

# IRC 2021

CONGRESSO  
NAZIONALE

16•17•18 DICEMBRE

NUOVE LINEE GUIDA 2021:  
RIANIMAZIONE CARDIOPOLMONARE  
**POST-LOCKDOWN**



Italian  
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# ***ILCOR 2021 e le nuove Linee guida***



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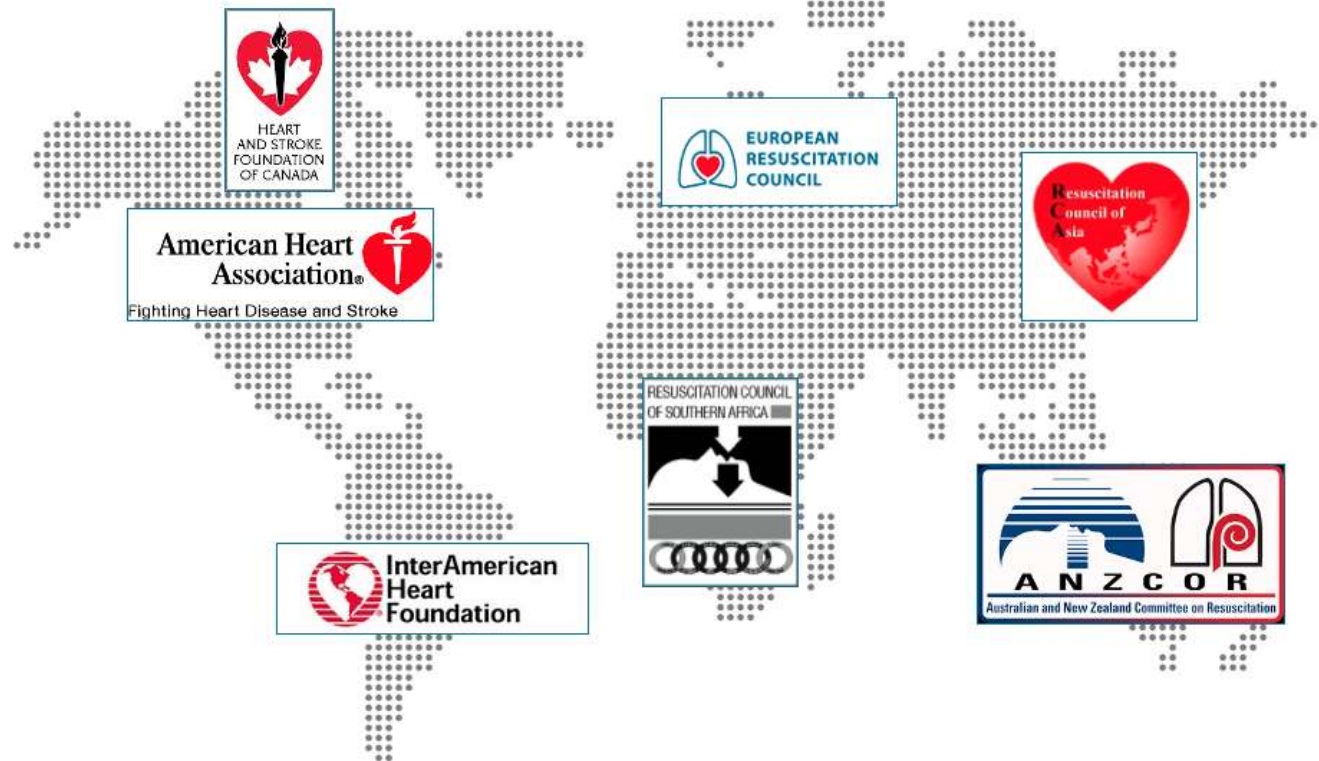
# Nuove Linee guida 2021 Revisione dell'evidenza ILCOR

- Giuseppe Ristagno – ILCOR BLS Task Force, ERC writing group
- Federico Semeraro – ILCOR BLS Task Force, ERC writing group
- Claudio Sandroni – ILCOR ALS Task Force, ERC writing group
- Daniele Trevisanuto – ILCOR NLS Task Force
- Andrea Scapigliati – ILCOR EIT Task Force, ERC writing group
- Tommaso Pellis - ERC writing group
- Tommaso Scquizzato – ERC writing group collaborator





2020 INTERNATIONAL  
CONSENSUS ON CPR AND ECC SCIENCE  
*with Treatment Recommendations*



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# Evidence Evaluation



## ILCOR Task Forces





Contents lists available at ScienceDirect

**Resuscitation**journal homepage: [www.elsevier.com/locate/resuscitation](http://www.elsevier.com/locate/resuscitation)

ILCOR Summary Statement

**2017 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science With Treatment Recommendations Summary<sup>☆</sup>**

Theresa M. Olasveengen, Allan R. de Caen, Mary E. Mancini, Ian K. Maconochie, Richard Aickin, Dianne L. Atkins, Robert A. Berg, Robert M. Bingham, Steven C. Brooks, Maaret Castrén, Sung Phil Chung, Julie Considine, Thomaz Bittencourt Couto, Raffo Escalante, Raúl J. Gazmuri, Anne-Marie Guerguerian, Tetsuo Hatanaka, Rudolph W. Koster, Peter J. Kudenchuk, Eddy Lang, Swee Han Lim, Bo Løfgren, Peter A. Meaney, William H. Montgomery, Peter T. Morley, Laurie J. Morrison, Kevin J. Nation, Kee-Chong Ng, Vinay M. Nadkarni, Chika Nishiyama, Gabrielle Nuthall, Gene Yong-Kwang Ong, Gavin D. Perkins, Amelia G. Reis, Giuseppe Ristagno, Tetsuya Sakamoto, Michael R. Sayre, Stephen M. Schexnayder, Alfredo F. Sierra, Eunice M. Singletary, Naoki Shimizu, Michael A. Smyth, David Stanton, Janice A. Tijssen, Andrew Travers, Christian Vaillancourt, Patrick Van de Voorde, Mary Fran Hazinski, Jerry P. Nolan, On behalf of the ILCOR Collaborators



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ILCOR Summary Statement

**2019 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science With Treatment Recommendations<sup>☆,☆☆</sup>**

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Available online at [www.sciencedirect.com](http://www.sciencedirect.com)**Resuscitation**journal homepage: [www.elsevier.com/locate/resuscitation](http://www.elsevier.com/locate/resuscitation)**Adult Advanced Life Support  
2020 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science with Treatment Recommendations<sup>☆</sup>**

*Jasmeet Soar, Katherine M. Berg, Lars W. Andersen, Bernd W. Böttiger, Sofia Cacciola, Clifton W. Callaway, Keith Couper, Tobias Cronberg, Sonia D'Arrigo, Charles D. Deakin, Michael W. Donnino, Ian R. Drennan, Asger Granfeldt, Cornelia W.E. Hoedemaekers, Mathias J. Holmberg, Cindy H. Hsu, Marlijn Kamps, Szymon Musiol, Kevin J. Nation, Robert W. Neumar, Tonia Nicholson, Brian J. O'Neil, Quentin Otto, Edison Ferreira de Paiva, Michael J.A. Parr, Joshua C. Reynolds, Claudio Sandroni, Barnaby R. Scholefield, Markus B. Skrifvars, Tzong-Luen Wang, Wolfgang A. Wetsch, Joyce Yeung, Peter T. Morley, Laurie J. Morrison, Michelle Welsford, Mary Fran Hazinski, Jerry P. Nolan, on behalf of the Adult Advanced Life Support Collaborators<sup>1</sup>*

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**Table 1 – Overview of the Evidence Evaluation Processes for the 2020 CoSTR.**

|   | KSU SysRev                       | ESR SysRev                       | Task Force SysRev                | Task Force ScopRev        | EvUp                               |
|---|----------------------------------|----------------------------------|----------------------------------|---------------------------|------------------------------------|
| Question based on task force priorities                         | ✓                                | ✓                                | ✓                                | ✓                         | ±                                  |
| Guidance for review   | PRISMA                           | PRISMA                           | PRISMA                           | PRISMA-ScR                | ILCOR and member councils          |
| Search strategy created by information specialist*              | ✓                                | ✓                                | ✓                                | ✓                         | ±                                  |
| Lead for review   | KSU                              | ESR                              | ILCOR Task Force                 | ILCOR Task Force          | ILCOR member council collaborators |
| Content experts from task force                                 | ✓                                | ✓                                | ✓                                | ✓                         | ±                                  |
| Review of published data  | ✓                                | ✓                                | ✓                                | ✓                         | ✓                                  |
| Combination of data (eg meta-analysis)                          | ✓                                | ✓                                | ✓                                | -                         | -                                  |
| Bias assessment   | ✓                                | ✓                                | ✓                                | -                         | -                                  |
| GRADE evidence profile tables                                   | ✓                                | ✓                                | ✓                                | -                         | -                                  |
| GRADE EtD   | ✓                                | ✓                                | ✓                                | -                         | -                                  |
| Task force review and insights incorporated                     | ✓                                | ✓                                | ✓                                | ✓                         | -                                  |
| Consensus on science  | ✓                                | ✓                                | ✓                                | -                         | -                                  |
| Revision/creation of treatment recommendation <sup>†</sup>      | ✓                                | ✓                                | ✓                                | -                         | -                                  |
| Opportunity for public comment                                  | ✓                                | ✓                                | ✓                                | ✓                         | -                                  |
| Peer-reviewed publication <sup>‡</sup>                          | ✓                                | ✓                                | ±                                | ±                         | -                                  |
| Included in 2020 CoSTR manuscript                               | Summary, including PICOST, CoSTR | Summary, including PICOST, CoSTR | Summary, including PICOST, CoSTR | Summary, including PICOST | Summary, including PICOST          |
| Included in 2020 CoSTR appendixes in the Supplementary Material | EtD: Supplement Appendix A       | EtD: Supplement Appendix A       | EtD: Supplement Appendix A       | Supplement Appendix B     | Supplement Appendix C              |





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## Population

Describes a particular group of patients; may include primary problem, disease, or coexisting conditions

Example: Cardiac arrest patients

## Intervention

Includes main intervention, prognostic factor, or exposure

Example: Who received CPR

## Comparator

Describes the main alternative

Example: Compared with no CPR

## Outcome

What is being accomplished, improved, measured

Example:  
1. Neurologically intact survival  
2. Survival to discharge  
3. ROSC



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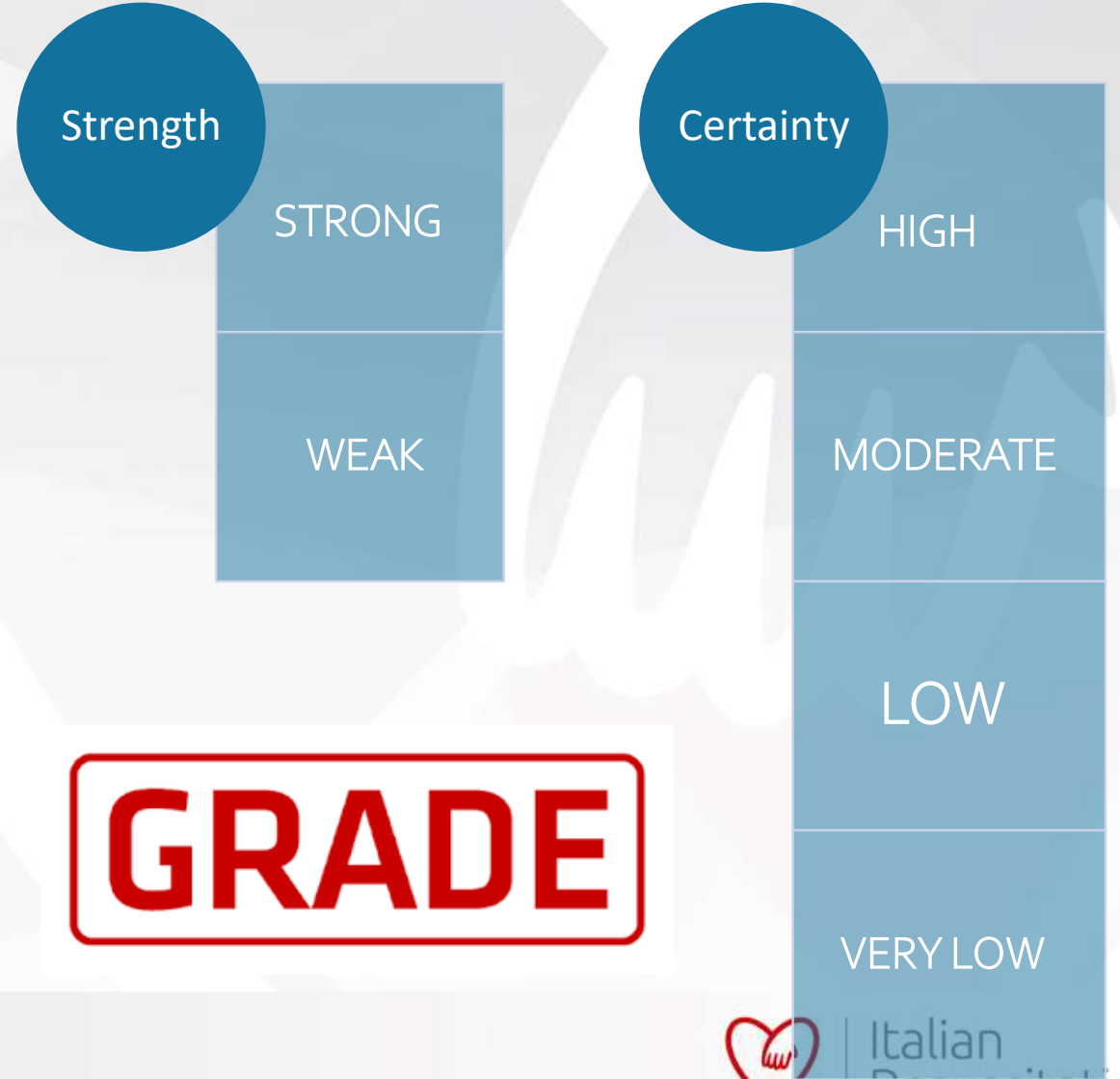


# GUIDELINE RECOMMENDATIONS

## RATING OF EVIDENCE AND RECOMMENDATIONS

**Table 5 – Components of Evidence-to-Decision Framework for Questions Related to Interventions.**<sup>28,53</sup>

| Component                         | Questions  |
|-----------------------------------|--|
| Problem                           | Is there a problem priority?   |
| Benefits and harms of the options | What is the overall certainty of this evidence?<br>Is there important uncertainty about how much people value the main outcomes?<br>Are the desirable anticipated effects large?<br>Are the undesirable anticipated effects small?<br>Are the desirable effects large relative to undesirable effects? |
| Resource use                      | Are the required resources small?<br>Is the incremental cost small relative to the net benefits?   |
| Equity                            | What would be the impact on health inequities?   |
| Acceptability                     | Is the option acceptable to key stakeholders?  |
| Feasibility                       | Is the option feasible to implement?   |



# European Resuscitation Council Guidelines 2021

## DECISION-MAKING PROCESS

- ILCOR CoSTR
- Writing group discussion
- Consensus or difference of opinions
- Approval by General Assembly

- Executive Summary
- Epidemiologia
- Systems Saving Lives
- BLS
- ALS
- Circostanze speciali
- Post-Resuscitation Care
- Primo Soccorso
- NLS
- PLS
- Etica
- Formazione



Rimini  
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