

- Federico Fiorenzo Semeraro



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Sex Maschio | Date of Birth 28/04/1973 | Nazionalità Italian

POSITION

CONSULTANT IN ANAESTHESIA AND INTENSIVE CARE AT MAGGIORE HOSPITAL
ILCOR SOCIAL MEDIA WORKING GROUP CHAIR AND BLS TAK FORCE MEMBER
CHAIR-ELECT EUROPEANAN RESUSCITATION COUNCIL

WORK EXPERIENCE

From 2002 until now

Consultant in Anaesthesia and Intensive Care

AUSL Bologna – Maggiore Hospital, Department Anaesthesia and Intensive Care, Bologna, Italy
(<http://www.ausl.bologna.it>)

Consultant in Anaesthesia and Intensive Care, In-hospital Emergency Team Leader, Cardiac Arrest In-hospital Team Leader, Cardiac Arrest Ethics Consultant, Cardiac Arrest-Database and Anaesthesia and Intensive Care Intranet Area Consultant.

From 2019 to now

Chair-Elect European Resuscitation Council

European Resuscitation Council – Niel, Belgium (www.erc.edu)

The European Resuscitation Council it is a no profit scientific society and exists to promote high-quality, scientific, resuscitation guidelines that are applicable to everybody, and to contribute to saving life through education, training, research and collaboration. Since 1989, the European Resuscitation Council (ERC) has provided the standard for resuscitation guidelines and training in Europe and beyond.

From 2015 to 2017

President Italian Resuscitation Council

Italian Resuscitation Council – Bologna, Italy (www.ircouncil.it)

The Italian Resuscitation Council it is a no profit scientific society and exists to promote high-quality, scientific, resuscitation guidelines that are applicable to everybody, and to contribute to saving life through education, training, research and collaboration.

From 2017 to 2019

Past- President Italian Resuscitation Council

Italian Resuscitation Council – Bologna, Italy (www.ircouncil.it)

The Italian Resuscitation Council it is a no profit scientific society and exists to promote high-quality, scientific, resuscitation guidelines that are applicable to everybody, and to contribute to saving life through education, training, research and collaboration.

From March 2011 to Sept 2011

Research Fellow in Anaesthesia and Intensive Care

Heartlands Hospital, Heart of England NHS, Birmingham, UK (<http://www.heartofengland.nhs.uk>)
Research Fellow Intensive Care.

EDUCATION AND TRAINING

From Nov 1998 to Oct 2002

Specialty in Anaesthesia and Intensive Care

Specialization in Anaesthesia and Intensive Care, University of Rome "La Sapienza", Rome, Italy

Vote: 70/70 cum lode. Thesis title: "Analisi della ritenzione di conoscenze e capacità operative dopo addestramento in Advanced Life Support (ALS) ed in relazione all'esperienza professionale". Prof. Erga Laura Cerchiari

From Oct 1992 to October 1998

Medical Degree

Medical Doctor, University of Rome "La Sapienza", Rome, Italy

Vote: 110/110 cum laude Thesis title: "Cinetica della digossina nei pazienti in insufficienza renale acuta in emodiafiltrazione veno-venosa continua (CVVHD)". Prof. Luciano Signore

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2

Communication skills

- Good communication skills gained through my experience as CPR educator/facilitator/instructor and as a team leader in managing in-hospital emergencies and out-of-hospital/in-hospital cardiac arrest.

Organisational/managerial skills

- I am an expert in team management: team leader of a rapid response team during an out-of-hospital and in-hospital emergency and cardiac arrest. I had good technical abilities to manage complex situations, give quick responses, and very often under pressure. I feel comfortable with stressful situations, and I gained experience over the last 20 years in managing complex and dangerous situations.
- I am also an expert in team management as a Director and Educator during training medical courses: management of instructors and large teams during Advanced Life Support Courses and management of difficult candidates during training courses.
- Finally, I am an expert as a Project Coordinator during research projects. As a researcher, I have achieved several tasks, and I can coordinate and develop a project, with the ability to involve and motivate co-workers and organise the required interventions.

Job-related skills

- I have often managed conflict situations during an in-hospital emergency (clinical/ethical problems), and I have frequently used "crisis resource management techniques" with the use of a non-technical skill approach.
- I believe in teamwork, and I strongly believe that it is better to train all teams instead of single team members. During the last 20 years, I have managed, as an Educator, difficult candidates during training courses, and I have improved communication strategies helpful in solving conflicts.

Award and prizes

DigiT@lia for talent - Special Mention Best Communication: Mini-VREM October 2012 by Accenture.

Future Health Award 2012 Mini-VREM June 2013 - Games for Health Europe and CZ (Grant 200.00 euro) for development of no-profit serious games. Relive project.

Best Paper European Resuscitation Council 2014 for "Increased rate of bystander-initiated CPR during the initial 3 months after completion of the week of cardiac arrest awareness "Viva! in two Italian cities. Ristagno G, Semeraro F, Scapigliati A, Gordini G, Comploi M, Picoco M, Iarussi B, Grieco N. Resuscitation, 2014 May; Vol. 85.

Viva! CPR app for Viva! Campaign eContent Award Italy December 2014.

Fellowship European Resuscitation Council (<https://www.erc.edu/about/fellows>).

Computer skills

- Good command of Microsoft Office tools, good command of file sharing tools, social network platforms (YouTube, Facebook, Twitter, Word press, etc.), audio and video editing (Premiere Elements, Power Director, Pinnacle Studio), Skype, Go To Meeting and Survey Methods;
- Good command of clinical database collection (design and development), CPR training course (design and development), e-learning course management (design and development);
- Good command of smartphone applications and serious games (design and development).

Projects

- Second Life Italian Resuscitation Council Virtual island, 2008. Scientific supervisio: Federico Semeraro.
- VREM (Virtual reality enhanced mannequin) 2009. Scientific Supervisor: Federico Semeraro.
- "iCPR for iPod and iPhone: published on Apple Store, 2009. Scientific Advisor and Project Manager: Federico Semeraro.
- Mini-VREM project, 2011. Project Coordinator: Federico Semeraro.
- Viva! CPR and Viva! Game, 2013. Project Coordinator Italian Resuscitation Council: Federico Semeraro
- Relive project, 2014. Project Coordinator: Federico Semeraro (<https://www.ircouncil.it/progetti/relive>)
- RIAC (Registro Italiani Arresti Cardiaci) Italian Resuscitation Council, 2014. Member Scientific Committee: Federico Semeraro.
- EuReCa One 2014. National Coordinator Italia.
- EuReCa Two 2017. National Coordinator Italia.
- EuReCa Three 2022. National Coordinator Italia.
- AMSA Trial (<https://clinicaltrials.gov/ct2/show/NCT03237910>)
- Virtual Reality CPR Project Coordinator: Federico Semeraro (<https://www.ircouncil.it/progetti/vr-cpr>)
- Systems Saving Lives - Long-term Survival of Out-of-hospital Cardiac Arrest in the Urban Area of Bologna (SSL) (<https://clinicaltrials.gov/ct2/show/NCT04510480>)
- Kids Save Lives: how to save a life (<https://www.118er.it/ksl>).

Other skills

- Play piano, clarinet, electric guitar, bass guitar and saxophone;
- Video and audio editing and cam digital recording;
- Swimming and dancing.

Driving licence

B

Publications

1. Retention of CPR performance in anaesthetists. Semeraro F, Signore L, Cerchiar EL. Resuscitation. 2006 Jan;68(1):101-8.
2. Second life: A non-conventional way to teach. Semeraro F, Carloni A, Barelli A, Scapigliati A, Gianolio M. Resuscitation May 2008 (Vol. 77, Page S21)
3. Virtual reality enhanced mannequin (VREM) that is well received by resuscitation experts. Semeraro F, Frisoli A, Bergamasco M, Cerchiar EL. Resuscitation. 2009 Apr;80(4):489-92.
4. iCPR: A new application of high-quality cardiopulmonary resuscitation training. Semeraro F, Taggi F, Tammara G, Imbriaco G, Marchetti L, Cerchiar EL. Resuscitation. 2011 Jan 10.
5. A new Kinect-based system for the analysis of performances in cardiopulmonary resuscitation (CPR) training. Semeraro F, Frisoli A, Loconsole C, Bannò F, Tammara G, Imbriaco G, Marchetti L, Cerchiar EL. Resuscitation Oct 2012, Vol. 83, e20

6. Motion detection technology as a tool for cardiopulmonary resuscitation (CPR) quality improvement. Semeraro F, Marchetti L, Frisoli A, Cerchiari EL, Perkins GD. *Resuscitation*. 2012 Jan;83(1)
7. Motion detection technology as a tool for cardiopulmonary resuscitation (CPR) quality training: a randomised crossover mannequin pilot study. Semeraro F, Frisoli A, Loconsole C, Bannò F, Tammaro G, Imbriaco G, Marchetti L, Cerchiari EL. *Resuscitation*. 2013 Apr; 84(4):501-7.
8. Social networks as a tool to promote the week of cardiac arrest awareness "Viva!" in Italy. Cerchiari EL, Grieco N, Pellis T, Ristagno G, Scapigliati A, Semeraro F. *Resuscitation* Apr 2013, Vol. 84, Issue 8, e85–e86
9. Public CPR training event during Italian Resuscitation Council annual Congress: Warm-up for the "Viva!" week of cardiac arrest awareness in Italy. Semeraro F, Casula C, Grieco N, Pellis T, Refatti F, Ristagno G, Scapigliati A, Zanin L. *Resuscitation*, 2013 Oct; Vol. 84, S70–S71
10. Increased rate of bystander-initiated CPR during the initial 3 months after completion of the week of cardiac arrest awareness "Viva!" in two Italian cities. Ristagno G, Semeraro F, Scapigliati A, Gordini G, Comploi M, Picoco M, Iarussi B, Grieco N. *Resuscitation*, 2014 May; Vol. 85, S2–S3
11. Relive: a serious game to learn how to save lives. Semeraro F, Frisoli A, Ristagno G, Loconsole C, Marchetti L, Scapigliati A, Pellis T, Grieco N, Cerchiari EL. *Resuscitation*. 2014 Jul;85(7):e109-10.
12. EuReCa ONE - ONE month - ONE Europe - ONE goal. Gräsner JT, Böttiger BW, Bossaert L; European Registry of Cardiac Arrest (EuReCa) ONE Steering Committee; EuReCa ONE Study Management Team. *Resuscitation*. 2014 Oct;85(10):1307-8.
13. The "Italian Registry of Cardiac Arrest - RIAC", a National achievement to portrait the Italian reality and to contribute to the wider European vision by "EuReCa". Ristagno G, Semeraro F, Radeschi G, Pellis T, Gordini G, Ferro S, Cerchiari E. *Resuscitation*. 2014 Dec;85(12):e193-4.
14. RELIVE Tracking for quality cardiopulmonary resuscitation training: An experimental comparison with a standard CPR training mannequin. Loconsole C, Frisoli A, Mastronicola N, Stroppa F, Ristagno G, Marchetti L, Semeraro F. *Resuscitation*. 2015 Apr 14.
15. Ethical issues associated with in-hospital emergency from the Medical Emergency Team's perspective: a national survey. Cabrini L, Giannini A, Pintaudi M, Semeraro F, Radeschi G, Borga S, Landoni G, Troiano H, Luchetti M, Pellis T, Ristagno G, Minoja G, Mazzon D, Alampi D. *Minerva Anestesiol*. 2015 Jun 5.
16. [Implementation of post-resuscitation care in adult cardiac arrest patients - Experts' opinion]. Pellis T, Ristagno G, Semeraro F, Grieco N, Fabbri A, Balzanelli M, Berruto E, Scapigliati A, Sciretti M, Cerchiari E. *G Ital Cardiol (Rome)*. 2015 Jul-Aug;16(7-8):442-55.
17. Advanced life support provider course in Italy: A 5-year nationwide study to identify the determinants of course success. Semeraro F, Scapigliati A, Tammaro G, Olcese U, Cerchiari EL, Ristagno G. *Resuscitation*. 2015 Nov;96:246-51. doi: 10.1016/j.resuscitation.2015.08.006.
18. The nonsense paradigm of rethinking the second link of the chain of survival: "if shock is not advised, wait and do nothing!" Aren't we condemning our cardiac arrest patients? Ristagno G, Pellis T, Semeraro F; Italian Resuscitation Council. *Am Heart J*. 2016 Jun;176:e5-6.
19. EuReCa ONE Collaborators. EuReCa ONE-27 Nations, ONE Europe, ONE Registry: A prospective one month analysis of out-of-hospital cardiac arrest outcomes in 27 countries in Europe. Gräsner JT, Lefering R, Koster RW, Masterson S, Böttiger BW, Herlitz J, Whent J, Tjelmeland IB, Ortiz FR, Maurer H, Baubin M, Mols P, Hadžibegović I, Ioannides M, Škulec R, Wissenberg M, Salo A, Hubert H, Nikolaou NI, Lóczy G, Svavarsdóttir H, Semeraro F, Wright PJ, Clarens C, Pijls R, Cebula G, Correia VG, Cimpoesu D, Raffay V, Trenkler S, Markota A, Strömsöe A, Burkart R, Perkins GD, Bossaert LL; *Resuscitation*. 2016 Aug;105:188-95.
20. KIDS SAVE LIVES implementation in Europe: A survey through the ERC Research NET. Semeraro F, Wingen S, Schroeder DC, Ecker H, Scapigliati A, Ristagno G, Böttiger BW. *Resuscitation*. 2016 Oct;107:e7-9.
21. Kids Save Lives - ERC position statement on school children education in CPR.: "Hands that help - Training children is training for life". Böttiger BW, Bossaert LL, Castrén M, Cimpoesu D, Georgiou M, Greif R, Grünfeld M, Lockett A, Lott C, Maconochie I, Meliester R, Monsieurs KG, Nolan JP, Perkins GD, Raffay V, Schlieber J, Semeraro F, Soar J, Truhlar A, Van de Voorde P, Wyllie J, Wingen S; Board of European Resuscitation Council (ERC). *Resuscitation*. 2016 Aug;105:A1-3
22. Is investing on social networks a winning strategy to promote cardiopulmonary resuscitation guidelines? A supportive example from Italy. Semeraro F, Scapigliati A, Di Marco S, Boccuzzi A, De Luca M, Panzarino B, Cataldi W, Scelsi S, Ristagno G. *Resuscitation*. 2016 Oct;107:e5-6.
23. Telephone dispatcher-assisted cardiopulmonary resuscitation in Italy. A picture from a nationwide survey. Di Marco S, Petacco M, Semeraro F, Scapigliati A, Boccuzzi A, Luca M, Panzarino B, Cataldi W, Scelsi S, Ristagno G. *Resuscitation*. 2016 Nov 30.

24. "Kids Save Lives" campaign in Italy: A picture from a nationwide survey on the web. Semeraro F, Scapigliati A, De Marco S, Boccuzzi A, De Luca M, Panzarino B, Cataldi W, Scelsi S, Ristagno G. *Resuscitation*. 2017 Feb;111:e5-e6.
25. "Kids Save Lives": Educating Schoolchildren in Cardiopulmonary Resuscitation Is a Civic Duty That Needs Support for Implementation. Böttiger BW, Semeraro F, Wingen S. *J Am Heart Assoc*. 2017 Mar 14;6(3).
26. Post-resuscitation care in large and small University and community hospitals in Italy. Cucino A, Semeraro F, Scapigliati A, Luciani A, Gandolfi S, Babini G, Gabrieli A, Ristagno G; Italian Resuscitation Council Executive Committee. *Resuscitation*. 2017 Aug;117:e11-e13
27. Kids (learn how to) save lives in the school with the serious game Relive. Semeraro F, Frisoli A, Loconsole C, Mastronicola N, Stroppa F, Ristagno G, Scapigliati A, Marchetti L, Cerchiarri E. *Resuscitation*. 2017 Jul;116:27-32.
28. CPR mass training during an international sport competition: An evaluation of CPR skills in children. Luciani A, Gandolfi S, Zanin L, Stragliotto M, Sardelli L, Carbogno C, Cucino A, Ristagno G, Scapigliati A, Semeraro F. *Resuscitation*. 2017 Nov;120:e3. doi: 10.1016/j.resuscitation.2017.08.236. Epub 2017 Aug 30. PMID: 28860013.
29. Amplitude spectrum area: The "clairvoyance" during resuscitation in the era of predictive medicine. Ruggeri L, Semeraro F, Ristagno G. *Resuscitation*. 2017 Sep 18
30. Virtual Reality for CPR training: How cool is that? Dedicated to the "next generation". Semeraro F, Scapigliati A, Ristagno G et al. *Resuscitation*. 2017 Sep 23
31. KIDS SAVE LIVES: School children education in resuscitation for Europe and the world. Böttiger BW, Semeraro F, Altemeyer KH, Breckwoldt J, Kreimeier U, Rücker G, Andres J, Lockey A, Lippert FK, Georgiou M, Wingen S. *Eur J Anaesthesiol*. 2017 Dec;34(12):792-796.
32. European Resuscitation Council Guidelines for Resuscitation: 2017 update. Perkins GD, Olasveengen TM, Maconochie I, Soar J, Wyllie J, Greif R, Lockey A, Semeraro F, Van de Voorde P, Lott C, Monsieurs KG, Nolan JP; European Resuscitation Council. *Resuscitation*. 2018 Feb;123:43-50.
33. KIDS SAVE LIVES-Three years of implementation in Europe. Semeraro F, Wingen S, Schroeder DC, Ecker H, Scapigliati A, Ristagno G, Cimpoesu D, Böttiger BW. *Resuscitation*. 2018 Oct;131:e9-e11.
34. European Resuscitation Council Guidelines for Resuscitation: 2018 Update - Antiarrhythmic drugs for cardiac arrest. Soar J, Perkins GD, Maconochie I, Böttiger BW, Deakin CD, Sandroni C, Olasveengen TM, Wyllie J, Greif R, Lockey A, Semeraro F, Van de Voorde P, Lott C, Bossaert L, Monsieurs KG, Nolan JP; European Resuscitation Council. *Resuscitation*. 2018 Nov 26;134:99-103
35. Virtual reality cardiopulmonary resuscitation (CPR): Comparison with a standard CPR training mannequin. Semeraro F, Ristagno G, Giulini G, Gnudi T, Kayal JS, Monesi A, Tucci R, Scapigliati A. *Resuscitation*. 2018 Dec 28.
36. Back to reality: A new blended pilot course of Basic Life Support with Virtual Reality. Semeraro F, Ristagno G, Giulini G, Kayal JS, Cavallo P, Farabegoli L, Tucci R, Scelsi S, Grieco NB, Scapigliati A. *Resuscitation*. 2019 May;138:18-19.
37. A system to save lives in Italy: A cultural challenge for community and government. Scapigliati A, Ristagno G, Grieco NB, Boccuzzi A, Scelsi S, Di Marco S, Panzarino B, Copetti S, Tumolo M, Semeraro F. *Resuscitation*. 2019 Sep;142:25-27.
38. Nakagawa NK, Silva LM, Carvalho-Oliveira R, Oliveira KMG, Santos FRA, Calderaro M, Souza KIDS SAVE LIVES BRAZIL: A successful pilot program to implement CPR at primary and high schools in Brazil resulting in a state law for a training CPR week. HP, Hajjar LA, Motta EV, Teixeira PWGN, Timmerman S, Semeraro F, Carmona MJC, Böttiger BW. *Resuscitation*. 2019 Jul;140:81-83. doi: 10.1016/j.resuscitation.2019.05.009. Epub 2019 May 20. PMID: 31121207.
39. Smartphone software update could potentially affect the efficiency of lay first-responders networks in out-of-hospital cardiac arrests. Scquizzato T, Landoni G, Semeraro F, Zangrillo A. *Resuscitation*. 2019 Nov;144:15-16.
40. DAE RespondER: The Emilia Romagna app for a regional "community saving lives" system. Del Giudice D, Semeraro F, Ristagno G, Picoco C, Cordenons F, Dell'Arciprete O, Mora F, Scapigliati A, Gordini G. *Resuscitation*. 2019 Dec;145:34-36.
41. First-response treatment after out-of-hospital cardiac arrest: a survey of current practices across 29 countries in Europe. Oving I, Masterson S, Tjelmeland IBM, Jonsson M, Semeraro F, Ringh M, Truhlar A, Cimpoesu D, Folke F, Beesems SG, Koster RW, Tan HL, Blom MT; ESCAPE-NET Investigators. *Scand J Trauma Resusc Emerg Med*. 2019 Dec 16;27(1):112.

42. Survival after out-of-hospital cardiac arrest in Europe - Results of the EuReCa TWO study. Gräsner JT, Wnent J, Herlitz J, Perkins GD, Lefering R, Tjelmeland I, Koster RW, Masterson S, Rossell-Ortiz F, Maurer H, Böttiger BW, Moertl M, Mols P, Alihodžić H, Hadžibegović I, Ioannides M, Truhlář A, Wissenberg M, Salo A, Escutnaire J, Nikolaou N, Nagy E, Jonsson BS, Wright P, Semeraro F, Clarens C, Beesems S, Cebula G, Correia VH, Cimpoesu D, Raffay V, Trenkler S, Markota A, Strömsøe A, Burkart R, Booth S, Bossaert L. *Resuscitation*. 2020 Feb 3;148:218-226.
43. Preparedness for telephone dispatch-assisted cardiopulmonary resuscitation in Italy. A National survey. Di Marco S, Tucci R, Tonelli G, Frione G, Semeraro F, Ristagno G, Scapigliati A. *Resuscitation*. 2020 Feb 18.
44. An integrated response to the impact of coronavirus outbreak on the Emergency Medical Services of Emilia Romagna. Semeraro F, Gamberini L, Tartaglione M, Mora F, Dell'Arciprete O, Cordenons F, Del Giudice D, Picoco C, Gordini G. *Resuscitation*. 2020 Mar 20;151:1-2.
45. KIDS SAVE LIVES: ERC Position statement on schoolteachers' education and qualification in resuscitation. Böttiger BW, Lockey A, Georgiou M, Greif R, Monsieurs KG, Mpotos N, Nikolaou N, Nolan J, Perkins G, Semeraro F, Wingen S. *Resuscitation*. 2020 Jun;151:87-90. doi: 10.1016/j.resuscitation.2020.04.021.
46. Mobile phone systems to alert citizens as first responders and to locate automated external defibrillators: a European survey. Scquizzato T, Burkart R, Greif R, Monsieurs KG, Ristagno G, Scapigliati A, Semeraro F. *Resuscitation*. 2020 Apr 3.
47. The other side of novel coronavirus outbreak: Fear of performing cardiopulmonary resuscitation. Scquizzato T, Olasveengen TM, Ristagno G, Semeraro F. *Resuscitation*. 2020 Apr 4;150:92-93.
48. New Early Warning Score: off-label approach for Covid-19 outbreak patient deterioration in the community. *Resuscitation*. 2020 Apr 20;151:24-25. Semeraro F, Scquizzato T, Scapigliati A, Ristagno G, Gamberini L, Tartaglione M, Dell'Arciprete O, Mora F, Cordenons F, Del Giudice D, Picoco C, Gordini G.
49. How to ventilate during CPR in time of Covid-19? Scapigliati A, Gulli A, Semeraro F, Ristagno G, Arlotta G, Bevilacqua F, Barelli A. *Resuscitation*. 2020 Jun;151:148-149. doi: 10.1016/j.resuscitation.2020.04.036.
50. COVID-19 suspicion and diagnosis: Are we still chasing epidemiological criteria? Tartaglione M, Gamberini L, Semeraro F, Lupi C, Coniglio C, Gordini G. *J Med Virol*. 2020 Oct;92(10):1707-1708. doi: 10.1002/jmv.26042.
51. BIG FIVE strategies for survival following out-of-hospital cardiac arrest. Böttiger BW, Becker LB, Kern KB, Lippert F, Lockey A, Ristagno G, Semeraro F, Wingen S. *Eur J Anaesthesiol*. 2020 Nov;37(11):955-958.
52. Renewed KIDS SAVE LIVES campaign to further increase awareness and fight sudden cardiac death in the era of COVID-19. Semeraro F, Ristagno G, Greif R, Lockey A, Monsieurs KG, Nolan JP, Olasveengen TM, Perkins GD, Scapigliati A, Böttiger BW. *Resuscitation*. 2020 Aug;153:183-184. doi: 10.1016/j.resuscitation.2020.06.018.
53. Up to 206 Million People Reached and Over 5.4 Million Trained in Cardiopulmonary Resuscitation Worldwide: The 2019 International Liaison Committee on Resuscitation World Restart a Heart Initiative. Böttiger BW, Lockey A, Aickin R, Carmona M, Cassan P, Castrén M, Chakra Rao S, De Caen A, Escalante R, Georgiou M, Hoover A, Kern KB, Khan AMS, Levi C, Lim SH, Nadkarni V, Nakagawa NV, Nation K, Neumar RW, Nolan JP, Mellin-Olsen J, Pagani J, Sales M, Semeraro F, Stanton D, Toporas C, van Grootven H, Wang TL, Wijesuriya N, Wong G, Perkins GD. *J Am Heart Assoc*. 2020 Aug 4;9(15):e017230. doi: 10.1161/JAHA.120.017230.
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55. Effectiveness of the 40-Minute Handmade Manikin Program to Teach Hands-on Cardiopulmonary Resuscitation at School Communities. Nakagawa NK, Oliveira KMG, Lockey A, Semeraro F, Aikawa P, Macchione M, Carvalho-Oliveira R, Gouvêa GB, Boaventura AP, Maiworm AI, Calderaro M, Hajjar LA, Motta EV, Souza HP, de André CDS, Silva LFF, Polastri TF, Timmerman S, Carmona MJC, Böttiger BW. *Am J Cardiol*. 2021 Jan 15;139:126-130. doi: 10.1016/j.amjcard.2020.09.032.
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58. Adult Basic Life Support: 2020 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science With Treatment Recommendations. Olasveengen TM, Mancini ME, Perkins GD, Avis S, Brooks S, Castrén M, Chung SP, Considine J, Couper K, Escalante R, Hatanaka T, Hung KKC, Kudenchuk P, Lim SH, Nishiyama C, Ristagno G, Semeraro F, Smith CM, Smyth MA, Vaillancourt C, Nolan JP, Hazinski MF, Morley PT; Adult Basic Life Support Collaborators. *Circulation*. 2020 Oct 20;142(16_suppl_1):S41-S91.
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