 16

Manikin Fidelity (EIT new: EvUp)

Updated 30 Aug 2020 Last 1 year = 31 results

((("education"[Subheading] OR "education"[All Fields] OR "educational status"[MeSH Terms] OR ("educational"[All Fields] AND "status"[All Fields]) OR "educational status"[All Fields] OR "education"[All Fields] OR "education"[MeSH Terms]) AND ((("resuscitation"[MeSH Terms] OR "resuscitation"[All Fields]) OR ((("life"[MeSH Terms] OR "life"[All Fields]) AND support[All Fields]))) AND (simulator[All Fields] OR ("manikins"[MeSH Terms] OR "manikins"[All Fields] OR "mannequin"[All Fields]) OR ("manikins"[MeSH Terms] OR "manikins"[All Fields] OR "manikin"[All Fields]))) AND (fidelity[All Fields] OR high-fidelity[All Fields] OR ((("physical examination"[MeSH Terms] OR ("physical"[All Fields] AND "examination"[All Fields]) OR "physical examination"[All Fields] OR "physical"[All Fields]) AND ("World AIDS Day Features"[Journal] OR "features"[All Fields])))

Debriefing of resuscitation performance (EIT 645: SysRev)

Updated 30 Aug 2020 Last 1 year = 99 results

((((((((heart arrest[MH] OR cardiopulmonary resuscitation[MH] OR "cardiac arrest"[TIAB] OR CPR[TIAB] OR "cardiopulmonary resuscitation"[TIAB] OR "advanced cardiac life support"[TIAB] OR "basic life support"[TIAB] OR "advanced life support"[TIAB] OR "heart arrest"[TIAB] OR "ventricular fibrillation"[TIAB] OR ACLS[TIAB] OR Ventricular Fibrillation[MH] OR "asystole"[TW] OR "pulseless electrical activity"[TW]))) AND ((Briefing[TW] OR Debriefing[TW] OR Briefings[TW] OR Debriefings[TW] OR debrief[TW] OR "Audiovisual Aids"[Mesh:NoExp] OR "Video Recording"[Mesh]OR "Feedback"[Mesh:NoExp] OR feedback[TIAB] OR "feed back"[TIAB] OR "performance review"[TW] OR "performance evaluation"[TW])))) NOT ((animals[mh] NOT humans[mh]) NOT ("letter"[pt] OR "comment"[pt] OR "editorial"[pt] or Case Reports[ptyp])))) NOT ((("instrumentation" [Subheading] OR "Monitoring, Physiologic"[Mesh:NoExp]))

CPR feedback devices during training (EIT 648: SysRev)

Updated 30 Aug 2020 Last 1 year = 79 results

((((((((((((((((((((((("feedback, sensory"[mesh] OR "feedback device"[tiab]) OR "feedback"[MeSH Terms]) OR feedback[tiab]) OR feed-back[tiab]) OR guidance[tiab]) OR e-learning[tiab]) OR elearning[tiab]) OR prompt[tiab]) OR prompts[tiab]) OR prompting[tiab]) OR prompted[tiab]) OR "real-time"[tiab]) OR

video[tiab]) OR "Video Recording"[mesh]) OR "audio visual"[tiab]) OR "audiovisual"[tiab]) OR "audiovisual aids"[tiab]) OR "audio-visual aids"[tiab]) OR "virtual realities"[tiab]) OR "virtual reality"[tiab]) OR "cpr-plus"[tiab]) OR "q-cpr"[tiab]) OR "cpr-sensing"[tiab]) OR "cprezy"[tiab]) OR "cpr-ezy"[tiab]) OR "phone"[tiab]) OR "telephone"[tiab]) OR "Telephone"[Mesh]) OR "smartphone"[Mesh]) OR "smartphone"[tiab]) OR "smart phone"[tiab]) OR "smart-phone"[tiab]) OR "computer assisted instruction"[tiab]) OR "computer-assisted instruction"[tiab]) OR "Reinforcement, Verbal"[mesh]) OR "cardiopulmonary Resuscitation/instrumentation"[mesh]) OR "metronomes"[tiab]) OR metronome[tiab]) OR "cell phone"[mesh]) OR "smartphone"[mesh]) OR "patient simulation"[mesh])))) AND (((((("patient simulation"[mesh]) OR "computer simulation"[mesh]) OR "high fidelity simulation training"[mesh]) OR "simulation training"[mesh])) OR (((((((("cardiopulmonary resuscitation"[tiab]) OR "cardiopulmonary resuscitation"[mesh]) OR "cardio-pulmonary resuscitation"[tiab]) OR "cpr"[tiab]) OR "advanced cardiac life support"[tiab]) OR "acls"[tiab]) OR "basic life support"[tiab]) OR "bls"[tiab]) OR "mock cardiac arrest"[tiab]) OR "simulated cardiac arrest"[tiab]) OR "advanced life support"[tiab]) OR "cardiac arrest"[tiab]) OR "pediatric advanced life support"[tiab]) OR "paediatric advanced life support"[tiab]) OR "pals"[tiab)))) AND (((((((((((((("training[tiab]) OR "learning acquisition"[tiab]) OR "skill acquisition"[tiab]) OR retention[tiab]) OR "Retention (Psychology)"[mesh]) OR curriculum[mesh]) OR learners[tiab]) OR learner[tiab]) OR learning[tiab]) OR learn[tiab]) OR education[tiab]) OR "Learning"[mesh]) OR "Education, Professional"[mesh]) OR "Professional Competence"[mesh]) OR "students, health occupations"[mesh]) OR ("internship and residency"[mesh])) OR "Health Occupations/education"[mesh]) OR "Allied Health Occupations/education"[Mesh]) OR "Schools, health occupations"[mesh]) OR "Clinical competence"[mesh]) OR "Cardiopulmonary Resuscitation/education"[mesh)))) NOT (((("humans"[Mesh Terms]) OR "animals"[mesh terms]) OR letter[pt]) OR comment[pt]) OR editorial[pt]) OR "Case Reports"[ptyp])

Patient outcomes as a result of a member of the resuscitation team attending an ALS course (EIT new: SysRev)

Adolopment from published review:

- | | | |
|----|---------|--|
| 1 | Medline | "ADVANCED CARDIAC LIFE SUPPORT"/ed |
| 2 | Medline | "CARDIOPULMONARY RESUSCITATION"/ed |
| 3 | Medline | ((advanced OR adult) ADJ ("life support" OR resuscitation)).ti,ab |
| 4 | Medline | ("advanced cardiac life support" OR acls OR als OR "advanced life support").ti,ab |
| 6 | Medline | exp "HEALTH PERSONNEL"/ed |
| 7 | Medline | exp "NURSES' AIDES"/ |
| 8 | Medline | exp "PHYSICIAN ASSISTANTS"/ed |
| 9 | Medline | exp "MEDICAL STAFF"/ed |
| 10 | Medline | exp "NURSING STAFF"/ed |
| 12 | Medline | ((doctor* OR physician* OR nurse* OR midwife* OR midwife* OR clinician* OR consultant* OR internist* OR obstetrician* OR surgeon* OR "health care assistant*" OR "health care professional*" OR "healthcare professional" OR team* OR interprofessional* OR inter-professional* OR multi-professional* OR medical OR nursing OR staff) ADJ (train* OR teach* OR education*)).ti,ab |
| 13 | Medline | "COMPUTER SIMULATION"/ |
| 14 | Medline | "COMPUTER-ASSISTED INSTRUCTION"/ |

15	Medline	exp "EDUCATION, CONTINUING"/
16	Medline	exp "EDUCATION, PROFESSIONAL"/
17	Medline	exp "INSERVICE TRAINING"/
18	Medline	"PATIENT SIMULATION"/
19	Medline	"PROBLEM-BASED LEARNING"/
20	Medline	TEACHING/
21	Medline	((inservice OR in-service) ADJ (train* OR teach* OR education*).ti,ab
22	Medline	("continuing professional development" OR cpd).ti,ab
23	Medline	("problem based learning" OR "virtual learning").ti,ab
24	Medline	(6 OR 7 OR 8 OR 9 OR 10 OR 12)
25	Medline	(13 OR 14 OR 15 OR 16 OR 17 OR 18 OR 19 OR 20 OR 21 OR 22 OR 23)
5	Medline	(1 OR 2 OR 3 OR 4)
26	Medline	(24 AND 25 AND 5)

First Responder engaged by technology (EIT 878: SysRev)

Updated 30 Aug 2020 Last 1 year = 132 results

(((("Heart Arrest"[Mesh] OR "heart arrest*"[TIAB] OR "cardiac arrest*"[TIAB] OR "cardiovascular arrest*"[TIAB] OR "cardiopulmonary arrest*"[TIAB] OR "cardio-pulmonary arrest*"[TIAB] OR "Out-of-Hospital Cardiac Arrest*"[Mesh] OR OHCA OR "Out of Hospital Cardiac Arrest*"[TIAB] OR "Out-of-Hospital Cardiac Arrest*"[TIAB] OR "outside of hospital Cardiac Arrest "[TIAB]) OR (resuscitation [Mesh] OR resuscitation*[TIAB] OR "cardiopulmonary resuscitation"[Mesh] OR "cardiopulmonary resuscitation"[TIAB] OR "Cardio-Pulmonary Resuscitation" OR "Cardio Pulmonary Resuscitation" OR CPR [TIAB] OR "Life Support Care"[Mesh] OR "Basic Cardiac Life Support" OR "basic life support" OR "Cardiac Life Support" [TIAB] OR "cardiorespiratory resuscitation"[TIAB] OR "Heart Massage*"[Mesh] OR heart massage*[TIAB] OR cardiac massage*[TIAB] OR chest compression*[TIAB] OR cardiac compression*[TIAB])) AND (public[TIAB] OR bystander*[TIAB] OR "first responder*"[TIAB] OR "first-responder*"[TIAB] OR Layperson*[TIAB] OR "lay people"[TIAB] OR "lay rescuer*"[TIAB] OR witness*[TIAB] OR "Firefighters"[Mesh] OR Firefighter*[TIAB] OR "fire fighter" OR "fire fighters" OR "Police"[Mesh] OR Police[TIAB] OR "non-healthcare professional*"[TIAB]) AND (((internet [Mesh] OR web) AND (technology OR app OR application OR alert)) OR "global positioning system" OR "Social Media"[Mesh] OR "Social Media" OR "telecommunications"[tiab] OR "streaming video" OR "video streaming" OR twitter[tiab] OR Tweet[tiab] OR "social web" OR "social network" OR "social networking" OR "social software" OR "social medium" OR "instant messaging" OR "instant message" OR "IM"[tiab] OR "text message*" OR screencast* OR "video-sharing" OR "smart phone" OR "Phone app" OR "cell phone" OR VIMEO [tiab] OR "PulsePoint" OR "push technology" OR iGoogle[tiab] OR Web[tiab] OR "computer-generated phone call*" OR facebook OR instagram OR geolocation OR geolocation OR "you tube" OR whatsapp OR Geofencing OR "Global Navigation Satellite System" OR GNSS OR "taxi driver" OR "virtual reality" OR "Recruitment system" OR "GoodSam app" OR DAE OR RespondER OR "smart watch" OR "AEDMAP"))))

Methods of Glucose Administration for Hypoglycemia (FA 1585: SysRev) NEW

De Buck E, Borra V, Carlson J, Zideman D, Singletary E, Djärv T. First aid glucose administration routes for symptomatic hypoglycaemia. The Cochrane database of systematic reviews. 2019;4:CD013283.

OVID Medline

1 Hypoglycemia/

2 (Hypoglycemi* or hypoglycaemi*).tw,kf.

3 Healthy Volunteers/

4 (healthy participant or healthy participants or healthy subject or healthy subjects or healthy volunteer or healthy volunteers or human volunteer or human volunteers or normal volunteer or normal volunteers).tw,kf.

5 healthy people.tw,kf.

6 healthy persons.tw,kf.

7 1 or 2 or 3 or 4 or 5 or 6

8 Glucose/

9 (glucose or sugar).tw,kf.

10 8 or 9

11 drug administration routes/ or administration, inhalation/ or exp administration, oral/ or Administration, Rectal/

12 administ*.tw,kf.

13 11 or 12

14 (buccal* or sublingual* or oral* or by mouth or rectal* or tablet* or liquid* or gel or gels or sachet* or spray or sprays or tongue or cheek or swallow* or administration route*).tw,kf.

15 Solutions/

16 Tablets/

17 Cheek/

18 Gels/

19 14 or 15 or 16 or 17 or 18

20 7 and 10 and 13 and 19

21 limit 20 to (case reports or comment or congresses or editorial or letter)

22 20 not 21

23 22 not (animals/ not humans/)

24 remove duplicates from 23

Dietary sugars for treatment of hypoglycemia (FA 795: EvUp)

MEDLINE

Updated 30 Aug 2020 2019-2020 = 119 results

("Hypoglycemia"[Mesh:NoExp] OR Hypoglycem*[TIAB] OR Hypoglycaem*[TIAB] OR "low blood sugar"[TIAB] OR "insulin reaction"[TIAB] OR "insulin reactions"[TIAB] OR "plasma glucose"[TIAB]) AND ((("Glucose"[Mesh:NoExp] OR "glucose tablets"[TIAB] OR "glucose tablet"[TIAB] OR Dextrose[TIAB] OR "Fructose"[Mesh] OR Fructose[TIAB] OR "Sucrose"[Mesh] OR sucrose[TIAB] OR "Dietary Carbohydrates"[Mesh] OR "Carbohydrates"[Mesh:NoExp] OR Carbohydrate*[TIAB] OR Sugar*[TIAB] OR "Candy"[Mesh:NoExp] OR Candy[TIAB] OR Lolly[TIAB] OR lollie[TIAB] OR sweets[TIAB] OR "Tablets"[Mesh:NoExp] OR Juice[TIAB] OR "Beverages"[Mesh] OR "oral glucose"[TIAB] OR "Gels"[Mesh:NoExp] OR gel[TIAB] OR gels[TIAB] OR paste*[TIAB] OR honey[Mesh] OR honey[TIAB] OR icing[TIAB]) AND ("Dosage

Forms"[Mesh] OR "Emergency Treatment"[Mesh:NoExp] OR "First Aid"[Mesh] OR "first aid"[TIAB] OR "first-aid"[TIAB] OR "Treatment Outcome"[Mesh] OR efficacy[TIAB] OR Treatment*[TI] OR Treat[TI]) AND ("Diabetes Mellitus"[Mesh] OR diabet*[TIAB]) NOT ("Hemodialysis Solutions"[Mesh] OR Hemodialysis[TIAB] OR dialysis[TIAB] OR "Administration, Intravenous"[Mesh] OR intravenous*[TIAB] OR venous[TIAB]) NOT (animals[mesh] NOT humans[mesh]) NOT ("letter"[Publication Type] OR "comment"[Publication Type] OR "editorial"[Publication Type] or Case Reports[Publication Type])

Search date limit: 28 April 2016 – 25 June 2019

Heat stroke cooling (FA 1548: SysRev) NEW

Douma MJ, Aves T, Allan K, Bendall JC, Berry D, Chang WT, Epstein J, Hood N, Singletary EM, Zideman D, Lin S; First Aid Task Force of the International Liaison Committee on Resuscitation. First aid cooling techniques for heat stroke and exertional hyperthermia: a systematic review and meta-analysis. Resuscitation 2020 148:173-190

Database: Ovid MEDLINE: Epub Ahead of Print, In-Process & Other Non-Indexed

Citations, Ovid MEDLINE® Daily and Ovid MEDLINE® <1946-Present>

- 1 exp Heat Stroke/
- 2 heat exhaustion/
- 3 heat stroke*.tw,kf.
- 4 heatstroke*.tw,kf.
- 5 heat exhaustion.tw,kf.
- 6 (sunstroke* or sun stroke*).tw,kf.
- 7 ((exertion or exertional or exercis* or sport or sports or athlete* or running or runner*) and hyperthermia*).tw,kf.
- 8 ((exertion or exertional or exercis* or sport or sports or athlete* or running or runner*) and hyperthermic).tw,kf.
- 9 ((exertion or exertional or exercis* or sport or sports or athlete* or running or runner*) and heat illness).tw,kf.
- 10 ((exertion or exertional or exercis* or sport or sports or athlete* or running or runner*) and heat related illness).tw,kf.
- 11 or/1-10
- 12 exp Cryotherapy/
- 13 Cold Temperature/
- 14 Immersion/
- 15 ice/
- 16 First Aid/
- 17 emergency treatment/
- 18 cooling.tw,kf.
- 19 cold.tw,kf.
- 20 cool.tw,kf.
- 21 cooled.tw,kf.
- 22 conduction.tw,kf.
- 23 conductive.tw,kf.
- 24 evaporation.tw,kf.
- 25 evaporative.tw,kf.
- 26 convection.tw,kf.
- 27 convective.tw,kf.
- 28 first aid.tw,kf.

29 ice.tw,kf.
30 immersion.tw,kf.
31 or/12-30
32 11 and 31
33 limit 32 to (comment or editorial or letter)
34 32 not 33
35 34 not (animals/ not humans/)
36 remove duplicates from 35

Recognition of anaphylaxis by first aid providers (FA 513: ScopRev)

Database: EBM Reviews - Cochrane Database of Systematic Reviews <2005 to October 16, 2019>, EBM Reviews - ACP Journal Club <1991 to September 2019>, EBM Reviews - Database of Abstracts of Reviews of Effects <1st Quarter 2016>, EBM Reviews - Cochrane Clinical Answers <August 2019>, EBM Reviews - Cochrane Central Register of Controlled Trials <September 2019>, EBM Reviews - Cochrane Methodology Register <3rd Quarter 2012>, EBM Reviews - Health Technology Assessment <4th Quarter 2016>, EBM Reviews - NHS Economic Evaluation Database <1st Quarter 2016>, Embase <1974 to 2019 October 21>, Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily <1946 to October 21, 2019>

Search strategy for the databases listed above:

-
- 1 ((recogni* or knowledge* or skill* or educat* or information* or train*) adj5 (anaphyla* or epinephrin* or adrenalin* or epi-pen* or epipen*)).tw,kf. (2403)
 - 2 ((underus* or under-us* or underutili* or under-utili*) adj5 (anaphyla* or epinephrin* or adrenalin* or epi-pen* or epipen*)).tw,kf. (280)
 - 3 ((comfort* or discomfort* or dis-comfort* or uncomfortable or confiden* or empower*) adj5 (anaphyla* or epinephrin* or adrenalin* or epi-pen* or epipen*)).tw,kf. (245)
 - 4 (manage* adj2 anaphyla*).tw,kf. (1353)
 - 5 or/1-4 (3656)
 - 6 Patient Education as Topic/ (184100)
 - 7 Self Administration/ (22935)
 - 8 Self-Management/ (46377)
 - 9 (layperson* or lay-person* or laypeople* or lay-people* or nonprofessional* or non-professional*).tw,kf. (15545)
 - 10 (parent or parents or parental or communit* or teacher* or caregiver* or care-giver* or personnel* or school* or child care worker* or childcare worker* or aide*).tw,kf. (2835809)
 - 11 (patient* adj4 (educat* or train* or manage* or instruct* or confiden* or complian* or adheren*)).tw,kf. (771082)
 - 12 self-manage*.tw,kf. (52188)
 - 13 First Aid/ (16804)
 - 14 Emergency Medical Technicians/ (12950)
 - 15 (first aid* or first respon* or EMT or emergency medical technician* or paramedic* or para-medic* or ambulance*).tw,kf. (112286)
 - 16 or/6-15 (3834288)
 - 17 5 and 16 (1321)
 - 18 exp Animals/ not (exp Animals/ and Humans/) (17905487)
 - 19 17 not 18 [ANIMAL-ONLY REMOVED] (786)
 - 20 (comment or editorial or news or newspaper article).pt. (1997021)
 - 21 19 not 20 [OPINION PIECES REMOVED] (778)

- 22 21 use ppez [MEDLINE RECORDS] (369)
- 23 ((recogni* or knowledge* or skill* or educat* or information* or train*) adj5
(anaphyla* or epinephrin* or adrenalin* or epi-pen* or epipen*).tw,kw. (2447)
- 24 ((underus* or under-us* or underutili* or under-utili*) adj5 (anaphyla* or epinephrin*
or adrenalin* or epi-pen* or epipen*).tw,kw. (280)
- 25 ((comfort* or discomfort* or dis-comfort* or uncomfortable or confiden* or
empower*) adj5 (anaphyla* or epinephrin* or adrenalin* or epi-pen* or epipen*).tw,kw.
(255)
- 26 (manage* adj2 anaphyla*).tw,kw. (1371)
- 27 or/23-26 (3714)
- 28 patient education/ (193460)
- 29 drug self administration/ (11097)
- 30 self medication/ (14746)
- 31 (layperson* or lay-person* or laypeople* or lay-people* or nonprofessional* or non-
professional*).tw,kw. (15613)
- 32 (parent or parents or parental or communit* or teacher* or caregiver* or care-giver* or
personnel* or school* or child care worker* or childcare worker* or aide*).tw,kw. (2849331)
- 33 (patient* adj4 (educat* or train* or manage* or instruct* or confiden* or complian* or
adheren*).tw,kw. (781043)
- 34 self-manage*.tw,kw. (53227)
- 35 layperson/ (391)
- 36 first aid/ (16804)
- 37 rescue personnel/ (7542)
- 38 (first aid* or first respon* or EMT or emergency medical technician* or paramedic* or
para-medic* or ambulance*).tw,kw. (113869)
- 39 or/28-38 (3839518)
- 40 27 and 39 (1337)
- 41 exp animal experimentation/ or exp animal model/ or exp animal experiment/ or
nonhuman/ or exp vertebrate/ (48858186)
- 42 exp human/ or exp human experimentation/ or exp human experiment/ (38944109)
- 43 40 not (41 not 42) [ANIMAL STUDIES REMOVED] (1326)
- 44 (editorial or conference abstract).pt. (4774625)
- 45 43 not 44 [OPINION PIECES, CONFERENCE ABSTRACTS REMOVED] (917)
- 46 45 use oemezd [EMBASE RECORDS] (478)
- 47 ((recogni* or knowledge* or skill* or educat* or information* or train*) adj5
(anaphyla* or epinephrin* or adrenalin* or epi-pen* or epipen*).tw,kw. (2447)
- 48 ((underus* or under-us* or underutili* or under-utili*) adj5 (anaphyla* or epinephrin*
or adrenalin* or epi-pen* or epipen*).tw,kw. (280)
- 49 ((comfort* or discomfort* or dis-comfort* or uncomfortable or confiden* or
empower*) adj5 (anaphyla* or epinephrin* or adrenalin* or epi-pen* or epipen*).tw,kw.
(255)
- 50 (manage* adj2 anaphyla*).tw,kw. (1371)
- 51 or/47-50 (3714)
- 52 Patient Education as Topic/ (184100)
- 53 Self Administration/ (22935)
- 54 Self-Management/ (46377)
- 55 (layperson* or lay-person* or laypeople* or lay-people* or nonprofessional* or non-
professional*).tw,kw. (15613)
- 56 (parent or parents or parental or communit* or teacher* or caregiver* or care-giver* or
personnel* or school* or child care worker* or childcare worker* or aide*).tw,kw. (2849331)

57 (patient* adj4 (educat* or train* or manage* or instruct* or confiden* or complian* or adheren*)).tw,kw. (781043)
58 self-manage*.tw,kw. (53227)
59 First Aid/ (16804)
60 Emergency Medical Technicians/ (12950)
61 (first aid* or first respon* or EMT or emergency medical technician* or paramedic* or para-medic* or ambulance*).tw,kw. (113869)
62 or/52-61 (3855626)
63 51 and 62 (1348)
64 conference abstract.pt. (3633022)
65 63 not 64 [CONFERENCE ABSTRACTS REMOVED] (942)
66 65 use coch [COCHRANE DATABASE OF SYSTEMATIC REVIEWS] (9)
67 65 use cctr [COCHRANE CENTRAL] (67)
68 65 use acp [ACP JOURNAL CLUB] (0)
69 65 use dare [DATABASE OF ABSTRACTS OF REVIEWS OF EFFECTS] (2)
70 65 use clcmr [COCHRANE METHODOLOGY REGISTER DATABASE] (0)
71 65 use clhta [HEALTH TECHNOLOGY ASSESSMENT DATABASE] (0)
72 65 use cleed [NATIONAL HEALTH SERVICE ECONOMIC EVALUATION DATABASE] (0)
73 22 or 46 or 66 or 67 or 68 or 69 or 70 or 71 or 72 [ALL DATABASES] (925)
74 remove duplicates from 73 [TOTAL UNIQUE RECORDS] (565)
75 74 use ppez [MEDLINE UNIQUE RECORDS] (37)
76 74 use oemezd [EMBASE UNIQUE RECORDS] (461)
77 74 use coch [COCHRANE DATABASE OF SYSTEMATIC REVIEWS UNIQUE RECORDS] (9)
78 74 use cctr [CENTRAL UNIQUE RECORDS] (56)
79 74 use acp [ACP JOURNAL CLUB UNIQUE RECORDS] (0)
80 74 use dare [DATABASE OF ABSTRACTS OF REVIEWS OF EFFECTS UNIQUE RECORDS] (2)
81 74 use clcmr [COCHRANE METHODOLOGY REGISTER DATABASE] (0)
82 74 use clhta [HEALTH TECHNOLOGY ASSESSMENT DATABASE] (0)
83 74 use cleed [NATIONAL HEALTH SERVICE ECONOMIC EVALUATION DATABASE] (0)

Second Dose of Epinephrine for Anaphylaxis (FA 500: ScopRev)

PubMed 1542 (all dates)

Updated 30 Aug 2020 Last 12 months = 39 results

(((((("multiple dose"[TI] or "multiple doses"[TI] or repeat[TI] or second dose[TI] or second doses[TI]) AND epinephrine[TI])))) OR (((((("Epinephrine"[Mesh] OR Epinephrine[TIAB] OR Adrenaline[TIAB] or adrenalin[TIAB])))) AND ((("administration and dosage" [Subheading] OR "therapeutic use" [Subheading>NoExp] OR "repeat epinephrine"[TIAB] OR dose[TIAB] OR dosage[TIAB] or doses[TIAB] or "second injection"[TIAB] or "next injection"[TIAB] or "2 injections"[TIAB] or "two injections"[TIAB] or Twinject[TIAB] or "additional injection"[TIAB] or "additional injections"[TIAB] OR "repeated injection"[TIAB] or "repeated injections"[TIAB] or "repeat injection"[TIAB] or "repeat injections"[TIAB] or multiple[TIAB])))) AND (((("Anaphylaxis"[Mesh] OR Anaphylaxis[TIAB] or anaphylactic[TIAB] or "severe allergic reaction"[TIAB] or "severe allergic reactions"[TIAB]) AND ("therapy" [Subheading>NoExp] OR "drug therapy" [Subheading] OR "prevention and control" [Subheading])))))) NOT ((animals[mh] NOT

humans[mh]) NOT ("letter"[pt] OR "comment"[pt] OR "editorial"[pt] or Case Reports[ptyp])
))

Stroke Recognition (FA 801: SysRev)

Database(s): MEDLINE(R) with PUBMED

Date search : 26/09/2019

#	Searches	Results
1	Stroke[MeSH Terms]	125634
2	acute[Title/Abstract]	1133443
3	#1 AND #2	30212
4	acute stroke*[Title/Abstract]	14610
5	acute cerebrovascular accident*[Title/Abstract]	200
6	#3 OR #4 OR #5	34856
7	scale*[Title/Abstract]	768820
8	score*[Title/Abstract]	855723
9	scoring[Title/Abstract]	75964
10	OR #7-#9	1445022
11	Time-to-Treatment[MeSH Terms]	5308
12	©[MeSH Terms]	1162338
13	time-to-treatment[Title/Abstract]	3325
14	recogn*[Title/Abstract]	723108
15	cognitive knowledge[Title/Abstract]	222
16	neurologic outcome*[Title/Abstract]	3587
17	neurologic status[Title/Abstract]	1837
18	OR #11-#17	1875735
19	#6 AND #10 AND #18	2185
20	animals[mh] NOT humans[mh]	4622905
21	"letter"[pt] OR "comment"[pt] OR "editorial"[pt] or Case Reports[ptyp]	3603162
22	#19 NOT #20 NOT #21	2098
23	"2014/01/01"[PDAT] : "2019/09/26"[PDAT]	6592744
24	#22 AND #23	1042

Supplementary Oxygen in Acute Stroke (FA 1549: SysRev) NEW

Database(s): Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations 1946 to October 15, 2019

#	Searches	Results Annotations
1	exp stroke/	125807
2	exp Brain Ischemia/	103686
3	exp Intracranial Hemorrhages/	68712
4	((Infarct* or h?emorrhag* or stroke*) adj2 (isch?mic or brain or cerebral or cerebrovascular or intracerebral or Intracranial or Subarachnoid or Lacunar)).ab,kf,ti.	123514
5	(acute cerebrovascular accident* or cerebral vascular accident*).ab,kf,ti.	1244
6	((h?emorrhag* or acute) adj1 stroke*).ab,kf,ti.	20730
7	transient isch?mic attack*.ab,kf,ti.	11088
8	or/1-7 279102	
9	Oxygen Inhalation Therapy/	13917
10	Hyperoxia/	3555
11	*Oxygen/	70938

12 Hypoxia/ 62599
 13 (Oxygen* adj1 (diffusion or supplement* or mask* or cannula or administration* or therap* or nocturnal or treatment or continuous)).ab,kf,ti. 20340
 14 eubaric hyperoxia.ab,kf,ti. 5
 15 (normobaric adj1 (oxygen or hyperoxia or therap* or treatment)).ab,kf,ti. 677
 16 or/9-15152610
 17 8 and 16 2935
 18 Hyperbaric oxygen.kf,ti. 5175
 19 Hyperbaric Oxygenation.kf,ti. 1972
 20 18 or 19 7011
 21 17 not 20 2779 I have removed articles if Hyperbaric Oxygen appears in the title or as one of the keywords. Please note that this is NOT recommended when doing a systematic review search as it might jeopardize the search recall.
 22 21 not (exp animals/ not humans/) 1572
 23 22 not ((exp infant/ or exp child/ or adolescent/) not exp adult/) 1217
 24 (case reports or comment or editorial or guideline or meta analysis or review or systematic review).pt. 5671927
 25 exp "Review Literature as Topic"/ 12758
 26 24 or 25 5679306
 27 23 not 26 778 Total number of hits

Early/late aspirin for chest pain (FA 586: SysRev)

Djarv T, Swain J M, Chang W, et al. (February 03, 2020) Early or First Aid Administration Versus Late or In-hospital Administration of Aspirin for Non-traumatic Adult Chest Pain: A Systematic Review. Cureus 12(2): e6862. doi:10.7759/cureus.6862
Search string OVID/PubMed

Revised search:

Updated 30 Aug 2020 Last 12 months = 14 results

(((((((("Chest Pain"[Mesh] OR "Chest Pain"[All Fields]OR "Angina Pectoris"[Mesh] OR "Myocardial Infarction/drug therapy*"[Mesh] OR "Myocardial Infarction/therapy*"[Mesh] OR "Chest Pain/drug therapy*"[Mesh] OR angina[TIAB]))) AND ((("Aspirin"[Mesh] OR "Aspirin/therapeutic use*"[Mesh] OR "Aspirin/administration & dosage*"[Mesh] OR "acetylsalicylic acid"[TIAB] OR "Aspirin"[All Fields]))) AND ((("Emergency Medical Services*"[Mesh] OR "Emergency Service, Hospital"[Mesh] OR "Emergency Treatment"[Mesh] OR "Emergencies"[Mesh] OR "prehospital"[TIAB] OR "pre-hospital"[TIAB] OR "ems"[All Fields] OR "out-of-hospital"[All Fields] OR "early"[All Fields] OR "earlier"[All Fields])))) AND (((((((("randomized controlled trial"[PT] OR "controlled clinical trial"[PT] OR "clinical trial"[PT] OR "comparative study"[PT] OR random*[TIAB] OR controll*[TIAB] OR "intervention study"[TIAB] OR "experimental study"[TIAB] OR "comparative study"[TIAB] OR trial[TIAB] OR evaluat*[TIAB] OR "Before and after"[TIAB] OR "interrupted time series"[TIAB]))) OR ((("Epidemiologic Studies"[Mesh] OR "case control"[TIAB] OR "case-control"[TIAB] OR ((case[TIAB] OR cases[TIAB]) AND (control[TIAB] OR controls[TIAB])) OR "cohort study"[TIAB] OR "cohort analysis"[TIAB] OR "follow up study"[TIAB] OR "follow-up study"[TIAB] OR "observational study"[TIAB] OR "longitudinal"[TIAB] OR "retrospective"[TIAB] OR "cross sectional"[TIAB] OR "cross-sectional"[TIAB] OR questionnaire[TIAB] OR questionnaires[TIAB] OR survey[TIAB])))) NOT ((("animals"[MH] NOT ("animals"[MH] AND "humans"[MH])))) NOT ((("letter"[pt] OR "comment"[pt] OR "editorial"[pt] OR "conference"[pt] OR "review" [pt]))))

AND English[lang]))

Presyncope (FA 798: SysRev)

Jensen JL, Ohshimo S, Cassan P, Meyran D, Greene J, Ng KC, et al. Immediate Interventions for Presyncope of Vasovagal or Orthostatic Origin: A Systematic Review. Prehospital Emergency Care. 2020;24(1):64-76.

Database(s): Ovid MEDLINE(R) Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R) 1946 to Present

#	Searches	Results
1	syncope/ or syncope, vasovagal/	12008
2	(Syncop or syncopal or syncope or syncopes or pre-syncope or presyncope).ab,kf,ti.	16797
3	(vasovagal adj1 (syncop* or episode* or symptom* or recurrent or repeat or attack* or collapse* or shock*)).ab,kf,ti.	1586
4	Tilt-Table Test/	2409
5	(Tilt-Table Test or tilt test* or Tilt-induced).ab,kf,ti.	2419
6	orthostatic intolerance/ or hypotension, orthostatic/ or Lower Body Negative Pressure/	6733
7	(orthostatic or orthostasis or drop attack* or lipothymia*).ab,kf,ti.	12022
8	VVS.ab,kf,ti.	508
9	((feeling or blood donor*) adj2 (faint* or Dizzy* or Dizzi*or Lighthead* or Light-Head* or Disequilibrium or dis-equilibrium or Vertigo or Discomfort)).ab,kf,ti.	247
10	(Lower body adj2 pressure).ab,kf,ti.	1641
11	1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10	35502
12	Valsalva Maneuver/	3907
13	(Valsalva or maneuver or maneuvers or manoeuvres or manœuvre).ab,kf,ti.	31604
14	counterman*.ab,kf,ti.	189
15	exp hypertonic solutions/ or isotonic solutions/ or rehydration solutions/	19916
16	water/ or drinking water/	148433
17	fluid therapy/ or hypodermoclysis/	18487
18	Drinking/	13598
19	((isotonic or isometric or hypertonic) adj1 solution*).ab,kf,ti.	3254
20	(water or waters).ab,kf,ti.	694552
21	(rehydration or re-hydration or hydration or drink or drinks or drinking).ab,kf,ti.	155430
22	exp Beverages/	121917
23	(fluid therap* or oral fluid replacement* or beverage* or milk or tea or coffee).ab,kf,ti.	166359
24	exp Exercise Therapy/	42846
25	Salts/	12755
26	Pressure/	68853
27	Hemodynamics/	132812
28	Baroreflex/	5624
29	(Hemodynamic or Hemodynamics).ab,kf,ti.	130671
30	(salts or pressure or posture or supine or postural change or trendelenburg or Squatting or standing or handgrip or counterpressure* or grip or gripping).ab,kf,ti.	904668
31	(leg adj2 cross*).ab,kf,ti.	485
32	exp Posture/	69334

33 Patient Positioning/ 4962
 34 ((Patient or dorsal or body) adj1 (position or positioning)).ab,kf,ti. 6572
 35 ((arm* or leg* or limb* or chest) adj2 (low* or elevat* or rais* or position*)).ab,kf,ti.
 61944
 36 Non?pharmacological*.ab,kf,ti. 3391
 37 ((arm or muscle or leg) adj1 (tensing or tension or counter pressure or exercise* or
 counterpressure*).ab,kf,ti. 5649
 38 (Abdominal adj1 (Compression or bandage*)).ab,kf,ti. 560
 39 (Inspiratory adj1 (sniffing or pursed lips breathing or obstruction)).ab,kf,ti.42
 40 Breathing Exercises/ or Respiratory Therapy/ or Compression Bandages/ or
 *Isometric Contraction/ 16011
 41 or/12-40 2192458
 42 treatment outcome/ or treatment failure/ or disease management/ 901322
 43 pc.fs. 1182586
 44 tu.fs. 2061208
 45 th.fs. 1698548
 46 (prevent or preventing or prevention).ab,kf,ti. 943678
 47 (improve or improved or improvement or improves).ab,kf,ti. 1846613
 48 (reduce or reduced or reduces or reducing or reduction).ab,kf,ti. 2802252
 49 (treat or treatment or therapy or therapies).ab,kf,ti. 4918547
 50 (ameliorate or effect* or benefit* or impact or efficacy).ab,ti. 7144588
 51 (intervention or interventions).ab,ti. 781522
 52 "standard of care".ab,kf,ti. 32293
 53 or/42-52 13274521
 54 Animals/ not (Animals/ and Humans/) 4433348
 55 (letter or comment or editorial).pt. 1637897
 56 case reports/ 1883228
 57 55 or 56 3323279
 58 11 and 41 and 53 9021
 59 58 not 54 8687
 60 59 not 57 7606

Optimal position for shock (FA 520: EvUp)

Search Strategy:

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((((("emergency medicine"[MeSH Terms] OR ("emergency"[All Fields] AND
"medicine"[All Fields]) OR "emergency medicine"[All Fields]) OR ("first aid"[MeSH
Terms] OR ("first"[All Fields] AND "aid"[All Fields]) OR "first aid"[All Fields])) OR
(first[All Fields] AND responder[All Fields])) OR ("emergency medical technicians"[MeSH
Terms] OR ("emergency"[All Fields] AND "medical"[All Fields] AND "technicians"[All
Fields]) OR "emergency medical technicians"[All Fields] OR "paramedic"[All Fields] OR
"allied health personnel"[MeSH Terms] OR ("allied"[All Fields] AND "health"[All Fields]
AND "personnel"[All Fields]) OR "allied health personnel"[All Fields])) OR ("triage"[MeSH
Terms] OR "triage"[All Fields])) AND ("shock"[MeSH Terms] OR "shock"[All Fields])) AND
((((("mortality"[Subheading] OR "mortality"[All Fields] OR "mortality"[MeSH
Terms]) OR ("mortality"[Subheading] OR "mortality"[All Fields] OR "survival"[All Fields]
OR "survival"[MeSH Terms])) OR ("length of stay"[MeSH Terms] OR ("length"[All Fields]
AND "stay"[All Fields]) OR "length of stay"[All Fields])) OR ("complications"[Subheading]
OR "complications"[All Fields])) OR ("death"[MeSH Terms] OR "death"[All Fields])) NOT

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("animals"[MH] NOT ("animals"[MeSH Terms] AND "humans"[MH])) NOT ("letter"[pt] OR "comment"[pt] OR "editorial"[pt] OR Case Reports[ptyp])

Revised search:

Updated 30 Aug 2020 Last 12 months = 11 results

((((("emergency medicine"[MeSH Terms] OR ("emergency"[All Fields] AND "medicine"[All Fields]) OR "emergency medicine"[All Fields]) OR ("first aid"[MeSH Terms] OR ("first"[All Fields] AND "aid"[All Fields]) OR "first aid"[All Fields])) OR (first[All Fields] AND responder[All Fields])) OR ("emergency medical technicians"[MeSH Terms] OR ("emergency"[All Fields] AND "medical"[All Fields] AND "technicians"[All Fields]) OR "emergency medical technicians"[All Fields] OR "paramedic"[All Fields] OR "allied health personnel"[MeSH Terms] OR ("allied"[All Fields] AND "health"[All Fields] AND "personnel"[All Fields]) OR "allied health personnel"[All Fields])) OR ("triage"[MeSH Terms] OR "triage"[All Fields])) AND ("shock"[MeSH Terms] OR "shock"[All Fields])) AND (((("mortality"[Subheading] OR "mortality"[All Fields] OR "mortality"[MeSH Terms]) OR ("mortality"[Subheading] OR "mortality"[All Fields] OR "survival"[All Fields] OR "survival"[MeSH Terms])) OR ("length of stay"[MeSH Terms] OR ("length"[All Fields] AND "stay"[All Fields]) OR "length of stay"[All Fields])) OR ("complications"[Subheading] OR "complications"[All Fields])) OR ("death"[MeSH Terms] OR "death"[All Fields])))) NOT ("animals"[MH] NOT ("animals"[MeSH Terms] AND "humans"[MH])) NOT ("letter"[pt] OR "comment"[pt] OR "editorial"[pt] OR Case Reports[ptyp]) AND ("patient positioning"[MeSH Terms] OR ("patient"[All Fields] AND "positioning"[All Fields]) OR "patient positioning"[All Fields] OR "positioning"[All Fields] OR "position"[All Fields] OR "position's"[All Fields] OR "positional"[All Fields] OR "positioned"[All Fields] OR "positionings"[All Fields] OR "positions"[All Fields])

Recovery Position (FA 517: ScopRev)

PubMed 2267 articles

Updated 30 Aug 2020 Last 12 months = 27 results

((((((((((Posture[MeSH Terms]) OR "Patient Positioning"[Mesh:NoExp]) OR patient position*[Title/Abstract]) OR body position*[Title/Abstract]) OR recovery position*[Title/Abstract]) OR lateral position*[Title/Abstract]) OR side-lying position*[Title/Abstract]) OR HAINES[Title/Abstract]) OR lateral recumbent[Title/Abstract])) AND (((((((((((((Unconsciousness[Mesh:NoExp]) OR Coma[Mesh:NoExp]) OR Syncope[MeSH Terms]) OR Shock[MeSH Terms]) OR Heart Arrest[MeSH Terms]) OR Cardiopulmonary Resuscitation[MeSH Terms]) OR unconscious*[Title/Abstract]) OR unresponsive*[Title/Abstract]) OR altered level of consciousness[Title/Abstract]) OR syncope[Title/Abstract]) OR coma[Title/Abstract]) OR comas[Title/Abstract]) OR shock[Title/Abstract]) OR heart arrest[Title/Abstract]) OR cardiac arrest[Title/Abstract]) OR cardiopulmonary arrest[Title/Abstract]) OR cardiovascular arrest[Title/Abstract]) OR resuscitation[Title/Abstract]) OR post-cardiac arrest[Title/Abstract]) OR postinfarct*[Title/Abstract]) OR post-infarct*[Title/Abstract])))) NOT ((animals[mh] NOT humans[mh]))) NOT ((("letter"[pt] OR "comment"[pt] OR "editorial"[pt] or Case Reports[ptyp])))

Control of life-threatening bleeding (Mega SysRev*6) NEW:

Direct pressure, pressure dressings, pressure points (FA 530)

Tourniquet vs. direct pressure, Tourniquet design, Manufactured vs. Improvised tourniquets (FA 768)

Hemostatic dressings vs direct pressure or tourniquet, Types of hemostatic dressings (FA 696)

Hemostatic devices: junctional tourniquets, Wound Clamp (FA NEW 2019)

Nathan P. Charlton, Janel M. Swain, Jan L. Brozek, Maja Ludwikowska, Eunice Singletary, David Zideman, Jonathan Epstein, Andrea Darzi, Anna Bak, Samer Karam, Zbigniew Les, Jestein N Carlson, Eddy Lang, Robby Nieuwlaat & On behalf of the International Liaison Committee on Resuscitation (ILCOR) First Aid Task Force (2020) Control of severe, life-threatening external bleeding in the out-of-hospital setting: a systematic review, Prehospital Emergency Care, 2020 DOI: 10.1080/10903127.2020.1743801

Database: Ovid MEDLINE(R) Epub Ahead of Print, In-Process & Other Non-Indexed

Citations, Ovid MEDLINE(R) Daily, Ovid MEDLINE and Versions(R)

- 1 (cool\$ or cryotherap\$ or ((local or superficial) adj2 hypotherm\$)).mp. (64966)
- 2 Cryotherapy/ (4794)
- 3 (icepack\$ or ice-pack\$ or coldpack\$ or cold-pack\$ or ice-bag\$ or ice bag\$).tw. (821)
- 4 ((cold or ice) adj2 (therapy or appli\$)).tw. (1478)
- 5 cold compression.tw. (53)
- 6 1 or 2 or 3 or 4 or 5 (66285)
- 7 Cryosurgery/ or Gastric Hypothermia/ or Colonic Polyps/surgery or Endoscopy, Digestive System/ or Bronchoscopy/ or Frostbite/ or Endoscopic therapy/ or Neoplasms/surgery or Surgical Oncology/ or Retinoblastoma/ or Retinal Neoplasms/ or Retina/su or Common Cold/ or Uterine Cervical Neoplasms/ or Uterine Cervical Dysplasia/ or Hypothermia, Induced Intraoperative.mp. (135564)
- 8 (cold forceps or cold snare or cold knife or cold surgery or cold avulsion or cold steel or polypectomy or cold ischemia or cold ischemic or cryoablation or cryoballoon or cold crystalloids or cold saline or cold injury or cold dissection or cold irrigation or cold agglutinin or cold sensation or cold sensitivity or cold threshold or systemic hypothermia or systemic cooling or cold perfusion or common cold or rhinovirus cold or cervical conization or (ifosfamide, carboplatin, and etoposide)).tw. (19994)
- 9 7 or 8 (150960)
- 10 6 not 9 (61809) Annotation: cold application updated
- 11 ((extremity or limb or area or part or leg or arm or hand) adj5 (elevat\$ or raise or lift)).tw. (7188) Annotation: elevation
- 12 Compression Bandages/ (788)
- 13 sandbag.tw. (51)
- 14 ((direct\$ or manual\$ or point or device or digital or wound or proximal\$) adj3 (compress\$ or press\$)).tw. (19787)
- 15 (bandag\$ or pressure dressing\$ or compression dressing\$ or Israeli dressing\$ or wound pack\$ or field dressing\$).tw. (6164)
- 16 12 or 13 or 14 or 15 (26175)
- 17 ("Negative pressure wound therapy" or "mechanical chest compression" or "sinus compression" or "nerve compression" or "pressure sore" or "pressure ulcer\$" or "chronic wound\$" or "venous ulcer\$" or "diabetic ulcer\$" or "varicose veins" or "varicose ulcer" or "varicosis wound" or "venous leg ulcer" or "ulcer healing").tw. (28631)
- 18 16 not 17 (23425) Annotation: Pressure Interventions
- 19 Tourniquets/ (3659)
- 20 tourniquet.tw. (5328)
- 21 (elastic\$ and (wrap\$ or strap)).tw. (362)
- 22 19 or 20 or 21 (6917)

- 23 Snake Bites/ (4342)
- 24 22 not 23 (6816) Annotation: Tourniquets
- 25 ((hemostatic or haemostatic) adj3 (agent or dressing or gauze or sponge or foam or bandage or technique or topical or powder or granul\$)).tw. (1901)
- 26 Poly-N-acetyl glucosamine.tw. (92)
- 27 25 and 26 (9)
- 28 chitosan.mp. or Chitosan/ (21787)
- 29 ((fibrin adj3 based) or fibrin-based).tw. (550)
- 30 (hemcon or quickclot or QuikClot or axiostat or celox or chitoflex or kaolin or zeolite).tw. (8320)
- 31 (Hemostatic Techniques/ or Hemostatics/) and (wound* or injur* or amputat* or avulsion* or bleed* or haemorrhag* or hemorrhag*).mp. (7309)
- 32 (XSTAT or XSTAT-30 or TraumaDex or BleedArrest or WoundStat or BioHemostat or ChitoGauze or Combat gauze or self-expanding hemostatic polymer or mrdh bandage or modified rapid deployment hemostat or TraumaStat or X-Sponge or InstaClot or BloodStop or PolyMem or ActCel).tw. (112)
- 33 25 or 27 or 28 or 29 or 30 or 31 or 32 (38699)
- 34 Aprotinin/ or Aminocaproates/ or Tranexamic Acid/ or tranexamic acid.tw. (13711)
- 35 33 not 34 (37996) Annotation: Hemostatic agents
- 36 (junctional tourniquet or truncal tourniquet or junctional hemorrhage device or junctional pressure device).tw. (24)
- 37 (Combat Ready Clamp or CRoC or Junctional Emergency Tool or JETT or SAM Junctional Tourniquet or SAM-JT or Abdominal Aortic Junctional Tourniquet or AAJT).tw. (74)
- 38 (wound clamp or iTClamp).tw. (12)
- 39 36 or 37 or 38 (97) Annotation: Prehospital methods to control truncal and junctional traumatic haemorrhage
- 40 10 or 11 or 18 or 24 or 35 or 39 (135863) Annotation: ALL UPDATED INTERVENTIONS
- 41 (hemorrhag\$ or haemorrhag\$).tw. (237139)
- 42 hemorrhage/ (70486)
- 43 (blood adj3 loss).tw. (48372)
- 44 bleed\$.tw. (189115)
- 45 41 or 42 or 43 or 44 (451649)
- 46 (major or massive or acute or lethal or uncontrolled or sever\$ or life-threatening or serious or shock or death\$ or surviv\$ or mortal\$ or arter\$).tw. or (military or army or corps or special operations or disaster or trauma or first aid or emergency or acute care).jw. (6861255)
- 47 45 and 46 (257486)
- 48 (((arter\$ or vascular or vessel) adj5 (injur\$ or ruptur\$ or damage)) or MVI).tw. (51765)
- 49 Exsanguination/ (292)
- 50 exsanguinat\$.tw. (2926)
- 51 shock, hemorrhagic/ (11235)
- 52 amputat\$.tw. (37723)
- 53 avulsion.tw. (8361)
- 54 "wounds and injuries"/ or abdominal injuries/ or amputation, traumatic/ or arm injuries/ or back injuries/ or crush injuries/ or hand injuries/ or hip injuries/ or lacerations/ or leg injuries/ or multiple trauma/ or soft tissue injuries/ or thoracic injuries/ or war-related injuries/ or blast injury/ or Blast Injuries/ or Emergency Medical Services/ or wounds, nonpenetrating/ or wounds, penetrating/ or Extremities/in [Injuries] (200205)

- 55 47 or 48 or 49 or 50 or 51 or 52 or 53 or 54 (531992)
 56 Gastrointestinal Hemorrhage/ or Gastrointestinal hemorrhage.tw. or Peptic Ulcer
 Hemorrhage/ or Peptic ulcer.tw. or Hematuria/ or Hemoptysis/ or Hemothorax/ or
 Intracranial Hemorrhages/ or Uterine Hemorrhage/ or "Postpartum hemorrhage".tw. or "SAH
 = subarachnoid hemorrhage".tw. or "subarachnoid hemorrhage".tw. or Cerebral Hemorrhage/
 or intracranial hemorrhage.tw. or Cerebral infarction.tw. or Vitreous Hemorrhage/ or Retinal
 Hemorrhage/ or Rectal bleeding.tw. (180286)
 57 55 not 56 (468766) Annotation: POPULATION
 58 40 and 57 (7249)

Pediatric Tourniquets (FA 768Peds: ScopRev)

Medline

- 1 exp Emergency Medical Services/ (132433)
- 2 Emergency Treatment/ (10388)
- 3 Emergencies/ (39415)
- 4 "Wounds and Injuries"/ (74755)
- 5 Amputation, Traumatic/ (4654)
- 6 Wounds, Penetrating/ (11447)
- 7 Wounds, Gunshot/ (14954)
- 8 Wounds, Stab/ (4353)
- 9 exp Arm Injuries/ (30071)
- 10 exp Leg Injuries/ (93066)
- 11 Hemorrhage/ (70599)
- 12 Exsanguination/ (334)
- 13 Shock, Hemorrhagic/ (11242)
- 14 (emergency or emergencies).tw,kf. (252303)
- 15 trauma*.tw,kf. (348234)
- 16 (wound or wounds).tw,kf. (201030)
- 17 (injury or injuries).tw,kf. (744340)
- 18 h?emorrhag*.tw,kf. (254548)
- 19 exsanguinat*.tw,kf. (2928)
- 20 bleed*.tw,kf. (198402)
- 21 blood loss*.tw,kf. (49530)
- 22 amputat*.tw,kf. (40133)
- 23 gunshot*.tw,kf. (9005)
- 24 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or
18 or 19 or 20 or 21 or 22 or 23 (1881858)
- 25 Tourniquets/ (3729)
- 26 tourniquet*.tw,kf. (6119)
- 27 25 or 26 (7119)
- 28 24 and 27 (2918)
- 29 limit 28 to children (466)
- 30 limit 29 to yr="1966 -Current" (464)
- 31 hair.tw,kf. (68374)
- 32 30 not 31 (416)
- 33 Snake Bites/ (4458)
- 34 32 not 33 (391)
- 35 hypospadias.tw,kf. (5939)
- 36 34 not 35 (388)

37 arthroscop*.tw,kf. (29517)

38 36 not 37 (352)

A special Ovid search filter for 'Children' (broad) has been applied to the search. In full, it is:

exp adolescent/ or exp child/ or exp infant/ or (infant disease* or childhood disease*).ti,ab,kf. or (adolescen* or babies or baby or boy? or boyfriend or boyhood or girlfriend or girlhood or child* or girl? or infan* or juvenil* or kid? or minors or minors* or neonat* or neo-nat* or newborn* or new-born* or paediatric* or pediatric* or perinat* or preschool* or puber* or pubescen* or school* or teen* or toddler? or underage? or under-age? or youth*).ti,ab,kf. or (pediatric* or paediatric* or infan* or child* or adolescen* or young).jn,jw or (pediatric* or paediatric* or infan* or child* or adolescen* or young).in

Concussion recognition (FA 799: ScopRev)

PubMed:

Updated 30 Aug 2020 Last 12 months = 114 results

((((((((((((brain injuries) OR (TBI OR traumatic brain injury)) AND (mild OR sport OR athletic OR minor)) NOT "loss of consciousness")) AND (((physical examination) AND (((((Trauma Severity Indices[MeSH Terms]) OR (index or indices[Title])) OR assessment tool[TIAB]) OR diagnostic tool[TIAB])))) OR injury severity score[TIAB]) OR SCAT[TIAB]) OR Sport concussion assessment tool[TIAB]) OR Glasgow coma scale[MeSH Terms])))))) AND (((((((outcomes) OR recovery of function[MeSH Terms]) OR return to work) OR activities of daily living[MeSH Terms]) OR length of stay[MeSH Terms]) AND (((((((("randomized controlled trial"[PT] OR "controlled clinical trial"[PT] OR "clinical trial"[PT] OR "comparative study"[PT] OR random*[TIAB] OR controll*[TIAB] OR "intervention study"[TIAB] OR "experimental study"[TIAB] OR "comparative study"[TIAB] OR trial[TIAB] OR evaluat*[TIAB] OR "Before and after"[TIAB] OR "interrupted time series"[TIAB]))) OR ("Epidemiologic Studies"[Mesh] OR "case control"[TIAB] OR "case-control"[TIAB] OR ((case[TIAB] OR cases[TIAB]) AND (control[TIAB] OR controls[TIAB])) OR "cohort study"[TIAB] OR "cohort analysis"[TIAB] OR "follow up study"[TIAB] OR "follow-up study"[TIAB] OR "observational study"[TIAB] OR "longitudinal"[TIAB] OR "retrospective"[TIAB] OR "cross sectional"[TIAB] OR "cross-sectional"[TIAB] OR questionnaire[TIAB] OR questionnaires[TIAB] OR survey[TIAB]))) NOT (("animals"[MH] NOT (animals[MH] AND "humans"[MH])))) NOT (("letter"[pt] OR "comment"[pt] OR "editorial"[pt] OR "case reports"[pt])))))))))

A second structured literature search was conducted using Medline to identify relevant studies with no article or date restrictions. Keywords included (1) SCAT 5, (2) CRT 5, (3) concussion recognition tool, (4) sport* concussion assessment tool, and (5) concussion assessment tool. The literature search was updated to December 6, 2019.

(brain injuries) OR (TBI OR traumatic brain injury)) AND (mild OR sport OR athletic OR minor)) NOT "loss of consciousness")) AND (((physical examination) AND (((((Trauma Severity Indices[MeSH Terms]) OR (index or indices[Title])) OR assessment tool[TIAB]) OR diagnostic tool[TIAB])))) OR injury severity score[TIAB]) OR SCAT[TIAB]) OR Sport concussion assessment tool[TIAB]) OR Glasgow coma scale[MeSH Terms])))))) AND (((((((outcomes) OR recovery of function[MeSH Terms]) OR return to work) OR activities of daily living[MeSH Terms]) OR length of stay[MeSH Terms]) AND (((((((("randomized controlled trial"[PT] OR "controlled clinical trial"[PT] OR "clinical trial"[PT] OR "comparative study"[PT] OR random*[TIAB] OR controll*[TIAB] OR

"intervention study"[TIAB] OR "experimental study"[TIAB] OR "comparative study"[TIAB] OR trial[TIAB] OR evaluat*[TIAB] OR "Before and after"[TIAB] OR "interrupted time series"[TIAB])))) OR ((("Epidemiologic Studies"[Mesh] OR "case control"[TIAB] OR "case-control"[TIAB] OR ((case[TIAB] OR cases[TIAB]) AND (control[TIAB] OR controls[TIAB]))) OR "cohort study"[TIAB] OR "cohort analysis"[TIAB] OR "follow up study"[TIAB] OR "follow-up study"[TIAB] OR "observational study"[TIAB] OR "longitudinal"[TIAB] OR "retrospective"[TIAB] OR "cross sectional"[TIAB] OR "cross-sectional"[TIAB] OR questionnaire[TIAB] OR questionnaires[TIAB] OR survey[TIAB])))) NOT ((("animals"[MH] NOT (animals[MH] AND "humans"[MH])))) NOT ((("letter"[pt] OR "comment"[pt] OR "editorial"[pt] OR "case reports"[pt])))))))))

Manual cervical spine stabilization (FA1546: ScopRev) NEW

Cochrane Database of Systematic Reviews 2005 to October 30, 2019, EBM Reviews - ACP Journal Club 1991 to October 2019, EBM Reviews - Database of Abstracts of Reviews of Effects 1st Quarter 2016, EBM Reviews - Cochrane Clinical Answers September 2019, EBM Reviews - Cochrane Central Register of Controlled Trials September 2019, EBM Reviews - Cochrane Methodology Register 3rd Quarter 2012, EBM Reviews - Health Technology Assessment 4th Quarter 2016, EBM Reviews - NHS Economic Evaluation Database 1st Quarter 2016, Embase 1974 to 2019 November 05, Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily 1946 to November 05, 2019

- 1 exp "Neck Injuries"/ or exp "Cervical Vertebrae"/in15189
- 2 (exp "Neck"/ or exp "Cervical Vertebrae"/) and (injury or injuries or trauma* or compression).ti,ab,kf,kw. 22459
- 3 (((neck or cervical) adj2 (injury or injuries or trauma* or compression or cadaver* or volunteer*)) or whiplash*).ti,ab,kf,kw. 28811
- 4 ("Spinal Cord Injuries"/ or "spinal cord injury"/ or (((spinal or spine) adj2 (injury or injuries or trauma* or compression)) or cadaver* or volunteer*).ti,ab,kf,kw.) and ("Neck"/ or (neck or cervical).ti,ab,kf,kw.) 42497
- 5 or/1-4 [NECK INJURY] 78407
- 6 exp "Spinal Cord Injuries"/ or exp "Spine"/in 60933
- 7 ((spine or spinal or vertebra* or coccyx or intervertebral or lumbar or sacrum or sacral) adj2 (injury or injuries or trauma* or compression or cadaver* or volunteer*)).ti,ab,kf,kw. 139548
- 8 6 or 7 [SPINE INJURY] 165185
- 9 5 or 8 [NECK/SPINE INJURY] 210688
- 10 (immobiliz* or immobilis* or immobile or stabiliz* or stabilis* or restrain* or "trap squeeze" or "trapezius squeeze" or "head squeeze" or "trap grip" or "trapezius grip" or "head grip").ti,ab,kf,kw. 922769
- 11 ((reduction or reducing or reduce* or restrain* or decreas* or limit or limiting or restrict*) adj2 (movement or movements or motion or mobility or mobile)).ti,ab,kf,kw. 46661
- 12 (neutral adj2 position*).ti,ab,kf,kw. 7587
- 13 "Movement"/ph or "Head Movements"/ or "head movement"/ or (movement or motion or application).ti,ab,kf,kw. 1220630
- 14 "Emergency Medical Services"/mt or "First Aid"/mt 6922

- 15 (out-of-hospital or "out of hospital" or prehospital or pre-hospital or pre-hospitalization or prehospitalization or pre-hospitalisation or prehospitalisation or (before adj2 hospital) or (before adj2 hospitalization) or (before adj2 hospitalisation)).ti,ab,kf,kw. 208318
- 16 (EMS or "emergency medical service" or paramedic* or EMT or "emergency medical technician*" or "first responder*" or ambulance*).ti,ab,kf,kw. 124775
- 17 (bystander* or by-stander* or stranger or strangers or layperson* or lay or public or "first aid" or "in position found").ti,ab,kf,kw. 1072733
- 18 "Orthotic Devices"/ or "orthoses"/ or "Braces"/ or "brace"/ or "Restraint, Physical"/mt or (orthotic* or orthosis or orthoses or orthesis or "orthopedic support device*" or "orthopaedic support device*" or collar* or brace* or bracing or restraint*).ti,ab,kf,kw. 62391
- 19 (or/13-17) and 18 10134
- 20 or/10-12,19 [IMMOBILIZATION/STABILIZATION] 977323
- 21 9 and 20 [(NECK/SPINE INJURY) + (IMMOBILIZATION/STABILIZATION)] 14370
- 22 (Animals/ or "Animal Experimentation"/ or "Models, Animal"/ or "Disease Models, Animal"/) not (Humans/ or "Human Experimentation"/) 8011146
- 23 (exp "animal model"/ or exp "animal experiment"/ or "nonhuman"/ or exp "vertebrate") not (exp "human"/ or exp "human experiment") 9923897
- 24 21 not (22 or 23) [(NECK/SPINE INJURY) + (IMMOBILIZATION/STABILIZATION), HUMAN] 13509
- 25 (comment or letter or "newspaper article" or news or note).pt. 3491608
- 26 24 not 25 [(NECK/SPINE INJURY) + (IMMOBILIZATION/STABILIZATION), HUMAN, SUBSTANTIVE] 13451
- 27 (Randomized Controlled Trial or Controlled Clinical Trial or Pragmatic Clinical Trial or Equivalence Trial or Clinical Trial, Phase III).pt. 1209797
- 28 Randomized Controlled Trial/ 1071893
- 29 exp Randomized Controlled Trials as Topic/ 309675
- 30 Controlled Clinical Trial/ 556044
- 31 exp Controlled Clinical Trials as Topic/ 321814
- 32 Randomization/ 185770
- 33 Random Allocation/ 206534
- 34 Double-Blind Method/ 446267
- 35 Double-Blind Studies/ 279094
- 36 Single-Blind Method/ 84068
- 37 Single-Blind Studies/ 85973
- 38 Placebos/ 347423
- 39 Control Groups/ 112184
- 40 Control Group/ 112082
- 41 (random* or sham or placebo*).ti,ab,kf,kw. 3984945
- 42 ((singl* or doubl*) adj (blind* or dumm* or mask*)).ti,ab,kf,kw. 697273
- 43 ((tripl* or trebl*) adj (blind* or dumm* or mask*)).ti,ab,kf,kw. 3766
- 44 (control* adj3 (study or studies or trial* or group*)).ti,ab,kf,kw. 3039502
- 45 (nonrandom* or non random* or non-random* or quasi-random* or quasirandom*).ti,ab,kf,kw. 106973
- 46 allocated.ti,ab,kf,kw. 202888
- 47 ((open label or open-label) adj5 (study or studies or trial*)).ti,ab,kf,kw. 132985
- 48 ((equivalence or superiority or non-inferiority or noninferiority) adj3 (study or studies or trial*)).ti,ab,kf,kw. 30493

49 (pragmatic study or pragmatic studies).ti,ab,kf,kw. 1160
50 ((pragmatic or practical) adj3 trial*).ti,ab,kf,kw. 12796
51 ((quasiexperimental or quasi-experimental) adj3 (study or studies or trial*)).ti,ab,kf,kw. 18250
52 (phase adj3 (III or "3") adj3 (study or studies or trial*)).ti,ab,kf,kw. 164965
53 or/27-52 [RCT/CT] 6359525
54 "Observational Studies as Topic"/ or observational study.pt. 257141
55 Cohort Studies/ or Follow-Up Studies/ or Longitudinal Studies/ or Prospective Studies/ or Retrospective Studies/ 4144413
56 Cross-Sectional Studies/ 509674
57 "Evaluation Studies as Topic"/ or evaluation studies.pt. 400112
58 Case-Control Studies/ 388727
59 Comparative Study.pt. 2030551
60 (((evaluation or cohort or cohorts or longitudinal or followup or follow-up or prospective or observational or retrospective or population-based or multidimensional or multi-dimensional or case-control or comparative or cross-sectional or evaluation) adj1 (study or studies)) or "cohort analys*").ti,ab,kf,kw. 2762511
61 or/54-60 [OBSERVATIONAL] 7987702
62 "Epidemiologic Studies"/ or "Cross-Over Studies"/ or "crossover procedure"/ 360834
63 (((epidemiologic* or intervention or experimental) adj1 (study or studies)) or cross-over or crossover or questionnaire* or survey*).ti,ab,kf,kw. 3131261
64 ("before and after" or "interrupted time series").ti,ab,kf,kw. 628823
65 "case series".ti,ab,kf,kw. 169497
66 or/62-65 [ADDITIONAL STUDIES] 4040248
67 26 and (53 or 61 or 66) [(NECK/SPINE INJURY) + (IMMOBILIZATION/STABILIZATION), HUMAN, SUBSTANTIVE, WITH STUDY FILTERS] 5646
68 limit 67 to yr="1999 -Current" [Limit not valid in DARE; records were retained]
EBM Reviews - Cochrane Database of Systematic Reviews <2005 to November 6, 2019>
EBM Reviews - ACP Journal Club <1991 to October 2019>
EBM Reviews - Database of Abstracts of Reviews of Effects <1st Quarter 2016>
EBM Reviews - Cochrane Clinical Answers <October 2019>
EBM Reviews - Cochrane Central Register of Controlled Trials <October 2019>
EBM Reviews - Cochrane Methodology Register <3rd Quarter 2012>
EBM Reviews - Health Technology Assessment <4th Quarter 2016>
EBM Reviews - NHS Economic Evaluation Database <1st Quarter 2016>
Embase <1974 to 2019 November 05>
Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily <1946 to November 05, 2019>
69 remove duplicates from 68
EBM Reviews - Cochrane Database of Systematic Reviews <2005 to November 6, 2019>
EBM Reviews - ACP Journal Club <1991 to October 2019>
EBM Reviews - Database of Abstracts of Reviews of Effects <1st Quarter 2016>
EBM Reviews - Cochrane Clinical Answers <October 2019>
EBM Reviews - Cochrane Central Register of Controlled Trials <October 2019>
EBM Reviews - Cochrane Methodology Register <3rd Quarter 2012>
EBM Reviews - Health Technology Assessment <4th Quarter 2016>
EBM Reviews - NHS Economic Evaluation Database <1st Quarter 2016>
Embase <1974 to 2019 November 05>

Cervical spine motion restriction (FA 772: ScopRev)

Cochrane Database of Systematic Reviews 2005 to October 30, 2019, EBM Reviews - ACP Journal Club 1991 to October 2019, EBM Reviews - Database of Abstracts of Reviews of Effects 1st Quarter 2016, EBM Reviews - Cochrane Clinical Answers September 2019, EBM Reviews - Cochrane Central Register of Controlled Trials September 2019, EBM Reviews - Cochrane Methodology Register 3rd Quarter 2012, EBM Reviews - Health Technology Assessment 4th Quarter 2016, EBM Reviews - NHS Economic Evaluation Database 1st Quarter 2016, Embase 1974 to 2019 November 05, Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily 1946 to November 05, 2019

- 1 exp "Neck Injuries"/ or exp "Cervical Vertebrae"/in15189
- 2 (exp "Neck"/ or exp "Cervical Vertebrae"/) and (injury or injuries or trauma* or compression).ti,ab,kf,kw. 22459
- 3 (((neck or cervical) adj2 (injury or injuries or trauma* or compression or cadaver* or volunteer*)) or whiplash*).ti,ab,kf,kw. 28811
- 4 ("Spinal Cord Injuries"/ or "spinal cord injury"/ or (((spinal or spine) adj2 (injury or injuries or trauma* or compression)) or cadaver* or volunteer*).ti,ab,kf,kw.) and ("Neck"/ or (neck or cervical).ti,ab,kf,kw.) 42497
- 5 or/1-4 [NECK INJURY] 78407
- 6 exp "Spinal Cord Injuries"/ or exp "Spine"/in 60933
- 7 ((spine or spinal or vertebra* or coccyx or intervertebral or lumbar or sacrum or sacral) adj2 (injury or injuries or trauma* or compression or cadaver* or volunteer*)).ti,ab,kf,kw. 139548
- 8 6 or 7 [SPINE INJURY] 165185
- 9 5 or 8 [NECK/SPINE INJURY] 210688
- 10 (immobiliz* or immobilis* or immobile or stabiliz* or stabilis* or restrain* or "trap squeeze" or "trapezius squeeze" or "head squeeze" or "trap grip" or "trapezius grip" or "head grip").ti,ab,kf,kw. 922769
- 11 ((reduction or reducing or reduce* or restrain* or decreas* or limit or limiting or restrict*) adj2 (movement or movements or motion or mobility or mobile)).ti,ab,kf,kw. 46661
- 12 (neutral adj2 position*).ti,ab,kf,kw. 7587
- 13 "Movement"/ph or "Head Movements"/ or "head movement"/ or (movement or motion or application).ti,ab,kf,kw. 1220630
- 14 "Emergency Medical Services"/mt or "First Aid"/mt 6922
- 15 (out-of-hospital or "out of hospital" or prehospital or pre-hospital or pre-hospitalization or prehospitalization or pre-hospitalisation or prehospitalisation or (before adj2 hospital) or (before adj2 hospitalization) or (before adj2 hospitalisation)).ti,ab,kf,kw. 208318
- 16 (EMS or "emergency medical service" or paramedic* or EMT or "emergency medical technician*" or "first responder*" or ambulance*).ti,ab,kf,kw. 124775
- 17 (bystander* or by-stander* or stranger or strangers or layperson* or lay or public or "first aid" or "in position found").ti,ab,kf,kw. 1072733
- 18 "Orthotic Devices"/ or "orthoses"/ or "Braces"/ or "brace"/ or "Restraint, Physical"/mt or (orthotic* or orthosis or orthoses or orthesis or "orthopedic support device*" or "orthopedic support devices").ti,ab,kf,kw. 1072733

or "orthopaedic support device*" or collar* or brace* or bracing or restraint*).ti,ab,kf,kw.
62391
19 (or/13-17) and 18 10134
20 or/10-12,19 [IMMOBILIZATION/STABILIZATION] 977323
21 9 and 20 [(NECK/SPINE INJURY) + (IMMOBILIZATION/STABILIZATION)]
14370
22 (Animals/ or "Animal Experimentation"/ or "Models, Animal"/ or "Disease Models,
Animal"/) not (Humans/ or "Human Experimentation"/) 8011146
23 (exp "animal model"/ or exp "animal experiment"/ or "nonhuman"/ or exp
"vertebrate"/) not (exp "human"/ or exp "human experiment"/) 9923897
24 21 not (22 or 23) [(NECK/SPINE INJURY) +
(IMMOBILIZATION/STABILIZATION), HUMAN] 13509
25 (comment or letter or "newspaper article" or news or note).pt. 3491608
26 24 not 25 [(NECK/SPINE INJURY) + (IMMOBILIZATION/STABILIZATION),
HUMAN, SUBSTANTIVE] 13451
27 (Randomized Controlled Trial or Controlled Clinical Trial or Pragmatic Clinical Trial
or Equivalence Trial or Clinical Trial, Phase III).pt. 1209797
28 Randomized Controlled Trial/ 1071893
29 exp Randomized Controlled Trials as Topic/ 309675
30 Controlled Clinical Trial/ 556044
31 exp Controlled Clinical Trials as Topic/ 321814
32 Randomization/ 185770
33 Random Allocation/ 206534
34 Double-Blind Method/ 446267
35 Double-Blind Studies/ 279094
36 Single-Blind Method/ 84068
37 Single-Blind Studies/ 85973
38 Placebos/ 347423
39 Control Groups/ 112184
40 Control Group/ 112082
41 (random* or sham or placebo*).ti,ab,kf,kw. 3984945
42 ((singl* or doubl*) adj (blind* or dumm* or mask*)).ti,ab,kf,kw. 697273
43 ((tripl* or trebl*) adj (blind* or dumm* or mask*)).ti,ab,kf,kw. 3766
44 (control* adj3 (study or studies or trial* or group*)).ti,ab,kf,kw. 3039502
45 (nonrandom* or non random* or non-random* or quasi-random* or
quasirandom*).ti,ab,kf,kw. 106973
46 allocated.ti,ab,kf,kw. 202888
47 ((open label or open-label) adj5 (study or studies or trial*)).ti,ab,kf,kw. 132985
48 ((equivalence or superiority or non-inferiority or noninferiority) adj3 (study or
studies or trial*)).ti,ab,kf,kw. 30493
49 (pragmatic study or pragmatic studies).ti,ab,kf,kw. 1160
50 ((pragmatic or practical) adj3 trial*).ti,ab,kf,kw. 12796
51 ((quasiexperimental or quasi-experimental) adj3 (study or studies or
trial*)).ti,ab,kf,kw. 18250
52 (phase adj3 (III or "3") adj3 (study or studies or trial*)).ti,ab,kf,kw. 164965
53 or/27-52 [RCT/CT] 6359525
54 "Observational Studies as Topic"/ or observational study.pt. 257141
55 Cohort Studies/ or Follow-Up Studies/ or Longitudinal Studies/ or Prospective
Studies/ or Retrospective Studies/ 4144413
56 Cross-Sectional Studies/ 509674

57 "Evaluation Studies as Topic"/ or evaluation studies.pt. 400112
58 Case-Control Studies/ 388727
59 Comparative Study.pt. 2030551
60 (((evaluation or cohort or cohorts or longitudinal or followup or follow-up or prospective or observational or retrospective or population-based or multidimensional or multi-dimensional or case-control or comparative or cross-sectional or evaluation) adj1 (study or studies)) or "cohort analys*").ti,ab,kf,kw. 2762511
61 or/54-60 [OBSERVATIONAL] 7987702
62 "Epidemiologic Studies"/ or "Cross-Over Studies"/ or "crossover procedure"/ 360834
63 (((epidemiologic* or intervention or experimental) adj1 (study or studies)) or cross-over or crossover or questionnaire* or survey*).ti,ab,kf,kw. 3131261
64 ("before and after" or "interrupted time series").ti,ab,kf,kw. 628823
65 "case series".ti,ab,kf,kw. 169497
66 or/62-65 [ADDITIONAL STUDIES] 4040248
67 26 and (53 or 61 or 66) [(NECK/SPINE INJURY) + (IMMOBILIZATION/STABILIZATION), HUMAN, SUBSTANTIVE, WITH STUDY FILTERS] 5646
68 limit 67 to yr="1999 -Current" [Limit not valid in DARE; records were retained]
EBM Reviews - Cochrane Database of Systematic Reviews <2005 to November 6, 2019>
EBM Reviews - ACP Journal Club <1991 to October 2019>
EBM Reviews - Database of Abstracts of Reviews of Effects <1st Quarter 2016>
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Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily <1946 to November 05, 2019>

Superficial thermal injury dressings (FA 1545: ScopRev) NEW

Database(s): MEDLINE (Ovid), Embase (Ovid), Cochrane Database of Systematic Reviews (Ovid)

ACP Journal Club (Ovid), Database of Abstracts of Reviews of Effects (Ovid), Cochrane CENTRAL Register of Controlled Trials (Ovid), Cochrane Methodology Register Database (Ovid)

Health Technology Assessment Database (Ovid), National Health Service Economic Evaluation Database (Ovid) and CINAHL (Ebsco)

Search Strategy:

#	Searches	Results
1	Burns/	43692
2	Burn?.tw,kf.	59357
3	(thermal adj2 injur*).tw,kf.	5669
4	or/1-3 [BURNS]	71306
5	Bandages/ or Bandages, Hydrocolloid/ or Occlusive Dressings/	20601
6	(bandage? or dressing?).tw,kf.	27248
7	or/5-6 [DRESSINGS]	37774
8	((plastic or cling or saran) adj2 wrap) or cellophane).tw,kf.	1411
9	(burnaid* or burn-aid* or burnshield* or burn-shield* or hydrogel? or hydrocolloid* or hydro-colloid* or hyaluronic? or hyaluronate?).tw,kf.	54208
10	(gauze? or film? or foam? or adhesive? or adherent? or non-adhesive? or non-adherent? or occlusive? or spray-on? or spray?).tw,kf.	326567
11	(gel? or ointment? or cream?).tw,kf.	329903
12	(honey? or mud? or aloe vera? or alginate? or vaseline? or zinc? or silver?).tw,kf.	209885
13	or/8-12 [DRESSINGS OF INTEREST]	874388
14	4 and 7 and 13	1294
15	exp Animals/ not (exp Animals/ and Humans/)	4639065
16	14 not 15 [ANIMAL-ONLY REMOVED]	1088
17	(comment or editorial or news or newspaper article).pt.	1360799
18	(letter not (letter and randomized controlled trial)).pt.	1043139
19	16 not (17 or 18) [OPINION PIECES REMOVED]	1063
20	("30612585" or "30266196" or "26177570" or "28029455" or "26655279" or "24274190" or "24018215" or "23543513" or "25742878").ui. [EXAMPLE STUDIES PROVIDED BY TEAM]	9
21	19 and 20 [ALL EXAMPLE ARTICLES CAPTURED IN SEARCH]	9

Compression wrap (FA 511: SysRev) NEW

Medline (PubMed interface):

1. "Sprains and strains"[Mesh] OR "Soft Tissue Injuries"[Mesh] OR "athletic injuries"[Mesh] OR strain*[TIAB] OR sprain*[TIAB] OR distortion*[TIAB] OR rupture*[TIAB] OR "ankle injuries"[Mesh] OR "knee injuries"[Mesh] OR "wrist injuries"[Mesh] OR "tendon injuries"[Mesh:NoExp] OR overexertion[TIAB] OR ((ankle[TIAB] OR knee[TIAB] OR wrist[TIAB] OR elbow[TIAB]) AND (injur*[TIAB])))
2. "Compression Bandages"[Mesh] OR ((compression[TIAB] OR elastic[TIAB]) AND (bandag*[TIAB] OR wrap*[TIAB] OR dressing*[TIAB] OR stocking*[TIAB] OR sleeve*[TIAB]))
3. 1 AND 2

Revised search

Updated 30 Aug 2020 Last 12 months = 296 results

("Sprains and strains"[Mesh] OR "Soft Tissue Injuries"[Mesh] OR "athletic injuries"[Mesh] OR strain*[TIAB] OR sprain*[TIAB] OR distortion*[TIAB] OR rupture*[TIAB] OR "ankle injuries"[Mesh] OR "knee injuries"[Mesh] OR "wrist injuries"[Mesh] OR "tendon injuries"[Mesh:NoExp] OR overexertion[TIAB] OR ((ankle[TIAB] OR knee[TIAB] OR wrist[TIAB] OR elbow[TIAB]) AND injur*[TIAB]))) AND ("Compression

Bandages"[Mesh] OR ((compression[TIAB] OR elastic[TIAB]) AND (bandag*[TIAB] OR wrap*[TIAB] OR dressing*[TIAB] OR stocking*[TIAB] OR sleeve*[TIAB])) NOT (chronic disease[MeSH Terms] OR venous insufficiency[MeSH Terms] OR varicose ulcer[MeSH Terms])

Dental avulsion (FA 794: SysRev)

De Brier, N., Dorien, O., Borra, V., Singletary, E.M., Zideman, D.A., De Buck, E. and (2020), Storage of an avulsed tooth prior to replantation: a systematic review and meta-analysis. Dent Traumatol. Accepted Author Manuscript. doi:10.1111/edt.12564
Medline (via the PubMed interface)

1. "Tooth Injuries"[Mesh] OR "Tooth Replantation"[Mesh] OR ((tooth[TIAB] OR teeth[TIAB] OR denta*[TIAB] OR dento*[TIAB] OR "Periodontal Ligament"[Mesh] OR "periodontal ligament"[TIAB]) AND (avuls*[TIAB] OR replant*[TIAB]))

2. "Tissue Preservation"[Mesh] OR stor*[TIAB] OR preserv*[TIAB] OR transport*[TIAB] OR "Organ Preservation

Solutions"[Mesh] OR "Saliva"[Mesh] OR saliva[TIAB] OR "Sodium Chloride"[Mesh] OR saline[TIAB] OR "Milk"[Mesh] OR milk[TIAB] OR "Water"[Mesh] OR water[TIAB] OR solution*[TIAB] OR propolis[TIAB] OR "Propolis"[Mesh] OR tea [TIAB]

OR "Tea"[Mesh] OR (egg[TIAB] AND (white[TIAB] OR raw[TIAB] or albumen[TIAB] OR glair[TIAB] OR glaire[TIAB])) OR

"Egg White"[Mesh] OR ice[TIAB] OR "Ice"[Mesh] OR "Sodium Fluoride"[Mesh] OR "sodium fluoride"[TIAB] OR

((cling[TIAB] OR plastic[TIAB] OR stretch[TIAB]) AND (wrap[TIAB] OR film[TIAB] OR foil[TIAB])) OR bag[TIAB] OR container[TIAB] OR box[TIAB]

3. "Letter"[Publication Type] OR "Comment"[Publication Type] OR "Editorial"[Publication Type] OR "Case

Reports"[Publication Type] OR News[Publication Type]

4. 1 AND 2 NOT 3

Prediction of need of respiratory support in the delivery room (NLS 611: EvUp)

Updated 30 Aug 2020 Last 12 months = 75 results

("neonatal resuscitation"[tw] OR "neonatal stabilization"[tw] OR "delivery room resuscitation"[tw] OR ("Infant, Newborn"[mesh] OR "Newborn Infant"[tw] OR "Newborn Infants"[tw] OR "Newborns"[tw] OR "Newborn"[tw] OR "Neonate"[tw] OR "Neonates"[tw] OR neonat*[tw] OR "Low Birth Weight Infant"[tw] OR "Small for Gestational Age Infant"[tw] OR "Very Low Birth Weight Infant"[tw] OR "Postmature Infant"[tw] OR "Premature Infant"[tw] OR "Low Birth Weight Infants"[tw] OR "Small for Gestational Age Infants"[tw] OR "Very Low Birth Weight Infants"[tw] OR "Postmature Infants"[tw] OR "Premature Infants"[tw])) AND ("Resuscitation"[majr] OR "resuscitation"[ti] OR Resuscit*[ti] OR "Heart Massage"[ti] OR "Artificial Respiration"[ti] OR "stabilization"[ti] OR "stabilisation"[ti]))) AND ("preparation"[tw] OR "prepare"[tw] OR prepar*[tw] OR "anticipation"[tw] OR "anticipate"[tw] OR anticipat*[tw] OR "risk"[tw] OR "risk factor"[tw] OR "risk factors"[tw])
AND ("2014/01/01"[PDAT] : "3000/12/31"[PDAT])

Effect of briefing/debriefing following neonatal resuscitation (NLS 1562: ScopRev)

Updated 30 Aug 2020 Last 12 months = 41 results

("infant, newborn" [mesh] OR infant* [tw] OR preterm [tw] OR preemie* [tw] OR newborn* [tw] OR neonat* [tw]) AND ("resuscitation" [mesh] OR resuscitat* [tw] OR cpr [tw]) AND ("critical reflection" [tw] OR reflection [tw] OR "post simulation" [tw] OR "pre briefing" [tw] OR prebrief* [tw] OR debrie* [tw] OR brief [tw] OR briefing [tw] OR "after action review" [tw] OR feedback [tw] OR "communication" [mesh]) AND (English [lang] OR English Abstract[ptyp])

Initial Assessment and Intervention

Warming adjuncts (NLS 599: EvUp)

("infant, premature"[MH] OR "infant, very low birth weight"[MH] OR "preterm"[tiab] OR "pre-term"[tiab] OR "premature"[tiab] OR "prematurity"[tiab] OR "low-birthweight"[tiab] OR "premature birth"[MH])

AND

("rewarming/methods"[MH] OR "heating/methods"[MH] OR "polythene"[tiab] OR "polyethylene"[tiab] OR "wrap*"[tiab] OR "bag*"[tiab] OR "warmer"[tiab] OR "mattress"[tiab] OR "gas*"[TIAB] OR "skin to skin"[tiab] OR "cap*"[tiab] OR "hat*"[tiab] OR "bonnet*"[tiab] OR "room temperature*"[tiab] OR "risk factor*"[tiab])

AND

("body temperature"[MH] OR "hypothermia"[MH] OR "hyperthermi*"[tiab] OR "hypothermi*"[tiab] "admission temperature*"[tiab] OR "warm*"[tiab] OR "body temperature" [tiab] or "thermal"[tiab] or "normothermi*"[tiab] or "euthermi*"[tiab] or "thermal"[tiab] or "heat"[tiab] or "thermoregulat*"[tiab])

NOT

("animals"[MH] NOT "humans"[MH])

NOT

("editorial"[Publication Type] OR "comment"[Publication Type] OR "letter"[Publication Type] OR "news"[Publication Type] OR "case reports" [Publication Type] OR "review" [Publication Type])

AND

("2013/01/01"[PDAT] : "3000/12/31"[PDAT])

Updated 30 Aug 2020 Last 12 months = 31 results

("infant, premature"[MH] OR "infant, very low birth weight"[MH] OR "preterm"[tiab] OR "pre-term"[tiab] OR "premature"[tiab] OR "prematurity"[tiab] OR "low-birthweight"[tiab] OR "premature birth"[MH]) AND ("rewarming/methods"[MH] OR "heating/methods"[MH] OR "polythene"[tiab] OR "polyethylene"[tiab] OR "wrap*"[tiab] OR "bag*"[tiab] OR "bags*"[tiab] OR "warmer"[tiab] OR "mattress"[tiab] OR "gas"[TIAB] OR "gases"[TIAB] OR "skin to skin"[tiab] OR "cap*"[tiab] OR "caps*"[tiab] OR "hat*"[tiab] OR "hats*"[tiab] OR "bonnet*"[tiab] OR "room temperature*"[tiab] OR "risk factor*"[tiab]) AND ("body temperature"[MH] OR "hypothermia"[MH] OR "hyperthermi*"[tiab] OR "hypothermi*"[tiab] "admission temperature*"[tiab] OR "warm*"[tiab] OR "body temperature" [tiab] or "thermal"[tiab] or "normothermi*"[tiab] or "euthermi*"[tiab] or "thermal"[tiab] or "heat"[tiab] or "thermoregulat*"[tiab]) NOT ("animals"[MH] NOT "humans"[MH]) NOT ("editorial"[Publication Type] OR "comment"[Publication Type] OR "letter"[Publication

Type] OR "news"[Publication Type] OR "case reports" [Publication Type] OR "review" [Publication Type])

Suctioning of clear fluid (NLS 596: ScopRev)

"infant, newborn"[MeSH Terms] OR "infant"[All Fields] AND "newborn"[All Fields] OR "newborn infant"[All Fields] OR "newborn"[All Fields] AND "infants"[All Fields] OR "newborn infants"[All Fields]) AND ("suction"[MeSH Terms] OR "suction"[All Fields]) AND ("mouth"[MeSH Terms] OR "mouth"[All Fields]) AND ("nose"[MeSH Terms] OR "nose"[All Fields]) oropharynx" [All Fields] OR "AND ("parturition"[MeSH Terms] OR "parturition"[All Fields] OR "birth"[All Fields]) AND ("amniotic fluid"[MeSH Terms] OR ("amniotic"[All Fields] AND "fluid"[All Fields]) OR "amniotic fluid"[All Fields])

Updated 30 Aug 2020 Last 12 months = 0 results

("infant, newborn"[MeSH Terms] OR ("infant"[All Fields] AND "newborn"[All Fields]) OR "newborn infant"[All Fields] OR ("newborn"[All Fields] AND "infants"[All Fields]) OR "newborn infants"[All Fields]) AND ("suction"[MeSH Terms] OR "suction"[All Fields]) AND ("mouth"[MeSH Terms] OR "mouth"[All Fields] OR "nose"[MeSH Terms] OR "nose"[All Fields] OR "oropharynx" [All Fields]) AND ("parturition"[MeSH Terms] OR "parturition"[All Fields] OR "birth"[All Fields]) AND ("amniotic fluid"[MeSH Terms] OR ("amniotic"[All Fields] AND "fluid"[All Fields]) OR "amniotic fluid"[All Fields])

Tracheal intubation and suction of non-vigorous meconium stained newborns (NLS 865: SysRev)

Daniele Trevisanuto; Marya Strand; Mandira D Kawakami; Jorge Fabres; Edgardo Szyld; Kevin Nation; Myra H Wyckoff; Yacov Rabi; Henry Lee. Tracheal suctioning of meconium at birth for non-vigorous infants: a systematic review and meta-analysis. Resuscitation 2020; 149: 117–126

Medline

((Meconium OR Meconium Aspiration Syndrome OR meconium*.tw,kf.) AND (Laryngoscopy OR Laryngoscopes OR Laryndgoscop*.tw,kf. OR exp Intubation OR Intubation*.tw,kf. OR Suction OR Suction*.tw,kf. OR Trachea OR Trachea.tw,kf. OR Tracheal.tw,kf. OR Intratracheal.tw,kf. OR endotracheal.tw,kf.)) limit to not (animals/ not humans/ comment/ editorial/ letter)

Physiologic Monitoring and Feedback Devices

Heart rate monitoring during neonatal resuscitation (NLS 898: EvUp)

Updated 30 Aug 2020 Last 12 months = 18 results

((((((infant, newborn) OR (("delivery rooms"[Mesh] OR "gestational age"[Mesh] OR "premature birth"[Mesh] OR "term birth"[Mesh] OR "live birth"[Mesh] OR newborn[Title/Abstract] OR neonatal[Title/Abstract] OR neonate[Title/Abstract] OR neonates[Title/Abstract] OR "Low Birth Weight"[Title/Abstract] OR "Small for Gestational Age"[Title/Abstract] OR Postmature[Title/Abstract] OR prematur*[Title/Abstract] OR preterm[Title/Abstract] OR infants[Title/Abstract] OR infant[Title/Abstract] OR birth[Title/Abstract])))) AND (((("resuscitation"[Mesh] OR resuscitat*[Title/Abstract] OR "cardiopulmonary resuscitation"[Mesh] OR "cardiopulmonary resuscitation"[Title/Abstract] OR CPR[Title/Abstract] OR "heart massage"[Mesh] OR "heart massage"[Title/Abstract] OR "chest compression"[Title/Abstract] OR "chest compressions"[Title/Abstract] OR "cardiac massage"[Title/Abstract] OR "cardiac compression"[Title/Abstract] OR "cardiac

compressions"[Title/Abstract] OR "thoracic compression"[Title/Abstract] OR "thoracic compressions"[Title/Abstract])))) AND (((heart auscultation[MeSH Terms] OR echocardiography[MeSH Terms] OR electrocardiography[MeSH Terms] OR body surface potential mapping[MeSH Terms] OR electrocardiography, ambulatory[MeSH Terms] OR vectorcardiography[MeSH Terms] OR EKG[Title/Abstract] OR ECG[Title/Abstract]))) NOT ((letter[pt] OR comment[pt] OR editorial[pt])))

Ventilation and Oxygenation

Sustained inflation (NLS 809: SysRev)

EBM Reviews - Cochrane Database of Systematic Reviews 2005 to October 23, 2019, EBM Reviews - ACP Journal Club 1991 to October 2019, EBM Reviews - Database of Abstracts of Reviews of Effects 1st Quarter 2016, EBM Reviews - Cochrane Clinical Answers August 2019, EBM Reviews - Cochrane Central Register of Controlled Trials September 2019, EBM Reviews - Cochrane Methodology Register 3rd Quarter 2012, EBM Reviews - Health Technology Assessment 4th Quarter 2016, EBM Reviews - NHS Economic Evaluation Database 1st Quarter 2016, Embase 1974 to 2019 October 25, Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily 1946 to October 25, 2019

- 1 exp "Infant, Newborn"/ or "Premature Birth"/ or "Term Birth"/ or "Live Birth"/ or "Birth Injuries"/ or "Gestational Age"/ or "newborn"/ or "prematurity"/ or exp "birth weight"/ or "birth injury"/ or (newborn* or "newly born" or neonat* or infant or infants or preterm or pre-term or premature or "prematurely born" or "postmature" or "post-mature" or "small for gestational age" or birth or births or birthed or birthing).ti,ab,kf,kw.
- 2 exp "Respiratory Distress Syndrome, Newborn"/ or "Infant, Premature, Diseases"/ or "Bronchopulmonary Dysplasia"/ or "Persistent Fetal Circulation Syndrome"/ or "neonatal respiratory distress syndrome"/ or "lung dysplasia"/ or "persistent pulmonary hypertension"/ or ("infantile respiratory distress" or "hyaline membrane disease*" or "bronchopulmonary dysplasia*" or "lung dysplasia*" or "persistent fetal circulation" or "persistent pulmonary hypertension" or ACD-MPV or ACDMPV).ti,ab,kf,kw.
- 3 "Delivery Rooms"/ or "Birthing Centers"/ or ("delivery room*" or "delivery suite").ti,ab,kf,kw.
- 4 "Neonatal Nursing"/ or "Neonatal Screening"/ or "Intensive Care, Neonatal"/ or "Intensive Care Units, Neonatal"/
- 5 or/1-4 [NEWBORN CONDITION]
- 6 (sustain* adj3 (inflation* or ventilation* or "positive pressure" or "positive airway pressure")).ti,ab,kf,kw.
- 7 ((inflation* or ventilation or "positive pressure" or "positive airway pressure") adj2 (time or duration)).ti,ab,kf,kw.
- 8 ("greater than 1 second" or "greater than one second" or "greater than 1 sec" or "greater than one sec" or "longer than 1 second" or "longer than one second" or "longer than 1 sec" or "longer than one sec" or "exceeding 1 second" or "exceeding one second" or "exceeding 1 sec" or "exceeding of one sec" or "in excess of 1 second" or "in excess of one second" or "in excess of 1 sec" or "in excess of one sec").ti,ab,kf,kw.
- 9 ((two or three or four or five or six or seven or eight or nine or ten or eleven or twelve or thirteen or fourteen or fifteen or "2" or "3" or "4" or "5" or "6" or "7" or "8" or "9" or "10" or "11" or "12" or "13" or "14" or "15") adj (second* or sec) adj3 (inflation* or ventilation*).ti,ab,kf,kw.
- 10 or/6-9 [INFLATION]

11 5 and 10 [NEWBORN CONDITION + INFLATION]
12 (Animals/ or "Animal Experimentation"/ or "Models, Animal"/ or "Disease Models, Animal"/) not (Humans/ or "Human Experimentation"/)
13 (exp "animal model"/ or exp "animal experiment"/ or "nonhuman"/ or exp "vertebrate"/) not (exp "human"/ or exp "human experiment"/)
14 11 not (12 or 13) [ANIMAL STUDIES REMOVED]
15 (editorial or comment or letter or "newspaper article" or news or note).pt.
16 (conference or "conference abstract" or "conference paper" or "conference review" or congresses).pt.
17 14 not (15 or 16) [ANIMAL STUDIES / PUBLICATION TYPES REMOVED]
EBM Reviews - Cochrane Central Register of Controlled Trials <September 2019>
EBM Reviews - Cochrane Methodology Register <3rd Quarter 2012>
EBM Reviews - Health Technology Assessment <4th Quarter 2016>
EBM Reviews - NHS Economic Evaluation Database <1st Quarter 2016>
Embase <1974 to 2019 October 25>
Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily <1946 to October 25, 2019>

18 remove duplicates from 17
EBM Reviews - Cochrane Central Register of Controlled Trials <September 2019>
EBM Reviews - Cochrane Methodology Register <3rd Quarter 2012>
EBM Reviews - Health Technology Assessment <4th Quarter 2016>
EBM Reviews - NHS Economic Evaluation Database <1st Quarter 2016>
Embase <1974 to 2019 October 25>
Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily <1946 to October 25, 2019>

Positive End-Expiratory Pressure (PEEP) vs No PEEP (NLS 897: EvUp)

Pubmed:

(positive end expiratory pressure OR peep OR Intermittent Positive-Pressure Breathing OR Intermittent Positive-Pressure Ventilation) AND (resuscitate* OR (delivery room))
Filters activated: Case Reports, Clinical Trial, Comparative Study, Controlled Clinical Trial, Randomized Controlled Trial, Systematic Reviews, Meta-Analysis, Infant: birth-23 months, Newborn: birth-1 month

Updated search (no limits apart from date)

Updated 30 Aug 2020 Last 12 months = 25 results

((((("positive-pressure respiration"[MeSH Terms] OR ("positive pressure"[All Fields] AND "respiration"[All Fields])) OR "positive pressure respiration"[All Fields]) OR (((("positive"[All Fields] AND "end"[All Fields]) AND "expiratory"[All Fields]) AND "pressure"[All Fields])) OR "positive end expiratory pressure"[All Fields]) OR (((("positive-pressure respiration"[MeSH Terms] OR ("positive pressure"[All Fields] AND "respiration"[All Fields])) OR "positive pressure respiration"[All Fields]) OR "peep"[All Fields])) OR (((("intermittent positive-pressure breathing"[MeSH Terms] OR ("intermittent"[All Fields] AND "positive pressure"[All Fields]) AND "breathing"[All Fields])) OR "intermittent positive pressure breathing"[All Fields]) OR (((("intermittent"[All Fields] AND "positive"[All Fields]) AND "pressure"[All Fields]) AND "breathing"[All Fields])) OR "intermittent positive pressure breathing"[All Fields])) OR

((("intermittent positive-pressure ventilation"[MeSH Terms] OR ("intermittent"[All Fields] AND "positive pressure"[All Fields]) AND "ventilation"[All Fields])) OR "intermittent positive pressure ventilation"[All Fields]) OR (((("intermittent"[All Fields] AND "positive"[All Fields]) AND "pressure"[All Fields]) AND "ventilation"[All Fields])) OR "intermittent positive pressure ventilation"[All Fields])) AND ("resuscitate*"[All Fields] OR (((("delivery rooms"[MeSH Terms] OR ("delivery"[All Fields] AND "rooms"[All Fields]))) OR "delivery rooms"[All Fields]) OR ("delivery"[All Fields] AND "room"[All Fields]))) OR "delivery room"[All Fields]))

Continuous Positive Airway Pressure (CPAP) versus Intermittent PPV (NLS 590: EvUp)

Search Strategy

#1 Search continuous positive airway pressure 12353

Search Details: "continuous positive airway pressure"[MeSH Terms] OR ("continuous"[All Fields] AND "positive"[All Fields] AND "airway"[All Fields] AND "pressure"[All Fields]) OR "continuous positive airway pressure"[All Fields]

#2 Search newborn infant 602853

Search Details: "infant, newborn"[MeSH Terms] OR ("infant"[All Fields] AND "newborn"[All Fields]) OR "newborn infant"[All Fields] OR ("newborn"[All Fields] AND "infant"[All Fields])

#3 #1 AND #2 1966

#4 Limit Set #3 by publication types 700

Search Details: (#1 AND #2) AND (Clinical Trial[ptyp] OR Comparative Study[ptyp] OR Controlled Clinical Trial[ptyp] OR Evaluation Studies[ptyp] OR Meta-Analysis[ptyp] OR Multicenter Study[ptyp] OR Randomized Controlled Trial[ptyp] OR systematic[sb] OR Twin Study[ptyp] OR Validation Studies[ptyp])

#5 Limit Set #4 by publication date 227

Search Details: (#1 AND #2) AND ((Clinical Trial[ptyp] OR Comparative Study[ptyp] OR Controlled Clinical Trial[ptyp] OR Evaluation Studies[ptyp] OR Meta-Analysis[ptyp] OR Multicenter Study[ptyp] OR Randomized Controlled Trial[ptyp] OR systematic[sb] OR Twin Study[ptyp] OR Validation Studies[ptyp])) AND ("2015/01/01"[PDAT] : "3000/12/31"[PDAT]))

Date Search Completed: November 19, 2019

Database searched: Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily <1946 to November 19, 2019>

T-piece resuscitator versus self-inflating bag for ventilation (NLS 870: ScopRev)

Database: Medline (Ovid MEDLINE® Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE® Daily and Ovid MEDLINE®)

"2014 - 2020" (3rd January 2020)

Search Strategy:

1 Masks/ (4174)

2 Insufflation/ (3324)

3 self-inflating bag*.ti,ab. (175)

4 bag valve mask*.ti,ab. (411)

5 ambu bag*.ti,ab. (66)

6 manual resuscitator*.ti,ab. (61)

7 (t-piece resuscitator* or tpiece resuscitator*).ti,ab. (67)
8 Ventilators, Mechanical/ (8609)
9 or/1-8 (16461)
10 Positive-Pressure Respiration/ (16930)
11 positive end expiratory pressure*.ti,ab. (5714)
12 PEEP.ti,ab. (5208)
13 positive pressure respiration.ti,ab. (234)
14 positive pressure ventilation.ti,ab. (5421)
15 or/10-14 (23267)
16 Respiratory Distress Syndrome, Newborn/ (12756)
17 Bronchopulmonary Dysplasia/ (4519)
18 Infant, Newborn/ (593133)
19 Delivery Rooms/ (1549)
20 Gestational Age/ (79576)
21 Premature Birth/ (13042)
22 Infant, Premature, Diseases/ (20146)
23 Term Birth/ (2869)
24 Live Birth/ (3375)
25 Birth Injuries/ (5008)
26 Birthing Centers/ (757)
27 Neonatal Nursing/ (3940)
28 Neonatal Screening/ (9902)
29 Intensive Care, Neonatal/ (5528)
30 Intensive Care Units, Neonatal/ (14111)
31 Animals, Newborn/ (112411)
32 "Transient Tachypnea of the Newborn"/ (101)
33 Persistent Fetal Circulation Syndrome/ (1148)
34 (newborn or neonatal or neonate or neonates or low birth weight or small for gestational age or prematur* or preterm or infant or infants or birth or delivery room).ti,ab. (870598)
35 or/16-34 (1237790)
36 9 and 15 and 35 (394)
37 exp animals/ not humans.sh. (4660155)
38 36 not 37 (380)
39 limit 38 to yr="2014 - 2020" (77)

Oxygen for preterm resuscitation (NLS 864: 2019 CoSTR publication)

Welsford M, Nishiyama C, Shortt C, Weiner G, Roehr CC, Isayama T, et al. Initial oxygen use for preterm newborn resuscitation: a systematic review with meta-analysis. Pediatrics. 2019;143(1):e20181828.

Pubmed

exp Infant, Newborn[MeSH]

OR Gestational Age[MeSH] OR Premature Birth[MeSH] OR Term Birth[MeSH] OR Live Birth[MeSH] OR Intensive Care, Neonatal[MeSH] OR Intensive Care, Neonatal[MeSH] OR ICUs, Neonatal[MeSH]

OR Delivery Rooms[MeSH]

OR exp Respiratory Distress Syndrome, Newborn[MeSH] OR Asphyxia Neonatorum[MeSH],

OR Bronchopulmonary Dysplasia[MeSH] OR Infant, Premature, Diseases[MeSH],
or Neonatal Nursing[MeSH]

OR Persistent Fetal Circulation syndrome[MeSH] OR (delivery room* or newborn* or neonat* or gestational age or prematur* or preterm or infant* OR birth)[Tiab]
AND Oxygen Inhalation Therapy{MeSH} OR high* adj2 oxygen[Tiab] OR 100% oxygen
AND Air{MeSH} OR (air OR "low* oxygen[Tiab] OR limited oxygen[Tiab] OR oxygen
concentration* or oxygen fraction* or target* oxygen or oxygen saturation*")[Tiab]
NOT (animal[MeSH] NOT humans[MeSH])

NOT (letter OR comment OR editorial OR Case Reports OR congresses) [Publication Type]

Updated search on 6 Sept 2020 Last 12 months = 54 results

("infant, newborn"[MeSH Terms] OR "gestational age"[MeSH Terms] OR "premature birth"[MeSH Terms] OR "term birth"[MeSH Terms] OR "live birth"[MeSH Terms] OR "intensive care, neonatal"[MeSH Terms] OR "delivery rooms"[MeSH Terms] OR "respiratory distress syndrome, newborn"[MeSH Terms] OR "asphyxia neonatorum"[MeSH Terms] OR "bronchopulmonary dysplasia"[MeSH Terms] OR "infant, premature, diseases"[MeSH Terms] OR "neonatal nursing"[MeSH Terms] OR "persistent fetal circulation syndrome"[MeSH Terms] OR "delivery room*"[Title/Abstract] OR "newborn*"[Title/Abstract] OR "neonat*"[Title/Abstract] OR "gestational age"[Title/Abstract] OR "prematur*"[Title/Abstract] OR "preterm"[Title/Abstract] OR "infant*"[Title/Abstract] OR "birth"[Title/Abstract]) AND ("oxygen inhalation therapy"[MeSH Terms] OR ("high*"[Title/Abstract] AND "and oxygen"[Title/Abstract]) OR "100% oxygen"[Title/Abstract]) AND ("air"[MeSH Terms] OR ("air"[Title/Abstract] OR "low oxygen"[Title/Abstract]) OR "limited oxygen"[Title/Abstract] OR "oxygen concentration*"[Title/Abstract] OR "oxygen fraction*"[Title/Abstract] OR ("target*"[Title/Abstract] AND "oxygen"[Title/Abstract]) OR "oxygen saturation*"[Title/Abstract])

[Oxygen for term resuscitation \(NLS 1554: 2019 CoSTR publication\)](#)

Welsford M, Nishiyama C, Shortt C, Isayama T, Dawson JA, Weiner G, et al. Room air for initiating term newborn resuscitation: A systematic review with meta-analysis. Pediatrics. 2019;143(1):e20181825.

Ovid Medline

- 1 Exp infant, newborn/(608 892)
- 2 Gestational age/(80 656)
- 3 Premature birth/(11 717)
- 4 Term birth/(2665)
- 5 Live birth/(2895)
- 6 Intensive care, neonatal/(5396)
- 7 ICUs, neonatal/(12 983)
- 8 Delivery rooms/(1462)
- 9 Exp respiratory distress syndrome, newborn/(15 343)
- 10 Asphyxia neonatorum/(7865)
- 11 Bronchopulmonary dysplasia/(4257)
- 12 Infant, premature, diseases/(20 660)
- 13 Neonatal nursing/(3777)
- 14 Persistent fetal circulation syndrome/(1168)
- 15 (Delivery room or delivery rooms or newborn* or neonatal or neonates or neonate or gestational age or premature* or preterm or birth or infant or infants).tw,kf. (933 982)
- 16 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 (1 236 952)
- 17 Oxygen inhalation therapy/(14 119)

- 18 (High* adj2 oxygen).tw,kf. (8800)
- 19 100% oxygen.tw,kf. (3476)
- 20 17 or 18 or 19 (25471)
- 21 Air/(18 830)
- 22 (Low oxygen or lowest oxygen or lower oxygen or limited oxygen or air or oxygen concentration* or oxygen fraction* or target* oxygen or oxygen saturation*).tw,kf. (272 639)
- 23 21 or 22 (278 007)
- 24 16 and 20 and 23 (1055)
- 25 24 not (animals/not humans/) (903)
- 26 Limit 25 to (case reports or comment or congresses or editorial or letter) (69)
- 27 25 not 26 (834)
- 28 Remove duplicates from 27 (760)
- 29 Limit 28 to y = "1980 to current" (724)

Circulatory Support

CPR Ratios (NLS 895: EvUp)

Database: Ovid MEDLINE(R) <1946 to October 21, 2019>

Search Strategy: CPR and compression and neonates

- 1 resuscitation/ or cardiopulmonary resuscitation/ or advanced cardiac life support/ or heart massage/ (43992)
- 2 (resuscitation or CPR or cardiopulmonary resuscitation).tw,kf. (52940)
- 3 (ACLS or cardiac life support).tw,kf. (1583)
- 4 (heart massage or cardiac massage or closed chest massage).tw,kf. (1638)
- 5 1 or 2 or 3 or 4 (68454)
- 6 compress*.tw,kf. (120199)
- 7 5 and 6 (4148)
- 8 Infant/ (771624)
- 9 infant, newborn/ or infant, low birth weight/ or infant, small for gestational age/ or infant, very low birth weight/ or infant, extremely low birth weight/ or infant, postmature/ or infant, premature/ or infant, extremely premature/ (592548)
- 10 8 or 9 (1111694)
- 11 7 and 10 (429)
- 12 (infant or infants or neonate or neonatal or newborn).tw,kf. (569480)
- 13 7 and 12 (381)
- 14 11 or 13 (506)

Two Thumb versus Two Finger (NLS 605: EvUp)

Database: Ovid MEDLINE(R) <June 6, 2014 to October 21, 2019>

Search Strategy: CPR and compression and neonates

- 1 resuscitation/ or cardiopulmonary resuscitation/ or advanced cardiac life support/ or heart massage/ (43992)
- 2 (resuscitation or CPR or cardiopulmonary resuscitation).tw,kf. (52940)
- 3 (ACLS or cardiac life support).tw,kf. (1583)

- 4 (heart massage or cardiac massage or closed chest massage).tw,kf. (1638)
5 1 or 2 or 3 or 4 (68454)
6 compress*.tw,kf. (120199)
7 5 and 6 (4148)
8 Infant/ (771624)
9 infant, newborn/ or infant, low birth weight/ or infant, small for gestational age/ or infant, very low birth weight/ or infant, extremely low birth weight/ or infant, postmature/ or infant, premature/ or infant, extremely premature/ (592548)
10 8 or 9 (1111694)
11 7 and 10 (429)
12 (infant or infants or neonate or neonatal or newborn).tw,kf. (569480)
13 7 and 12 (381)
14 11 or 13 (506)

Drug and Fluid Administration

Adrenaline/Epinephrine for Neonatal Resuscitation (NLS 593: SysRev)

(A) Database: Ovid MEDLINE: Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE® Daily and Ovid MEDLINE® <1946-Present>
Search Strategy:

-
- 1 exp Infant, Newborn/ (579533)
2 Delivery Rooms/ (1487)
3 exp Respiratory Distress Syndrome, Newborn/ (14631)
4 Premature Birth/ (11857)
5 Gestational Age/ (76970)
6 Term Birth/ (2673)
7 Live Birth/ (3033)
8 Infant, Newborn, Diseases/ (36690)
9 Persistent Fetal Circulation Syndrome/ (1104)
10 Infant, Premature, Diseases/ (19760)
11 Intensive Care, Neonatal/ (5292)
12 Intensive Care Units, Neonatal/ (13184)
13 Neonatal Nursing/ (3808)
14 Nurses, Neonatal/ (72)
15 Neonatology/ (2597)
16 Neonatologists/ (54)
17 Perinatology/ (1741)
18 exp Perinatal Care/ (9167)
19 Perinatal Death/ (1141)
20 Perinatal Mortality/ (1899)
21 newborn*.tw,kf. (166772)
22 neonat*.tw,kf. (249788)
23 prematur*.tw,kf. (137715)
24 preterm.tw,kf. (66035)
25 delivery room*.tw,kf. (2196)
26 low birth weight.tw,kf. (25542)
27 gestational age.tw,kf. (62579)
28 perinat*.tw,kf. (70261)

29 antenat*.tw,kf. (33965)
30 NICU.tw,kf. (8788)
31 postnat*.tw,kf. (103157)
32 newly born.tw,kf. (1074)
33 or/1-32 (1006609)
34 exp Heart Arrest/ (44463)
35 Ventricular Fibrillation/ (16579)
36 exp Resuscitation/ (89219)
37 Asphyxia/ (6032)
38 Asphyxia Neonatorum/ (7518)
39 Bradycardia/ (10554)
40 cardi* arrest*.tw,kf. (35302)
41 heart arrest*.tw,kf. (2191)
42 asystol*.tw,kf. (4003)
43 pulseless electrical activity.tw,kf. (770)
44 Advanced Cardiac Life Support.tw,kf. (990)
45 advanced life support.tw,kf. (2122)
46 acls.tw,kf. (1044)
47 resuscitat*.tw,kf. (59655)
48 ventricular fibrillation*.tw,kf. (17984)
49 return of spontaneous circulation.tw,kf. (2665)
50 ROSC.tw,kf. (1917)
51 bradycardi*.tw,kf. (21905)
52 asphyxia*.tw,kf. (14899)
53 or/34-52 (217877)
54 exp Epinephrine/ (55085)
55 epinephrin*.tw,kf. (37845)
56 adrenalin*.tw,kf. (22076)
57 54 or 55 or 56 (77315)
58 33 and 53 and 57 (458)
59 58 not (animals/ not human/) (369)
60 limit 59 to (comment or editorial or letter) (17)
61 59 not 60 (352)
62 remove duplicates from 61 (350)

Intraosseous versus Umbilical Vein for Emergency Access (NLS 616: SysRev)

Granfeldt A, Avis SR, Lind PC, Holmberg MJ, Kleinman M, Maconochie I, Hsu CH, de Almeida MF, Wang TL, Neumar RW, Andersen LW. Intravenous vs. Intraosseous Administration of Drugs During Cardiac Arrest: A Systematic Review. Resuscitation. 2020; 149: 150–157

All Ovid Medline <1946 - present>
1 exp Heart Arrest/ (45608)
2 Ventricular Fibrillation/ (16747)
3 Resuscitation/ (25588)
4 Heart Massage/ (3068)
5 exp Cardiopulmonary Resuscitation/ (16927)
6 cardi* arrest*.tw,kf. (36886)
7 heart arrest*.tw,kf. (2227)
8 OHCA.tw,kf. (2201)
9 IHCA.tw,kf. (288)

10 CPR.tw,kf. (11630)
11 advanced cardiac life support.tw,kf. (1018)
12 ACLS.tw,kf. (1080)
13 basic life support.tw,kf. (1880)
14 BLS.tw,kf. (1775)
15 asystol*.tw,kf. (4118)
16 pulseless electrical activity.tw,kf. (820)
17 pulseless ventricular tachycardia.tw,kf. (318)
18 (return of circulation or return of spontaneous circulation or ROSC).tw,kf. (3669)
19 resuscitat*.tw,kf. (61684)
20 ventricular fibrillation*.tw,kf. (18360)
21 chest compression*.tw,kf. (3561)
22 or/1-21 (141248)
23 Infusions, Intraosseous/ (702)
24 Intraosseous.tw,kf. (5865)
25 Intra-osseous.tw,kf. (623)
26 or/23-25 (6533)
27 Infusions, Intravenous/ (53864)
28 Intravenous.tw,kf. (276952)
29 Intra-venous.tw,kf. (538)
30 Umbilical Veins/ (12517)
31 (umbilical vein or umbilical veins or umbilical venous).tw,kf. (24157)
32 (venous adj3 catheter*).tw,kf. (16311)
Page 6 of 18
33 (vascular adj3 catheter*).tw,kf. (2106)
34 catheterization/ or catheterization, central venous/ or catheterization, peripheral/ (71132)
35 catheters/ or catheters, indwelling/ or exp vascular access devices/ (26842)
36 central venous.tw,kf. (24246)
37 vascular access.tw,kf. (9286)
38 or/27-37 (439774)
39 (IO adj15 IV).tw,kf. (145)
40 (26 and 38) or 39 (747)
41 22 and 40 (337)
42 41 not (animals/ not humans/) (278)
43 limit 42 to (case reports or comment or editorial or letter) (49)
44 42 not 43 (229)
45 remove duplicates from 44 (228)

Volume Infusion During Neonatal Resuscitation (NLS 598: EvUp)

Pubmed

(Infant, Newborn [mh] OR neonat* [tiab] OR newborn [tiab]) AND (resuscitation [mh] OR cardiopulmonary resuscitation [mh] OR resuscitation [tiab]) AND (volume, blood [mh] OR fluid therapy [mh] OR Blood Substitutes [mh] OR fluid bolus [tiab]) AND (systematic review [pt] OR review [pt] OR randomized controlled trial [pt] OR trial [Title/Abstract]) AND 2008/01/01:2020/01/01 [dp] NOT adult [tiab]

Updated 6 Sept 2020 Last 12 months = 7 results

Searched

("infant, newborn"[MeSH Terms] OR "neonat*"[Title/Abstract] OR "newborn"[Title/Abstract]) AND ("resuscitation"[MeSH Terms] OR "cardiopulmonary

resuscitation"[MeSH Terms] OR "resuscitation"[Title/Abstract]) AND ("blood volume"[MeSH Terms] OR "fluid therapy"[MeSH Terms] OR "blood substitutes"[MeSH Terms] OR "fluid bolus"[Title/Abstract])

Sodium Bicarbonate During Neonatal Resuscitation (NLS 606: EvUp)

#1 'newborn'/exp
'infant'/exp
neonat* in title or abstract
newborn\$ in title or abstract
baby in title or abstract
babies in title or abstract
infant\$ in title or abstract
child in title or abstract
birth in title or abstract Population – Newborns

Newborns should be the focus of the article, so all newborn terms (neonates; newborns; babies; infants; child) must appear in either the title or the abstract, or the article must be tagged with EMTREE terms for newborn or infant.

#2 #1 NOT ([conference abstract]/lim OR [conference review]/lim OR [editorial]/lim OR [erratum]/lim OR [letter]/lim OR [note]/lim OR [book]/lim OR 'case report'/de) Exclude publication types

Conference abstracts and other ineligible study types were removed here.

#3 #2 AND [2009-2020]/py Date limit

The last ILCOR search was run to some point in 2008, so the publication date range was limited to 2008 or later.

This search string can be combined with intervention strings or other population strings to produce a final number of records.

#4 sodium bicarbonate in title or abstract or keyword

nahco in title or abstract or keyword

'na hco3' in title or abstract or keyword

'na hco'in title or abstract or keyword

'bicarbonate' in title or abstract or keyword Intervention – sodium bicarbonate

Sodium bicarbonate must appear in the title, abstract or the list of keywords allocated by the study authors.

#5 #3 AND #4 Newborn + sodium bicarbonate

Records for use of sodium bicarbonate in newborns.

This string identified the checklist studies.

#6 #5 NOT ('animal'/exp NOT 'human'/exp OR 'nonhuman'/exp OR 'rodent'/exp OR 'animal experiment'/exp OR 'experimental animal'/exp OR rat:ti,ab OR rats:ti,ab OR mouse:ti,ab OR mice:ti,ab OR dog\$:ti,ab OR pig\$:ti,ab OR porcine:ti,ab OR swine:ti,ab OR chick\$:ti,ab) Newborn + sodium bicarbonate: Human studies

The search results were stratified using this filter for animal studies.

#8 #5 NOT #6 Newborn + sodium bicarbonate: Animal studies

Prognostication during CPR

Impact of Duration of Intensive Resuscitation (NLS 896: SysRev)

1 "Infant, Newborn"/ or "newborn"/ or (newborn* or "newly born" or neonat* or "full term infant" or "full term infants").ti,ab,kf,kw. [NEWBORN]

- 2 ("Apgar Score"/ or Apgar.ti,ab,kf,kw.) and ("0" or zero or "1" or one).ti,ab,kf,kw.
[APGAR]
- 3 "Heart Arrest"/ or "Bradycardia"/ or exp "bradycardia"/ or ("heart arrest" or "cardiac arrest" or "cardiopulmonary arrest" or "cardio-pulmonary arrest" or asystol* or bradycardi* or bradyarrhythmi* or pulseless or pulse-less or "no pulse" or "no detectable pulse" or "undetectable pulse" or "un-detectable pulse" or "no heartbeat*" or "no detectable heartbeat*" or "no heart beat*" or "no detectable heart beat*" or "no heart rate*" or "no detectable heart rate*" or "lack of detectable heart rate*" or "lack of detectable heartbeat*" or "lack of detectable heart beat*" or "lack of heartbeat*" or "lack of heart beat*" or "undetectable heart beat*" or "undetectable heartbeat*" or "undetectable heart rate*" or "un-detectable heart beat*" or "un-detectable heartbeat*" or "un-detectable heart rate*" or "respiratory failure" or hypoxia or hypoxic or apnea* or apneic or anoxia or anoxic).ti,ab,kf,kw. [CONDITION #1]
- 4 "Asphyxia Neonatorum"/ or "newborn hypoxia"/ [CONDITION #2]
- 5 1 and 2 [NEWBORN + APGAR]
- 6 (1 and 3) or 4 [NEWBORN CONDITION]
- 7 ("10 minute*" or "ten minute*" or "10 min" or "ten min" or "10 mins" or "ten mins").ti,ab,kf,kw. [TIME INTERVAL]
- 8 5 and 7 [NEWBORN + APGAR + TIME INTERVAL]
- 9 5 and 6 [NEWBORN + APGAR + CONDITION]
- 10 8 or 9 [NEWBORN + APGAR + (TIME INTERVAL OR CONDITION)]
- 11 exp "Resuscitation"/ or exp "Ventilators, Mechanical"/ or "mechanical ventilator"/ or (resuscitat* or "heart massag*" or "cardiac massag*" or "heart compression*" or "cardiac compression*" or "chest compression*" or "artificial respiration*" or "positive pressure respiration*" or "continuous positive airway pressure*" or "positive end expiratory pressure*" or ventilation* or ventilator* or CPAP or CPR or "cardiac life support" or ACLS).ti,ab,kf,kw.
- 12 "Epinephrine"/ or (epinephrine or adrenalin or adrenalina or adrenaline or epitrate or lyophrin or epifrin or adnephrin or adnephrene or adrenamine or adrenapax or adrenazin or adrenine or adrin or adrine or advaradin or asthmahaler or balmadren or biorenine or bosmin or chelafrin or drenamist or dylephrin or epiglaufrin or epimephrine or epinefrina or epinephran or epirenamine or epirenan or exadrin or glaucon or glaucosan or glaufrin or "glin epin" or glycierenan or haemostatin or hemisine or hemostasin or hemostatin or hypernephrin or "isopto epinal" or levoadrenalin or levoadrenaline or levoepinephrine or levorenin or levorenine or methylaminoethanolcatechol or methylarterenol or mucidrina or myostenine or nephridine or nieraline or paranephrin or posumin or primatene or renaglandin or renaglandulin or renaleptine or renalina or renaline or renoform or renostypticin or renostyptin or scurenaline or simplene or soladren or sphygmogenin or styptirenal or supracapsulin or supranephrene or supranephrin or supranol or suprarenaline or suprarenin or suprarenine or suprel or surenine or surrenine or "sus phrine" or susphrine or symjepi or sympathin or takamina or tonogen or trenamist or vasoconstrictine or vasodrine or vasotonin or weradren).ti,ab,kf,kw,nm,du,dy.
- 13 11 or 12 [INTERVENTION]
- 14 10 and 13 [NEWBORN + (APGAR OR CONDITION) + INTERVENTION]
- 15 (Animals/ or "Animal Experimentation"/ or "Models, Animal"/ or "Disease Models, Animal"/) not (Humans/ or "Human Experimentation"/)
- 16 (exp "animal model"/ or exp "animal experiment"/ or "nonhuman"/ or exp "vertebrate"/) not (exp "human"/ or exp "human experiment"/)
- 17 14 not (15 or 16) [ANIMAL STUDIES REMOVED]
- 18 (comment or letter or "newspaper article" or news or note).pt.

19 (conference or "conference abstract" or "conference paper" or "conference review" or congresses).pt.

20 17 not (18 or 19) [PUBLICATION TYPES REMOVED]

EBM Reviews - Cochrane Database of Systematic Reviews <2005 to October 9, 2019>

EBM Reviews - ACP Journal Club <1991 to September 2019>

EBM Reviews - Database of Abstracts of Reviews of Effects <1st Quarter 2016>

EBM Reviews - Cochrane Clinical Answers <August 2019>

EBM Reviews - Cochrane Central Register of Controlled Trials <September 2019>

EBM Reviews - Cochrane Methodology Register <3rd Quarter 2012>

EBM Reviews - Health Technology Assessment <4th Quarter 2016>

EBM Reviews - NHS Economic Evaluation Database <1st Quarter 2016>

Embase <1974 to 2019 October 16>

Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily <1946 to October 16, 2019>

21 remove duplicates from 20

EBM Reviews - Cochrane Database of Systematic Reviews <2005 to October 9, 2019>

EBM Reviews - ACP Journal Club <1991 to September 2019>

EBM Reviews - Database of Abstracts of Reviews of Effects <1st Quarter 2016>

EBM Reviews - Cochrane Clinical Answers <August 2019>

EBM Reviews - Cochrane Central Register of Controlled Trials <September 2019>

EBM Reviews - Cochrane Methodology Register <3rd Quarter 2012>

EBM Reviews - Health Technology Assessment <4th Quarter 2016>

EBM Reviews - NHS Economic Evaluation Database <1st Quarter 2016>

Embase <1974 to 2019 October 16>

Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily <1946 to October 16, 2019>

22 from 21 keep 1-212

23 from 21 keep 213-338

24 from 21 keep 339-617

Post-Resuscitation Care

Rewarming of hypothermic newborns (NLS 858: EvUp)

EMBASE.com 02 December 2019

#1 'newborn'/exp OR 'infant'/exp OR neonat*:ti,ab OR newborn\$:ti,ab OR baby:ti,ab OR babies:ti,ab OR infant\$:ti,ab OR child:ti,ab OR birth:ti,ab

#2 #1 NOT ('animal'/exp NOT 'human'/exp OR 'nonhuman'/exp OR 'rodent'/exp OR 'animal experiment'/exp OR 'experimental animal'/exp OR rat:ti,ab OR rats:ti,ab OR mouse:ti,ab OR mice:ti,ab OR dog\$:ti,ab OR pig\$:ti,ab OR porcine:ti,ab OR swine:ti,ab OR chick\$:ti,ab)

#3 #2 NOT ([conference abstract]/lim OR [conference review]/lim OR [editorial]/lim OR [erratum]/lim OR [letter]/lim OR [note]/lim OR [book]/lim OR 'case report'/de)

#4 #3 AND [2014-2020]/py

#5 hypothermia'/de OR hypotherm*:ab,ti

#6 warming'/de OR 'heating'/de OR 'heat'/de OR 'polyethylene'/de OR 'homeostasis'/de OR rewarmp*:ab,ti OR 're warm*':ti,ab OR heat*:ab,ti OR warm*:ab,ti OR polyethylene:ab,ti

#7 #4 AND #5 AND #6

#8 induced hypothermia'/de OR 'targeted temperature management'/de OR 'therapeutic hypotherm*':ti OR 'induced hypotherm*':ti OR 'deliberate hypotherm*':ti

#9 #7 NOT #8 Neonatal + hypothermia + warming (minus induced hypothermia)

Induced hypothermia in settings with limited resources (NLS 734: EvUp)

EMBASE.com 03 December 2019

#1 'newborn'/exp OR 'infant'/exp OR neonat*:ti,ab OR newborn\$:ti,ab OR baby:ti,ab OR babies:ti,ab OR infant\$:ti,ab OR child:ti,ab OR birth:ti,ab

#2 #1 NOT ('animal'/exp NOT 'human'/exp OR 'nonhuman'/exp OR 'rodent'/exp OR 'animal experiment'/exp OR 'experimental animal'/exp OR rat:ti,ab OR rats:ti,ab OR mouse:ti,ab OR mice:ti,ab OR dog\$:ti,ab OR pig\$:ti,ab OR porcine:ti,ab OR swine:ti,ab OR chick\$:ti,ab)

#3 #2 NOT ([conference abstract]/lim OR [conference review]/lim OR [editorial]/lim OR [erratum]/lim OR [letter]/lim OR [note]/lim OR [book]/lim OR 'case report'/de)

#4 #3 AND [2012-2020]/py

#5 'induced hypothermia'/de OR 'targeted temperature management'/de OR ((targeted OR management) NEAR/2 temperature) OR 'therapeutic hypotherm*':ti,ab OR 'induced hypotherm*':ti,ab OR 'deliberate hypotherm*':ti,ab OR 'hypotherm* therapy':ti,ab OR 'paramedic cooling':ti,ab OR 'targeted temperature management':ti,ab OR 'whole body cooling':ti,ab OR 'brain cooling':ti,ab OR 'selective cooling':ti,ab

#6 'body temperature'/exp OR 'body temperature':ti,ab OR 'hypothermi*':ti,ab OR 'target temperature':ti,ab OR (temperature NEAR/3 management) OR cool*:ti,ab

#7 'hypoxic ischemic encephalopathy'/exp OR 'brain ischemia'/de OR 'newborn hypoxia'/exp OR encephalopathy:ti,ab OR asphyx*:ti,ab OR hypox*:ti,ab

#8 #4 AND (#5 OR (#6 AND #7))

#9 'low resource setting'/de OR 'developing country'/de OR 'low income country'/de OR ((developing OR 'third world') NEAR/3 (countr* OR nation\$)) OR (('low income' OR 'low resource' OR 'under funded') NEAR/3 (countr* OR nation\$ OR setting\$ OR institution\$ OR hospital\$ OR centre\$ OR center\$ OR provider\$ OR facilit*)) OR (limited NEAR/2 (resource* OR income)) OR ((low OR minim* OR reduced OR modest) NEAR/3 (price OR cost OR resource*)) OR poor:ti,ab,kw,de OR poverty:ti,ab,kw,de OR underresourced:ti,ab,kw,de OR 'under resourced':ti,ab,kw,de OR 'cost effective':ti,ab,kw,de OR cheap:ti,ab,kw,de OR inexpensive:ti,ab,kw,de OR economical:ti,ab,kw,de OR 'low cost':ti,ab,kw,de

#10 #8 AND #9 Newborn + intervention + low resource setting

#11 newborn'/exp OR 'infant'/exp OR neonat*:ti OR newborn\$:ti OR baby:ti OR babies:ti OR infant\$:ti OR child:ti OR birth:ti

#12 #11 NOT ('animal'/exp NOT 'human'/exp OR 'nonhuman'/exp OR 'rodent'/exp OR 'animal experiment'/exp OR 'experimental animal'/exp OR rat:ti,ab OR rats:ti,ab OR mouse:ti,ab OR mice:ti,ab OR dog\$:ti,ab OR pig\$:ti,ab OR porcine:ti,ab OR swine:ti,ab OR chick\$:ti,ab)

#13 #12 NOT ([conference abstract]/lim OR [conference review]/lim OR [editorial]/lim OR [erratum]/lim OR [letter]/lim OR [note]/lim OR [book]/lim OR 'case report'/de)

#14 #13 AND [2012-2020]/py

#15 therapeutic hypotherm*':ti OR 'induced hypotherm*':ti OR 'deliberate hypotherm*':ti OR 'hypotherm* therapy':ti

#16 #14 AND #15

#17 #16 NOT #10 (Newborn + restrictive, specific intervention) minus (Newborn + intervention + low resource setting)

Post-resuscitation glucose management (NLS 607: EvUp)

```
#      Search string (developed for the EMBASE.com platform, which includes Medline  
and Embase databases)  
#1      'newborn'/exp  
'infant'/exp  
neonat*      in title or abstract  
newborn$      in title or abstract  
baby      in title or abstract  
babies     in title or abstract  
infant$    in title or abstract  
child      in title or abstract  
birth      in title or abstract  
#2      #1 NOT ('animal'/exp NOT 'human'/exp OR 'nonhuman'/exp OR 'rodent'/exp OR  
'animal experiment'/exp OR 'experimental animal'/exp OR rat:ti,ab OR rats:ti,ab OR  
mouse:ti,ab OR mice:ti,ab OR dog$:ti,ab OR pig$:ti,ab OR porcine:ti,ab OR swine:ti,ab OR  
chick$:ti,ab)  
#3      #2 NOT ([conference abstract]/lim OR [conference review]/lim OR [editorial]/lim OR  
[erratum]/lim OR [letter]/lim OR [note]/lim OR [book]/lim OR 'case report'/de)  
#4      #3 AND [2009-2020]/py  
#5      glucose:ti,ab,kw NOT (diabetes:ti,ab  
'diabetes mellitus'/exp)  
#6      'resuscitation'/exp  
'heart arrest'/exp  
'newborn intensive care'/exp  
'return of spontaneous circulation'/exp  
resuscitation    in title or abstract  
'return of spontaneous circulation'    in title or abstract  
rosc    in title or abstract  
'heart arrest$'    in title or abstract  
'cardiac arrest$'    in title or abstract  
'cardiovascular arrest$'    in title or abstract  
'cardiopulmonary arrest$'    in title or abstract  
'cardio-pulmonary arrest$'    in title or abstract  
#7      glycem*      in title or abstract  
glycaem*      in title or abstract  
hypoglycem*    in title or abstract  
hypoglycaem*    in title or abstract  
'hypoglycemia'/de  
'glucose blood level'/mj  
#8      #4 AND #5 AND #6  
#9      #4 AND #5 AND #7 NOT #8
```

PBLS: CPR AND CPR QUALITY

Sequence of compression and ventilation (BLS 661: Shared SysRev)

Ashoor HM, Lillie E, Zarin W, Pham B, Khan PA, Nincic V, et al. Effectiveness of different compression-to-ventilation methods for cardiopulmonary resuscitation: A systematic review. Resuscitation. 2017;118:112-25.

Database: Ovid MEDLINE(R) <1946 to January Week 1 2016>, Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations <January 14, 2016>

Search Strategy:

- 1 exp Cardiopulmonary Resuscitation/
- 2 (cardiopulmonary respiratory resuscitation\$ or cardiopulmonary resuscitation\$ or cardio pulmonary resuscitation\$ or cardio-pulmonary resuscitation\$ or CPR or Advanced Cardiac Life Support or basic cardiac life support or code blue or resuscitation\$ mouth-to-mouth or mouth-to-mouth resuscitation\$ or mouth to mouth resuscitation\$).tw.
- 3 Resuscitation/
- 4 limit 3 to yr=1978-1991
- 5 1 or 2 or 4
- 6 mt.fs.
- 7 method\$.tw.
- 8 6 or 7
- 9 5 and 8
- 10 randomized controlled trial.pt.
- 11 (randomized or placebo).mp.
- 12 clinical trial.pt.
- 13 Comparative Study.pt.
- 14 cross-over studies/
- 15 controlled clinical trial.pt.
- 16 (time adj series).tw.
- 17 (pre test or pretest or (posttest or post test)).tw.
- 18 random allocation/
- 19 (controlled adj before).tw.
- 20 exp epidemiologic studies/
- 21 ((case* adj3 control*) or (case adj3 comparison*) or control group*).tw.
- 22 or/10-21
- 23 9 and 22
- 24 (control\$ or compar\$ or random\$).tw.
- 25 9 and 24
- 26 23 or 25
- 27 animals/ not humans/
- 28 26 not 27
- 29 (editorial or letter).pt.
- 30 28 not 29
- 31 ("18334691" or "19660833" or "16564776" or "18374452" or "20370759" or "26550795").ui.
- 32 30 or 31
- 33 comment.pt.
- 34 32 not 33
- 35 remove duplicates from 34

Pulse check accuracy (PLS 393: EvUp)

- pulse check – pulse – signs of life – gasp* (no added value of recognition – identif*), either as individual term (ti,ab,kw) or related MESH Term; combined using Boolean operators
-
- specific blocks defined for certain indicators:

- o paediatric: to define the ‘paediatric population’ we used the predefined BMI block (<https://blocks.bmi-online.nl>)
- o cardiac arrest: CPR/cardiac arrest: “life support care” [MESH] OR “life support” [TIAB] OR cardiopulmonary resuscitation [MESH] OR “cardiopulmonary resuscitation” [TIAB] OR ROSC [TIAB] OR “return of spontaneous circulation” [TIAB] OR heart arrest [MESH] OR “cardiac arrest” [TIAB]
- o To exclude animal studies: NOT (animals [mh] NOT humans [mh])
- o To exclude NOT "Letter"[Publication Type] OR "Editorial"[Publication Type] OR "Comment"[Publication Type])
 - For Embase we prefiltered to avoid Medline duplicates by using [embase]/lim NOT ([embase]/lim AND [medline]/lim)
- o Cardiac arrest: (resuscitation:ti,ab,kw OR 'resuscitation' OR 'resuscitation'/exp OR resuscitation OR 'heart' OR 'heart'/exp OR heart) AND (arrest:ti,ab,kw OR 'heart' OR 'heart'/exp OR heart) AND ('arrest' OR 'arrest'/exp OR arrest)

Chest compression-only versus conventional CPR (2017 CoSTR)

As for BLS 661 above

Pediatric compression depth (PLS 314: ScopRev)

Database: Pubmed

Search strings:

```
((((((((((((cardiac arrest[MeSH Terms]) OR heart arrest[Title/Abstract]) OR
cardiopulmonary arrest[Title/Abstract]) OR cardiovascular arrest[Title/Abstract]) OR
(asystole*[MeSH Terms]) OR ventricular fibrillation[Title/Abstract] OR pulseless electrical
activity[Title/Abstract]) OR Cardiopulmonary Resuscitation[MeSH Terms]) OR
resuscitation[Title/Abstract]) OR CPR[Title/Abstract]) OR life support[Title/Abstract]) OR
CPR[Title/Abstract]) OR heart massage*[MeSH Terms]) OR heart massage*[Title/Abstract])
OR cardiac massage*[Title/Abstract]) OR chest compression*[Title/Abstract]) OR cardiac
compression*[Title/Abstract]) AND ((((((((((depth[Title/Abstract]) OR
recoil[Title/Abstract]) OR decompression[Title/Abstract]) OR elasticity[Title/Abstract]) OR
inches[Title/Abstract]) OR centimetres[Title/Abstract]) OR centimeters[Title/Abstract]) OR
depress[Title/Abstract]) OR relaxation[Title/Abstract]) OR chest wall
compression[Title/Abstract]) OR chest compression quality[Title/Abstract]) OR chest
compression metrics[Title/Abstract]) OR compression-force[Title/Abstract]) AND
(((‘pediatric*’[MeSH Terms]) OR ‘paediatric*’ *[Title/Abstract])) OR child*:
*[Title/Abstract]) OR exp ‘infan*’ *[Title/Abstract]) OR ‘adolescen**[Title/Abstract])
```

Updated 30 Aug 2020 Last 1 year = 44 results

Actually searched

```
("heart arrest"[MeSH Terms] OR "heart arrest"[Title/Abstract] OR "cardiopulmonary
arrest"[Title/Abstract] OR "cardiovascular arrest"[Title/Abstract] OR "ventricular
fibrillation"[Title/Abstract] OR "pulseless electrical activity"[Title/Abstract] OR
"cardiopulmonary resuscitation"[MeSH Terms] OR "resuscitation"[Title/Abstract] OR
"CPR"[Title/Abstract] OR "life support"[Title/Abstract] OR "CPR"[Title/Abstract] OR "heart
massage"[MeSH Terms] OR "heart massage*"[Title/Abstract] OR "cardiac
massage*"[Title/Abstract] OR "chest compression*"[Title/Abstract] OR "cardiac
compression*"[Title/Abstract]) AND ("depth"[Title/Abstract] OR "recoil"[Title/Abstract]
OR "decompression"[Title/Abstract] OR "elasticity"[Title/Abstract] OR
"inches"[Title/Abstract] OR "centimetres"[Title/Abstract] OR "centimeters"[Title/Abstract]
OR "depress"[Title/Abstract] OR "relaxation"[Title/Abstract] OR "chest wall
compression"[Title/Abstract] OR "chest compression quality"[Title/Abstract] OR
```

"compression metrics"[Title/Abstract] OR "compression-force"[Title/Abstract]) AND ("pediatrics"[MeSH Terms] OR "paediatric*"[Title/Abstract] OR "child*"[Title/Abstract] OR "infan*"[Title/Abstract] OR "adolescen*"[Title/Abstract])

One hand vs two hand compressions for children (PLS 375: EvUp) combined with circumferential compressions for infants (PLS 416: EvUp)

- chest compression, two fingers, two thumb encircling, Thaler, circumferential, one hand, two hand, chest compression method or technique, chest compression location, chest compression point; either as individual term (ti,ab,kw) or related MESH Term; combined using Boolean operators
- Specific blocks defined for certain indicators:
 - o paediatric: to define the ‘paediatric population’ we used the predefined BMI block (<https://blocks.bmi-online.nl>)
 - o cardiac arrest: CPR/cardiac arrest: “life support care” [MESH] OR “life support” [TIAB] OR cardiopulmonary resuscitation [MESH] OR “cardiopulmonary resuscitation” [TIAB] OR ROSC [TIAB] OR “return of spontaneous circulation” [TIAB] OR heart arrest [MESH] OR “cardiac arrest” [TIAB]
 - o To exclude animal studies: NOT (animals [mh] NOT humans [mh])
 - o To exclude NOT "Letter"[Publication Type] OR "Editorial"[Publication Type] OR "Comment"[Publication Type])
- For Embase we prefiltered to avoid Medline duplicates by using [embase]/lim NOT ([embase]/lim AND [medline]/lim)
 - o Cardiac arrest: (resuscitation:ti,ab,kw OR 'resuscitation' OR 'resuscitation'/exp OR resuscitation OR 'heart' OR 'heart'/exp OR heart) AND (arrest:ti,ab,kw OR 'heart' OR 'heart'/exp OR heart) AND ('arrest' OR 'arrest'/exp OR arrest)

PBLS: AUTOMATED EXTERNAL DEFIBRILLATION

Use of Automated External Defibrillators in infants with Out-of-Hospital Cardiac Arrest (PLS 425: EvUp)

- Automated external defibrillator – AED – “Sudden collapse”- dose attenuator, either as individual term (ti,ab,kw) or related MESH Term; combined using Boolean operators
- specific blocks defined for certain indicators:
 - o paediatric: to define the ‘paediatric population’ we used the predefined BMI block (<https://blocks.bmi-online.nl>)
 - o cardiac arrest: CPR/cardiac arrest: “life support care” [MESH] OR “life support” [TIAB] OR cardiopulmonary resuscitation [MESH] OR “cardiopulmonary resuscitation” [TIAB] OR ROSC [TIAB] OR “return of spontaneous circulation” [TIAB] OR heart arrest [MESH] OR “cardiac arrest” [TIAB]
 - o To exclude animal studies: NOT (animals [mh] NOT humans [mh])
 - o To exclude NOT "Letter"[Publication Type] OR "Editorial"[Publication Type] OR "Comment"[Publication Type])
- For Embase : we prefiltered to avoid Medline duplicates by using [embase]/lim NOT ([embase]/lim AND [medline]/lim)
 - o Cardiac arrest: (resuscitation:ti,ab,kw OR 'resuscitation' OR 'resuscitation'/exp OR resuscitation OR 'heart' OR 'heart'/exp OR heart) AND (arrest:ti,ab,kw OR 'heart' OR 'heart'/exp OR heart) AND ('arrest' OR 'arrest'/exp OR arrest)

PBLS: PREVENTION OF CARDIAC ARREST

Pediatric early warning scores (PEWS) (PLS 818: ScopRev)

PubMed (Jan 2015 – September 2019)

Updated 30 Aug 2020 Last 1 year = 26 results

("pediatrics"[mh] OR "pediatric"[ti] OR "paediatric"[ti]) AND ("patient care team"[MeSH Major Topic] OR medical emergency team[ti] OR medical emergency teams[ti] OR pMET[ti] OR rapid response system[ti] OR rapid response team[ti] OR rapid response teams[ti] OR early warning system[ti] OR early warning score[ti] OR early warning scores[ti])

Cochrane Central Register of Controlled Trials /CENTRAL (Jan 2015 to September 2019)
"early warning score*", "early warning system*", "early warning tool*", "VitalPAC Early Warning Score", "activation criteria", "Rapid Response Team", "Rapid Response system*", "Track and trigger", "trigger tools", "calling criteria", "Alert criteria", "Rapid Response", pediatric* or paediatric* or infant* or child* or baby or toddler or babies or teen* or adolescent*, "Pediatric Early Warning", "Paediatric Early Warning", "p?ediatric alert", "Pediatric Rapid Response", "Pediatric Advanced Warning Score*", "Paediatric Advanced Warning Score*", "infant early warning", "Bedside PEWS", "Bedside paediatric early warning"

Pediatric medical emergency/Rapid response teams (PLS 397:EvUp)

("Infant"[Mesh] OR "Child"[Mesh] OR "Child, Preschool"[Mesh] OR "Pediatrics"[Mesh] OR "child*"[TIAB] OR "paediatric*"[TIAB] OR "pediatric"[TIAB]) AND ("Heart Arrest"[Mesh] OR "cardiac arrest"[TIAB] OR "cardiovascular arrest"[TIAB] OR "heart arrest"[TIAB] OR "asystole"[All Fields] OR "pulseless electrical activity"[All Fields] OR "Advanced Cardiac Life Support"[All Fields] OR "ACLS"[TIAB] OR "Ventricular Fibrillation"[Mesh:noexp] OR "cardiopulmonary resuscitation"[All Fields] OR "cardiopulmonary arrest"[TIAB] OR "cardiopulmonary arrests"[TIAB]) AND ("Hospital Rapid Response Team"[Mesh] OR "medical emergency team"[TIAB] OR "medical emergency teams"[TIAB] OR "medical emergency response team"[TIAB] OR "medical emergency response teams"[TIAB] OR pMET[TIAB] OR MERT[TIAB] OR MET[TI] OR pMERT[TIAB] OR "rapid response system"[TIAB] OR "rapid response systems"[TIAB] OR "rapid-response system"[TIAB] OR "rapid-response systems"[TIAB] OR "rapid-response team"[TIAB] OR "rapid-response teams"[TIAB] OR "rapid response team"[TIAB] OR "rapid response teams"[TIAB] OR RRT[TIAB] OR pRRT[TIAB] OR RRs[TIAB] OR pRRs[TIAB])) NOT ("Wounds and Injuries"[Mesh] OR Trauma[TIAB]) AND English[lang]

Searched:

Updated 30 Aug 2020 Last 1 year = 5 results

("Infant"[Mesh] OR "Child"[Mesh] OR "Child, Preschool"[Mesh] OR "Pediatrics"[Mesh] OR "child*"[TIAB] OR "paediatric*"[TIAB] OR "pediatric"[TIAB]) AND ("Heart Arrest"[Mesh] OR "cardiac arrest"[TIAB] OR "cardiovascular arrest"[TIAB] OR "heart arrest"[TIAB] OR "asystole"[All Fields] OR "pulseless electrical activity"[All Fields] OR "Advanced Cardiac Life Support"[All Fields] OR "ACLS"[TIAB] OR "Ventricular Fibrillation"[Mesh:noexp] OR "cardiopulmonary resuscitation"[All Fields] OR "cardiopulmonary arrest"[TIAB] OR "cardiopulmonary arrests"[TIAB]) AND ("Hospital Rapid Response Team"[Mesh] OR "medical emergency team"[TIAB] OR "medical emergency teams"[TIAB] OR "medical emergency response team"[TIAB] OR "medical emergency response teams"[TIAB] OR pMET[TIAB] OR MERT[TIAB] OR MET[TI] OR

pMERT[TIAB] OR "rapid response system"[TIAB] OR "rapid response systems"[TIAB] OR "rapid-response system"[TIAB] OR "rapid-response systems"[TIAB] OR "rapid-response team"[TIAB] OR "rapid-response teams"[TIAB] OR "rapid response team"[TIAB] OR "rapid response teams"[TIAB] OR RRT[TIAB] OR pRRT[TIAB] OR RRs[TIAB] OR pRRs[TIAB])) NOT ("Wounds and Injuries"[Mesh] OR Trauma[TIAB])

PALS: RECOGNITION AND TREATMENT OF SEPTIC SHOCK

Fluid administration for the child with septic shock (PLS 1534: EvUp)

Updated 30 Aug 2020 Last 1 year = 157 results

((((((((((((((((("Fluid Therapy"[Mesh>NoExp]) OR fluid therap* [Title/Abstract]) OR fluid resuscitation[Title/Abstract]) OR "Plasma Substitutes"[Mesh>NoExp]) OR plasma substitute*[Title/Abstract]) OR haemodynamic support[Title/Abstract]) OR hemodynamic support[Title/Abstract]) OR Dextrans[MeSH Terms]) OR dextran* [Title/Abstract]) OR Hetastarch[MeSH Terms]) OR hetastarch[Title/Abstract]) OR Isotonic Solutions[MeSH Terms]) OR isotonic[Title/Abstract]) OR "Serum Albumin"[Mesh>NoExp]) OR albumin[Title/Abstract]) OR colloid*[Title/Abstract]) OR gelatin* [Title/Abstract]) OR "fresh frozen plasma"[Title/Abstract]) OR FFP[Title/Abstract]) OR crystalloid*[Title/Abstract]) OR saline[Title/Abstract]) OR Ringer's[Title/Abstract])) AND (((((((("Resuscitation"[Mesh>NoExp]) OR resuscitat*[Title/Abstract]) OR fluid replacement*[Title/Abstract]) OR volume replacement*[Title/Abstract]) OR volume expander*[Title/Abstract]) OR volume expansion[Title/Abstract]) OR "Shock"[Mesh>NoExp]) OR Shock, Septic[MeSH Terms]) OR shock[Title/Abstract])) AND ((Infan* OR newborn* OR newborn* OR perinat* OR neonat* OR baby OR baby* OR babies OR toddler* OR minors OR minors* OR boy OR boys OR boyfriend OR boyhood OR girl* OR kid OR kids OR child OR child* OR children* OR schoolchild* OR schoolchild OR school child[tiab] OR school child*[tiab] OR adolescen* OR juvenil* OR youth* OR teen* OR under*age* OR pubescen* OR pediatrics[mh] OR pediatric* OR paediatric* OR paediatric* OR school[tiab] OR school*[tiab] OR prematur* OR preterm*))))) NOT ((Animals[MeSH Terms] NOT Humans[MeSH Terms]))) NOT (("letter"[pt] OR "comment"[pt] OR "editorial"[pt] or Case Reports[ptyp])))

Vasoactive drugs for septic shock (PLS 1604: ScopRev)

1 "Shock, Septic"/ or septic shock/ or ("septic shock" or "toxic shock" or "endotoxic shock" or "endo-toxic shock").ti,ab,kf,kw.

2 (exp Sepsis/ or (sepsis or septic or pyemia* or pyaemia* or pyohemia* or septicemia* or "blood poisoning*").ti,ab,kf,kw.) and ("Hypotension"/ or (hypotension or hypotensive or ((low or lowered) adj2 "blood pressure") or hypoperfusion or hypo-tension or hypo-tensive or hypo-perfusion or "cardiovascular compromise").ti,ab,kf,kw.)

3 1 or 2 [SEPTIC SHOCK]

4 exp Vasoconstrictor Agents/ or vasoconstrictor agent/ or (vasoconstrictor* or vasoactive or vasopressor* or vaso-constrictor* or vaso-active or vaso-pressor* or vasoconstrictive or vasoconstricting or vaso-constrictive or vaso-constricting or "blood vessel constrictor*" or angiotensin or endothelin or norephedrine).ti,ab,kf,kw.

5 exp Vasodilator Agents/ or vasodilator agent/ or (vasodilator* or vaso-dilator* or vasorelaxant* or vaso-relaxant* or vasodilatant* or vasodilating or vaso-dilatant* or vaso-dilating).ti,ab,kf,kw.

6 Dopamine/ or (dopamine or hydroxytyramine or intropin or cardiopal or cardiosteril or catabon or dopamine or dopaminex or dopamimum or dopastat or dopinga or dopmin or

dopme or drynalken or dunatra or dynos or giludop or levodopamine or revivan or tensamin or uramin).ti,ab,kf,kw.

7 exp Epinephrine/ or Norepinephrine/ or (epinephrine or adrenaline or epitrate or lyophrin or epifrin or norepinephrine or noradrenaline or levarterenol or levophed or arterenol or levonor).ti,ab,kf,kw.

8 inotropic agent/ or (inotrope* or inotropic).ti,ab,kf,kw.

9 Cardiotonic Agents/ or (cardiotonic or ((cardiac or myocardial or cardioactive or cardio-active or cardioprotective or cardio-protective or myocardial or myo-cardial) adj2 (drug or drugs or agent* or medicine* or medication* or stimulant*)).ti,ab,kf,kw.

10 exp Vasopressins/ or vasopressin derivative/ or (vasopressin* or pitressin or beta-hypophamine or "antidiuretic hormone*" or argipressin* or lypressin or diapid or postacton or felypressin* or octopressin or phelypressin or PLV-2 or octapressin or terlipressin* or glycylpressin or TGLVP or terypressin or glipressin or glypressin or triglycylvasopressin or remestyp or omnipressin* or POR-8 or "argipressionic acid").ti,ab,kf,kw.

11 or/4-10 [VASOACTIVE AGENTS]

12 3 and 11 [SEPTIC SHOCK + VASOACTIVE AGENTS]

13 exp Pediatrics/ or exp Infant/ or exp Child/ or Adolescent/

14 (pediatric* or paediatric* or child or children or childhood or adolescen* or preadolescen* or pre-adolescen* or infant or infants or baby or babies or toddler* or youngster* or teen or teens or teenager* or youth* or juvenile* or preteen* or pre-teen* or girl or girls or boy or boys or PICU).ti,ab,kf,kw.

15 exp "Infant, Newborn"/ or "Premature Birth"/ or "Term Birth"/ or "Live Birth"/ or "Birth Injuries"/ or "Gestational Age"/ or "newborn"/ or "prematurity"/ or exp "birth weight"/ or "birth injury"/ or (newborn* or "newly born" or neonat* or infant or infants or preterm or pre-term or premature or "prematurely born" or "postmature" or "post-mature" or "small for gestational age" or birth or births or birthed or birthing).ti,ab,kf,kw.

16 or/13-15 [PEDIATRIC]

17 12 and 16 [PEDIATRIC SEPTIC SHOCK + VASOACTIVE AGENTS]

18 (Animals/ or "Animal Experimentation"/ or "Models, Animal"/ or "Disease Models, Animal"/ or Manikin/) not (Humans/ or "Human Experimentation")

19 (exp "animal model"/ or exp "animal experiment"/ or "nonhuman"/ or exp "vertebrate"/ or "manikin"/ or "patient simulator"/) not (exp "human"/ or exp "human experiment")

20 17 not (18 or 19) [PEDIATRIC SEPTIC SHOCK + VASOACTIVE AGENTS, human]

21 (editorial or comment or letter or "newspaper article" or news or note or lecture or "case reports").pt.

22 20 not 21 [PEDIATRIC SEPTIC SHOCK + VASOACTIVE AGENTS, human, substantive]

23 (conference or "conference abstract" or "conference paper" or "conference review" or congresses).pt.

24 22 not 23 [PEDIATRIC SEPTIC SHOCK + VASOACTIVE AGENTS, human, substantive, conferences removed]

EBM Reviews - Cochrane Database of Systematic Reviews <2005 to November 20, 2019>

EBM Reviews - ACP Journal Club <1991 to October 2019>

EBM Reviews - Database of Abstracts of Reviews of Effects <1st Quarter 2016>

EBM Reviews - Cochrane Clinical Answers <October 2019>

EBM Reviews - Cochrane Central Register of Controlled Trials <October 2019>

EBM Reviews - Cochrane Methodology Register <3rd Quarter 2012>

EBM Reviews - Health Technology Assessment <4th Quarter 2016>

EBM Reviews - NHS Economic Evaluation Database <1st Quarter 2016>
Embase <1974 to 2019 November 22>
Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations
and Daily <1946 to November 22, 2019>
25 remove duplicates from 24
EBM Reviews - Cochrane Database of Systematic Reviews <2005 to November 20, 2019>
EBM Reviews - ACP Journal Club <1991 to October 2019>
EBM Reviews - Database of Abstracts of Reviews of Effects <1st Quarter 2016>
EBM Reviews - Cochrane Clinical Answers <October 2019>
EBM Reviews - Cochrane Central Register of Controlled Trials <October 2019>
EBM Reviews - Cochrane Methodology Register <3rd Quarter 2012>
EBM Reviews - Health Technology Assessment <4th Quarter 2016>
EBM Reviews - NHS Economic Evaluation Database <1st Quarter 2016>
Embase <1974 to 2019 November 22>
Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations
and Daily <1946 to November 22, 2019>

Corticosteroids for pediatric septic shock (PLS 413: EvUp)

- Sepsis, septic*, meningococc*, 'distributive shock', shock; NOT "shockwave"; predni*, hydrocort*, corticoid*, glucocorticoid*; either as individual term (ti,ab,kw) or related MESH Term; combined using Boolean operators
- specific blocks defined for certain indicators:
 - o paediatric: to define the 'paediatric population' we used the predefined BMI block (<https://blocks.bmi-online.nl>)
 - o To exclude animal studies: NOT (animals [mh] NOT humans [mh])
 - o To exclude NOT "Letter"[Publication Type] OR "Editorial"[Publication Type] OR "Comment"[Publication Type]
 - For Embase we prefiltered to avoid Medline duplicates by using [embase]/lim NOT ([embase]/lim AND [medline]/lim)
 - o Cardiac arrest: (resuscitation:ti,ab,kw OR 'resuscitation' OR 'resuscitation'/exp OR resuscitation OR 'heart' OR 'heart'/exp OR heart) AND (arrest:ti,ab,kw OR 'heart' OR 'heart'/exp OR heart) AND ('arrest' OR 'arrest'/exp OR arrest)

PALS: RECOGNITION AND PRE-ARREST TREATMENTS FOR SHOCK

Graded volume resuscitation for traumatic/hemorrhagic shock (PLS 400: ScopRev)

Initial search for:

"hemorrhagic shock" AND "trauma" AND (infant" OR "children") AND ("resuscitation" OR "volume resuscitation") AND ("outcome" OR "ROSC" OR "survival")

Updated 30 Aug 2020 Last 1 year = 22 results

Actual search:

("haemorrhag*" [All Fields] OR "hemorrhage" [MeSH Terms] OR "hemorrhag*" [All Fields] OR "trauma" [All Fields]) AND ("infant" [MeSH Terms] OR "infant*" [All Fields] OR "child" [MeSH Terms] OR "child*" [All Fields] OR "children*" [All Fields]) AND ("resuscit*" [All Fields] OR "resuscitation" [MeSH Terms]) AND "volum*" [All Fields]

Other search “fluid therapy”/ “hypotension”/ “mortality”/ “therapy” and “shock”/ “therapy” and “shock” and “traumatic”/“therapy”

EMBASE:

('fluid'/exp OR 'fluid') AND hemorrhage AND ('shock'/exp OR 'shock') AND [1990-2009]/py: 2668 articles

('shock'/exp OR 'shock') AND hemorrhage AND wounds AND injury AND [1990-2009]/py: 141 articles

('shock'/exp OR 'shock') AND hemorrhage AND injury AND [1990-2009]/py: 5042articles

('shock'/exp OR 'shock') AND trauma AND ('therapy'/exp OR 'therapy') AND [1990-2009]/py: 13047 articles

Timing of intubation for shock (PLS 399: EvUp)

PUBMED:

Updated 30 Aug 2020 Last 1 year = 7 results

(("Intubation, Intratracheal"[Mesh])) AND (("Shock"[Mesh]))

EMBASE: #1 ('intubation'/exp OR 'ventilation'/exp) AND 'shock'/exp AND [humans]/lim AND [embase]/lim AND [1970-2008]/py

Pre-Arrest care of the infant or child with dilated cardiomyopathy or myocarditis (PLS 819: EvUp)

Pubmed (searched 9/21/2019)

("Cardiomyopathy, Dilated"[Mesh] OR "dilated cardiomyopathy"[TIAB] OR "Myocarditis"[Mesh] OR "Myocarditis"[TIAB] OR "Shock"[Mesh:noexp] OR "Shock, Cardiogenic"[Mesh] OR "circulatory failure"[TIAB] OR "Heart Failure"[Mesh] OR "heart failure"[TIAB] OR "Acute Decompensated Heart Failure"[Mesh] OR "acute decompensated heart failure"[TIAB]) AND ("Pre-arrest"[TIAB] OR "Pre arrest"[TIAB] OR "prearrest"[TIAB] OR "Heart Arrest"[Mesh] OR "heart arrest"[TIAB] OR "heart arrests"[TIAB] OR "heart arrests"[TIAB] OR "cardiac arrest"[TIAB] OR "cardiac arrests"[TIAB] OR "cardiovascular arrest"[TIAB] OR "cardiovascular arrests"[TIAB] OR "cardiopulmonary arrest"[TIAB] OR "cardiopulmonary arrests"[TIAB]) AND ("Emergency Treatment"[Mesh] OR "Emergency Medicine"[Mesh] OR "Intubation, Intratracheal"[Mesh] OR Intubat*[TIAB] OR medication*[TI] OR drug*[TIAB] OR "Pharmaceutical management"[TIAB] OR "Atropine"[Mesh] OR Atropine[TIAB] OR "Ketamine"[Mesh] OR Ketamine[TIAB] OR Vasopressor*[TIAB] OR Vasoconstrictor*[TIAB] OR "Cardiovascular Agents"[Mesh] OR "Cardiotonic Agents"[Mesh] OR anti-arrhythmic*[TIAB] OR "Bicarbonates"[Mesh] OR bicarbonate*[TIAB] OR bolus[TIAB] OR "Hyperventilation"[Mesh:noexp] OR Hyperventilation[TIAB] OR "Hypoventilation"[Mesh:noexp] OR hypoventilation[TIAB] OR "Nitric Oxide"[Mesh] OR "nitric oxide"[TIAB] OR "Chest Compression"[Mesh] OR "chest compression"[TIAB] OR "chest compressions"[Mesh] OR "chest compressions"[TIAB] OR "Cardiopulmonary resuscitation"[Mesh] OR "cardiopulmonary resuscitation"[TIAB] OR "Extracorporeal Membrane Oxygenation"[Mesh] OR "extracorporeal life support"[TIAB] OR "Heart-Assist Devices"[Mesh]) AND (infant*[TIAB] OR "Infant"[Mesh] OR "Child"[Mesh] OR "Pediatrics"[Mesh] OR "child*"[TIAB] OR "paediatric*"[TIAB] OR pediatric))) AND ("observational study"[Publication Type] OR "randomized control trial"[Publication Type])) AND ("2013/01/01"[Date - Publication] : "2019/09/21"[Date - Publication])

Updated 30 Aug 2020 Last 1 year = 6 results

Actually searched:

((((((("cardiomyopathy, dilated"[MeSH Terms] OR "dilated cardiomyopathy"[Title/Abstract]) OR "Myocarditis"[MeSH Terms]) OR

"Myocarditis"[Title/Abstract]) OR "Shock"[MeSH Terms:noexp]) OR "shock, cardiogenic"[MeSH Terms]) OR "circulatory failure"[Title/Abstract]) OR "Heart Failure"[MeSH Terms]) OR "Heart Failure"[Title/Abstract]) OR "acute decompensated heart failure"[Title/Abstract]) AND (((((((("Pre-arrest"[Title/Abstract] OR "Pre-arrest"[Title/Abstract]) OR "prearrest"[Title/Abstract]) OR "Heart Arrest"[MeSH Terms]) OR "Heart Arrest"[Title/Abstract]) OR "heart arrests"[Title/Abstract]) OR "heart arrests"[Title/Abstract]) OR "cardiac arrest"[Title/Abstract]) OR "cardiac arrests"[Title/Abstract]) OR "cardiovascular arrest"[Title/Abstract]) OR "cardiopulmonary arrest"[Title/Abstract]) OR "cardiopulmonary arrests"[Title/Abstract])) AND (((((((((((((((((((("Emergency Treatment"[MeSH Terms] OR "Emergency Medicine"[MeSH Terms]) OR "intubation, intratracheal"[MeSH Terms]) OR "intubat*"[Title/Abstract]) OR "medication*"[Title]) OR "drug*"[Title/Abstract]) OR "Pharmaceutical management"[Title/Abstract]) OR "Atropine"[MeSH Terms]) OR "Atropine"[Title/Abstract]) OR "Ketamine"[MeSH Terms]) OR "Ketamine"[Title/Abstract]) OR "vasopressor*"[Title/Abstract]) OR "vasoconstrictor*"[Title/Abstract]) OR "Cardiovascular Agents"[MeSH Terms]) OR "Cardiotonic Agents"[MeSH Terms]) OR "anti arrhythmic*"[Title/Abstract]) OR "Bicarbonates"[MeSH Terms]) OR "bicarbonate*"[Title/Abstract]) OR "bolus"[Title/Abstract]) OR "Hyperventilation"[MeSH Terms:noexp]) OR "Hyperventilation"[Title/Abstract]) OR "Hypoventilation"[MeSH Terms:exp]) OR "Hypoventilation"[Title/Abstract]) OR "Nitric Oxide"[MeSH Terms]) OR "Nitric Oxide"[Title/Abstract]) OR "chest compression"[Title/Abstract]) OR "chest compressions"[Title/Abstract]) OR "Cardiopulmonary resuscitation"[MeSH Terms]) OR "Cardiopulmonary resuscitation"[Title/Abstract]) OR "Extracorporeal Membrane Oxygenation"[MeSH Terms]) OR "extracorporeal life support"[Title/Abstract]) OR "heart-assist devices"[MeSH Terms])) AND ((((("infant*"[Title/Abstract] OR "Infant"[MeSH Terms]) OR "Child"[MeSH Terms]) OR "Pediatrics"[MeSH Terms]) OR "child*"[Title/Abstract]) OR "paediatric*"[Title/Abstract]) OR (((("paediatrics"[All Fields] OR "Pediatrics"[MeSH Terms]) OR "Pediatrics"[All Fields]) OR "paediatric"[All Fields]) OR "pediatric"[All Fields]))

Cardiogenic shock and inotropes (PLS 418: EvUp)

- cardiogenic shock, low cardiac output, low cardiac index; catechol*, inotrop*, vasopressin, dopamine, dobutamine, dopexamine, isoprenaline, noradrenaline, norepinephrine, milrinone, phenylephrine, levophed, adrenaline, epinephrine, vasoactive drug*, inodilator, inoconstrictor; either as individual term (ti,ab,kw) or related MESH Term; combined using Boolean operators
- specific blocks defined for certain indicators:
 - o paediatric: to define the 'paediatric population' we used the predefined BMI block (<https://blocks.bmi-online.nl>)
 - o To exclude animal studies: NOT (animals [mh] NOT humans [mh])
 - o To exclude NOT "Letter"[Publication Type] OR "Editorial"[Publication Type] OR "Comment"[Publication Type]
- For Embase we prefiltered to avoid Medline duplicates by using [embase]/lim NOT ([embase]/lim AND [medline]/lim)
 - o Cardiac arrest: (resuscitation:ti,ab,kw OR 'resuscitation' OR 'resuscitation'/exp OR resuscitation OR 'heart' OR 'heart'/exp OR heart) AND (arrest:ti,ab,kw OR 'heart' OR 'heart'/exp OR heart) AND ('arrest' OR 'arrest'/exp OR arrest)

PALS: MANAGEMENT OF DETERIORATION WITH PULMONARY HYPERTENSION

Prevention and management of pulmonary hypertensive crises in infants and children pulmonary hypertension (PLS 391: EvUp)

(("hypertension, pulmonary"[MeSH Terms] OR ("hypertension"[All Fields] AND "pulmonary"[All Fields]) OR "pulmonary hypertension"[All Fields] OR ("pulmonary"[All Fields] AND "hypertension"[All Fields])) AND ("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields])) AND ((("2015/01/01"[PDAT] : "2019/11/30"[PDAT]) AND "humans"[MeSH Terms] AND ("infant"[MeSH Terms] OR "child"[MeSH Terms] OR "adolescent"[MeSH Terms]))

Updated 30 Aug 2020 Last 1 year = 14 results

Actual search:

(("hypertension, pulmonary"[MeSH Terms] OR ("hypertension"[All Fields] AND "pulmonary"[All Fields]) OR "pulmonary hypertension"[All Fields] OR ("pulmonary"[All Fields] AND "hypertension"[All Fields])) AND ("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields])) AND "humans"[MeSH Terms] AND ("infant"[MeSH Terms] OR "child"[MeSH Terms] OR "adolescent"[MeSH Terms]))

Opioids, sedatives, and neuromuscular blocking drugs for pulmonary hypertension (PLS new: EvUp)

((pulmonary hypertension[MeSH Terms]) OR pulmonary hypertensive) AND ((pediatric[MeSH Major Topic]) OR pediatric OR child OR children OR neonatal OR neonate OR infants OR infant OR baby OR babies OR paediatric OR adolescent OR adolescence OR youth OR teen OR school) AND (opioid OR opiate OR sedative OR sedation OR neuromuscular OR paralysis OR block OR anxiolytic OR anxiolysis)

Actually searched

Updated 30 Aug 2020 Last 1 year = 68 results

((("hypertension, pulmonary"[MeSH Terms] OR (((("lung"[MeSH Terms] OR "lung"[All Fields]) OR "pulmonary"[All Fields]) AND (((((("hypertense"[All Fields] OR "hypertension"[MeSH Terms]) OR "hypertension s"[All Fields]) OR "hypertensions"[All Fields]) OR "hypertensive"[All Fields]) OR "hypertensive s"[All Fields]) OR "hypertensives"[All Fields]))) AND (((((((("pediatrics"[MeSH Major Topic] OR (((("paediatrics"[All Fields] OR "pediatrics"[MeSH Terms]) OR "pediatrics"[All Fields]) OR "paediatric"[All Fields]) OR "pediatric"[All Fields])) OR (((("child"[MeSH Terms] OR "child"[All Fields]) OR "children"[All Fields]) OR "child s"[All Fields]) OR "children s"[All Fields]) OR "childrens"[All Fields]) OR "child s"[All Fields])) OR ((((("child"[MeSH Terms] OR "child"[All Fields]) OR "children"[All Fields]) OR "child s"[All Fields]) OR "children s"[All Fields]) OR "childrens"[All Fields]) OR "child s"[All Fields])) OR (((((((("infant, newborn"[MeSH Terms] OR ("infant"[All Fields] AND "newborn"[All Fields])) OR "newborn infant"[All Fields]) OR "neonatal"[All Fields]) OR "neonate"[All Fields]) OR "neonates"[All Fields]) OR "neonatology"[All Fields]) OR "neonatals"[All Fields]) OR "neonate s"[All Fields])) OR (((((((("infant, newborn"[MeSH Terms] OR ("infant"[All Fields] AND "newborn"[All Fields])) OR "newborn infant"[All Fields]) OR "neonatal"[All Fields]) OR "neonatal"[All Fields]) OR "neonate"[All Fields]) OR "neonates"[All Fields]))

OR "neonatality"[All Fields]) OR "neonatals"[All Fields]) OR "neonate s"[All Fields])) OR (((("infant"[MeSH Terms] OR "infant"[All Fields]) OR "infants"[All Fields]) OR "infant s"[All Fields])) OR (((("infant"[MeSH Terms] OR "infant"[All Fields]) OR "infants"[All Fields]) OR "infant s"[All Fields])) OR (((("infant, newborn"[MeSH Terms] OR ("infant"[All Fields] AND "newborn"[All Fields]))) OR "newborn infant"[All Fields]) OR "baby"[All Fields]) OR "infant"[MeSH Terms]) OR "infant"[All Fields])) OR (((("baby s"[All Fields] OR "babys"[All Fields]) OR "infant"[MeSH Terms]) OR "infant"[All Fields]) OR "babies"[All Fields])) OR (((("paediatrics"[All Fields] OR "pediatrics"[MeSH Terms]) OR "pediatrics"[All Fields]) OR "paediatric"[All Fields]) OR "pediatric"[All Fields])) OR (((((("adolescences"[All Fields] OR "adolescencey"[All Fields]) OR "adolescent"[MeSH Terms]) OR "adolescent"[All Fields]) OR "adolescence"[All Fields]) OR "adolescents"[All Fields]) OR "adolescent s"[All Fields])) OR (((((("adolescences"[All Fields] OR "adolescencey"[All Fields]) OR "adolescent"[MeSH Terms]) OR "adolescent"[All Fields]) OR "adolescence"[All Fields]) OR "adolescents"[All Fields]) OR "adolescencey"[All Fields])) OR "adolescent"[MeSH Terms]) OR "adolescent"[All Fields])) OR (((("adolescent"[MeSH Terms] OR "adolescent"[All Fields]) OR "youth"[All Fields]) OR "youths"[All Fields]) OR "youth s"[All Fields])) OR (((("adolescent"[MeSH Terms] OR "adolescent"[All Fields]) OR "teen"[All Fields]) OR (((((((("educational status"[MeSH Terms] OR ("educational"[All Fields] AND "status"[All Fields])) OR "educational status"[All Fields]) OR "schooling"[All Fields]) OR "education"[MeSH Terms]) OR "education"[All Fields]) OR "school s"[All Fields]) OR "schooled"[All Fields]) OR "schools"[MeSH Terms]) OR "schools"[All Fields]) OR "school"[All Fields])))) AND (((((((((((("analgesics opioid"[Pharmacological Action] OR "analgesics, opioid"[MeSH Terms]) OR ("analgesics"[All Fields] AND "opioid"[All Fields])) OR "opioid analgesics"[All Fields]) OR "opioid"[All Fields]) OR "opioids"[All Fields]) OR "opioid s"[All Fields]) OR (((("opiate alkaloids"[MeSH Terms] OR ("opiate"[All Fields] AND "alkaloids"[All Fields])) OR "opiate alkaloids"[All Fields]) OR " opiates"[All Fields]) OR "opiate"[All Fields]) OR "opiate s"[All Fields])) OR (((("hypnotics and sedatives"[Pharmacological Action] OR "hypnotics and sedatives"[MeSH Terms]) OR ("hypnotics"[All Fields] AND "sedatives"[All Fields])) OR "hypnotics and sedatives"[All Fields]) OR "sedative"[All Fields])) OR "sedatives"[All Fields])) OR (((("sedate"[All Fields] OR "sedated"[All Fields]) OR "sedating"[All Fields]) OR "sedation"[All Fields]) OR "sedations"[All Fields])) OR "neuromuscular"[All Fields]) OR (((("paralysing"[All Fields] OR "paralysis"[MeSH Terms]) OR "paralysis"[All Fields]) OR "paralyse"[All Fields]) OR "paralysed"[All Fields]) OR "paralyses"[All Fields])) OR (((("block"[All Fields] OR "blocked"[All Fields]) OR "blocking"[All Fields]) OR "blockings"[All Fields]) OR "blocks"[All Fields])) OR (((("anti anxiety agents"[Pharmacological Action] OR "anti-anxiety agents"[MeSH Terms]) OR ("anti anxiety"[All Fields] AND "agents"[All Fields])) OR "anti anxiety agents"[All Fields]) OR "anxiolytic"[All Fields]) OR "anxiolytics"[All Fields])) OR "anxiolysis"[All Fields])

Therapy with inhaled nitric oxide or prostaglandin I2 for pulmonary hypertensive crisis and right heart failure (New question 2020: EvUp)

Updated 30 Aug 2020 Last 1 year = 22 results

"hypertension, pulmonary"[MeSH Terms] AND ("pediatrics"[MeSH Major Topic] OR ("pediatrics"[MeSH Terms] OR "pediatrics"[All Fields] OR "pediatric"[All Fields]) OR ("child"[MeSH Terms] OR "child"[All Fields]) OR ("child"[MeSH Terms] OR "child"[All Fields] OR "children"[All Fields]) OR ("infant, newborn"[MeSH Terms] OR ("infant"[All Fields] AND "newborn"[All Fields]) OR "newborn infant"[All Fields] OR "neonatal"[All Fields]) OR ("infant, newborn"[MeSH Terms] OR ("infant"[All Fields] AND "newborn"[All Fields]) OR "newborn infant"[All Fields] OR "neonate"[All Fields]) OR ("infant, newborn"[MeSH Terms] OR ("infant"[All Fields] AND "newborn"[All Fields]))

"newborn infant"[All Fields] OR "baby"[All Fields] OR "infant"[MeSH Terms] OR "infant"[All Fields]) OR ("infant"[MeSH Terms] OR "infant"[All Fields] OR "babies"[All Fields]) OR ("infant"[MeSH Terms] OR "infant"[All Fields]) OR ((("infant"[MeSH Terms] OR "infant"[All Fields] OR "infants"[All Fields])) AND ("pediatrics"[MeSH Terms] OR "pediatrics"[All Fields] OR "paediatric"[All Fields])) OR ("adolescent"[MeSH Terms] OR "adolescent"[All Fields]) OR ("adolescent"[MeSH Terms] OR "adolescent"[All Fields] OR "adolescence"[All Fields]) OR ("adolescent"[MeSH Terms] OR "adolescent"[All Fields] OR "youth"[All Fields]) OR ("adolescent"[MeSH Terms] OR "adolescent"[All Fields] OR "teen"[All Fields]) OR ("schools"[MeSH Terms] OR "schools"[All Fields] OR "school"[All Fields])) AND ("vasodilator"[All Fields] OR "vasodil*"[All Fields] OR "nitric oxide"[All Fields] OR "prostaglandin"[All Fields] OR "prostacyclin"[All Fields] OR "iloprost"[All Fields] OR "sildenafil"[All Fields] OR "inhaled"[All Fields] OR "pgi"[All Fields] OR "prost*"[All Fields] OR "nitr*"[All Fields] OR milrinone[All Fields] OR "phosphodiesterase"[All Fields] OR "inotrope"[All Fields] OR "inotropic"[All Fields] OR "vasopressor"[All Fields] OR "vasoactive"[All Fields] OR "prostanoid"[All Fields] OR "epoprostenol"[All Fields] OR "treprostinil"[All Fields] OR "pde"[All Fields])) AND ((("acute"[All Fields] OR "episode"[All Fields] OR "crisis"[All Fields] OR "critical"[All Fields] OR "decompensate"[All Fields] OR "decompensation"[All Fields]))

Previous search:

AND ("2011/05/10"[PDAT] : "3000/12/31"[PDAT])

PALS: RECOGNITION AND TREATMENT OF NON-ARREST ARRHYTHMIAS

Drugs for supraventricular tachycardia (PLS 379: EvUp)

2019 Search Strategy:

((((((("tachycardia, supraventricular"[MeSH Terms] OR ("tachycardia"[All Fields] AND "supraventricular"[All Fields]) OR "supraventricular tachycardia"[All Fields] OR ("tachycardia"[All Fields] AND "supraventricular"[All Fields]) OR "tachycardia, supraventricular"[All Fields] AND ("tachycardia"[MeSH Terms] OR "tachycardia"[All Fields]))) AND ("adenosine"[MeSH Terms] OR "adenosine"[All Fields])) OR ("tachycardia, supraventricular/drug therapy"[Mesh Terms] AND ("verapamil"[MeSH Terms] OR "verapamil"[All Fields]))) OR ("tachycardia, supraventricular/drug therapy"[Mesh Terms] AND ("amiodarone"[MeSH Terms] OR "amiodarone"[All Fields]))) OR ("tachycardia, supraventricular/drug therapy"[Mesh Terms] AND ("procainamide"[MeSH Terms] OR "procainamide"[All Fields]))) OR ("tachycardia, supraventricular/drug therapy"[Mesh Terms] AND ("sotalol"[MeSH Terms] OR "sotalol) AND infant* OR baby OR baby* OR babies OR toddler* OR minors OR minors* OR kid OR kids OR child OR child* OR children* OR schoolchild* OR schoolchild OR school child[tiab] OR school child*[tiab] OR adolescent* OR juvenile* OR youth* OR teen* OR under*age* OR pubescent* OR pediatrics[mh] OR pediatric* OR paediatric* OR pediatric* OR school[tiab] OR school*[tiab]))

Revised search strategy:

Updated 30 Aug 2020 Last 1 year = 19 results

("tachycardia, supraventricular"[MeSH Terms] OR ("tachycardia"[All Fields] AND "supraventricular"[All Fields]) OR "supraventricular tachycardia"[All Fields] OR ("tachycardia"[All Fields] AND "supraventricular"[All Fields]) OR ("Tachycardia"[Mesh] NOT "Tachycardia, Ventricular"[Mesh])) AND ((("adenosine"[MeSH Terms] OR

"adenosine"[All Fields]) OR ("verapamil"[MeSH Terms] OR "verapamil"[All Fields]) OR ("amiodarone"[MeSH Terms] OR "amiodarone"[All Fields]) OR ("procainamide"[MeSH Terms] OR "procainamide"[All Fields]) OR ("sotalol"[MeSH Terms] OR "sotalol"[All Fields]) OR "tachycardia, supraventricular/drug therapy"[Mesh Terms]) AND (infant* OR baby OR baby* OR babies OR toddler* OR minors OR minors* OR kid OR kids OR child OR child* OR children* OR schoolchild* OR schoolchild OR school child[tiab] OR school child*[tiab] OR adolescent* OR juvenile* OR youth* OR teen* OR under*age* OR pubescent* OR pediatrics[mh] OR pediatric* OR paediatric* OR peadiatric* OR school[tiab] OR school*[tiab])

Drugs for unstable tachycardia (PLS 409: EvUp)

("Tachycardia/adverse effects"[Mesh] OR "Tachycardia/complications"[Mesh] OR "Tachycardia/drug therapy"[Mesh] OR "Tachycardia/mortality"[Mesh] OR "Tachycardia/therapy"[Mesh]) AND (Review[ptyp] OR Clinical Trial[ptyp] OR Meta-Analysis[ptyp] OR Guideline[ptyp] OR Observational Study[ptyp] OR Randomized Controlled Trial[ptyp] OR systematic[sb]) AND ("2008/01/01"[PDat] : "2019/12/31"[PDat]) AND Humans[Mesh] AND (infant[MeSH:noexp] OR child, preschool[MeSH] OR child[MeSH:noexp] OR adolescent[MeSH])

Revised search strategy:

Updated 30 Aug 2020 Last 1 year = 4 results

("Tachycardia/adverse effects"[Mesh] OR "Tachycardia/complications"[Mesh] OR "Tachycardia/drug therapy"[Mesh] OR "Tachycardia/mortality"[Mesh] OR "Tachycardia/therapy"[Mesh]) AND (Review[ptyp] OR Clinical Trial[ptyp] OR Meta-Analysis[ptyp] OR Guideline[ptyp] OR Observational Study[ptyp] OR Randomized Controlled Trial[ptyp] OR systematic[sb]) AND (infant[MeSH:noexp] OR child, preschool[MeSH] OR child[MeSH:noexp] OR adolescent[MeSH])

Review, Clinical Trial, Meta-Analysis, Guideline, Observational Study, Randomized Controlled Trial, Systematic Reviews, Publication date from 2008/01/01 to 2019/12/31, Humans, Infant: 1-23 months, Preschool Child: 2-5 years, Child: 6-12 years, Adolescent: 13-18 years.

AND "Electric Countershock/adverse effects"[Mesh] OR "Electric Countershock/mortality"[Mesh] OR "Electric Countershock/organization and administration"[Mesh] OR "Electric Countershock/therapeutic use"[Mesh] OR "Electric Countershock/therapy"[Mesh])

AND (Review[ptyp] OR Clinical Trial[ptyp] OR Meta-Analysis[ptyp] OR Guideline[ptyp] OR Observational Study[ptyp] OR Randomized Controlled Trial[ptyp] OR systematic[sb]) AND ("2008/01/01"[PDat] : "2019/12/31"[PDat]) AND Humans[Mesh] AND (infant[MeSH:noexp] OR child, preschool[MeSH] OR child[MeSH:noexp] OR adolescent[MeSH])

Review, Clinical Trial, Meta-Analysis, Guideline, Observational Study, Randomized Controlled Trial, Systematic Reviews, Publication date from 2008/01/01 to 2019/12/31, Humans, Infant: 1-23 months, Preschool Child: 2-5 years, Child: 6-12 years, Adolescent: 13-18 years.

CPR for heart rate <60/min (PLS 1535: EvUp)

- bradycard*, low-flow, pulse, compression*; either as individual term (ti,ab,kw) or related MESH Term; combined using Boolean operators; after 2010
- specific blocks defined for certain indicators:

- o paediatric: to define the ‘paediatric population’ we used the predefined BMI block (<https://blocks.bmi-online.nl>)
- o cardiac arrest: CPR/cardiac arrest: “life support care” [MESH] OR “life support” [TIAB] OR cardiopulmonary resuscitation [MESH] OR “cardiopulmonary resuscitation” [TIAB] OR ROSC [TIAB] OR “return of spontaneous circulation” [TIAB] OR heart arrest [MESH] OR “cardiac arrest” [TIAB]
- o To exclude animal studies: NOT (animals [mh] NOT humans [mh])
- o To exclude NOT "Letter"[Publication Type] OR "Editorial"[Publication Type] OR "Comment"[Publication Type])
 - For Embase we prefiltered to avoid Medline duplicates by using [embase]/lim NOT ([embase]/lim AND [medline]/lim)
- o Cardiac arrest: (resuscitation:ti,ab,kw OR 'resuscitation' OR 'resuscitation'/exp OR resuscitation OR 'heart' OR 'heart'/exp OR heart) AND (arrest:ti,ab,kw OR 'heart' OR 'heart'/exp OR heart) AND ('arrest' OR 'arrest'/exp OR arrest)

Drugs for the treatment of bradycardia: Atropine vs no atropine and atropine versus epinephrine (PLS two NEW: EvUps)

- Bradycard* - Bradyarrhythmia – atropine; either as individual term (ti,ab,kw) or related MESH Term; combined using Boolean operators
- specific blocks defined for certain indicators:
- o paediatric: to define the ‘paediatric population’ we used the predefined BMI block (<https://blocks.bmi-online.nl>)
- o To exclude animal studies: NOT (animals [mh] NOT humans [mh])
- o To exclude NOT "Letter"[Publication Type] OR "Editorial"[Publication Type] OR "Comment"[Publication Type])
 - For Embase we prefiltered to avoid Medline duplicates by using [embase]/lim NOT ([embase]/lim AND [medline]/lim)
- o Cardiac arrest: (resuscitation:ti,ab,kw OR 'resuscitation' OR 'resuscitation'/exp OR resuscitation OR 'heart' OR 'heart'/exp OR heart) AND (arrest:ti,ab,kw OR 'heart' OR 'heart'/exp OR heart) AND ('arrest' OR 'arrest'/exp OR arrest)

Emergency transcutaneous pacing for bradycardia (New question 2020: EvUp)

1. Bradycardia [MeSH]: 25,870
2. AND cardiac pacing [MeSH]: 2648
3. Filtered by publication date, infant or child or adolescent, and humans not animals: 65

Channelopathies (PLS 417: EvUp)

PubMed: sudden death AND channelopathy

Revised search strategy:

Updated 30 Aug 2020 Last 1 year = 83 results

((("death, sudden"[MeSH Terms] OR ("death"[All Fields] AND "sudden"[All Fields])) OR "sudden death"[All Fields]) OR ("sudden"[All Fields] AND "death"[All Fields])) AND ((channelopathies"[MeSH Terms] OR "channelopathies"[All Fields]) OR "channelopathy"[All Fields])

PALS: MANUAL DEFIBRILLATION

Pad size, type and placement for pediatric defibrillation (PLS 378 and PLS 043: EvUp)

- Pad*; paddle*; placement; impedance; either as individual term (ti,ab,kw) or related MESH Term; combined using Boolean operators
- specific blocks defined for certain indicators:
 - o paediatric: to define the ‘paediatric population’ we used the predefined BMI block (<https://blocks.bmi-online.nl>)
 - o cardiac arrest: CPR/cardiac arrest: “life support care” [MESH] OR “life support” [TIAB] OR cardiopulmonary resuscitation [MESH] OR “cardiopulmonary resuscitation” [TIAB] OR ROSC [TIAB] OR “return of spontaneous circulation” [TIAB] OR heart arrest [MESH] OR “cardiac arrest” [TIAB]
 - o To exclude animal studies: NOT (animals [mh] NOT humans [mh])
 - o To exclude NOT "Letter"[Publication Type] OR "Editorial"[Publication Type] OR "Comment"[Publication Type])
- For Embase we prefiltered to avoid Medline duplicates by using [embase]/lim NOT ([embase]/lim AND [medline]/lim)
 - o Cardiac arrest: (resuscitation:ti,ab,kw OR 'resuscitation' OR 'resuscitation'/exp OR resuscitation OR 'heart' OR 'heart'/exp OR heart) AND (arrest:ti,ab,kw OR 'heart' OR 'heart'/exp OR heart) AND ('arrest' OR 'arrest'/exp OR arrest)

Energy doses for defibrillation (PLS 405: ScopRev)

PUBMED (last searched: 10/30/2019)

(ventricular fibrillation[MeSH Terms]) OR electric defibrillation[MeSH Terms]) AND ("last 5 years"[PDat] AND Humans[Mesh] AND (infant[MeSH] OR child[MeSH] OR adolescent[MeSH]))

Revised search strategy:

Updated 30 Aug 2020 Last 1 year = 23 results

(ventricular fibrillation[MeSH Terms]) OR electric defibrillation[MeSH Terms]) AND Humans[Mesh] AND (infant[MeSH] OR child[MeSH] OR adolescent[MeSH])

EMBASE (last searched: 10/30/2019)

(defibrillator:ab,ti OR 'heart fibrillation':ab,ti OR defibrillation:ab,ti) AND [2014-2019]/py AND ([infant]/lim OR [child]/lim OR [preschool]/lim OR [school]/lim OR [adolescent]/lim)

Single or stacked shocks for pediatric defibrillation (PLS 389: EvUp)

- Stacked, shock*, 'three shocks', 'two shocks', defibrillation', successive, sequent*, charg*; either as individual term (ti,ab,kw) or related MESH Term; combined using Boolean operators
- specific blocks defined for certain indicators:
 - o paediatric: to define the ‘paediatric population’ we used the predefined BMI block (<https://blocks.bmi-online.nl>)
 - o cardiac arrest: CPR/cardiac arrest: “life support care” [MESH] OR “life support” [TIAB] OR cardiopulmonary resuscitation [MESH] OR “cardiopulmonary resuscitation” [TIAB] OR ROSC [TIAB] OR “return of spontaneous circulation” [TIAB] OR heart arrest [MESH] OR “cardiac arrest” [TIAB]
 - o To exclude animal studies: NOT (animals [mh] NOT humans [mh])

- o To exclude NOT "Letter"[Publication Type] OR "Editorial"[Publication Type] OR "Comment"[Publication Type])
 - For Embase we prefiltered to avoid Medline duplicates by using [embase]/lim NOT ([embase]/lim AND [medline]/lim)
- o Cardiac arrest: (resuscitation:ti,ab,kw OR 'resuscitation' OR 'resuscitation'/exp OR resuscitation OR 'heart' OR 'heart'/exp OR heart) AND (arrest:ti,ab,kw OR 'heart' OR 'heart'/exp OR heart) AND ('arrest' OR 'arrest'/exp OR arrest)

PALS: AIRWAYS, OXYGENATION AND VENTILATION

Ventilation rate when a perfusing rhythm is present (PLS 31030A/PLS 382: EvUp)

(((((apnea[MeSH Terms] OR respiratory rate[MeSH Terms] AND (Infan* OR newborn* OR new-born* OR perinat* OR neonat* OR baby OR baby* OR babies OR toddler* OR minors OR minors* OR boy OR boys OR boyfriend OR boyhood OR girl* OR kid OR kids OR child OR child* OR children* OR schoolchild* OR schoolchild OR school child[tiab] OR school child*[tiab] OR adolescen* OR juvenil* OR youth* OR teen* OR under*age* OR pubescen* OR pediatrics[mh] OR pediatric* OR paediatric* OR pediatric* OR school[tiab] OR school*[tiab] OR prematur* OR preterm*))) NOT ((animals[mh] NOT humans[mh]))) NOT (("letter"[pt] OR "comment"[pt] OR "editorial"[pt] or Case Reports[ptyp])))

Revised search strategy:

Updated 30 Aug 2020 Last 1 year = 271 results

(apnea[MeSH Terms] OR respiratory rate[MeSH Terms]) AND (Infan* OR newborn* OR new-born* OR perinat* OR neonat* OR baby OR baby* OR babies OR toddler* OR minors OR minors* OR boy OR boys OR boyfriend OR boyhood OR girl* OR kid OR kids OR child OR child* OR children* OR schoolchild* OR schoolchild OR school child[tiab] OR school child*[tiab] OR adolescen* OR juvenil* OR youth* OR teen* OR under*age* OR pubescen* OR pediatrics[mh] OR pediatric* OR paediatric* OR pediatric* OR school[tiab] OR school*[tiab] OR prematur* OR preterm*) NOT (animals[mh] NOT humans[mh]) NOT ("letter"[pt] OR "comment"[pt] OR "editorial"[pt] or Case Reports[ptyp]))

Very focus:

("perfusing rhythm") AND (ventilat*[TW] OR "breaths per minute" OR "breath per minute")
Slightly wider:

((perfusing[TW] OR perfusion[TW]) AND rhythm[TW]) OR "perfusing rhythm") AND
(ventilat*[TW] OR "breaths per minute" OR "breath per minute")

Wider:

((perfusing[TW] OR perfusion[TW]) AND rhythm[TW]) OR "perfusing rhythm" OR "heart arrest/therapy"[MAJR] OR "Cardiopulmonary Resuscitation/therapy"[MAJR])) AND
(ventilat*[TW] OR "breaths per minute" OR "breath per minute")

Oxygen concentration during cardiac arrest (PLS 396: ScopRev)

Database: PubMed

((((((((Air[MeSH] or air[Title/Abstract]) OR Oxygen[MeSH]) OR
oxygen*[Title/Abstract] OR O2[Title/Abstract] OR hypoxia[Title/Abstract] OR
hypoxaemia[Title/Abstract]) OR hypoxemia[Title/Abstract] OR hyperoxia[Title/Abstract]
OR hyperoxia[Title/Abstract] OR hyperoxemia[Title/Abstract] OR
hyperoxaemia[Title/Abstract] OR oxygen titration[Title/Abstract] OR
saturation[Title/Abstract] OR oximetry[Title/Abstract] OR Ventilation[MeSH]) OR

Ventilation[Title/Abstract]) AND ((((((((((((Heart Arrest[MeSH Terms]) OR heart massage*[Title/Abstract]) OR heart arrest[Title/Abstract]) OR cardiac arrest[Title/Abstract]) OR cardiopulmonary arrest[Title/Abstract]) OR cardiovascular arrest[Title/Abstract]) OR Ventricular Fibrillation[MeSH Terms]) OR ventricular fibrillation[Title/Abstract]) OR asystole*[Title/Abstract]) OR pulseless electrical activity[Title/Abstract]) OR PEA[Title/Abstract]) OR resuscitation[Title/Abstract] OR Cardiopulmonary Resuscitation[MeSH Terms]) OR cardiopulmonary resuscitation[Title/Abstract]) OR life support[Title/Abstract]) OR ACLS[Title/Abstract]) OR Heart Massage[MeSH Terms]) OR heart massage*[Title/Abstract]) OR cardiac massage*[Title/Abstract]) OR chest compression*[Title/Abstract]) OR cardiac compression*[Title/Abstract])) AND (((((((Child [MeSH Terms]) OR child*[Title/Abstract]) OR Infant[MeSH Terms]) OR infant*[Title/Abstract]) OR Adolescent[MeSH Terms]) OR adolescen*[Title/Abstract]) OR teenage*[Title/Abstract] OR Pediatrics[MeSH] OR pediatric*[Title/Abstract]) OR paediatric*[Title/Abstract]))

Revised search strategy:

Updated 30 Aug 2020 Last 1 year = 325 results

((((((((((("air"[MeSH Terms] OR "air"[Title/Abstract]) OR "oxygen"[MeSH Terms]) OR "oxygen*"[Title/Abstract]) OR "O2"[Title/Abstract]) OR "hypoxia"[Title/Abstract]) OR "hypoxaemia"[Title/Abstract]) OR "hypoxemia"[Title/Abstract]) OR "hyperoxia"[Title/Abstract]) OR "hyperoxia"[Title/Abstract]) OR "hyperoxemia"[Title/Abstract]) OR "hyperoxaemia"[Title/Abstract]) OR "oxygen titration"[Title/Abstract]) OR "saturation"[Title/Abstract]) OR "oximetry"[Title/Abstract]) OR "Ventilation"[MeSH Terms]) OR "Ventilation"[Title/Abstract]) AND (((((((((((("heart arrest"[MeSH Terms] OR "heart massage*"[Title/Abstract]) OR "heart arrest"[Title/Abstract]) OR "cardiac arrest"[Title/Abstract]) OR "cardiopulmonary arrest"[Title/Abstract]) OR "cardiovascular arrest"[Title/Abstract]) OR "ventricular fibrillation"[MeSH Terms]) OR "ventricular fibrillation"[Title/Abstract]) OR "asystole*[Title/Abstract]) OR "pulseless electrical activity"[Title/Abstract]) OR "PEA"[Title/Abstract]) OR "resuscitation"[Title/Abstract]) OR "cardiopulmonary resuscitation"[MeSH Terms]) OR "cardiopulmonary resuscitation"[Title/Abstract]) OR "life support"[Title/Abstract]) OR "ACLS"[Title/Abstract]) OR "heart massage"[MeSH Terms]) OR "heart massage*"[Title/Abstract]) OR "cardiac massage*"[Title/Abstract]) OR "chest compression*"[Title/Abstract]) OR "cardiac compression*"[Title/Abstract])) AND (((((((("child"[MeSH Terms] OR "child*"[Title/Abstract]) OR "infant"[MeSH Terms]) OR "infant*"[Title/Abstract]) OR "adolescent"[MeSH Terms]) OR "adolescen*[Title/Abstract]) OR "teenage*[Title/Abstract]) OR "pediatrics"[MeSH Terms]) OR "pediatric*"[Title/Abstract]) OR "paediatric*"[Title/Abstract])

Ventilation during CPR with bag and mask compared with an advanced airway (2019 COSTR)

Lavonas EJ, Ohshimo S, Nation K, Van de Voorde P, Nuthall G, Maconochie I, et al. Advanced airway interventions for paediatric cardiac arrest: A systematic review and meta-analysis. Resuscitation. 2019;138:114-28.

1 intubation/ or intubation, intratracheal/ or laryngeal masks/ 40832

2 *Respiration, Artificial/ 23343

3 *Airway Management/ 1483

4 ((endotracheal or Intratracheal or tracheal) adj1 (intubation* or tube*)).ab,kf,ti. 23987

5 ((rescue or emergency) adj1 intubation*).ab,kf,ti. 406

6 (intubation adj2 trachea).ab,kf,ti. 86

7 (trachea adj2 intubation*).ab,kf,ti. 86

- 8 Supraglottic.ab,kf,ti. 3745
9 (Laryngeal adj1 (Mask* or tube*)).ab,kf,ti. 5325
10 Combitube.ab,kf,ti. 250
11 EasyTube.ab,kf,ti. 27
12 (esophageal adj2 trachea* adj2 (tube* or airway)).ab,kf,ti. 26
13 king airway.ab,kf,ti. 6
14 I-Gel.ab,kf,ti. 550
15 ProSeal.ab,kf,ti. 545
16 CTrach.ab,kf,ti. 58
17 esophageal obturator.ab,kf,ti. 86
18 "esophageal gastric tube*".ab,kf,ti. 16
19 bag-mask.ab,kf,ti. 275
20 bag-valve-mask.ab,kf,ti. 361
21 advanced airway.ab,kf,ti. 394
22 (intubation adj2 (direct or video or fiberoptic) adj2 laryngoscopy).ab,kf,ti. 176
23 or/1-22 77228 Line 1 to 22 : Advanced airway techniques
24 heart arrest/ or out-of-hospital cardiac arrest/ 29171
25 cardiopulmonary resuscitation/ or advanced cardiac life support/ 15221
26 Death, Sudden, Cardiac/ 13617
27 ((heart or cardiac or cardiovascular) adj1 arrest).ab,kf,ti. 30030
28 return of spontaneous circulation.ab,kf,ti. 2392
29 Advanced Cardiac Life Support.ab,kf,ti. 946
30 ACLS.ab,kf,ti. 998
31((cardiopulmonary or cardio-pulmonary) adj1 (arrest or resuscitation)).ab,kf,ti. 14589
32 CPR.ab,kf,ti. 10471
33 chest compressions.ab,kf,ti. 1882
34 reanimation.ab,kf,ti. 2241
35 *RESUSCITATION/ 15862
36 respiratory arrest.ab,kf,ti. 2068
37 (Cardiac Arrest adj2 Registr*).ab,kf,ti. 255
38 *Emergencies/ 12020
39 exp *Emergency Medicine/ 9163
40 *Emergency Service, Hospital/ 35188
41 *Emergency Medical Services/ 27247
42 emergenc*.ab,kf,ti. 311941
43 or/24-42 409494
44 adolescent/ or child/ or child, preschool/ or infant/ or infant, newborn/ 3268488
45 Pediatrics/ 49000
46 (Infan* or baby or baby* or babies or toddler* or boy or boys or boyhood or girl* or kid or kids or child or child* or children* or schoolchild* or schoolchild or school child or school child* or adolescen* or juvenil* or youth* or teen* or under*age* or pubescen* or pediatric* or paediatric* or paediatric*).ab,kf,ti. 2009339
47 44 or 45 or 46 3799277 Limit to Peds population
48 23 and 43 and 47 2602 articles with all 3 concepts
49 Animals/ not Humans/ 4405554 animal studies removed
50 48 not 49 2584
51 (case reports or comment or editorial).pt. 2885785 Publication types: case reports or comment or editorial are removed
52 50 not 51 2133 Final hits in medline

53 exp adult/ not (exp infant/ or exp child/ or adolescent/) 4957184 Removes studies indexed as adult only
54 52 not 53
2096
55 review.pt. 2358807
56 54 not 55 1831 review articles removed
57 54 and 55 265 only review articles

Use of cuffed or uncuffed tracheal tubes (PLS 412: EvUp)

(("intubation, intratracheal"[MeSH Terms] OR ("intubation"[All Fields] AND "intratracheal"[All Fields]) OR "intratracheal intubation"[All Fields] OR ("endotracheal"[All Fields] AND "intubation"[All Fields]) OR "endotracheal intubation"[All Fields])) AND ("2009/12/07"[PDat] : "2019/12/04"[PDat] AND "humans"[MeSH Terms] AND ("infant"[MeSH Terms] OR "child"[MeSH Terms] OR "adolescent"[MeSH Terms]))) AND cuff[All Fields] AND ("2009/12/07"[PDat] : "2019/12/04"[PDat] AND "humans"[MeSH Terms] AND ("infant"[MeSH Terms] OR "child"[MeSH Terms] OR "adolescent"[MeSH Terms])))

Revised search strategy:

Updated 30 Aug 2020 Last 1 year = 14 results

((("intubation, intratracheal"[MeSH Terms] OR ("intubation"[All Fields] AND "intratracheal"[All Fields]) OR "intratracheal intubation"[All Fields] OR ("endotracheal"[All Fields] AND "intubation"[All Fields]) OR "endotracheal intubation"[All Fields])) AND "humans"[MeSH Terms] AND ("infant"[MeSH Terms] OR "child"[MeSH Terms] OR "adolescent"[MeSH Terms])) AND (cuff*[All Fields] OR uncuff*[All Fields]))

Atropine for emergency intubation (PLS 821: EvUp)

((((((((("intubation, Intratracheal"[Mesh:NoEXP]) OR intubate*[Title/Abstract]) and ((Atropine[MeSH Terms] OR atropine[Title/Abstract]))) AND (((Infan* OR newborn* OR new-born* OR perinat* OR neonat* OR baby OR baby* OR babies OR toddler* OR minors OR minors* OR boy OR boys OR boyfriend OR boyhood OR girl* OR kids OR child OR child* OR children* OR schoolchild* OR schoolchild OR school child[tiab] OR school child*[tiab] OR adolescen* OR juvenile* OR youth* OR teen* Or under*age* OR pubescen* OR pediatrics[mh] OR pediatric* OR paediatric* OR paediatric OR school[tiab] OR school* [tiab] OR premature* OR prematur* OR preterm*))))) NOT (((animals[mh] NOT humans[mh])))) NOT (((“letter”[pt] OR “comment”[pt] OR “editorial”[pt] or case reports [pt]))))

Revised search strategy:

Updated 30 Aug 2020 Last 1 year = 3 results

("intubation, intratracheal"[MeSH Terms] OR ("intubation"[All Fields] AND "intratracheal"[All Fields]) OR "intratracheal intubation"[All Fields] OR ("endotracheal"[All Fields] AND "intubation"[All Fields]) OR "endotracheal intubation"[All Fields] OR intubate*[Title/Abstract]) AND (Atropine[MeSH Terms] OR atropine[Title/Abstract]) AND (Infan* OR newborn* OR new-born* OR perinat* OR neonat* OR baby OR baby* OR babies OR toddler* OR minors OR minors* OR boy OR boys OR boyfriend OR boyhood OR girl* OR kids OR child OR child* OR children* OR schoolchild* OR schoolchild OR school child[tiab] OR school child*[tiab] OR adolescen* OR juvenile* OR youth* OR teen* Or under*age* OR pubescen* OR pediatrics[mh] OR pediatric* OR paediatric* OR paediatric OR school[tiab] OR school* [tiab] OR premature* OR prematur* OR preterm*)) NOT

(animals[mh] NOT humans[mh]) NOT (“letter”[pt] OR “comment”[pt] OR “editorial”[pt] or case reports [pt])

Cricoid pressure during intubation (PLS 376: EvUp)

Used terms

- intubation, endotracheal; Cricoid pressure; BURP; ‘external laryngeal manipulation’; either as individual term (ti,ab,kw) or related MESH Term; combined using Boolean operators
- specific blocks defined for certain indicators:
 - o paediatric: to define the ‘paediatric population’ we used the predefined BMI block (<https://blocks.bmi-online.nl>)
 - o To exclude animal studies: NOT (animals [mh] NOT humans [mh])
 - o To exclude NOT "Letter"[Publication Type] OR "Editorial"[Publication Type] OR "Comment"[Publication Type])
- For Embase we prefiltered to avoid Medline duplicates by using [embase]/lim NOT ([embase]/lim AND [medline]/lim) Search Results (Number of articles identified / number identified as relevant): 380

Use of devices to verify advanced airway placement (PLS 385: EvUp)

#1 child	2179046
#2 children	1238649
#3 infant	1174974
#4 = 1 AND 2 AND 3	662043
#5 = #4 AND capnography	127
#6 = #4 AND intubation	5796
#7 = #4 AND carbon dioxide detection	40
#8 = #4 AND esophageal detection	89
#9 = airway complications AND capnography	90

Ventilation rate with advanced airway during cardiac arrest (PLS 3103 A and PLS 382: EvUp)

Updated 30 Aug 2020 Last 1 year = 92 results

((((((((((Cardiopulmonary Resuscitation[MeSH]) OR compressio*[tiab]) OR chest compressio*[tiab]) OR cardio-pulmonary resuscitation[tiab]) OR cardiopulmonary resuscitation[tiab]) OR CPR[tiab])) OR ((basic life support[tiab]) OR Basic Cardiac Life Support[tiab])) OR (((Heart Arrest[MeSH]) OR heart arrest[tiab]) OR Cardiac arrest[tiab]))) AND (((rate[tiab]) AND (((ventilatio*[tiab]) OR breath*[tiab]) OR Respiratio*[tiab]) OR Positive-Pressure Respiration[MeSH]))) NOT animals[mesh]

PALS: CIRCULATORY SUPPORT DURING CPR

Extracorporeal CPR for in-hospital Cardiac Arrest (2019 CoSTR)

Database: Ovid Medline: (general search: needs peds filter)

- 1 Extracorporeal Circulation/ (13566)
- 2 Cardiopulmonary Bypass/ (24689)
- 3 Extracorporeal Membrane Oxygenation/ (8724)
- 4 Heart Bypass, Left/ (190)
- 5 extracorporeal circulation*.tw,kf. (8027)
- 6 extra-corporeal circulation*.tw,kf. (306)

- 7 extracorporeal blood flow*.tw,kf. (109)
8 extra-corporeal blood flow*.tw,kf. (2)
9 extracorporeal bypass*.tw,kf. (223)
10 extra-corporeal bypass*.tw,kf. (4)
11 extracorporeal perfusion*.tw,kf. (570)
12 extra-corporeal perfusion*.tw,kf. (10)
13 (artificial adj2 circulation*).tw,kf. (913)
14 (cardiac adj2 bypass*).tw,kf. (1065)
15 (heart adj1 bypass*).tw,kf. (922)
16 extracorporeal cardiopulmonary resuscitation*.tw,kf. (255)
17 extracorporeal CPR.tw,kf. (36)
18 ECPR.tw,kf. (193)
19 E-CPR.tw,kf. (60)
20 cardiopulmonary bypass*.tw,kf. (32118)
21 CPB.tw,kf. (10564)
22 atriopulmonary shunt*.tw,kf. (3)
23 cardiopulmonary shunt*.tw,kf. (4)
24 heart-lung bypass*.tw,kf. (97)
25 (extracorporeal adj3 oxygenation*).tw,kf. (8715)
26 (extra-corporeal adj3 oxygenation*).tw,kf. (283)
27 ECMO.tw,kf. (6144)
28 extrapulmonary oxygenation*.tw,kf. (13)
29 extra-pulmonary oxygenation*.tw,kf. (1)
30 extracorporeal life support*.tw,kf. (1675)
31 extra-corporeal life support*.tw,kf. (53)
32 ECLS.tw,kf. (1072)
33 left ventric* bypass*.tw,kf. (198)
34 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or
18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33
(69449)
35 exp Heart Arrest/ (45606)
36 Ventricular Fibrillation/ (18038)
37 Tachycardia, Ventricular/ (14734)
38 heart arrest*.tw,kf. (2225)
39 cardiac arrest*.tw,kf. (31130)
40 circulat* arrest*.tw,kf. (5872)
41 heart standstill*.tw,kf. (8)
42 cardiopulmonary arrest*.tw,kf. (2302)
43 cardiovascular arrest*.tw,kf. (66)
44 asystol*.mp. (4182)
45 ventric* fibrillation*.tw,kf. (19248)
46 ventric* tachy*.tw,kf. (27344)
47 ventricular tachyarrhythmia*.tw,kf. (4326)
48 pulseless electrical activity.mp. (762)
49 35 or 36 or 37 or 38 or 39 or 40 or 41 or 42 or 43 or 44 or 45 or 46 or 47 or 48 (107855)
50 34 and 49 (6244)
51 exp Animals/ not Humans/ (4809559)
52 50 not 51 (5077)
53 limit 52 to (case reports or comment or editorial or letter) (1472)
54 52 not 53 (3605)

PALS: PHYSIOLOGIC MONITORING DURING ARREST TO GUIDE THERAPY AND/OR INTRA-ARREST PROGNOSTICATION

Invasive blood pressure monitoring during CPR (PLS 826: ScopRev) 814

We searched PUBMED and Embase with the predefined inclusion criteria (13/09/2019) and combined the following terms using Boolean operators: life support care, cardiopulmonary resuscitation, ROSC, heart arrest, cardiac arrest using both individual (ti,ab,kw) and related MESH terms, as well as exploded terms within Embase. We combined these with the terms: blood pressure, diastolic, systolic, (mean) arterial pressure, coronary perfusion pressure, hemodynamic-directed, haemodynamic-directed (again both individual and MESH terms, and Embase exploded terms).

Use of near-infrared spectroscopy (NIRS) during cardiac arrest (2020 PLS NEW: ScopRev) 814

3Database: Pubmed

Search on 14/10/2019

Search Strategy:

- 1 "Spectroscopy, Near-Infrared"[Mesh] (12558)
- 2 ((cerebral oximetry) OR regional cerebral oxygenation) OR regional cerebral oxygen saturation (4242)
- 3 1 or 2 (15786)
- 4 "Life Support Care"[Mesh] (8692)
- 5 "Cardiopulmonary Resuscitation"[Mesh] (17057)
- 6 "Heart Arrest"[Mesh] (45984)
- 7 (((life support) OR cardiopulmonary resuscitation) OR ROSC) OR return of spontaneous circulation) OR cardiac arrest (749608)
- 8 4 or 5 or 6 or 7 (749608)
- 9 ("Infant"[Mesh]) OR "Adolescent"[Mesh]) OR "Child"[Mesh] (3454029)
- 10 (infan* OR baby OR baby* OR babies OR toddler* OR minors OR minors* OR kid OR kids OR child OR child* OR children* OR schoolchild* OR schoolchild OR school child[tiab] OR school child*[tiab] OR adolescen* OR juvenil* OR youth* OR teen* OR under*age* OR pubescen* OR pediatrics[mh] OR pediatric* OR paediatric* OR paediatric* OR school[tiab] OR school*[tiab]]) (4506159)
- 11 9 or 10 (4506281)
- 12 (animals [mh]) NOT humans [mh] (4628218)
- 13 (newborn* OR new-born* OR perinat* OR neonat* OR prematur* OR preterm*) (1003665)
- 14 3 and 8 and 11 not 12 not 13 (79)

Bedside ultrasound to identify perfusing rhythm (PLS 408: ScopRev) 814

((((((((((((Cardiopulmonary resuscitation) AND Point-of-care systems)) OR ((cardiopulmonary resuscitation) AND echocardiography, transesophageal)) OR ((cardiopulmonary resuscitation) AND echocardiography, transthoracic)) OR ((cardiopulmonary resuscitation/methods*)) AND Echocardiography)) OR heart arrest/diagnostic imaging*) OR ((out-of-hospital cardiac arrest/diagnostic imaging) AND echocardiography))) OR ((Cardiopulmonary resuscitation) AND Point-of-care systems)) OR ((cardiopulmonary resuscitation) AND echocardiography, transesophageal)) OR ((cardiopulmonary resuscitation) AND echocardiography,transthoracic)) OR ((cardiopulmonary resuscitation/methods*)) AND Echocardiography)) OR heart

arrest/diagnostic imaging*) OR ((out-of-hospital cardiac arrest/diagnostic imaging) AND echocardiography)) OR (in-hospital cardiac arrest/diagnostic imaging AND echocardiography)) AND Humans[Mesh])) OR ((in-hospital cardiac arrest) AND echocardiography AND Humans[Mesh])) OR ((in hospital cardiac arrest) AND point-of-care systems AND Humans[Mesh]) Filters: Humans

Searched Aug 14 2019 2265 articles, 2 selected

Searched Dec 6 2019 No new articles

Revised search

Updated 30 Aug 2020 Last 1 year = 113 results

(("cardiopulmonary resuscitation"[MeSH Terms] OR ("cardiopulmonary"[All Fields] AND "resuscitation"[All Fields]) OR "cardiopulmonary resuscitation"[All Fields]) OR ("heart arrest"[MeSH Terms] OR ("heart"[All Fields] AND "arrest"[All Fields])) OR "heart arrest"[All Fields] OR ("cardiac"[All Fields] AND "arrest"[All Fields]) OR "cardiac arrest"[All Fields])) AND ((("point-of-care systems"[MeSH Terms] OR ("point-of-care"[All Fields] AND "systems"[All Fields]) OR "point-of-care systems"[All Fields] OR ("point"[All Fields] AND "care"[All Fields] AND "systems"[All Fields])) OR "point of care systems"[All Fields]) OR ("echocardiography, transesophageal"[MeSH Terms] OR ("echocardiography"[All Fields] AND "transesophageal"[All Fields]) OR "transesophageal echocardiography"[All Fields] OR ("echocardiography"[All Fields] AND "transesophageal"[All Fields]) OR "echocardiography, transesophageal"[All Fields])) OR ("echocardiography"[MeSH Terms] OR "echocardiography"[All Fields] OR ("echocardiography"[All Fields] AND "transthoracic"[All Fields]) OR "echocardiography, transthoracic"[All Fields] OR ("echocardiographies"[All Fields] OR "echocardiography"[MeSH Terms] OR "echocardiography"[All Fields])) AND ("diagnosis"[MeSH Terms] OR "diagnosis"[All Fields] OR "diagnostic"[All Fields] OR "diagnostical"[All Fields] OR "diagnostically"[All Fields] OR "diagnostics"[All Fields]))

End-tidal CO₂ monitoring during CPR (PLS 827: ScopRev)

Pubmed

#1: “end tidal carbon dioxide”[TIAB] OR “carbon dioxide end tidal”[TIAB] OR “end tidal pco2”[TIAB] OR “etCO2” [TIAB] OR “capnography”[Mesh] OR “capnography”[TIAB]: 4901

#2: “life support care” [MESH] OR “life support” [TIAB] OR cardiopulmonary resuscitation [MESH] OR “cardiopulmonary resuscitation” [TIAB] OR ROSC [TIAB] OR “return of spontaneous circulation” [TIAB] OR heart arrest [MESH] OR “cardiac arrest [TIAB]: 73505

#3: #1 AND #2: 396

#4: #3 NOT (“Letter”[Publication Type] OR “Editorial”[Publication Type] OR “Comment”[Publication Type]): 357

#5: #4 NOT (animals [mh] NOT humans [mh]): 294

#6 = STEP 1: #5 AND (infan* OR baby OR baby* OR babies OR toddler* OR minors OR minors* OR kid OR kids OR child OR child* OR children* OR schoolchild* OR schoolchild OR school child[tiab] OR school child*[tiab] OR adolescen* OR juvenil* OR youth* OR teen* OR under*age* OR pubescen* OR pediatrics[mh] OR pediatric* OR paediatric* OR paediatric* OR school[tiab] OR school*[tiab]): 64

#7 = STEP 2: (#4 NOT #6) Filters: published in the last 5 years:112

Revised search

Updated 30 Aug 2020 Last 1 year = 35 results

(“end tidal carbon dioxide”[TIAB] OR “carbon dioxide end tidal”[TIAB] OR “end tidal pco2”[TIAB] OR “etCO2” [TIAB] OR “capnography”[Mesh] OR “capnography”[TIAB])

AND (("cardiopulmonary resuscitation" [MeSH Terms] OR ("cardiopulmonary" [All Fields] AND "resuscitation" [All Fields]) OR "cardiopulmonary resuscitation" [All Fields]) OR ("heart arrest" [MeSH Terms] OR ("heart" [All Fields] AND "arrest" [All Fields]) OR "heart arrest" [All Fields] OR ("cardiac" [All Fields] AND "arrest" [All Fields]) OR "cardiac arrest" [All Fields] OR "life support care" [MESH] OR "life support" [TIAB] OR ROSC [TIAB] OR "return of spontaneous circulation" [TIAB])) NOT ("Letter" [Publication Type] OR "Editorial" [Publication Type] OR "Comment" [Publication Type]) NOT (animals [mh] NOT humans [mh])

PALS: RESUSCITATION DRUG ADMINISTRATION AND TIMING

Methods of calculating pediatric drug doses (PLS 420: EvUp)

Key words used: “drug or medication,” “dose or dosing,” and “arrest or resuscitation” (with corresponding MeSH headings) were used as text words in conjunction with specific strategies (use of Boolean operators: AND, OR; clinical queries under the specific headings of therapy, harm, diagnosis and prognosis; exploding key words) to gather the evidence from electronic databases. Additional MeSH and field terms searched included “weights,” “measures,” “body weight” “estimate” “pharmaceutical.” Finally, individual resuscitation medications (epinephrine, succinylcholine, rocuronium, lidocaine, amiodarone, adenosine) were searched in combination with “pharmacokinetics,” “dose” “dosing” “dosage” “weight-based dosing,” “total body weight” “lean body mass” “ideal body weight,” and “adjusted body weight.” The “find similar” feature was used within PubMed to find additional related articles and references from relevant articles were reviewed for additional citations.

Intraosseous versus intravenous route of drug administration (PLS, NLS AND ALS SysRev)

- All Ovid Medline <1946 - present>
- 1 exp Heart Arrest/ (45608)
- 2 Ventricular Fibrillation/ (16747)
- 3 Resuscitation/ (25588)
- 4 Heart Massage/ (3068)
- 5 exp Cardiopulmonary Resuscitation/ (16927)
- 6 cardi* arrest*.tw,kf. (36886)
- 7 heart arrest*.tw,kf. (2227)
- 8 OHCA.tw,kf. (2201)
- 9 IHCA.tw,kf. (288)
- 10 CPR.tw,kf. (11630)
- 11 advanced cardiac life support.tw,kf. (1018)
- 12 ACLS.tw,kf. (1080)
- 13 basic life support.tw,kf. (1880)
- 14 BLS.tw,kf. (1775)
- 15 asystol*.tw,kf. (4118)
- 16 pulseless electrical activity.tw,kf. (820)
- 17 pulseless ventricular tachycardia.tw,kf. (318)
- 18 (return of circulation or return of spontaneous circulation or ROSC).tw,kf. (3669)
- 19 resuscitat*.tw,kf. (61684)
- 20 ventricular fibrillation*.tw,kf. (18360)
- 21 chest compression*.tw,kf. (3561)
- 22 or/1-21 (141248)

- 23 Infusions, Intraosseous/ (702)
 24 Intraosseous.tw,kf. (5865)
 25 Intra-osseous.tw,kf. (623)
 26 or/23-25 (6533)
 27 Infusions, Intravenous/ (53864)
 28 Intravenous.tw,kf. (276952)
 29 Intra-venous.tw,kf. (538)
 30 Umbilical Veins/ (12517)
 31 (umbilical vein or umbilical veins or umbilical venous).tw,kf. (24157)
 32 (venous adj3 catheter*).tw,kf. (16311)
 Page 6 of 18
 33 (vascular adj3 catheter*).tw,kf. (2106)
 34 catheterization/ or catheterization, central venous/ or catheterization, peripheral/ (71132)
 35 catheters/ or catheters, indwelling/ or exp vascular access devices/ (26842)
 36 central venous.tw,kf. (24246)
 37 vascular access.tw,kf. (9286)
 38 or/27-37 (439774)
 39 (IO adj15 IV).tw,kf. (145)
 40 (26 and 38) or 39 (747)
 41 22 and 40 (337)
 42 41 not (animals/ not humans/) (278)
 43 limit 42 to (case reports or comment or editorial or letter) (49)
 44 42 not 43 (229)
 45 remove duplicates from 44 (228)

[Epinephrine frequency during CPR \(PLS 1541: SysRev\)](#)

Medline

- 1 exp Heart Arrest/ (45310)
- 2 Ventricular Fibrillation/ (16715)
- 3 Tachycardia, Ventricular/ (13758)
- 4 exp Cardiopulmonary Resuscitation/ (16801)
- 5 heart arrest*.tw,kf. (2222)
- 6 cardi* arrest*.tw,kw. (36513)
- 7 asystole*.tw,kf. (3615)
- 8 ventric* fibrillation*.tw,kf. (18327)
- 9 ventric* tachycardia*.tw,kf. (23238)
- 10 pulseless electrical activity.tw,kf. (818)
- 11 advanced cardi* life support.tw,kf. (1125)
- 12 ACLS.tw,kf. (1075)
- 13 resuscitat*.tw,kf. (61333)
- 14 CPR.tw,kf. (11556)
- 15 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 (150261)
- 16 Epinephrine/ (54309)
- 17 epinephrine.tw,kf. (38094)
- 18 adrenaline.tw,kf. (19197)
- 19 16 or 17 or 18 (75960)
- 20 Adolescent/ (1945909)
- 21 exp Child/ (1839461)
- 22 exp Infant/ (1102183)
- 23 child*.tw,kf. (1357221)

24 p?ediatric*.tw,kf. (337399)
25 (kid or kids).tw,kf. (7254)
26 (girl or girls).tw,kf. (141080)
27 (boy or boys).tw,kf. (138024)
28 (infant or infants).tw,kf. (397147)
29 (baby or babies).tw,kf. (67459)
30 toddler*.tw,kf. (10201)
31 youth*.tw,kf. (73860)
32 young.tw,kf. (451407)
33 youngster*.tw,kf. (2436)
34 juvenile*.tw,kf. (78904)
35 minors*.tw,kf. (3956)
36 teen*.tw,kf. (29163)
37 (adolescent* or adolescence).tw,kf. (277491)
38 puber*.tw,kf. (37357)
39 pubescen*.tw,kf. (2222)
40 pre?school*.tw,kf. (27403)
41 kindergarten*.tw,kf. (6161)
42 school*.tw,kf. (268322)
43 highschool*.tw,kf. (41)
44 PICU.tw,kf. (4042)
45 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33 or 34 or
35 or 36 or 37 or 38 or 39 or 40 or 41 or 42 or 43 or 44 (4328865)
46 15 and 19 and 45 (745)

[Amiodarone versus lidocaine for shock-resistant ventricular fibrillation or pulseless ventricular tachycardia \(2018 CoSTR\)](#)

Database: OVID Medline Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) 1946 to Present

Search Strategy:

1 exp heart arrest/ (42565)
2 exp cardiopulmonary resuscitation/ (14960)
3 cardiac arrest.tw. (27527)
4 cpr.tw. (10203)
5 resuscitation.tw. (48102)
6 heart arrest.tw. (593)
7 or/1-6 (95745)
8 (Antiarrhythmi\$ agent\$ or antiarrhythmi\$ drug\$ or antiarrhythmi\$ medication\$).tw.
(11916)
9 (Anti-arrhythmi\$ agent\$ or anti-arrhythmi\$ drug\$ or anti-arrhythmi\$ medication\$).tw.
(1741)
10 (Dysrhythmi\$ agent\$ or dysrhythmi\$ drug\$ or disrhythmi\$ medication\$).tw. (14)
11 exp anti-arrhythmia agents/ (213263)
12 lidocaine.tw. (20047)
13 amiodarone.tw. (8929)
14 lidocaine/ (23667)
15 amiodarone/ (7575)
16 lignocaine.tw. (2768)

17 procainamide.tw. (2519)
18 procainamide/ (3612)
19 bretylium tosylate/ (310)
20 bretylium.tw. (1028)
21 nifekalant.mp. (139)
22 Quinidine.mp. or Quinidine/ (9090)
23 Ajmaline.mp. (1310)
24 disopyramide.mp. (2166)
25 phenytoin.mp. (18232)
26 mexiletine.mp. (1894)
27 Tocainide.mp. (531)
28 Flecainide.mp. (2397)
29 Encainide.mp. (455)
30 propafenone.mp. (1833)
31 moricizine.mp. (413)
32 Carvedilol.mp. (3344)
33 Propranolol.mp. (45565)
34 Esmolol.mp. (1331)
35 Timolol.mp. (4835)
36 Metoprolol.mp. (8042)
37 Atenolol.mp. (8239)
38 Sotalol.mp. (3238)
39 Bisoprolol.mp. (1614)
40 Nebivolol.mp. (1003)
41 Ibutilide.mp. (371)
42 Dofetilide.mp. (909)
43 Dronedarone.mp. (589)
44 verapamil.mp. (26029)
45 Diltiazem.mp. (9592)
46 Adenosine.mp. (248952)
47 Digoxin.mp. (15213)
48 exp Adrenergic beta-Antagonists/ or beta blocker\$.mp. (96802)
49 slow channel blocker\$.mp. (79)
50 exp Calcium Channel Blockers/ or fast channel blocker\$.mp. (80677)
51 magnesium sulfate.mp. (6324)
52 or/8-51 (570998)
53 7 and 52 (6265)
54 limit 53 to "therapy (maximizes sensitivity)" (4338)
55 limit 53 to "reviews (maximizes sensitivity)" (2705)
56 54 or 55 (4990)

Sodium bicarbonate administration for children in cardiac arrest (PLS 388:
EvUp)

- Buffer, bicarbonate, THAM, either as individual term (ti,ab,kw) or related MESH Term; combined using Boolean operators
- specific blocks defined for certain indicators:
 - o paediatric: to define the ‘paediatric population’ we used the predefined BMI block (<https://blocks.bmi-online.nl>)
 - o cardiac arrest: CPR/cardiac arrest: “life support care” [MESH] OR “life support” [TIAB] OR cardiopulmonary resuscitation [MESH] OR “cardiopulmonary resuscitation”

- [TIAB] OR ROSC [TIAB] OR “return of spontaneous circulation” [TIAB] OR heart arrest [MESH] OR “cardiac arrest” [TIAB]
 - o To exclude animal studies: NOT (animals [mh] NOT humans [mh])
 - o To exclude NOT "Letter"[Publication Type] OR "Editorial"[Publication Type] OR "Comment"[Publication Type])
 - For Embase we prefiltered to avoid Medline duplicates by using [embase]/lim NOT ([embase]/lim AND [medline]/lim)
 - o Cardiac arrest: (resuscitation:ti,ab,kw OR 'resuscitation' OR 'resuscitation'/exp OR resuscitation OR 'heart' OR 'heart'/exp OR heart) AND (arrest:ti,ab,kw OR 'heart' OR 'heart'/exp OR heart) AND ('arrest' OR 'arrest'/exp OR arrest)

Calcium administration in children (PLS 421: EvUp)

- Calcium, either as individual term (ti,ab,kw) or related MESH Term; combined using Boolean operators
- specific blocks defined for certain indicators:
 - o paediatric: to define the ‘paediatric population’ we used the predefined BMI block (<https://blocks.bmi-online.nl>)
 - o cardiac arrest: CPR/cardiac arrest: “life support care” [MESH] OR “life support” [TIAB] OR cardiopulmonary resuscitation [MESH] OR “cardiopulmonary resuscitation” [TIAB] OR ROSC [TIAB] OR “return of spontaneous circulation” [TIAB] OR heart arrest [MESH] OR “cardiac arrest” [TIAB]
 - o To exclude animal studies: NOT (animals [mh] NOT humans [mh])
 - o To exclude NOT "Letter"[Publication Type] OR "Editorial"[Publication Type] OR "Comment"[Publication Type])
 - For Embase we prefiltered to avoid Medline duplicates by using [embase]/lim NOT ([embase]/lim AND [medline]/lim)
 - o Cardiac arrest: (resuscitation:ti,ab,kw OR 'resuscitation' OR 'resuscitation'/exp OR resuscitation OR 'heart' OR 'heart'/exp OR heart) AND (arrest:ti,ab,kw OR 'heart' OR 'heart'/exp OR heart) AND ('arrest' OR 'arrest'/exp OR arrest)

PALS: SPECIAL RESUSCITATION SITUATIONS—SEPTIC SHOCK, CONGENITAL HEART DISEASE AND TRAUMA

Resuscitation of the child with septic shock ((PLS 1534: EvUp))

- *sepsis, septic shock, severe sepsis, septic**; either as individual term(ti,ab,kw) or related MESH Term; combined using Boolean operators
- specific blocks defined for certain indicators:
 - o paediatric: to define the ‘paediatric population’ we used the predefined BMI block (<https://blocks.bmi-online.nl>)
 - o cardiac arrest: CPR/cardiac arrest: “life support care” [MESH] OR “life support” [TIAB] OR cardiopulmonary resuscitation [MESH] OR “cardiopulmonary resuscitation” [TIAB] OR ROSC [TIAB] OR “return of spontaneous circulation” [TIAB] OR heart arrest [MESH] OR “cardiac arrest” [TIAB]
 - o To exclude animal studies: NOT (animals [mh] NOT humans [mh])
 - o To exclude NOT "Letter"[Publication Type] OR "Editorial"[Publication Type] OR "Comment"[Publication Type])
 - For Embase we prefiltered to avoid Medline duplicates by using [embase]/lim NOT ([embase]/lim AND [medline]/lim)
 - o Cardiac arrest: (resuscitation:ti,ab,kw OR 'resuscitation' OR 'resuscitation'/exp OR

resuscitation OR 'heart' OR 'heart'/exp OR heart) AND (arrest:ti,ab,kw OR 'heart' OR 'heart'/exp OR heart) AND ('arrest' OR 'arrest'/exp OR arrest)

Resuscitation of the patient with a single ventricle (PLS 390: EVUP)

(((((("cardiopulmonary resuscitation"[All Fields] OR "heart arrest"[All Fields] OR "prearrest"[All Fields] OR "near arrest"[All Fields] OR "ECPR"[All Fields] OR "Extracorporeal cardiopulmonary resuscitation"[All Fields]) AND ("heart defects, congenital"[All Fields] OR "hypoplastic left heart syndrome"[All Fields] OR "single ventricle"[All Fields] OR "univentricular"[All Fields] OR "Norwood"[All Fields] OR "BT shunt"[All Fields] OR "Sano"[All Fields] OR "Stage 1 repair"[All Fields])) AND ("neonate"[All Fields] OR "infant"[All Fields] OR "child"[All Fields] OR "pediatric"[All Fields])) OR ("venous saturation"[All Fields] OR "cerebral oxygenation"[All Fields] OR "near infrared spectroscopy"[All Fields] OR "low cardiac output"[All Fields] OR "alpha adrenergic blockade"[All Fields] OR "hypercarbia "[All Fields])) AND ("heart defects, congenital"[All Fields] OR "hypoplastic left heart syndrome"[All Fields] OR "single ventricle"[All Fields] OR "univentricular"[All Fields] OR "norwood"[All Fields] OR "bt shunt"[All Fields] OR "sano"[All Fields] OR "stage 1 repair"[All Fields])) AND ("neonate"[All Fields] OR "infant"[All Fields] OR "child"[All Fields] OR "pediatric"[All Fields])) AND ("2008/01/01"[PDAT] : "2019/10/26"[PDAT]) AND "observational study"[Publication Type] OR "randomized control"[Publication Type]

Revised search

Updated 30 Aug 2020 Last 1 year = 28 results

((("cardiopulmonary resuscitation"[All Fields] OR "heart arrest"[All Fields] OR "prearrest"[All Fields] OR "near arrest"[All Fields] OR "ECPR"[All Fields] OR "Extracorporeal cardiopulmonary resuscitation"[All Fields]) AND ("heart defects, congenital"[All Fields] OR "hypoplastic left heart syndrome"[All Fields] OR "single ventricle"[All Fields] OR "univentricular"[All Fields] OR "Norwood"[All Fields] OR "BT shunt"[All Fields] OR "Sano"[All Fields] OR "Stage 1 repair"[All Fields])) AND ("neonate"[All Fields] OR "infant"[All Fields] OR "child"[All Fields] OR "pediatric"[All Fields])) OR (((("venous saturation"[All Fields] OR "cerebral oxygenation"[All Fields] OR "near infrared spectroscopy"[All Fields] OR "low cardiac output"[All Fields] OR "alpha adrenergic blockade"[All Fields] OR "hypercarbia "[All Fields])) AND ("heart defects, congenital"[All Fields] OR "hypoplastic left heart syndrome"[All Fields] OR "single ventricle"[All Fields] OR "univentricular"[All Fields] OR "norwood"[All Fields] OR "bt shunt"[All Fields] OR "sano"[All Fields] OR "stage 1 repair"[All Fields])) AND ("neonate"[All Fields] OR "infant"[All Fields] OR "child"[All Fields] OR "pediatric"[All Fields])))

Resuscitation of the patient with Fontan circulation (PLS 392: EvUp)

Revised search

Updated 30 Aug 2020 Last 1 year = 6 results

("cardiopulmonary resuscitation"[MeSH] AND "univentricular heart"[Title/Abstract]) OR ("cardiopulmonary resuscitation"[MeSH] AND "fontan"[Title/Abstract]) OR ("cardiopulmonary resuscitation"[MeSH] AND "hemi-fontan"[Title/Abstract]) OR ("cardiopulmonary resuscitation"[MeSH] AND "cavopulmonary anastomosis"[Title/Abstract]) OR ("cardiopulmonary resuscitation"[MeSH] AND "glenn"[Title/Abstract]) OR ("cardiopulmonary resuscitation"[MeSH] AND "bidirectional glenn"[Title/Abstract]) OR ("cardiopulmonary resuscitation"[MeSH] AND "cavopulmonary connection"[Title/Abstract]) OR ("cardiopulmonary resuscitation"[MeSH] AND "superior

cavopulmonary connection"[Title/Abstract]) OR ("cardiopulmonary resuscitation"[MeSH] AND "superior cavopulmonary anastomosis"[Title/Abstract]) OR ("cardiopulmonary resuscitation"[MeSH] AND "single ventricle"[Title/Abstract]) OR ("heart arrest"[MeSH] AND "univentricular heart"[Title/Abstract]) OR ("heart arrest"[MeSH] AND "fontan"[Title/Abstract]) OR ("heart arrest"[MeSH] AND "hemi-fontan"[Title/Abstract]) OR ("heart arrest"[MeSH] AND "cavopulmonary anastomosis"[Title/Abstract]) OR ("heart arrest"[MeSH] AND "glenn"[Title/Abstract]) OR ("heart arrest"[MeSH] AND "bidirectional glenn"[Title/Abstract]) OR ("heart arrest"[MeSH] AND "cavopulmonary connection"[Title/Abstract]) OR ("heart arrest"[MeSH] AND "superior cavopulmonary connection"[Title/Abstract]) OR ("heart arrest"[MeSH] AND "superior cavopulmonary anastomosis"[Title/Abstract]) OR ("heart arrest"[MeSH] AND "single ventricle"[Title/Abstract]) OR ("advanced cardiac life support"[MeSH] AND "univentricular heart"[Title/Abstract]) OR ("advanced cardiac life support"[MeSH] AND "fontan"[Title/Abstract]) OR ("advanced cardiac life support"[MeSH] AND "hemi-fontan"[Title/Abstract]) OR ("advanced cardiac life support"[MeSH] AND "cavopulmonary anastomosis"[Title/Abstract]) OR ("advanced cardiac life support"[MeSH] AND "glenn"[Title/Abstract]) OR ("advanced cardiac life support"[MeSH] AND "bidirectional glenn"[Title/Abstract]) OR ("advanced cardiac life support"[MeSH] AND "cavopulmonary connection"[Title/Abstract]) OR ("advanced cardiac life support"[MeSH] AND "superior cavopulmonary connection"[Title/Abstract]) OR ("advanced cardiac life support"[MeSH] AND "superior cavopulmonary anastomosis"[Title/Abstract]) OR ("advanced cardiac life support"[MeSH] AND "single ventricle"[Title/Abstract]) OR ("respiration, artificial"[MeSH] AND "univentricular heart"[Title/Abstract]) OR ("respiration, artificial"[MeSH] AND "fontan"[Title/Abstract]) OR ("respiration, artificial"[MeSH] AND "hemi-fontan"[Title/Abstract]) OR ("respiration, artificial"[MeSH] AND "cavopulmonary anastomosis"[Title/Abstract]) OR ("respiration, artificial"[MeSH] AND "glenn"[Title/Abstract]) OR ("respiration, artificial"[MeSH] AND "bidirectional glenn"[Title/Abstract]) OR ("respiration, artificial"[MeSH] AND "cavopulmonary connection"[Title/Abstract]) OR ("respiration, artificial"[MeSH] AND "superior cavopulmonary connection"[Title/Abstract]) OR ("respiration, artificial"[MeSH] AND "superior cavopulmonary anastomosis"[Title/Abstract]) OR ("respiration, artificial"[MeSH] AND "single ventricle"[Title/Abstract]) OR ("heart massage"[MeSH] AND "univentricular heart"[Title/Abstract]) OR ("heart massage"[MeSH] AND "fontan"[Title/Abstract]) OR ("heart massage"[MeSH] AND "hemi-fontan"[Title/Abstract]) OR ("heart massage"[MeSH] AND "cavopulmonary anastomosis"[All Fields] AND Title/Abstract[All Fields]) OR ("heart massage"[MeSH] AND "glenn"[Title/Abstract]) OR ("heart massage"[MeSH] AND "cavopulmonary connection"[Title/Abstract]) OR ("heart massage"[MeSH] AND "superior cavopulmonary connection"[Title/Abstract]) OR ("heart massage"[MeSH] AND "superior cavopulmonary anastomosis"[Title/Abstract]) OR ("heart bypass, right"[MeSH] AND "resuscitation"[Title/Abstract]) OR ("heart bypass, right"[MeSH] AND "pediatric advanced cardiac life support"[Title/Abstract]) OR ("heart bypass, right"[MeSH] AND "cardiopulmonary resuscitation"[Title/Abstract]) OR ("heart bypass, right"[MeSH] AND "heart arrest"[Title/Abstract]) OR ("heart bypass, right"[MeSH] AND "advanced cardiac life support"[Title/Abstract]) OR ("heart bypass, right"[MeSH] AND "heart massage"[Title/Abstract]) OR ("fontan procedure"[MeSH] AND "resuscitation"[Title/Abstract]) OR ("fontan procedure"[MeSH] AND "pediatric advanced cardiac life support"[Title/Abstract]) OR ("fontan procedure"[MeSH] AND "cardiopulmonary resuscitation"[Title/Abstract]) OR ("fontan procedure"[MeSH] AND "heart arrest"[Title/Abstract] AND Title/Abstract[All Fields]) OR ("fontan procedure"[MeSH] AND "advanced cardiac life support"[Title/Abstract]) OR ("fontan

procedure"[MeSH] AND "heart massage"[Title/Abstract]) OR ("cardiopulmonary resuscitation"[MeSH] AND "tricuspid atresia"[Title/Abstract]) OR ("cardiopulmonary resuscitation"[MeSH] AND "hypoplastic left heart syndrome"[Title/Abstract]) OR ("cardiopulmonary resuscitation"[MeSH] AND "double inlet left ventricle"[Title/Abstract]) OR ("heart arrest"[MeSH] AND "tricuspid atresia"[Title/Abstract]) OR ("heart arrest"[MeSH] AND "hypoplastic left heart syndrome"[Title/Abstract]) OR ("heart arrest"[MeSH] AND "double inlet left ventricle"[Title/Abstract]) OR ("advanced cardiac life support"[MeSH] AND "tricuspid atresia"[Title/Abstract]) OR ("advanced cardiac life support"[MeSH] AND "hypoplastic left heart syndrome"[Title/Abstract]) OR ("advanced cardiac life support"[MeSH] AND "double inlet left ventricle"[Title/Abstract]) OR ("respiration, artificial"[MeSH] AND "tricuspid atresia"[Title/Abstract]) OR ("respiration, artificial"[MeSH] AND "hypoplastic left heart syndrome"[Title/Abstract]) OR ("respiration, artificial"[MeSH] AND "double inlet left ventricle"[Title/Abstract]) OR ("heart massage"[MeSH] AND "tricuspid atresia"[Title/Abstract]) OR ("heart massage"[MeSH] AND "hypoplastic left heart syndrome"[Title/Abstract]) OR ("heart massage"[MeSH] AND "double inlet left ventricle"[Title/Abstract]) OR ("hypoplastic left heart syndrome"[MeSH] AND "resuscitation"[Title/Abstract]) OR ("hypoplastic left heart syndrome"[MeSH] AND "pediatric advanced cardiac life support"[Title/Abstract]) OR ("hypoplastic left heart syndrome"[MeSH] AND "cardiopulmonary resuscitation"[Title/Abstract]) OR ("hypoplastic left heart syndrome"[MeSH] AND "heart arrest"[Title/Abstract]) OR ("hypoplastic left heart syndrome"[MeSH] AND "advanced cardiac life support"[Title/Abstract]) OR ("hypoplastic left heart syndrome"[MeSH] AND "heart massage"[Title/Abstract]) OR ("tricuspid atresia"[MeSH] AND "resuscitation"[Title/Abstract]) OR ("tricuspid atresia"[MeSH] AND "pediatric advanced cardiac life support"[Title/Abstract]) OR ("tricuspid atresia"[MeSH] AND "cardiopulmonary resuscitation"[Title/Abstract]) OR ("tricuspid atresia"[MeSH] AND "heart arrest"[Title/Abstract]) OR ("tricuspid atresia"[MeSH] AND "advanced cardiac life support"[Title/Abstract]) OR ("tricuspid atresia"[MeSH] AND "heart massage"[Title/Abstract]))
AND "observational study"[Publication Type] AND ("2013/01/01"[PDAT] : "2019/09/25"[PDAT])

Resuscitation following traumatic arrest (PLS 498: EvUp)

- trauma, traumat*, thoracost*, thoracot*; either as individual term (ti,ab,kw) or related MESH Term; combined using Boolean operators
- specific blocks defined for certain indicators:
 - o paediatric: to define the 'paediatric population' we used the predefined BMI block (<https://blocks.bmi-online.nl>)
 - o cardiac arrest: CPR/cardiac arrest: "life support care" [MESH] OR "life support" [TIAB] OR cardiopulmonary resuscitation [MESH] OR "cardiopulmonary resuscitation" [TIAB] OR ROSC [TIAB] OR "return of spontaneous circulation" [TIAB] OR heart arrest [MESH] OR "cardiac arrest" [TIAB]
 - o To exclude animal studies: NOT (animals [mh] NOT humans [mh])
 - o To exclude NOT "Letter"[Publication Type] OR "Editorial"[Publication Type] OR "Comment"[Publication Type])
- For Embase we prefiltered to avoid Medline duplicates by using [embase]/lim NOT ([embase]/lim AND [medline]/lim)
 - o Cardiac arrest: (resuscitation:ti,ab,kw OR 'resuscitation' OR 'resuscitation'/exp OR resuscitation OR 'heart' OR 'heart'/exp OR heart) AND (arrest:ti,ab,kw OR 'heart' OR 'heart'/exp OR heart) AND ('arrest' OR 'arrest'/exp OR arrest)

PALS: POST-CARDIAC ARREST CARE, INCLUDING POST-ARREST PROGNOSTICATION

Targeted Temperature Management (2019 CoSTR)

OVID Medline

<1946 – July 19, 2018>

Note: repeated December 13, 2018

(includes Epub Ahead of Print and In-Process & Other Non-Indexed Citations)

- 1 exp Heart Arrest/ (43864)
- 2 Ventricular Fibrillation/ (16519)
- 3 Resuscitation/ (25083)
- 4 exp Cardiopulmonary Resuscitation/ (16141)
- 5 cardiac arrest*.tw,kf. (30896)
- 6 cardiovascular arrest*.tw,kf. (61)
- 7 heart arrest*.tw,kf. (2179)
- 8 cardiopulmonary arrest*.tw,kf. (2259)
- 9 cardio-pulmonary arrest*.tw,kf. (48)
- 10 cardiopulmonary resuscitation.tw,kf. (13463)
- 11 cardio-pulmonary resuscitation.tw,kf. (346)
- 12 CPR.tw,kf. (11030)
- 13 advanced cardiac life support.tw,kf. (978)
- 14 ACLS.tw,kf. (1030)
- 15 asystole.tw,kf. (3469)
- 16 pulseless electrical activity.tw,kf. (769)
- 17 postresuscitation.tw,kf. (1006)
- 18 (return of circulation or return of spontaneous circulation or ROSC).tw,kf. (3352)
- 19 post resuscitation.tw,kf. (1021)
- 20 or/1-19 (104612)
- 21 exp Hypothermia, Induced/ (19708)
- 22 therapeutic hypothermia.tw,kf. (3312)
- 23 Hypothermia therapy.tw,kf. (256)
- 24 targeted temperature.tw,kf. (607)
- 25 target temperature.tw,kf. (831)
- 26 therapeutic mild hypothermia.tw,kf. (38)
- 27 therapeutic moderate hypothermia.tw,kf. (20)
- 28 Hypothermia for neuroprotection.tw,kf. (105)
- 29 induced hypothermia.tw,kf. (2403)
- 30 induced mild hypothermia.tw,kf. (60)
- 31 induced moderate hypothermia.tw,kf. (22)
- 32 artificial hibernation.tw,kf. (513)
- 33 artificial hypothermia.tw,kf. (121)
- 34 extracorporeal hypothermia.tw,kf. (5)
- 35 target body temperature.tw,kf. (18)
- 36 resuscitative hypothermia.tw,kf. (21)
- 37 (cool or cooling or chill or chilling).tw,kf. (47535)
- 38 or/21-37 (67115)
- 39 20 and 38 (4499)
- 40 (Infan* or newborn* or new-born* or perinat* or neonat* or baby or baby* or babies or toddler* or minors or minors* or boy or boys or boyfriend or boyhood or girl* or kid or kids

or child or child* or children* or schoolchild* or schoolchild).mp. or school child.tw. or school child*.tw. or adolescen*.mp. or juvenil*.mp. or youth*.mp. or teen*.mp. or under*age*.mp. or pubescen*.mp. or exp Pediatrics/ or pediatric*.mp. or paediatric*.mp. or pediatric*.mp. or school.tw. or school*.tw. or prematur*.mp. or preterm*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] (4292711)

- 41 39 and 40 (676)
- 42 41 not (animals/ not humans/) (621)
- 43 limit 42 to (comment or editorial or letter) (45)
- 44 42 not 43 (576)
- 45 remove duplicates from 44 (574)
- 46 limit 45 to ed=20180715-20181213 (13)

Oxygen and carbon dioxide targets in pediatric patients with return of spontaneous circulation after cardiac arrest (PLS 815: SysRev)

Search strategy (no PLS filters)

MEDLINE

- 1 exp Heart Arrest/
- 2 ((heart or cardi* or cardiovascular) adj1 arrest*).ab,kf,ti.
- 3 code 99.ab,kf,ti.
- 4 asystole.ab,kf,ti.
- 5 ((cardiopulmonary or cardio-pulmonary) adj1 arrest*).ab,kf,ti.
- 6 code blue.ab,kf,ti.
- 7 respiratory arrest*.ab,kf,ti.
- 8 pulseless electrical activity.ab,kf,ti.
- 9 Advanced Cardiac Life Support/
- 10 Advanced Cardi* Life Support.ab,kf,ti.
- 11 ACLS.ab,kf,ti.
- 12 exp Cardiopulmonary Resuscitation/
- 13 ventricular fibrillation/ or Tachycardia, Ventricular/
- 14 resuscitation/
- 15 ((cardiopulmonary or cardio-pulmonary) adj1 resuscitation).ab,kf,ti.
- 16 CPR.ab,kf,ti.
- 17 Resuscitation.jw.
- 18 or/1-17
- 19 (spontaneous circulation or Return of circulation).ab,kf,ti.
- 20 ROSC.ab,kf,ti.
- 21 (re-animat* or reanimate* or reanimation).ab,kf,ti.
- 22 (post resuscitat* or post-resuscitat* or postresuscitat*).ab,kf,ti.
- 23 postarrest*.ab,kf,ti.
- 24 (post adj2 (heart or cardiac or cardiovascular) adj1 arrest*).ab,kf,ti.
- 25 Intensive Care Units/
- 26 (Intensive Care or ICU or ICUs).ab,kf,ti.
- 27 or/19-26
- 28 Oxygen/bl [Blood]
- 29 Carbon Dioxide/bl [Blood]
- 30 hypoxia/ or hypercapnia/ or hyperoxia/ or hypocapnia/
- 31 exp Oxygen Inhalation Therapy/
- 32 Respiration, Artificial/

33 exp Ventilators, Mechanical/
34 ((blood or arterial or peripheral or titrated or inspired or high flow or supplement* or concentration or saturat*) adj2 (oxygen or oxygenation or reoxygenation or Carbon Dioxide or CO2 or O2)).ab,kf,ti.
35 (hypoxia or hyperoxia or normoxia or normocarbia or hypercapnia or hypocapnia or hyperoxic or supranormal or normoxic or titrated).ab,kf,ti.
36 Mechanical ventilat*.ab,kf,ti.
37 ventilation strateg*.ab,kf,ti.
38 (PaO2 or SpO2 or PaCO2).ab,kf,ti.
39 or/28-38
40 18 and 27 and 39
41 Animals/ not (Animals/ and Humans/)
42 40 not 41
43 (case reports or comment or editorial).pt.
44 42 not 43
45 ("30430209" or "29437118" or "24892265" or "27697606" or "27060535").ui.
46 44 and 45
47 ("26415731" or "25600183" or "24557423" or "24210887" or "23613256" or "23454258" or "17101205").ui.
48 44 and 47

Post-ROSC Blood pressure control (PLS 820: EvUp)

(((((((((post-resuscitat*[Title/Abstract]) OR postresuscitat*[Title/Abstract]) OR resuscitated[Title/Abstract]) OR after resuscitation[Title/Abstract]) OR sustained resuscitation[Title/Abstract]) OR return of spontaneous circulation[Title/Abstract]) OR return of circulation[Title/Abstract]) OR ROSC[Title/Abstract])) AND ((((((((((((Blood Pressure[MeSH Terms]) OR "Hypotension"[Mesh:NoExp]) OR Cardiotonic Agents[MeSH Terms]) OR Cardiotonic Agents[Pharmacological Action]) OR Vasoconstrictor Agents[MeSH Terms]) OR Vasoconstrictor Agents[Pharmacological Action]) OR "Hemodynamics"[Mesh:NoExp]) OR "Monitoring, Physiologic"[Mesh:NoExp]) OR blood pressure[Title/Abstract]) OR systolic pressure[Title/Abstract]) OR mean arterial pressure[Title/Abstract]) OR hypotension[Title/Abstract]) OR perfusion[Title/Abstract]) OR vasopressor*[Title/Abstract]) OR vasoactive[Title/Abstract]) OR inotrop*[Title/Abstract]) OR hemodynamic*[Title/Abstract]) OR haemodynamic*[Title/Abstract])) AND (((((Hospital Mortality[MeSH Terms]) OR "Survivors"[Mesh:NoExp]) OR "Survival Analysis"[Mesh:NoExp]) OR surviv*[Title/Abstract]) OR death*[Title/Abstract]) OR mortalit*[Title/Abstract]) OR neurologic outcome*[Title/Abstract]) AND ((infan* OR baby OR baby* OR babies OR toddler* OR minors OR minors* OR kid OR kids OR child OR child* OR children* OR schoolchild* OR schoolchild OR school child[tiab] OR school child*[tiab] OR adolescen* OR juvenil* OR youth* OR teen* OR under*age* OR pubescen* OR pediatrics[mh] OR pediatric* OR paediatric* OR pediatric* OR school[tiab] OR school*[tiab])) NOT (newborn* OR new-born* OR perinat* OR neonat* OR prematur* OR preterm*))) AND (NOT (animals [mh])))

Revised search

Updated 30 Aug 2020 Last 1 year = 58 results

(post-resuscitat*[Title/Abstract] OR postresuscitat*[Title/Abstract] OR resuscitated[Title/Abstract] OR after resuscitation[Title/Abstract] OR sustained resuscitation[Title/Abstract] OR return of spontaneous circulation[Title/Abstract] OR return of circulation[Title/Abstract] OR ROSC[Title/Abstract]) AND (Blood Pressure[MeSH Terms] OR "Hypotension"[Mesh:NoExp] OR Cardiotonic Agents[MeSH Terms] OR

Cardiotonic Agents[Pharmacological Action] OR Vasoconstrictor Agents[MeSH Terms] OR Vasoconstrictor Agents[Pharmacological Action] OR "Hemodynamics"[Mesh:NoExp] OR "Monitoring, Physiologic"[Mesh:NoExp] OR blood pressure[Title/Abstract] OR systolic pressure[Title/Abstract] OR mean arterial pressure[Title/Abstract] OR hypotension[Title/Abstract] OR perfusion[Title/Abstract] OR vasopressor*[Title/Abstract] OR vasoactive[Title/Abstract] OR inotrop*[Title/Abstract] OR hemodynamic*[Title/Abstract] OR haemodynamic*[Title/Abstract] AND (infan* OR baby OR baby* OR babies OR toddler* OR minors OR minors* OR kid OR kids OR child OR child* OR children* OR schoolchild* OR schoolchild OR school child[tiab] OR school child*[tiab] OR adolescen* OR juvenil* OR youth* OR teen* OR under*age* OR pubescen* OR pediatrics[mh] OR pediatric* OR paediatric* OR pediatric* OR school[tiab] OR school*[tiab]) NOT (newborn* OR new-born* OR perinat* OR neonat* OR prematur* OR preterm*) NOT (animals [mh] NOT humans [mh])

Post-ROSC Neuro-prognostication (PLS 813: EvUp)

- ((cardiac arrest) AND pediatric) AND imaging
- ((cardiac arrest) AND pediatric) AND prognosis
- ((cardiac arrest) AND pediatric) AND factor and prognosis
- ((cardiac arrest) AND pediatric) AND electrophysiology

Repeated just generic prognostic search:

Updated 30 Aug 2020 Last 1 year = 97 results

(((((Heart Arrest[MeSH Terms] OR Ventricular Fibrillation[MeSH Terms] OR Cardiopulmonary Resuscitation[MeSH Terms] OR heart arrest[TIAB] OR cardiac arrest[TIAB] OR cardiopulmonary arrest[TIAB] OR cardiovascular arrest[TIAB] OR asystole[TIAB] OR ventricular fibrillation[TIAB] OR pulseless electrical activity[TIAB] OR advanced cardiac life support[TIAB] OR ACLS[TIAB] OR resuscitat*[TIAB] OR CPR[TIAB] OR post-resuscitat*[TIAB] OR postresuscitat*[TIAB] OR return of spontaneous circulation[TIAB] OR return of circulation[TIAB] OR ROSC[TIAB] OR post-cardiac arrest[TIAB] OR post-infarct*[TIAB] OR postinfarct*[TIAB])))) AND (((((Survival[MeSH Terms]) OR Survivors[Mesh:NoExp]) OR Survival Rate[MeSH Terms]) OR Survival Analysis[MeSH Terms]) OR surviv*[Title/Abstract])) AND (((Prognosis[Mesh:NoExp]) OR "Predictive Value of Tests"[MeSH Terms]) OR prognos*[Title/Abstract]) OR predict*)) AND (Infan* OR newborn* OR new-born* OR perinat* OR neonat* OR baby OR baby* OR babies OR toddler* OR minors OR minors* OR boy OR boys OR boyfriend OR boyhood OR girl* OR kid OR kids OR child OR child* OR children* OR schoolchild* OR schoolchild OR school child[tiab] OR school child*[tiab] OR adolescen* OR juvenil* OR youth* OR teen* OR under*age* OR pubescen* OR pediatrics[mh] OR pediatric* OR paediatric* OR paediatric* OR school[tiab] OR school*[tiab] OR prematur* OR preterm*) NOT (animals[mh] NOT humans[mh]) NOT ("letter"[pt] OR "comment"[pt] OR "editorial"[pt]))

Biomarkers

((((((((((((((((((((("Natriuretic Peptide, Brain"[Mesh]) OR "Ammonia"[Mesh]) OR "MicroRNAs"[Mesh]) OR (((("Acid-Base Equilibrium"[Mesh]) OR "Alkalosis"[Mesh]) OR "Acidosis"[Mesh]))) OR "Phosphopyruvate Hydratase"[Mesh]) OR "Glial Fibrillary Acidic Protein"[Mesh]) OR "Ubiquitin Thiolesterase"[Mesh]) OR "Cell-Free Nucleic Acids"[Mesh]) OR (((Interleukin-6)[Mesh]) OR "Interleukin-8"[Mesh]) OR "Interleukin-10"[Mesh])) OR "Ferritins"[Mesh]) OR "fibrin fragment D" [Supplementary Concept]) OR "Procalcitonin"[Mesh]) OR (tau fragment or tau or base excess or Neurofilament light chain or nfl or Mitochondrial cell-free DNA or Neutrophil gelatinase-associated lipoprotein or Cytochrome C Mitochondrial protein or sulfonylurea receptor-1 or ph or d-dimer)) OR

"Cardiolipins"[Mesh]) OR "LCN2 protein, human" [Supplementary Concept]) OR
"Glutathione"[Mesh]) OR "Superoxide Dismutase"[Mesh]) OR "Lactic Acid"[Mesh]) OR
("Metabolic Networks and Pathways"[Mesh])) OR "HMGB1 Protein"[Mesh]) OR
"Cytochromes c"[Mesh]) OR "Apolipoprotein E4"[Mesh]) OR "Multidrug Resistance-
Associated Proteins"[Mesh]) OR "Poly (ADP-Ribose) Polymerase-1"[Mesh]) OR "S100
Calcium Binding Protein beta Subunit"[Mesh]) OR "Nerve Growth Factors"[Mesh]) OR
"Myelin Basic Protein"[Mesh]) OR "Biomarkers/blood"[Mesh]) OR
"Biomarkers/urine"[Mesh]) OR "Biomarkers/cerebrospinal fluid"[Mesh]) OR
"Biomarkers"[Mesh]) OR "tau Proteins"[Mesh]) (12393614)

AND

(((((Heart Arrest[MeSH Terms] OR Ventricular Fibrillation[MeSH Terms] OR
Cardiopulmonary Resuscitation[MeSH Terms] OR heart arrest[TIAB] OR cardiac
arrest[TIAB] OR cardiopulmonary arrest[TIAB] OR cardiovascular arrest[TIAB] OR
asystole[TIAB] OR ventricular fibrillation[TIAB] OR pulseless electrical activity[TIAB] OR
advanced cardiac life support[TIAB] OR ACLS[TIAB] OR resuscitat*[TIAB] OR
CPR[TIAB] OR post-resuscitat*[TIAB] OR postresuscitat*[TIAB] OR return of spontaneous
circulation[TIAB] OR return of circulation[TIAB] OR ROSC[TIAB] OR post-cardiac
arrest[TIAB] OR post-infarct*[TIAB] OR postinfarct*[TIAB])))

(139417)

AND

((((Survival[MeSH Terms]) OR Survivors[Mesh:NoExp]) OR Survival Rate[MeSH Terms])
OR Survival Analysis[MeSH Terms]) OR surviv*[Title/Abstract])) AND
(((Prognosis[Mesh:NoExp]) OR "Predictive Value of Tests"[MeSH Terms]) OR
prognos*[Title/Abstract]) OR predict*

(1776582)

AND

(Infan* OR newborn* OR new-born* OR perinat* OR neonat* OR baby OR baby* OR
babies OR toddler* OR minors OR minors* OR boy OR boys OR boyfriend OR boyhood OR
girl* OR kid OR kids OR child OR child* OR children* OR schoolchild* OR schoolchild
OR school child[tiab] OR school child*[tiab] OR adolescen* OR juvenil* OR youth* OR
teen* OR under*age* OR pubescen* OR pediatrics[mh] OR pediatric* OR paediatric* OR
pediatric* OR school[tiab] OR school*[tiab] OR prematur* OR preterm*))

(5214816)

NOT (animals[mh] NOT humans[mh]) (4645784)

NOT ("letter"[pt] OR "comment"[pt] OR "editorial"[pt]) (1788239)

Revised search biomarkers only

Updated 30 Aug 2020 Last 1 year = 21 results

((((((((((((((((((("Natriuretic Peptide, Brain"[Mesh]) OR "Ammonia"[Mesh]) OR
"MicroRNAs"[Mesh]) OR (((("Acid-Base Equilibrium"[Mesh]) OR "Alkalosis"[Mesh]) OR
"Acidosis"[Mesh]))) OR "Phosphopyruvate Hydratase"[Mesh]) OR "Glial Fibrillary Acidic
Protein"[Mesh]) OR "Ubiquitin Thiolesterase"[Mesh]) OR "Cell-Free Nucleic
Acids"[Mesh]) OR (((Interleukin-6"[Mesh]) OR "Interleukin-8"[Mesh]) OR "Interleukin-
10"[Mesh])) OR "Ferritins"[Mesh]) OR "fibrin fragment D" [Supplementary Concept]) OR
"Procalcitonin"[Mesh]) OR (tau fragment or tau or base excess or Neurofilament light chain
or nfl or Mitochondrial cell-free DNA or Neutrophil gelatinase-associated lipoprotein or
Cytochrome C Mitochondrial protein or sulfonylurea receptor-1 or ph or d-dimer)) OR
"Cardiolipins"[Mesh]) OR "LCN2 protein, human" [Supplementary Concept]) OR
"Glutathione"[Mesh]) OR "Superoxide Dismutase"[Mesh]) OR "Lactic Acid"[Mesh]) OR
("Metabolic Networks and Pathways"[Mesh])) OR "HMGB1 Protein"[Mesh]) OR

"Cytochromes c"[Mesh] OR "Apolipoprotein E4"[Mesh]) OR "Multidrug Resistance-Associated Proteins"[Mesh]) OR "Poly (ADP-Ribose) Polymerase-1"[Mesh]) OR "S100 Calcium Binding Protein beta Subunit"[Mesh]) OR "Nerve Growth Factors"[Mesh]) OR "Myelin Basic Protein"[Mesh]) OR "Biomarkers/blood"[Mesh]) OR "Biomarkers/urine"[Mesh]) OR "Biomarkers/cerebrospinal fluid"[Mesh]) OR "Biomarkers"[Mesh]) OR "tau Proteins"[Mesh]) AND ((((((Heart Arrest[MeSH Terms] OR Ventricular Fibrillation[MeSH Terms] OR Cardiopulmonary Resuscitation[MeSH Terms] OR heart arrest[TIAB] OR cardiac arrest[TIAB] OR cardiopulmonary arrest[TIAB] OR cardiovascular arrest[TIAB] OR asystole[TIAB] OR ventricular fibrillation[TIAB] OR pulseless electrical activity[TIAB] OR advanced cardiac life support[TIAB] OR ACLS[TIAB] OR resuscitat*[TIAB] OR CPR[TIAB] OR post-resuscitat*[TIAB] OR postresuscitat*[TIAB] OR return of spontaneous circulation[TIAB] OR return of circulation[TIAB] OR ROSC[TIAB] OR post-cardiac arrest[TIAB] OR post-infarct*[TIAB] OR postinfarct*[TIAB])) AND (((((Survival[MeSH Terms]) OR Survivors[Mesh:NoExp]) OR Survival Rate[MeSH Terms]) OR Survival Analysis[MeSH Terms]) OR surviv*[Title/Abstract])) AND (((Prognosis[Mesh:NoExp]) OR "Predictive Value of Tests"[MeSH Terms]) OR prognos*[Title/Abstract]) OR predict*) AND (Infan* OR newborn* OR new-born* OR perinat* OR neonat* OR baby OR baby* OR babies OR toddler* OR minors OR minors* OR boy OR boys OR boyfriend OR boyhood OR girl* OR kid OR kids OR child OR child* OR children* OR schoolchild* OR schoolchild OR school child[tiab] OR school child*[tiab] OR adolescen* OR juvenil* OR youth* OR teen* OR under*age* OR pubescen* OR pediatrics[mh] OR pediatric* OR paediatric* OR peadiatric* OR school[tiab] OR school*[tiab] OR prematur* OR preterm*) NOT (animals[mh] NOT humans[mh]) NOT ("letter"[pt] OR "comment"[pt] OR "editorial"[pt])