



## Appendix 1: Worksheet topics and authors

### International Liaison Committee on Resuscitation

Topic no.	Topic	Worksheet author and WS abbreviation	
		AHA author	ILCOR author
1	Securement of endotracheal tube following intubation	George W. Hatch, Jr, EdD, LP, EMT-P <b>W1.Hatch.doc</b>	
2	Impedance threshold valve in pediatric CPR	Lester T. Proctor, MD <b>W2.Proctor.doc</b>	
3	15:2 vs. 5:1 compression:ventilation ratio	Robert W. Hickey, MD <b>W3A.Hickey.doc</b> Robert A. Berg, MD <b>W3B.Berg.doc</b>	James Tibballs, MD <b>W3C.Tibballs.doc</b>
4	... the age-based sequence ("phone fast" for infants and children, "phone first" for children >8 years old and adults) was retained (Class Indeterminate)	Linda Quan, MD <b>W4.Quan.doc</b>	
5	Lay rescuers are instructed to assess for signs of circulation rather than attempt to check a pulse (Class IIa)	Arno Zaritsky, MD <b>W5A.Zaritsky.doc</b> Melinda L. Fiedor, MD <b>W5B.Fiedor.doc</b>	
6	BMV ventilation vs. endotracheal intubation		Dominique Biarent <b>W6.Biarent.doc</b>
7	Mouth-to-nose rescue breathing	Vinay M. Nadkarni, MD <b>W7A.Nadkarni.doc</b>	David Zideman, MD <b>W7B.Zideman.doc</b>
8	Some CPR vs. no CPR	Robert A. Berg, MD <b>W8.Berg.doc</b>	
9	Two thumb circumferential CPR vs. two finger CPR	Monica E. Kleinman, MD <b>W9A.Kleinman.doc</b>	James Tibballs, MD <b>W9B.Tibballs.doc</b>
10	Capillary fill time		James Tibballs, MD <b>W10.Tibballs.doc</b>
11	Cuffed vs. uncuffed ET tubes	Lester T. Proctor, MD Ashraf Coovadia, MD <b>W11A.Coovadia.doc</b> <b>W11B.Proctor.Coovadia.doc</b>	

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		AHA author	ILCOR author
12	Predictors of return of spontaneous circulation (ROSC) and/or short term survival		David Zideman, MD <b>W12B.Zideman.doc</b>
13	Thrombolytics for pediatric cardiac arrest	Vinay M. Nadkarni, MD <b>W13_Nadkarni.doc</b>	
14	Potential for oxygen toxicity	Robert W. Hickey, MD <b>W14A.Hickey.doc</b>	David Zideman, MD <b>W14B.Zideman.doc</b>
15	Magnesium in pediatric cardiac arrest		Amelia Gorete Reis, PhD <b>W15_Reis.doc</b>
16	Hypertonic saline for resuscitation (traumatic and non-traumatic)		Renato Carrera, MD <b>W16_Carrera.doc</b>
17	Graded volume resuscitation for traumatic shock		Jesús López-Herce, MD <b>W17_Lopez-Hence.doc</b>
18	Ventilation prior to naloxone (discrepancy with peds and adult guidelines)	Anthony J. Scalzo, MD <b>W18_Scalzo.doc</b>	
19	Vasopressin for pediatric shock-refractory VF	Stephen M. Schexnayder, MD <b>W19A.Schexnayder.doc</b>	Dominique Biarent <b>W19B.Biarent.doc</b>
20	Lidocaine for pediatric shock-resistant VF or pulseless VT	Dianne L. Atkins, MD <b>W20_Atkins.doc</b>	
21	Amiodarone for pediatric shock resistant VF/VT	Dianne L. Atkins, MD <b>W21A_Atkins.doc</b>	Antonio Rodriguez-Núñez <b>W21B.Rodrigues-Nunez.doc</b>
22	Post-resuscitation temperature management: a. induced hypothermia b. hyperthermia	Robert W. Hickey, MD <b>W22A.Hickey.doc</b> <b>W22B.Hickey.doc</b> Elise W. van der Jagt, MD, MPH <b>W22C_van der Jagt.doc</b>	Antonio Rodriguez-Núñez <b>W22D.Rodrigues-Nuez.doc</b>
23	Secondary confirmation of tracheal tube placement using esophageal detector device	Monica E. Kleinman, MD <b>W23_Kleinman.doc</b>	
24	End-tidal CO <sub>2</sub> monitoring during transport.	Monica E. Kleinman, MD <b>W24.Kleinman.doc</b>	
25	Secondary confirmation of tracheal tube placement using exhaled CO <sub>2</sub>	Monica E. Kleinman, MD <b>W25_Kleinman.doc</b>	
26	LMAs for pediatric arrest	Richard T. Fiser, MD <b>W26A.Fiser.doc</b>	Robert Bingham, MD <b>W26B.Bingham.doc</b>
27	Hyperventilation is no longer routinely recommended		Naoki Shimizu, MD, PhD <b>W27_Shimizu.doc</b>
28	ECMO and emergency cardiopulmonary bypass for children	Marilyn Morris <b>W28_Morris.doc</b>	
29	Intraosseous cannula		Allan de Caen, MD <b>W29_de Caen.doc</b>

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30	Use of glucose during and after a resuscitation	Paul M. Shore, MD <b>W30A.Shore.doc</b> Vijay Srinivasan, MD <b>W30B.Srinivasan.doc</b>	Amelia Gorete Reis, PhD <b>W30C_Reis.doc</b>
31	Dose of epinephrine for cardiac arrest in children	Adnan T. Bhutta <b>W31A.Bhutta.doc</b>	Robert Bingham, MD <b>W31B_Bingham.doc</b>
32	Administration and dosage of drugs given via the endotracheal tube		Allan de Caen, MD <b>W32_de Caen.doc</b>
33	Can vasoactive agents improve hemodynamics in the setting of post-arrest myocardial dysfunction?	Robert A. Berg, MD <b>W33A.Berg.doc</b> Allan de Caen, MD <b>W33B.de Caen.doc</b> Elise W. van der Jagt, MD, MPH <b>W33C.van der Jagt.doc</b> Berg, de Caen, van der Jagt Summary: <b>W33D.Berg.de Caen.van der Jagt.doc</b>	
34	Sodium bicarbonate for pediatric prolonged cardiac arrest	Douglas S. Diekema, MD, MPH <b>W34.Diekema.doc</b>	
35	Procainamide for a perfusing rhythm associated with VT	Ricardo Samson, MD <b>W35.Samson.doc</b>	
36	Vagal maneuvers	Ricardo Samson, MD <b>W36.Samson.doc</b>	
37	Procainamide is an alternative agent for hemodynamically stable SVT.	Ricardo Samson, MD <b>W37.Samson.doc</b>	
38	Amiodarone is an alternative agent for hemodynamically stable SVT.	Ricardo Samson, MD <b>W38.Samson.doc</b>	
39	Amiodarone for hemodynamically stable wide QRS tachycardia	William Hammill, MD <b>W39A.Hammil.doc</b> Ricardo Samson, MD <b>W39B.Samson.doc</b>	
40	Amiodarone for hemodynamically unstable VT	William Hammill, MD <b>W40.Hammil.doc</b>	
41	What is the appropriate dose for biphasic defibrillation in children	James Tibballs, MD <b>W41A.Tibballs.doc</b>	Linda Quan, MD <b>W41B_Quan.doc</b>
276	Method of chest (cardiac) compression for children	James Tibballs, MD Edward Stapleton <b>W276.Tibballs.Stapleton.doc</b>	
42	Is the laryngeal mask airway (LMA—including variations) as safe and effective as tracheal intubation for the management of the airway during cardiac arrest?	Michael Shuster, MD <b>W42A.Shuster.doc</b>	Jerry Nolan, MD <b>W42B.Nolan.doc</b>
43	Is the Combitube as safe and effective as tracheal intubation for the management of the airway during cardiac arrest?	Michael Shuster, MD <b>W43A.Shuster.doc</b>	Andreas R. Thierbach, MD <b>W43B_Thierbach.doc</b>

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44	Is the <b>laryngeal tube</b> as safe and effective as tracheal intubation for the management of the airway during cardiac arrest?	Michael Shuster, MD W44A_Shuster.doc	Andreas R. Thierbach, MD W44B_Thierbach.doc
45	Does the <b>oropharyngeal airway</b> provide a patent airway during CPR	Keiichi Tanaka, MD W45_Tanaka.doc	
46	Does the <b>nasopharyngeal airway</b> provide a patent airway during CPR	Keiichi Tanaka, MD W46A_Tanaka.doc	
47	Is use of end-tidal CO <sub>2</sub> safe and effective to confirm placement of tracheal tubes during cardiac arrest?	Henry E. Wang, MD MPH Frances X. Guyette W47_Wang_Guyette.doc	
48	Is use of an oesophageal detector device safe and effective for confirming placement of tracheal tubes during cardiac arrest?	Douglas F. Kupas, MD W48A_Kupas.doc	
49	Do commercial devices for securing the tracheal tube, backboards, cervical collars, other strategies provide a more effective method for preventing accidental tube displacement during resuscitation?	Robert O'Connor, MD W49A_O'Connor.doc	Burkhard Dirks, MD, PhD W49B_Dirks.doc
50	Is use of end-tidal CO <sub>2</sub> safe and effective to confirm placement of alternative airway devices during cardiac arrest?	Henry E. Wang, MD MPH Frances X. Guyette W50_Wang_Guyette.doc	
51	Is use of an oesophageal detector device safe and effective for confirming placement of alternative airway devices during cardiac arrest?	Douglas F. Kupas, MD W51A_Kupas.doc	Volker Döriges, MD W51B_Döriges.doc
52	When should we commence ventilation during cardiac arrest?	Octavio A. Falcucci, MD Rebecca L. Cain W52_Falcucci_Cain.doc	
53	What are the optimal respiratory rates and tidal volumes during cardiac arrest?		Volker Döriges, MD W53_Döriges.doc
54	Is the use of intermittent disconnection safe and effective for the management of ventilation during cardiac arrest?	Imo P. Aisiku Chris Hogan, MD W54A_Aisiku_Hogan.doc	Peter Morley, MD W54B_Morley.doc
55	Are automatic transport ventilators safe and effective for the management of ventilation during cardiac arrest?	Douglas F. Kupas, MD W55_Kupas.doc	
56	Are oxygen-powered, manually triggered devices safe and effective for the management of ventilation during cardiac arrest?		
57	Is the <b>bag-valve mask</b> as safe and effective as tracheal intubation for ventilation during cardiac arrest?		Jerry Nolan, MD W57_Nolan.doc
58	Does the use of fist pacing in cardiac arrest achieve adequate circulation?		Christoph Eich, MD W58_Eich.doc
59	Does the use of a pre-cordial thump in cardiac arrest successfully achieve cardioversion of VF or pulseless VT		Christoph Eich, MD W59_Eich.doc
60	What is the optimal energy level for defibrillation?	Richard E. Kerber, MD Colin Robertson, MD Karl B. Kern, MD W60A_Kern.doc	Ian G. Stiell, MD W60B_Stiell.doc

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61	What is the optimal waveform for defibrillation?	Richard E. Kerber, MD Colin Robertson, MD Karl B. Kern, MD <b>W61A_Kern.doc</b>	Peter Morley, MD <b>W61B_Morley.doc</b>
62	Does the use of AEDs in hospital improve outcome when compared with manual defibrillation?	Richard E. Kerber, MD	Peter Morley, MD <b>W62A_Morley.doc</b>
63	Does paddle size/orientation and position effect outcome during cardiac arrest?	Dianne L. Atkins, MD <b>W63A_Atkins.doc</b>	Benno Wolcke, MD <b>W63B_Wolcke.doc</b>
64	Is it possible to reliably predict success of defibrillation from the fibrillation waveform?	Max Harry Weil, MD, PhD, DSc (HON) Mary Ann Peberdy, MD <b>W64A.Weil_Peberdy.doc</b>	Petter Andreas Steen, MD, PhD <b>W64B_Steen.doc</b> Trygve Eftestøl, Dr.Ing <b>W64C_Eftestol.doc</b>
65	Does the prediction of the likelihood of success of defibrillation enable treatment to be altered to improve outcome?	Max Harry Weil, MD, PhD, DSc (HON) Mary Ann Peberdy, MD <b>W65A.Weil_Peberdy.doc</b>	
66	Does the collection of the data acquired from a defibrillator provide valuable information for quality control and education?		Dr. Michael Baubin, MSc <b>W66_Baubin.doc</b>
67	Does the delay for rhythm analysis, either manually or automatically, adversely effect outcome?		
68	Does chest compression before defibrillation improve outcome?	Vincent N Mosesso, Jr, MD Edison Ferreira de Paiva, MD Leo Bossaert, MD, PhD <b>W68_Gazmuri_Mosesso_de Paiva_Bossaert.doc</b>	
69	Does the use of up to 3 shocks for subsequent shocks improve outcome compared with single shock?	Wanchun Tang, MD Max Harry Weil, MD, PhD, DSc (HON) <b>W69A.Tang.Weil.doc</b>	Max Harry Weil, MD, PhD, DSc (HON) <b>W69B_Weil.doc</b> Rudolph W. Koster, MD, PhD <b>W69C_Koster.doc</b>
70	Does the presence of supplementary oxygen in the immediate vicinity increase the risks of fire during defibrillation	Joseph P. Ornato, MD <b>W70A.Ornato.doc</b>	Jerry Nolan, MD <b>W70B_Nolan.doc</b>
71	Do self-adhesive defibrillation pads have benefit over standard paddles		Charles D. Deakin, MA, MD <b>W71_Deakin.doc</b>
72	Does the composition of conductive material affect transthoracic impedance		Dr. Michael Baubin, MSc <b>W72_Baubin.doc</b>
73	Does IAC-CPR improve outcome from cardiac arrest when compared with standard CPR?	Charles F. Babbs, MD, PhD <b>W73A.Babbs.doc</b>	Peter Morley, MD <b>W73B_Morley.doc</b>

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74	Does High-Frequency CPR improve outcome from cardiac arrest when compared with standard CPR?	Henry Halperin, MD <b>W74_Halperin.doc</b>	
75	Does ACD-CPR improve outcome from cardiac arrest when compared with standard CPR?	Henry Halperin, MD <b>W75A_Halperin.doc</b>	Peter Morley, MD <b>W75B_Morley.doc</b>
76	Does Vest CPR improve outcome from cardiac arrest when compared with standard CPR?	Henry Halperin, MD <b>W76A_Halperin.doc</b>	Pierre Carli, MD <b>W76B_Carli.doc</b>
77	Does Mechanical (Piston) CPR improve outcome from cardiac arrest when compared with standard CPR?	Henry Halperin, MD <b>W77A_Halperin.doc</b> Sten Rubertsson, MD, PhD <b>W77B_Rubertsson.doc</b>	
78	Does Phased Thoracic-Abdominal Compression-Decompression CPR improve outcome from cardiac arrest when compared with standard CPR?		Kjetil Sunde, MD, PhD <b>W78B_Sunde.doc</b>
79	Does MID-CM improve outcome from cardiac arrest when compared with standard CPR?	Henry Halperin, MD <b>W79A_Halperin.doc</b>	Pierre Carli, MD <b>W79B_Carli.doc</b>
80	Does Impedance Threshold Valve improve outcome from cardiac arrest when compared with standard CPR?	Henry Halperin, MD <b>W80_Halperin.doc</b>	
81	Does Open Chest CPR improve outcome from cardiac arrest when compared with standard CPR?		Lars Widklund, MD Sten Rubertsson, MD, PhD <b>W81B_Wiklund_Rubertsson.doc</b>
82	Do extracorporeal techniques or invasive perfusion devices improve outcome from cardiac arrest when compared with standard CPR?	Octavio A. Falcucci, MD Seshendra Chirumamilla <b>W82_Falcucci_Chirumamilla.doc</b>	
83	What is the optimal drug therapy for VF?	Jason S. Haukoos, MD, MS Norman A. Paradis, MD <b>W83A_Haukoos.Paradis.doc</b> Jason Bartsch Charles M. Little, DO Norman A. Paradis, MD <b>W83B_Bartsch_Little_Paradis.doc</b> Charles M. Little, DO Norman A. Paradis, MD <b>W83C_Little_Paradis.doc</b> <b>W83D_Little_Paradis.doc</b> Gayle Long, MD Norman A. Paradis, MD <b>W83E_Long_Paradis.doc</b> Gayle Long, MD Charles M. Little, DO Norman A. Paradis, MD <b>W83F_Long_Little_Paradis.doc</b> <b>W83G_Long_Little_Paradis.doc</b>	Hendrik W. Gervais, MD, PhD <b>W83H_Gervais.doc</b> <b>W83I_Gervais.doc</b> <b>W83J_Gervais.doc</b> <b>W83K_Gervais.doc</b>

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84	What is the optimal drug therapy for asystole?	Gayle Long, MD Charles M. Little, DO Norman A. Paradis, MD <b>W84A.Long.Little.Paradis.doc</b> <b>W84B.Long.Little.Paradis.doc</b> Jason Bartsch Charles M. Little, DO Norman A. Paradis, MD <b>W84C.Bartsch.Little.Paradis.doc</b>	Volker Wenzel, MD <b>W84D.Wenzel.doc</b>
85	What is the optimal drug therapy for PEA?	Gayle Long, MD Charles M. Little, DO Norman A. Paradis, MD <b>W85A.Long.Little.Paradis.doc</b> <b>W85B.Long.Little.Paradis.doc</b>	Hendrik W. Gervais, MD, PhD <b>W85C.Gervais.doc</b>
86	What is the optimal drug therapy for atrial fibrillation?	Robert O'Connor, MD <b>W86.O'Connor.doc</b>	
87	What is the optimal drug therapy for narrow complex tachycardia?		Swee Han Lim, MD <b>W87.Lim Swee Han.doc</b>
88	What is the optimal drug therapy for monomorphic (wide complex) tachycardia?		Hans Domanovits, MD <b>W88.Domanovits.doc</b>
89	What is the optimal drug therapy for polymorphic (wide complex) tachycardia?		Hans Domanovits, MD <b>W89.Domanovits.doc</b>
90	What is the optimal drug therapy for Torsades de Pointes?		Hans Domanovits, MD <b>W90.Domanovits.doc</b>
91	What is the optimal drug therapy for significant bradycardia?		Swee Han Lim, MD <b>W91.Lim Swee Han.doc</b>
92	Does the use of end-tidal CO <sub>2</sub> monitoring during cardiac arrest guide more appropriate management?	Arthur B. Sanders, MD <b>W92A.Sanders.doc</b>	Benno Wolcke, MD <b>W92B.Wolcke.doc</b>
93	Does the use of arterial blood gas monitoring during cardiac arrest guide more appropriate management?	Max Harry Weil, MD, PhD, DSc (HON) <b>W93A.Weil.doc</b>	Fulvio Kette, MD <b>W93B.Kette.doc</b>
94	Does alteration of management based on the use of ultrasound during cardiac arrest improve outcome?		
95	Does the use of coronary perfusion pressure guide more appropriate management?	Charles M. Little, DO Norman A. Paradis, MD <b>W95A.Little.Paradis.doc</b>	Wolfgang G. Voelckel, MD <b>W95C.Voelckel.doc</b>
96	Does the use of thrombolytics improve outcome when used during the management of cardiac arrest?	Joseph P. Ornato, MD <b>W96A.Ornato.doc</b> Riyad B. Abu-Laban, MD, MHSc <b>W96B.Abu-Laban.doc</b>	Bernd W. Böttiger, MD <b>W96C.Boettiger.doc</b>
97	Does the use of atropine improve outcome when used during the management of cardiac arrest?	Munish Goyal, MD <b>W97A.Goyal.doc</b>	Swee Han Lim, MD <b>W97B.Swee Han Lim.doc</b>

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98	Does the use of aminophylline improve outcome when used during the management of cardiac arrest?	Riyad B. Abu-Laban, MD, MHSc <b>W98A_Abu-Laban.doc</b>	Burkhard Dirks, MD, PhD <b>W98B_Dirks.doc</b>
99	Does the use of calcium improve outcome when used during the management of cardiac arrest?		
100	Does the use of buffers improve outcome when used during the management of cardiac arrest?	Kyle Gunnerson, MD <b>W100A_Gunnerson.doc</b>	Fulvio Kette, MD Gad Bar-Joseph <b>W100B.Kette_</b> <b>Bar-Joseph.doc</b>
101	Does the use of magnesium improve outcome when used during the management of cardiac arrest?	Ross Berringer <b>W101A_Berringer.doc</b>	Miguel Ruano-Marco, MD <b>W101B_Ruano.doc</b>
102	Does the use of potassium improve outcome when used during the management of cardiac arrest?		
103	Does the use of drug X improve outcome when used during the management of cardiac arrest due to drug toxicity with drug Y? (digoxin, cyanide, opiates, organophosphates, cocaine, beta-blockers, calcium channel blockers, tricyclics)		
104	Does the use of pacing for asystolic cardiac arrest improve outcome?		Miguel Ruano-Marco, MD <b>W104_Ruano.doc</b>
105	Does the routine use of fluids during resuscitation improve outcome from cardiac arrest?	Terry L. Vanden Hoek, MD Raina Merchant Jasmeet Soar, MD <b>W105_vanden</b> <b>Hoek_Merchant_Soar.doc</b>	
106	Does ventilation before giving naloxone improve outcome when used during the management of cardiac arrest due to opioid toxicity?		Jasmeet Soar, MD <b>W106_Soar.doc</b>
107	Does the use intraosseus fluid and drugs improve outcome during cardiac arrest		
108	What is the role and optimal dose of drugs given via the tracheal route during cardiac arrest		Volker Wenzel, MD <b>W108_Wenzel.doc</b>
109	Does the use of <b>therapeutic hypothermia</b> in the management of the patient after a cardiac arrest improve outcome?	Terry L. Vanden Hoek, MD <b>W109A_vanden Hoek.doc</b>	Peter Morley, MD Jerry Nolan, MD <b>W109B_Morley_</b> <b>Nolan.doc</b>
110	Does the <b>prevention of hyperthermia/use of antipyretics</b> in the management of the patient after a cardiac arrest improve outcome?	David G. Beiser, MD/MS Terry L. Vanden Hoek, MD <b>W110_Beiser_Vanden</b> <b>Hoek.doc</b>	
111	Does the <b>prevention of seizures</b> in the management of the patient after a cardiac arrest improve outcome?	Kyle Gunnerson, MD <b>W111A_Gunnerson.doc</b>	Nabil El Sanadi, MD, MBA <b>W111B.El</b> <b>Sanadi.doc</b>



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112	Does the use of <b>cardiovascular support</b> , including vasopressor and inotropic drugs, in the management of the patient after a cardiac arrest improve cerebral and/or cardiovascular outcome?		Matthias Fischer, MD <b>W112_Fischer.doc</b>
113	Does the use of <b>sedation/paralysis</b> for a specified duration in the management of the patient after a cardiac arrest improve outcome?	Imo P. Aisiku Chris Hogan, MD <b>W113_Aisiku_Hogan.doc</b>	
114	Does the <b>control of arterial CO<sub>2</sub></b> in the management of the patient after a cardiac arrest improve outcome?		Hendrik W. Gervais, MD, PhD <b>W114B_Gervais.doc</b>
115	Does the use of <b>tight blood glucose control</b> in the management of the patient after a cardiac arrest improve outcome?	Mary Ann Peberdy, MD Terry L. Vanden Hoek, MD <b>W115A.Peberdy_vanden Hoek.doc</b>	Jerry Nolan, MD <b>W115B_Nolan.doc</b>
116	Does the use of <b>thrombolytics</b> in the management of the patient following cardiac arrest improve outcome?		Bernd W. Böttiger, MD <b>W116_Boettiger.doc</b>
117	Does the use of <b>anticoagulation</b> in the management of the patient after a cardiac arrest improve outcome?		
118	Does the use of <b>prophylactic anti-arrhythmics</b> in the management of the patient after a cardiac arrest improve outcome?	Steven Kronick, MD, MS <b>W118A.Kronick.doc</b>	Nabil El Sanadi, MD, MBA <b>W118B_El Sanadi.doc</b>
119	Can the rescuer identify the aetiology of the cardiac arrest during the cardiac arrest? (e.g. asphyxia induced cardiac arrest, drug/toxin induced VT/VF [cocaine], drug induced PEA, Hypothermia, Drowning, Trauma, Electrolytes, Anaphylaxis, Asthma, Pulmonary)	Arlo Weltge, MD, MPH <b>W119A.Weltge.doc</b>	Sebastian Russo, MD - Asthma <b>W119B_Russo.doc</b> Jasmeet Soar, MD—Pregnancy <b>W119C_Soar.doc</b>
120	Does the identification of the aetiology during the cardiac arrest allow tailored cardiac arrest management (BLS/ALS)?	Arlo Weltge, MD, MPH <b>W120.Weltge.doc</b>	
121	Does the identification of the aetiology, and tailored cardiac arrest management during the cardiac arrest improve outcome?	Arlo Weltge, MD, MPH <b>W121.Weltge.doc</b>	
122	Can neurological examination, e.g., pupil dilation, allow the rescuer to predict the likely outcome of the cardiac arrest during the cardiac arrest?	Steven Kronick, MD, MS <b>W122A.Kronick.doc</b>	Petter Andreas Steen, MD, PhD <b>W122B_Steen.doc</b>
123	Can any stat laboratory analyses or other investigations allow the rescuer to predict the likely outcome of the cardiac arrest during the cardiac arrest?		
124	Can the use of somatosensory evoked potentials allow the rescuer to predict the likely outcome of the cardiac arrest after the cardiac arrest?	Octavio A. Falcucci, MD <b>W124A.Falcucci.doc</b>	Rien de Vos, MD Albert Hijdra, MD <b>W124B_de Vos.Hijdra.doc</b>

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125	Can the use EEG allow the rescuer to predict the likely outcome of the cardiac arrest after the cardiac arrest?		
126	Can the use of serum analyses allow the rescuer to predict the likely outcome of the cardiac arrest after the cardiac arrest?	Douglas Franzen Gregory Christiansen, DO <b>W126.Franzen_Christiansen.doc</b>	
127	Can the use of CSF analyses allow the rescuer to predict the likely outcome of the cardiac arrest after the cardiac arrest?		
128	Can the use of early warning scoring systems reduce the number of in-hospital cardiac arrests?	Mary Ann Peberdy, MD <b>W128A.Peberdy.doc</b>	Michael Parr, MBBS, MRCP Michelle Cretikos, MBBS, MPH <b>W128B.Parr_Cretikos.doc</b>
129	Does the use of a Medical Emergency Team reduce the number of in-hospital cardiac arrests	Mary Ann Peberdy, MD <b>W129A.Peberdy.doc</b>	Michael Parr, MBBS, MRCP Michelle Cretikos, MBBS, MPH <b>W129B.Parr_Cretikos.doc</b>
130	Does the use of a Medical Emergency Team improve outcome from in-hospital cardiac arrest	Mary Ann Peberdy, MD <b>W130A.Peberdy.doc</b>	Michael Parr, MBBS, MRCP Michelle Cretikos, MBBS, MPH <b>W130B.Parr_Cretikos.doc</b>
131	What modifications are applicable to resuscitation technique for: Hypothermia	Arlo Weltge, MD, MPH <b>W131_Weltge.doc</b>	
132	What modifications are applicable to resuscitation technique for: Drowning	Arlo Weltge, MD, MPH <b>W132_Weltge.doc</b>	
133	What modifications are applicable to resuscitation technique for: Asthma		Jasmeet Soar, MD <b>W133.Soar.doc</b>
134	What modifications are applicable to resuscitation technique for: Pregnancy		Jasmeet Soar, MD <b>W134.Soar.doc</b>
135	What modifications are applicable to resuscitation technique for: Electrocution		Nabil El Sanadi, MD, MBA <b>W135.El Sanadi.doc</b>
136	What modifications are applicable to resuscitation technique for: Anaphylaxis		
137	What is the incidence, prevalence, etiology of cardiopulmonary arrest?	Tom Rea <b>W137_Rea.doc</b>	
138	What are the independent predictors of cardiopulmonary arrest? What are the independent predictors of outcomes after CPA?	Tom Rea <b>W138A_Rea.doc</b> <b>W138B_Rea.doc</b>	
139	What interventions are feasible, safe and effective in individuals at risk of impending CPA (i.e. within 24h)?	N. Clay Mann, PhD, MS <b>W139A_Mann.doc</b> <b>W139B_Mann.doc</b>	Jennifer Dennett <b>W139C.Dennett.doc</b>

Topic no.	Topic	Worksheet author and WS abbreviation	
		AHA author	ILCOR author
140	What are adverse effects for the patient who receives cardiopulmonary resuscitation?	Graham Nichol, MD <b>W140A_Nichol.doc</b>	
141	What are the adverse effects for the responder who performs cardiopulmonary resuscitation (Incl infection control)?	Graham Nichol, MD <b>W141A_Nichol.doc</b> <b>W141B_Nichol.doc</b>	Franklin HG Bridgewater, MD <b>W141C_Bridgewater.doc</b>
142	What is the sensitivity, specificity and clinical impact of signs of need for resuscitation, including agonal respirations, shaking and signs of circulation?	Wanchun Tang, MD <b>W142A_Tang.doc</b>	Ian Jacobs, RN, PhD <b>W142B_Jacobs.doc</b>
143	What is sensitivity and specificity, clinical of signs of need for resuscitation in facedown victim? ... in suspected neck injury	Mike Jacobs, EMT-P <b>W143A_Jacobs.doc</b>	Jeff Wassertheil, MD <b>W143B_Wassertheil.doc</b>
144	(For above, consider any differences in S, E and F according age of victim and availability of responders?)		
145	(For above consider aetiology e.g. trauma, drowning, intoxication, arrhythmia, respiratory arrest		
146	What is the feasibility, safety and effectiveness of repositioning a victim?	Lei Huang Wanchun Tang, MD <b>W146A_Huang_Tang.doc</b>	Tony Walker <b>W146B_Walker.doc</b>
147	What is the sensitivity, specificity and clinical impact of interruption of CPR to check circulation?	Ting Yu, MD Wanchun Tang, MD <b>W147A_Yu_Tang.doc</b>	Jeff Wassertheil, MD <b>W147B_Wassertheil.doc</b>
148	What is the safety, effectiveness and feasibility of improving response time?	Lynn J. White, MS <b>W148A_White.doc</b>	
149	Which methods for opening the airway, are feasible, safe and effective?		Gavin Perkins, MD <b>W149_Perkins.doc</b>
150	What interventions are safe effective and feasible when performing CPR in victims with suspected cervical spine injury? For above, consider over the head position for CPR? ... body position of victim? Body positions of responder?	Edward Crosby, MD <b>W150A_Crosbie.doc</b>	Gavin Perkins, MD <b>W150B_Perkins.doc</b>
151	Are methods for removal of FBAO feasible, safe and effective? For above, consider chest compression/finger sweep or alternatives For above, consider Heimlich, chest thrust? Consider responsive and unresponsive victim? Consider obese, pregnant?	Thomas A. Barnes, EdD, RRT <b>W151A_Barnes.doc</b>	Gavin Perkins, MD <b>W151B_Perkins.doc</b>
152	Are mechanical ventilators used by basic-trained rescuers (first responders) and professional health care providers safe and effective for ventilating unintubated adult patients during cardiac arrest	Thomas A. Barnes, EdD, RRT Richard Branson <b>W152A_Barnes_Branson.doc</b>	
153	Are devices/adjuncts for airway positioning, ventilation feasible, safe and effective?		
154	Which compression-ventilation ratio is feasible, safe and effective for which etiology, condition and age-group?	Andrea Gabrielli, MD Peter Fenici, MD <b>W154_Gabrielli_Fenici.doc</b>	

Topic no.	Topic	Worksheet author and WS abbreviation	
		AHA author	ILCOR author
155	What recovery positions are feasible, safe and effective?		Anthony J. Handley, MD E. Brooke Lerner, PhD <b>W155.Handley_Lerner.doc</b>
156	Which tidal volume and ventilation rate are feasible, safe and effective using MMV/BVM/with or without O <sub>2</sub> for which aetiology, condition, and age-group?	Andrea Gabrielli, MD E. Brooke Lerner, PhD <b>W156A.Gabrielli.Lerner.doc</b>	
157	Is MNV safe, effective and feasible compared to MMV?	E. Brooke Lerner, PhD <b>W157A.Lerner.doc</b>	Benno Wolcke, MD <b>W157B.Wolcke.doc</b>
158	Which methods of ventilation are feasible, safe and effective in MSV?	E. Brooke Lerner, PhD <b>W158A.Lerner.doc</b>	Benno Wolcke, MD <b>W158B.Wolcke.doc</b>
159	What is the safety, effectiveness and feasibility of protective devices to protect a rescuer while performing CPR? Incl barrier devices	Andrea Gabrielli, MD E. Brooke Lerner, PhD <b>W159A.Gabrielli.Lerner.doc</b>	Benno Wolcke, MD <b>W159B.Wolcke.doc</b>
160	What is the safety, effectiveness, and feasibility of performing CPR on a near drowning victim in the water? (consider C-spine injury, VF, call first/call fast)	Jane G. Wigginton, MD Ahamed H. Idris, MD David Szpilman, MD <b>W160A.Wigginton.Idris_Szpilman.doc</b> <b>W160B.Wigginton.Idris_Szpilman.doc</b>	
161	What is the safest most feasible and effective intervention for removing a near drowning victim from the water?	Jane G. Wigginton, MD Ahamed H. Idris, MD David Szpilman, MD <b>W161.Wigginton.Idris_Szpilman.doc</b>	
162	What interventions are safe, effective and feasible for immersion, exposure, or accidental hypothermia? Consider active rewarming	Benjamin S. Abella, MD, MPhil <b>W162A.Abella.doc</b>	
163	What CPR devices are safe, effective and feasible? (limited to circulation: chest compressors, boards to be placed under neck? are there simple first line devices for diagnosing circulatory arrest?)	Jane G. Wigginton, MD <b>W163A.Wigginton.doc</b> <b>W163B.Wigginton.doc</b> <b>W163C.Wigginton.doc</b> <b>W163D.Wigginton.doc</b> <b>W163E.Wigginton.doc</b> <b>W163F.Wigginton.doc</b> <b>W163G.Wigginton.doc</b> <b>W163H.Wigginton.doc</b> <b>W163I.Wigginton.doc</b> <b>W163J.Wigginton.doc</b>	
164	Is compression only CPR safe, effective and feasible? When should ventilation begin?	Vincent N Mosesso, Jr, MD E. Brooke Lerner, PhD <b>W164A.Mosesso.Lerner.doc</b>	Rudolph W. Koster, MD, PhD <b>W164B.Koster.doc</b>
165	Is dispatcher-assisted CPR safe, effective and feasible?	Lynn Roppolo, MD Ahamed H. Idris, MD <b>W165.Roppolo.Idris.doc</b>	

Topic no.	Topic	Worksheet author and WS abbreviation	
		AHA author	ILCOR author
166	Alternative methods of CPR including cough CPR and precordial thump	Ahamed H. Idris, MD <b>W166A.Idris.doc</b> <b>W166B.Idris.doc</b> <b>W166C.Idris.doc</b> <b>W166D.Idris.doc</b>	
167	What hand position/depth of chest compression is safe, effective and feasible?	Andrea Gabrielli, MD Peter Fenici, MD <b>W167A.Gabrielli_Fenici.doc</b> <b>W167B.Gabrielli_Fenici.doc</b>	Rudolph W. Koster, MD, PhD <b>W167C_Koster.doc</b>
168	What compression-decompression method is safe, effective and feasible?	Jane G. Wigginton, MD <b>W168.Wigginton.doc</b>	
169	Are rectilinear first-phase biphasic waveform shocks with escalation to 200J or non-escalating 150-200J biphasic shocks safer, more effective, and feasible?		
170	Are rectilinear first-phase biphasic waveform shocks with escalation to 200J or 200-360J escalating energy biphasic shocks safer, more effective and feasible?		
171	Escalating-energy biphasic waveform shocks delivering energy in the range of 200-360J are safer, more effective, and more feasible than are non-escalating-energy biphasic waveforms delivering 200J or less	Karl B. Kern, MD Ian G. Stiell, MD <b>W171.Kern_Stiell.doc</b>	
172	Biphasic waveforms for use in transthoracic defibrillation of VF cardiac arrest are more efficacious (higher rates of VF termination, ROSC, and survival) as well as safer (fewer adverse effects) than monophasic waveforms	Karl B. Kern, MD Colin Robertson, MD <b>W172.Kern.Robertson.doc</b>	
173	What pad position is safe, effective and feasible for AED use?	Vincent N Mosesso, Jr, MD <b>W173A.Mosesso.doc</b>	
174	What is the safety, effectiveness and feasibility of AED programmes?	Keith Lurie, MD Rudolph W. Koster, MD, PhD <b>W174.Lurie.Koster.doc</b>	
175	(For above, consider defibrillation by EMS, first responder, public access, home use, wearable cardioverter defibrillators)	Keith Lurie, MD Rudolph W. Koster, MD, PhD <b>W175.Lurie.Koster.doc</b>	
176	What algorithms should be recommended for AED users? One shock or three?		
177	Is CPR before defibrillation safe, effective and feasible?	Vincent N Mosesso, Jr, MD Edison Ferreira de Paiva, MD Raúl J. Gazmuri, MD, PhD Leo Bossaert, MD, PhD <b>W177.Gazmuri_Mosesso_de Paiva_Bossaert.doc</b>	
178	What quality assurance is appropriate for AED users? Does the collection of data from the AED affect quality control and education?	Vincent N Mosesso, Jr, MD <b>W178.Mosesso.doc</b>	

Topic no.	Topic	Worksheet author and WS abbreviation	
		AHA author	ILCOR author
179	What is the impact of 'advanced directives', 'living wills' and 'do not resuscitate orders' in directing resuscitative efforts?	Deems Okamoto, MD <b>W179A_Okamoto.doc</b> <b>W179B_Okamoto.doc</b> Terri Schmidt, MD, MS Kenneth V. Iserson, MD, MBA <b>W179C_Schmidt_Iserson.doc</b>	
180	Should family members be present during resuscitation?	Douglas S. Diekema, MD, MPH <b>W180A_Diekema.doc</b>	Dominique Biarent <b>W180B_Biarent.doc</b>
181	Ethical issues in paediatric resuscitation		
182	What are the outcomes associated with resuscitation after CPA (incl health-related quality of life)	David Rodgers, EdS, NREMT-P <b>W182A_Rodgers.doc</b>	Dr Judith Finn, PhD, RN <b>W182B_Finn.doc</b>
183	What is the cost-effectiveness of lay-responder training in CPR?	Peter Cram, MD, MBA <b>W183_Cram.doc</b>	
184	Are people who are trained in CPR willing to perform it? (Chest compression only)	Judy Young, RN, MSN, Lt Col, USAF (Ret) <b>W184A_Young.doc</b>	Jennifer Dennett <b>W184B_Dennet.doc</b>
185	What instructional methods are most effective in BLS skill acquisition and retention at 6 months? - traditional lecture/practice session - interactive computer programmes - video self-instruction	David Rodgers, EdS, NREMT-P <b>W185A_Rodgers.doc</b>	Ana Paula Quilici Marcello Ricardo Paulista Markus, PhD <b>W185B_Quilici_Markus.doc</b>
186	How frequently are ACLS/BLS re-training/update sessions required in order to maintain skills in a) laypersons and b) health professionals?		Jennifer Dennett <b>W186A_Dennett.doc</b> Anthony J. Handley, MD <b>W186B_Handley.doc</b>
187	Does the use of audio/visual CPR performance aids during training improve the acquisition of CPR psychomotor skills?		
188	Does a written test score reflect BLS skill competence?	Cheryl Hamel, PhD <b>W188A_Hamel.doc</b>	Jeff Wassertheil, MD <b>W188B_Wassertheil.doc</b>
189	What instructional methods are most effective for teaching hand position in external cardiac compression		Dr Judith Finn, PhD, RN <b>W189_Finn.doc</b>
190	What CPR prompt devices are safe, effective and feasible?	David Rodgers, EdS, NREMT-P <b>W190A_Rodgers.doc</b> Jane G. Wigginton, MD <b>W190B_Wigginton.doc</b>	
191	What instructional methods are most effective in training and skill-retention in AED use?	Judy Young, RN, MSN, Lt Col, USAF (Ret) <b>W191A_Young.doc</b>	Antonio Celenza <b>W191B_Celenza.doc</b>
192	What is the Effectiveness of CPR Self-Instruction to Train Lay Rescuers in the Community		Antonio Celenza <b>W192_Celenza.doc</b>
193	Do community-wide media campaigns decrease patient delay in response to chest pain?	Charles Mount, MEd, Capt, USN (Ret) Sharon Coleman, RN, MSN, CNS <b>W193A_Mount.Coleman.doc</b>	Dr Judith Finn, PhD, RN <b>W193B_Finn.doc</b>

Topic no.	Topic	Worksheet author and WS abbreviation	
		AHA author	ILCOR author
194	Does the chain of survival result in improved outcomes from cardiac arrest, in and out of hospital?		Ian Jacobs, RN, PhD <b>W194.Jacobs.doc</b>
195	Does the use of Medical Emergency Team reduce the number (and outcome) of in-hospital cardiac arrest?	Mary Ann Peberdy, MD <b>W195A.Peberdy.doc</b> Elise W. van der Jagt, MD, MPH <b>W195B.van der Jagt.doc</b>	Michelle Cretikos, MBBS, MPH Michael Parr, MBBS, MRCP <b>W195C.Cretikos.Parr.doc</b> <b>W195D.Cretikos.Parr.doc</b> <b>W195E.Cretikos.Parr.doc</b>
196	What is the risk of infection or other adverse event during CPR training		Franklin HG Bridgewater, MD <b>W196.Bridgewater.doc</b>
197	Sodium bicarbonate for hyperkalemia, hypermagnesemia, tricyclic antidepressant overdose, or overdose from other sodium channel blocking agents (from PEDs)	Douglas S. Diekema, MD, MPH <b>W197A.Diekema.doc</b> <b>W197B.Diekema.doc</b> <b>W197C.Diekema.doc</b>	James Tibballs, MD <b>W197D.Tibballs.doc</b> <b>W197E.Tibballs.doc</b>
198	Calcium for hypocalcemia, hyperkalemia, hypermagnesemia and calcium channel blocker overdose Resolve discrepancy between adult and pediatric dose (from PEDs)	Anthony J. Scalzo, MD <b>W198.Scalzo.doc</b>	
199	What interventions are safe, effective and feasible for treatment of anaphylaxis and severe allergic reactions by BLS providers?	Ron Roth, MD David C. Cone, MD <b>W199.Roth.Cone.doc</b>	
200	Sodium bicarbonate infusion during DR resuscitation	Jeffrey Perlman, MB, Ch B <b>W200.Perlman.doc</b>	
201	Hyperthermia in the DR	Jeffrey Perlman, MB, Ch B <b>W201.Perlman.doc</b>	
202	Room Air/O <sub>2</sub>	Jay P. Goldsmith, MD <b>W202A.Goldsmith.doc</b>	Sam Richmond, MD <b>W202B.Richmond.doc</b>
203	Initial Ventilation strategies during DR resuscitation	David Boyle, MD <b>W203A.Boyle.doc</b>	Edgardo Szyld, MD <b>W203B.Szyld.doc</b> Ben J. Stenson, MD <b>W203C.Stenson.doc</b>
204	The use of CPAP during DR resuscitation	Louis P. Halamek, MD <b>W204A.Halamek.doc</b>	Colin Morley, MD <b>W204B.Morley.doc</b>
205	Meconium – Oro-pharyngeal suctioning at theperineum with meconium staining		
206	ET suctioning of meconium post-delivery		Sithembiso Velaphi, MB <b>W206.Velaphi.doc</b>
207	Amnioinfusion during labor to reduce Meconium Aspiration Syndrome	Dharmapuri Vidyasagar <b>W207A.Vidyasagar.doc</b> Sithembiso Velaphi, MB <b>W207B.Velaphi.doc</b>	
208	Crystalloid/Albumin Infusions during DR resuscitation	Susan Niermeyer, MD <b>W208.Niermeyer.doc</b>	
209	Delivery room ethics—emphasis on the initiation and discontinuation of resuscitation	Jay P. Goldsmith, MD <b>W209A.Goldsmith.doc</b>	Steve Byrne <b>W209B.Byrne.doc</b>

Topic no.	Topic	Worksheet author and WS abbreviation	
		AHA author	ILCOR author
210	Maintaining temperature in the delivery room with specific emphasis on the preterm infant	Marilyn B Escobedo, MD <b>W210A_Escobedo.doc</b>	Mike Watkinson, MD <b>W210B_Watkinson.doc</b>
211	Hypothermia as a neuroprotective therapy	Michael Speer, MD <b>W211A_Speer.doc</b> Jeffrey Perlman, MB, Ch B <b>W211B_Perlman.doc</b>	
212	CO <sub>2</sub> detectors to verify ET placement	Wally Carlo, MD <b>W212A_Carlo.doc</b>	Jonathan Wyllie, MD <b>W212B_Wyllie.doc</b>
213	Administration of endotracheal medications	Myra H. Wyckoff, MD <b>W213A_Wyckoff.doc</b>	Jonathan Wyllie, MD <b>W213B_Wyllie.doc</b>
214	Naloxone administration in the DR	Myra H. Wyckoff, MD <b>W214A_Wyckoff.doc</b>	Ruth Guinsburg <b>W214B_Guinsburg.doc</b>
215	Laryngeal Mask Airway to establish airway patency during neonatal resuscitation	Gary Weiner, MD <b>W215A_Weiner.doc</b>	Enrique Udaeta, MD <b>W215B_Udaeta.doc</b>
216	Placental transfusion	Susan Niermeyer, MD <b>W216A_Niermeyer.doc</b>	Nalini Singhal <b>W216B_Singhal.doc</b>
217	Interosseous Infusion of medications		William A. Engle, MD <b>W217_Engle.doc</b>
218	Glucose post Resuscitation	Jeffrey Perlman, MB, Ch B <b>W218A_Perlman.doc</b> Jane E. McGowan, MD <b>W218B_McGowan.doc</b>	
219	Glucose homeostasis during DR resuscitation	Jeffrey Perlman, MB, Ch B <b>W219A_Perlman.doc</b> Jane E. McGowan, MD <b>W219B_McGowan.doc</b>	
220	Intravenous High Dose Epinephrine during DR resuscitation	Jeffrey Perlman, MB, Ch B <b>W220_Perlman.doc</b>	
221	What is the sensitivity, specificity and clinical impact on signs and symptoms in prehospital and emergency department management of ACS and AMI?	David Lendrum, MD <b>W221A_Lendrum.doc</b>	Andrzej Okreglicki, MD <b>W221B_Okreglicki.doc</b>
222	What is the sensitivity, specificity and clinical impact on protein markers in the prehospital and emergency department management of ACS and AMI?	Bjug Borgundvaag MD, PhD <b>W222A_Borgundvaag.doc</b>	Brian Steinhart <b>W222B_Steinhart.doc</b>
223	What is the sensitivity, specificity and clinical impact of prehospital and emergency department 12 lead ECG interpretation on the prehospital and emergency department management of ACS AMI?		
224	What is the safety, efficacy and feasibility of Oxygen vs. Room Air in prehospital and emergency department management of ACS and AMI?	Dave Hostler, PhD, NREMT-P <b>W224_Hostler.doc</b>	
225	What is the safety, efficacy and feasibility of ASA in prehospital and emergency department ACS and AMI?	Ivy Cheng <b>W225A_Cheng.doc</b>	Bjug Borgundvaag MD, PhD <b>W225B_Borgundvaag.doc</b>



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		AHA author	ILCOR author
226	What is the safety, efficacy and feasibility of Heparin UF vs. LMW in prehospital and emergency department management of ACS and AMI?	Jane Lukins, MD <b>W226A_Lukins.doc</b>	
227	What is the safety, efficacy and feasibility of Fibrinolytics in prehospital and emergency department management of ACS and AMI?	Monica Gope <b>W227A_Gope.doc</b> <b>W227B_Gope.doc</b>	
228	What is the safety, efficacy and feasibility of Clopidigrel in prehospital and emergency department management of ACS and AMI?	Nicole Tenn-Lyn, MD <b>W228A_Tenn-Lyn.doc</b>	
229	What is the safety, efficacy and feasibility of IIB IIIA Inhibitors in prehospital and emergency department management of ACS and AMI?		
230	What is the safety, efficacy and feasibility of Prophylactic Antiarrhythmics in prehospital and emergency department management of ACS and AMI?	Dan Cass <b>W230_Cass.doc</b>	
231	What is the safety, efficacy and feasibility of ACE Inhibitors in prehospital and emergency department management of ACS and AMI?	Uwe Zeymer, Priv. Doz. Dr. med. <b>W231_Zeymer.doc</b>	
232	What is the safety, efficacy and feasibility of Beta Blockers in prehospital and emergency department management of ACS and AMI?	Jonathan Sherbino, MD <b>W232_Sherbino.doc</b>	
233	What is the safety, efficacy and feasibility of Statins in prehospital and emergency department management of ACS and AMI?		Hans-Richard Arntz, MD, PhD <b>W233_Arntz.doc</b>
234	What is the safety, efficacy and feasibility of PTCA vs. fibrinolytics in prehospital and emergency department management of ACS and AMI?	Russell D. MacDonald, MD <b>W234A_MacDonald.doc</b>	Hans-Richard Arntz, MD, PhD <b>W234B_Arntz.doc</b>
235	What is the safety, efficacy and feasibility of PH ECG and ED advance notification vs. standard EMS care or vs. PH fibrinolytics in prehospital and emergency department management of ACS and AMI?	Dave Hostler, PhD, NREMT-P <b>W235A_Hostler.doc</b>	Steven Brooks, MD <b>W235B_Brooks.doc</b>
236	What is the safety, efficacy and feasibility of PH bypass for PTCA in prehospital and emergency department management of ACS and AMI?	Michelle Welsford, MD <b>W236A_Welsford.doc</b>	Cathal O'Donnell <b>W236B_O'Donnell.doc</b>
237	What is the safety, efficacy and feasibility of Community lytics combined with immediate transfer for PTCA vs. delayed transfer for PTCA (standard care) in prehospital and emergency department management of ACS and AMI?	Warren J. Cantor <b>W237A_Cantor.doc</b>	Fabrice Brunet, MD <b>W237B_Brunet.doc</b>
238	What is the sensitivity, specificity and clinical impact of prehospital stroke scales?	E. Brooke Lerner, PhD <b>W238_Lerner.doc</b>	
239	What is the safety, effectiveness and feasibility of "stroke centers"? (Are there items shown to be effective in stroke care in the first hours of stroke)	Michael R. Sayre, MD <b>W239_Sayre.doc</b>	

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240	What is the safety, effectiveness and feasibility of prehospital personnel triage of potential stroke patients to specific stroke hospitals?	Todd Crocco, MD <b>W240A_Crocco.doc</b>	
241	What is the safety, effectiveness and feasibility of supplemental oxygen in acute stroke?	Jeffrey L. Saver, MD Werner Hacke, MD, PhD Simone Wagner, MD <b>W241_Saver_Hacke_Wagner.doc</b>	
242	What is the safety, effectiveness and feasibility of blood pressure management in acute ischemic and hemorrhagic stroke?		
243	What is the safety, effectiveness and feasibility of hypothermia for acute stroke?	Edward C. Jauch, MD, MS <b>W243A_Jauch.doc</b> Andy Jagoda <b>W243B_Jagoda.doc</b>	
244	What is the safety, effectiveness and feasibility of glucose management in acute ischemic stroke?	Michael R. Sayre, MD <b>W244A_Sayre.doc</b>	
245	What is the safety, effectiveness and feasibility of intravenous rt-PA in acute ischemic stroke?	Todd Crocco, MD <b>W245_Crocco.doc</b>	
246	What is the safety, effectiveness and feasibility of intra-arterial thrombolysis in acute ischemic stroke?	Brian A. Stettler, MD <b>W246_Stettler.doc</b>	
247	What is the safety, efficacy, and feasibility of cooling in the first aid management of a thermal cutaneous burn?	Adam J. Singer, MD <b>W247_Singer.doc</b>	Andrew DePiero, MD Debra G. Perina, MD
248	What is the most appropriate first aid of the burn blister?	Debra G. Perina, MD <b>W248_Perina.doc</b>	Adam J. Singer, MD
249	What is the safety, efficacy, and feasibility of charcoal in an oral poisoning?	Christopher P. Holstege, MD <b>W249_Holstege.doc</b>	Ryan C. Fringer, MD Edward Sargeant
250	What is the safety, efficacy, and feasibility of syrup of ipecac in the first aid management of a toxic ingestion (oral poisoning)?	Ryan C. Fringer, MD <b>W250_Fringer.doc</b>	
251	What is the safety, efficacy, and feasibility of dilution with water or milk or taking nothing by mouth?	David Markenson, MD <b>W251_Markenson.doc</b>	Ryan C. Fringer, MD
252	What is the safety and feasibility of <i>assisting</i> the victim in the administration of the victim's own self-administered epinephrine (adrenaline) in first aid management of a <i>severe</i> allergic reaction?	Jonathan L. Epstein, MEMS, NREMT-P <b>W252_Epstein.doc</b>	Jeff Wassertheil, MD William Brady, MD
253	What is the safety and feasibility of <i>assisting</i> the victim in the administration of the victim's own self-administered albuterol in first aid management of a <i>breathing difficulty</i> in the asthmatic patient?	David Markenson, MD <b>W253_Markenson.doc</b>	Susan F. Wooley, PhD
254	What is the safety, efficacy, and feasibility of direct pressure, pressure points and elevation in the first aid management of a hemorrhage?	Leon Chameides, MD <b>W254_Chameides.doc</b>	Richard Bissell, PhD

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		AHA author	ILCOR author
255	What is the safety, efficacy, and feasibility of the tourniquet in the first aid management of a hemorrhage?	Leon Chameides, MD <b>W255.Chameides.doc</b>	Sherri-Lynne Almeida, DrPH Ralph M. Shenefelt
256	What is the safety, efficacy, and feasibility of spinal immobilization in the first aid management of a suspected spinal injury?	Bill Raynovich, EMSA <b>W256.Raynovich.doc</b>	William Brady, MD James A. Judge II, CEM, BPA, EMT-P
257	Under what conditions should the lay rescuer suspect spinal injury?	William Brady, MD <b>W257.Brady.doc</b>	Bill Raynovich, EMSA Jonathan L. Epstein, MEMS, NREMT-P
258	What is the safety, efficacy, and feasibility of irrigation in the first aid management of a toxic exposure to the skin and/or eye?	James A. Judge II, CEM, BPA, EMT-P <b>W258.Judge.doc</b>	Christopher P. Holstege, MD
259	What is the safety, efficacy, and feasibility of treatment of an eye injury by a first aider?	Cartland Burns, MD <b>W259.Burns.doc</b>	Donald J. Gordon, PhD, MD
260	What is the safety, efficacy, and feasibility of stabilization in the first aid management of an injured (suspected fracture) extremity?	William Hammill, MD <b>W260.Hammill.doc</b>	Richard Bissell, PhD
261	What is the safety, efficacy, and feasibility of compression in the first aid management of an injured extremity joint?	Rita Ann Herrington <b>W261.Herrington.doc</b>	Ryan C. Fringer, MD Rick Caissie
262	What is the safety, efficacy, and feasibility of cooling in the first aid management of an injured extremity joint?	Thomas W. Zoch, MD <b>W262.Zoch.doc</b>	
263	What is the safety, efficacy, and feasibility of psychological first aid (may also need to define psychological first aid)?		
264	What is the safety, efficacy, and feasibility of oxygen administration in the first aid management of the dyspneic patient?	James A. Judge II, CEM, BPA, EMT-P <b>W264.Judge.doc</b>	Bill Clendenen, MBA James A. Judge II, CEM, BPA, EMT-P
265	What is the most appropriate first aid management of the cutaneous abrasion including safety, efficacy, and feasibility of antibiotic ointment?	Mary Fry Davis, RN <b>W265.Davis.doc</b>	Ricky Davidson, MD Carol Spizzirri
266	What is the most appropriate first aid management of the cutaneous abrasion including safety, efficacy, and feasibility of tap water?	Mary Fry Davis, RN Carol Spizzirri <b>W266.Davis.Spizzirri.doc</b>	Ricky Davidson, MD
267	What is the safety, efficacy, and feasibility of body-part rewarming in the first aid management of a localized cold injury?	David Markenson, MD <b>W267.Markenson.doc</b>	Arthur Cooper, MD, MS Rick Caissie Rick Murray, EMT-P
268	What are the risk factors for possible spinal injury that can be used by the lay rescuer?	Arthur Cooper, MD, MS <b>W268.Cooper.doc</b>	
269	What is the incidence of spinal injury?	Arthur Cooper, MD, MS <b>W269.Cooper.doc</b>	
270	What is the safety, efficacy and feasibility of compressive wrapping for coral snake (elapid) envenomation?	Naomi Gauthier, MD Stephen H. Thomas, MD, MPH <b>W270.Gauthier.Thomas.doc</b>	Donald J. Gordon, PhD, MD
271	What is the safety, efficacy and feasibility of incision-mediated wound suctioning for pit viper envenomation?	Christopher P. Holstege, MD <b>W271.Holstege.doc</b>	

Topic no.	Topic	Worksheet author and WS abbreviation	
		AHA author	ILCOR author
272	What is the best first aid treatment for burns wet or dry dressings?		
273	What is the safety, efficacy, and feasibility of straightening angulated long bone fractures?	Michael Bosse, MD <b>W273_Bosse.doc</b>	Rick Murray, EMT-P
274	What is the safety, efficacy, and feasibility of the left lateral recumbent position or the recovery position?	David Markenson, MD <b>W274_Markenson.doc</b>	
275	Is it safe, feasible and effective to place the avulsed tooth in milk until definitive therapy can be provided	David Markenson, MD <b>W275_Markenson.doc</b>	
277	<b>Blank worksheet</b>	<b>W277</b>	