

IRC 2021

CONGRESSO
NAZIONALE

16•17•18 DICEMBRE

NUOVE LINEE GUIDA 2021:
RIANIMAZIONE CARDIOPOLMONARE
POST-LOCKDOWN



Italian
Resuscitation
Council





10 anni di IRC per arrivare a SSL

Giuseppe Ristagno, M.D., Ph.D.

President Italian Resuscitation Council



Italian
Resuscitation
Council


August 6th,
2021

Systems Saving Lives

the Italian Resuscitation Council proposals become an Italian law

THE OUT-OF-HOSPITAL USE OF SEMI-AUTOMATIC AND AUTOMATIC EXTERNAL DEFIBRILLATORS (AED)

1 **Mandatory placement of AEDs** in public administration offices, public sites (airports, train stations, ports, etc.) and transport systems

Art. 


2 **AED Placement criteria in public places** (local needs and PAD projects, access and availability, etc.)

Art. 


3 **Legal protection for lay rescuers** performing bystander CPR and AED use

Art. 


4 **Mandatory availability and use of AEDs during sport events** (practice and competition) both for professional and amateur teams

Art. 


5 **CPR education and use of AED in schools** taught to students (age 10-18), teachers, administrative and support staff

Art. 


6 **Inventory of all AEDs** made by the EMS

Art. 

7 **A smartphone application** for rescuer recruitment and AED location. National protocol for EMS **dispatch-assisted pre-arrival instructions**

Art. 

8 **Awareness campaigns** on cardiac arrest and CPR, especially on WRAH occasion (October 16th)

Art. 



Rimini
IRC 2021
CONGRESSO
NAZIONALE
16-17-18 DICEMBRE
NUOVE LINEE GUIDA 2021:
RINNOVARE L'IMPEDIMENTO
POST-LOCKDOWN



EUROPEAN PARLIAMENT

2009 - 2014

12.3.2012

0011/2012

WRITTEN DECLARATION



Italian
Resuscitation
Council



1. Calls on the Commission and the Council to encourage:
 - the adoption of common programmes for implementing AED in public places and training lay people in all Member States,
 - the adjustment of legislation in order to facilitate CPR and defibrillation by non-medical persons,
 - systematic data collection for feedback and quality management in every programme;
2. Calls on the Commission and the Member States to establish a European cardiac arrest awareness week aimed at improving the awareness and education of the general public, physicians and healthcare professionals;
3. Calls on the Commission to support the Member States in adopting and implementing national strategies for equal access to high-quality CPR;
4. Calls on the Commission and the Member States to enact harmonised legislation across the EU in order to provide immunity from liability to non-medical first responders who offer voluntary assistance in cardiac emergencies;

...in
ITALY



1. Awareness



• 283 Events organized during cardiac arrest week

- 200 Cities involved with 12 Institutions Patronage
- 130 Collaboration with Associations and Scientific Society
- **77.000** Person reached during events
- 40.000 Poster «Life in your hands» distributed
- 205.000 Brochure & Flyer «Life in you hands» distributed
- 151.662 Contacts Viva Web site (www.viva2013.it)
- 111.203 Facebook contacts on Viva! Facebook page
- 7.422 Download Viva! App & Viva! Game
- 30 live streaming events online
- 30 TV and Radio Spot & 17 Press Agency Communicate
- 15 Viral Video on You Tube (22.653 views)



**KIDS
 SAVE
 LIVES**





IRC Italian Resuscitation Council

KIDS SAVE LIVES

!



#settimanaviva #IRC #ERC #ILCOR #WorldRestartAHeart #WRAH

www.settimanaviva.it



Italian
Resuscitation
Council

10 Ottobre 2015 RianimaMinExpo 2015 Viva!



KIDS SAVE



Che cosa fare IN CASO DI SOFFOCAMENTO

S.O.S.

1. Pigi il naso e soffiato

2. Premi sul fo Centro addorsomidolam

3. Premi sul back 5 volte il toraco di 5cm

DA L'AMICO M.C.I.

S.O.S.

1. Pigi il naso e soffiato

2. Manovra Hebe 5 volte sulla schiena di Col-Col

3. Manovra di back 5 volte toraco Col-Col 5cm

MESSORNE COMPISTA

DA L'AMICO M.C.I.

Che cosa fare IN CASO DI ARRESTO CARDIACO

S.O.S.

1. Conto Tom-Tom a voce alta (10 secondi a beta)

2. Tom-Tom non reagisce e non c'è il polso: premi sul fo Centro addorsomidolam

3. La schiena ribatte e lo 000 alla parata di chiamare soccorsi

DA L'AMICO M.C.I.

S.O.S.

4. Divertibile un tempo

5. Lo schiena ribatte in alta e c'è il polso: premi sul fo Centro addorsomidolam (10-15 cm)

6. Premi sul fo Centro addorsomidolam e c'è il polso: premi sul fo Centro addorsomidolam

7. Cerca Tom-Tom al messaggio

MESSORNE COMPISTA

DA L'AMICO M.C.I.





- Viva! campaign

- Training Videos
- Apps (A breathtaking picnic)
- Serious games (Relive)
- Virtual reality training (VR-CPR)
- Testimonials
- Media relations



- Kids Save lives

- International Logo
- Awareness Video
- Mass training
- Educational Materials





World Restart A Heart Day





World Restart
A Heart Day
School mass training

World Restart a Heart - 10 Ottobre 2019



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

Bernd W. Böttiger, MD, ML, DEAA; Andrew Lookey, MB, ChB, MMedEd; Richard Aickin, MbChB;

“All citizens of the world can save a life: CHECK—CALL—COMPRESS”

J Am Heart Assoc. 2020;9:e017230.



Italian Resuscitation Council

TITOLO EVENTO	LUGOGO	DATA	PARTNER ORGANIZZATORE
Ritornello al Porto	Lecco	18/10	Centro di Formazione "Salutem Terra"
Vival	San Giacomo degli Schiavoni	17/10	CVES CB-S
Progetto "Heart & Heart"	Novara	17/10	Scuola di Specializzazione di Anestesiologia e Rianimazione di Novara in collaborazione con SIMNCA
Viva 2020 il 218 scende in piazza	Ferrara	17/10	118 Ferrara
Vival	Tavenna	16/10	CVES CB-S
Vival	Campobasso	15/10	CVES CB-S
Vival - Onis	Terni	15/10	CVES CB-S
Vival	Campobasso	15/10	CVES CB-S
Vival	Biagio	13/10	CVES CB-S



Videolezioni



Si ringrazia per il prezioso contributo: la D.ssa F. Verginella, il Dr. M. Troceni, Azienda Sanitaria dell'Alto Adige, Servizio di Emergenza Medica, Centro di Formazione IRC aziendale e di Croce Bianca, NEU ed eccorsione Alto Adige; il Dr. F. Semerari, la D.ssa M. Ferro e il Dr. G. Babini.



Domanda & Risposta



Come si può riconoscere se una persona è vittima di arresto cardiaco?



Come si valuta la coscienza?



Come si aprono le vie aeree e come si valutano i segni vitali?



Come si posizionano le mani nella RCP?



A che ritmo si effettua la RCP?



Ventilazione SÌ o NO?



2020

Maratona della RCP WRAH 2020



Italian Resuscitation Council



L'IMPATTO MEDIATICO, L'ATTIVITÀ DI COMUNICAZIONE

37 uscite complessive su quotidiani, TV e radio di cui:

- 2 tv nazionali (Rai Uno- Uno Mattina, Rai Rews 24)
- 1 radio nazionale (Radio Tre Scienza)
- 1 quotidiano nazionale (Corriere Salute)
- 3 quotidiani locali (Brescia Oggi, Gazzetta del Mezzogiorno, Quotidiano di Bari)
- 30 testate online (tra cui Repubblica.it, La Stampa.it, Il SecoloXIX.it,...)



Sono più di 4 milioni i lettori e gli ascoltatori delle testate raggiunti

Dati Sec Newgate

4 million people reached



Rassegna Stampa



14 ottobre

Intervento in diretta di Giuseppe Ristagno e Claudio Sandroni



2020



12 ottobre





9-year Awareness

I Risultati



14-20 ottobre 2013



Palinsesto **viva!** 2021

Orario	Lun. 11	Mar. 12	Mer. 13	Gio. 14	Ven. 15	Sab. 16 WRAH	Dom. 17
10.00		Pillole legge DAE art. 1	Pillole legge DAE art. 3	Pillole legge DAE art. 5	Pillole legge DAE art. 7	EDIZIONE "LA LEGGE DEL CUORE" - ROMA -	
11.00	?	?	?	?	?	?	?
12.00			Lancio bando scuole	Lancio bando scuole			
14.00	viva!	Pillole legge DAE art. 2	Pillole legge DAE art. 4	Pillole legge DAE art. 6	Pillole legge DAE art. 8		
15.00	?	?	?	?	?	?	?
16.00	Quanto ne sai?	Quanto ne sai?			Quanto ne sai?		Quanto ne sai?
17.00			17.30 WEBINAR L'APPARATO CIRCOLATORIO E IL CUORE				viva!

Tutto il giorno



Per maggiori informazioni consulta il calendario degli eventi sul sito: settimanaviva.it/eventi



? Domanda & Risposta: appuntamento quotidiano sui social IRC con le risposte alle domande più frequenti sul riammissione cardiopolmonare (RCR) ed arresto cardiaco

📧 Messaggio del Presidente IRC

📄 Pillole sulla legge: 04 agosto 2021 a T16:00 appuntamenti sui Social IRC

📄 Lancio bando scuole: Pubblicazione 2 bandi dedicati alle scuole: "Di trova un DAE..." e "La vita nelle tue mani -viva!"

📄 Quanto ne sai? Scarica APP AR + IRC e rispondi alle domande sul BLSO

viva! la settimana per la riammissione cardiopolmonare
www.settimanaviva.it



Italian
Resuscitation
Council

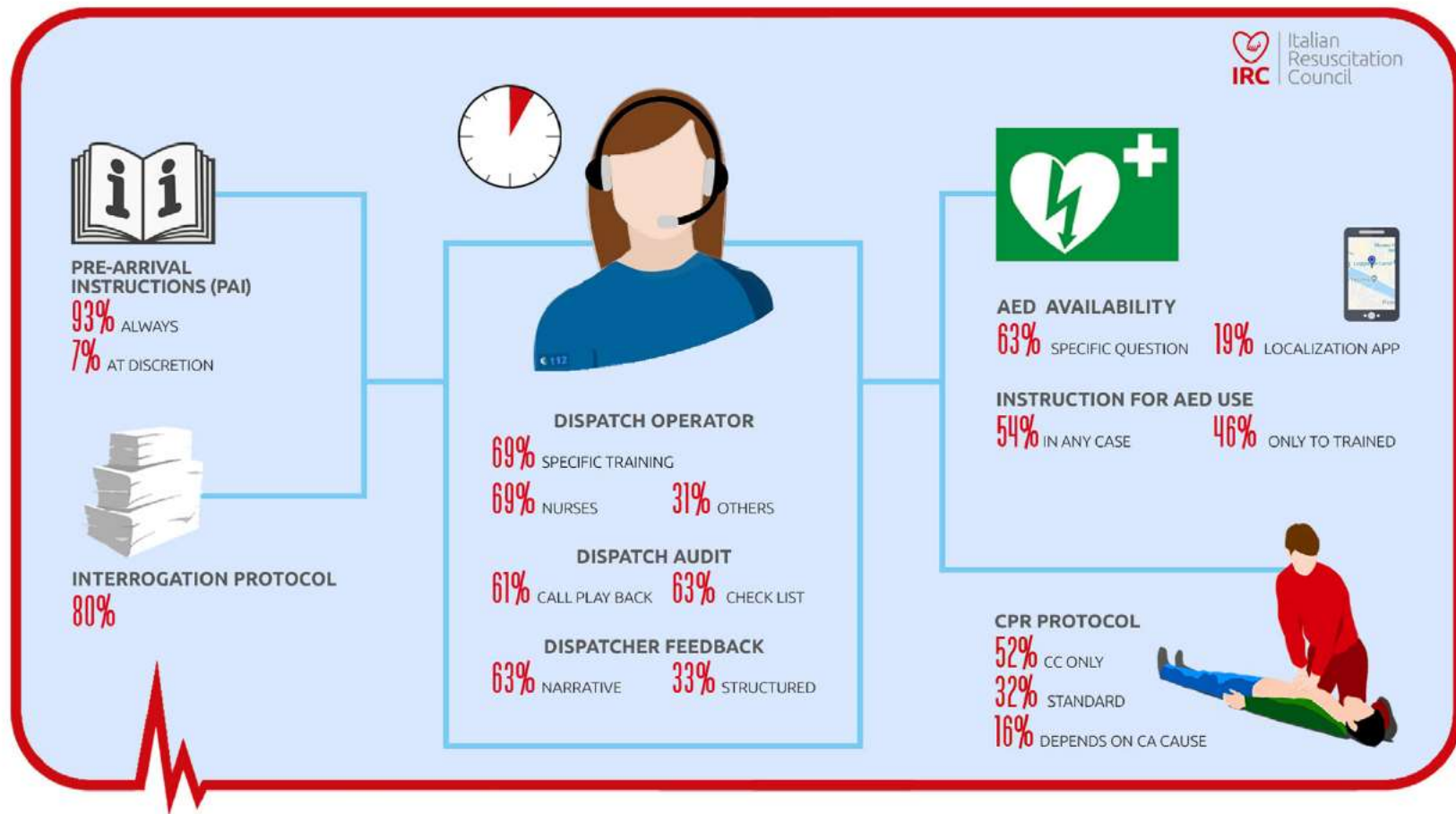


Fig. 1 – Preparedness for telephone dispatch-assisted CPR in Italy.

Di Marco S, et al.



EMERGENCY IN CLASS
 If a schoolmate falls unconscious, among students...

57%	Wouldn't know what to do	11%	Wouldn't be able to resuscitate him/her even under instructions
27%	Wouldn't know how to check breath	31%	Wouldn't know in which position the resuscitation should be done
17%	Wouldn't know when to call the emergency number	80%	Wouldn't know how many compressions are to be made in a minute
12%	Doesn't know the emergency number	84%	Wouldn't know how to use the defibrillator

1 out of 4 students claims that there is no AED in his or her school
 1 out of 2 students doesn't know what an AED is

95%	Thinks that being able to resuscitate a person is useful
75%	Never attended a resuscitation course at school
92%	Thinks that a few hours of theory and practice of first aid techniques should be mandatory in every school



European Map of CPR Education 2015



KIDS SAVE LIVES

A LEGISLATION
 Belgium
 Denmark
 France
 Italy
 Portugal

A SUGGESTION
 Austria
 Bosnia and Herzegovina
 Croatia
 Cyprus
 Czech Republic
 Germany
 Greece
 Hungary
 Ireland
 Luxembourg
 Malta
 Netherlands
 Norway
 Poland
 Romania
 Russia
 Serbia
 Slovenia
 Switzerland
 Turkey
 United Kingdom

The countries with kids with green hair have a legislation about CPR education, the countries with kids with yellow hair have CPR education as a suggestion.

European Map of CPR Education 2018



KIDS SAVE LIVES

A LEGISLATION
 Belgium
 Denmark
 France
 Italy
 Portugal

A SUGGESTION
 Austria
 Bosnia and Herzegovina
 Croatia
 Cyprus
 Czech Republic
 Germany
 Greece
 Hungary
 Ireland
 Luxembourg
 Malta
 Netherlands
 Norway
 Poland
 Romania
 Russia
 Serbia
 Slovenia
 Switzerland
 Turkey
 United Kingdom

The countries with kids with green hair have a legislation about CPR education, the countries with kids with yellow hair have CPR education as a suggestion.

European Map of CPR Education 2020



KIDS SAVE LIVES

A LEGISLATION
 Belgium
 Denmark
 France
 Italy
 Portugal
 United Kingdom

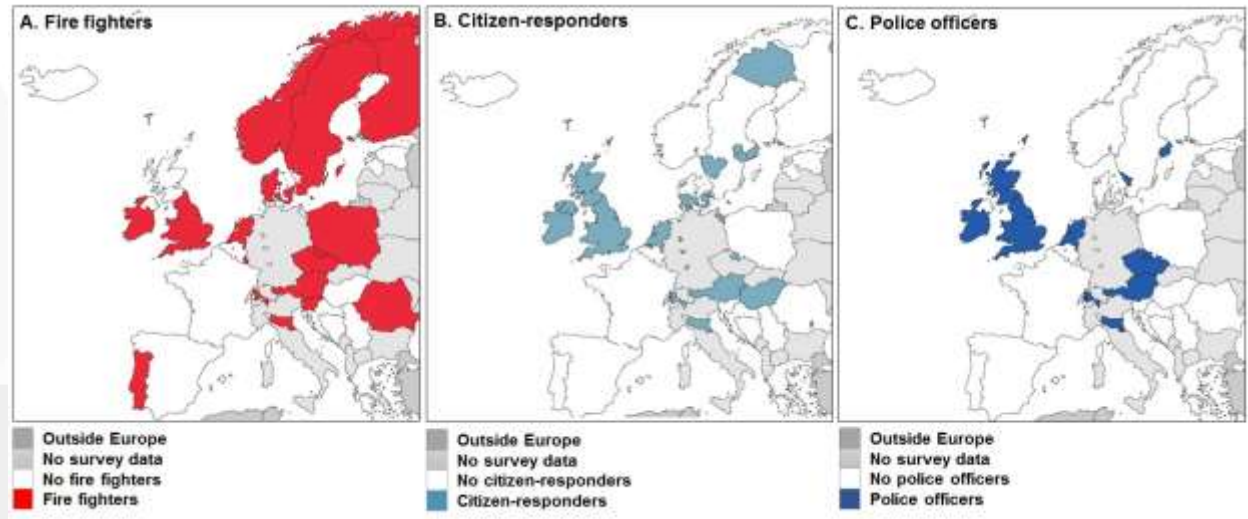
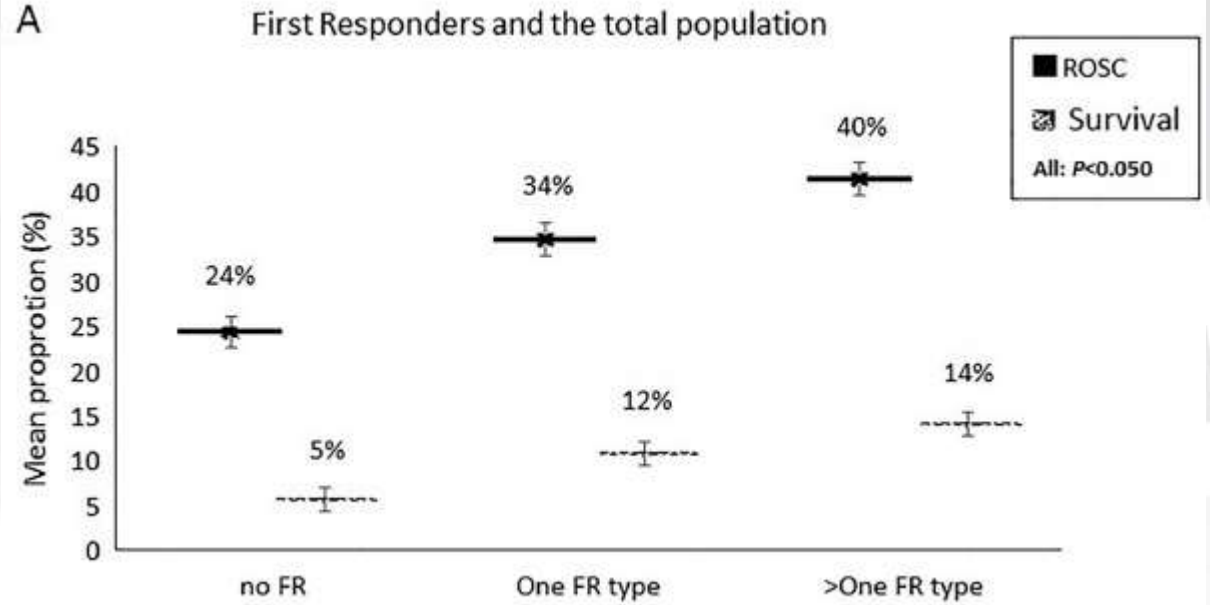
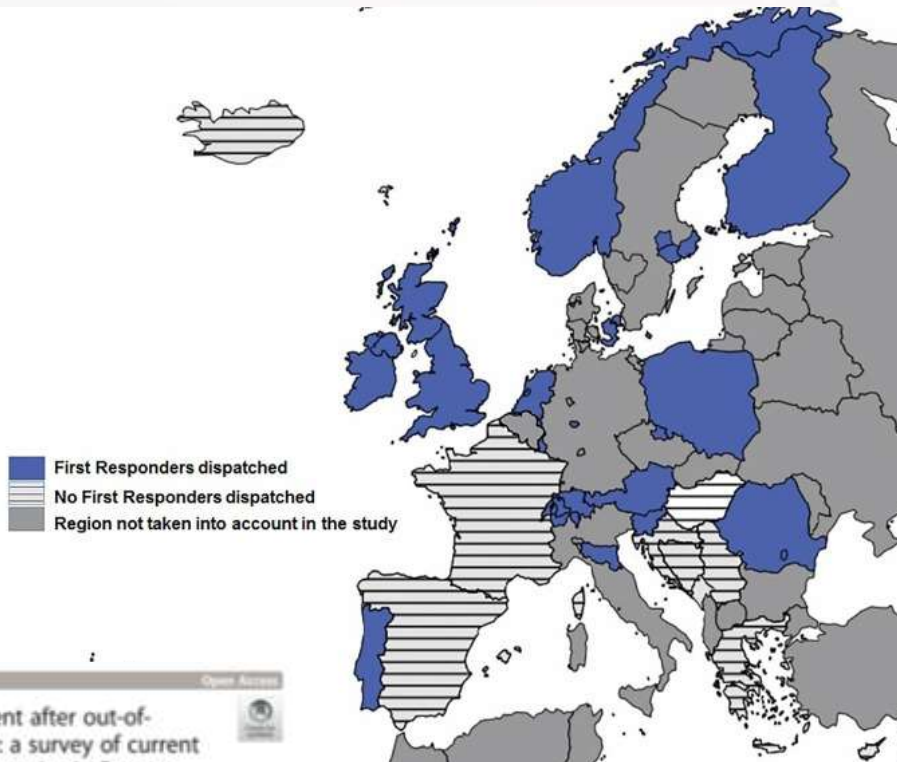
A SUGGESTION
 Austria
 Bosnia and Herzegovina
 Croatia
 Cyprus
 Czech Republic
 Germany
 Greece
 Hungary
 Ireland
 Luxembourg
 Malta
 Netherlands
 Norway
 Poland
 Romania
 Russia
 Serbia
 Slovenia
 Spain
 Sweden
 Switzerland
 Turkey

The countries with kids with green hair have a legislation about CPR education, the countries with kids with yellow hair have CPR education as a suggestion.

THE LANCET Regional Health Europe

European first responder systems and differences in return of spontaneous circulation and survival after out-of-hospital cardiac arrest: A study of registry cohorts

Iris Oving, MSc · Corina de Graaf, MD, MSc · Siobhan Masterson, PhD · Rudolph W. Koster, MD, PhD · Aeilko H. Zwinderman, PhD, Professor · Remy Stieglis, MSc · Hajriz Alihodzic, MD, PhD · Enrico Balzi, MD · Susanne Betz, MD, PhD · Diana Cimpoesu, MD, PhD, Professor · Fredrik Folke, MD, PhD, Professor · Dennis Rupp · Federico Semeraro, MD · Anatolij Truhlar, MD, PhD · Hanno L. Tan, MD, PhD · Marieke T. Blom, PhD · for the ESCAPE-NET Investigators · Show less



Letter to the Editor

DAE Responder: The Emilia Romagna app for a regional “community saving lives” system

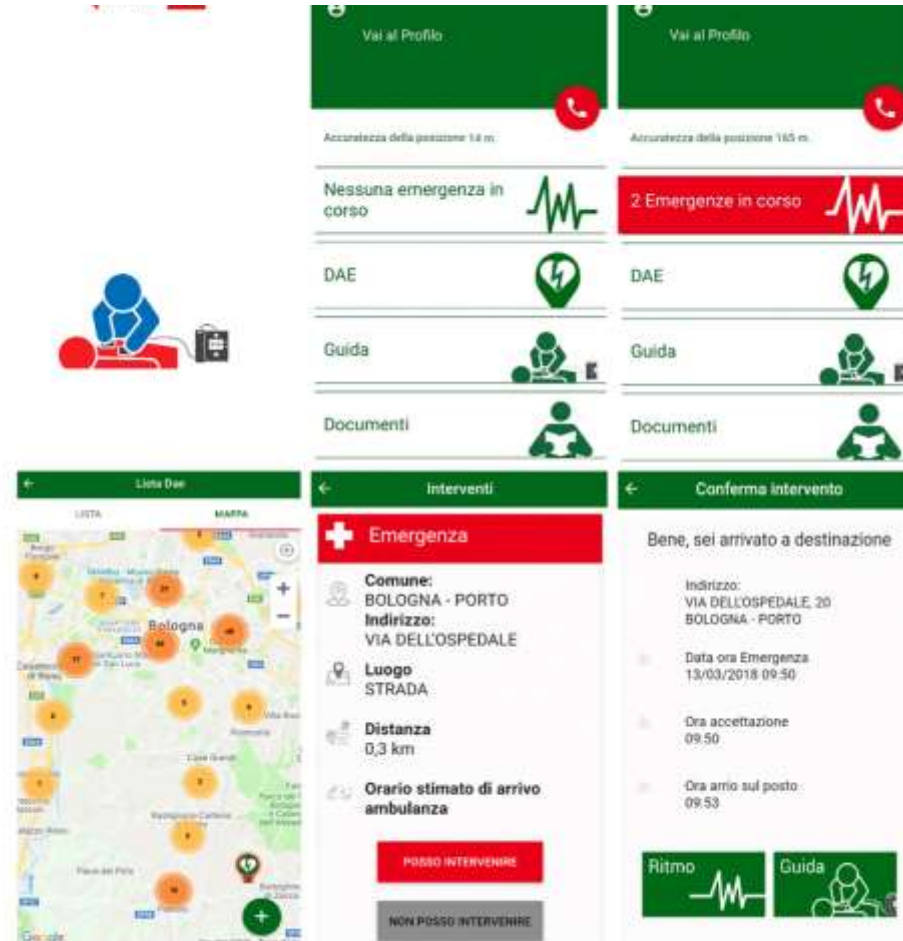


Fig. 1 – DAE Responder.

9-year Science

Resuscitation 167 (2021) 47–48



ELSEVIER

Available online at [ScienceDirect](https://www.sciencedirect.com)

Resuscitation

journal homepage: www.elsevier.com/locate/resuscitation



EUROPEAN
RESUSCITATION
COUNCIL

Letter to the Editor

The new Italian law “A systems saving lives” the first European former application of ERC 2021 guidelines



Resuscitation 107 (2016) e7–e9



ELSEVIER

Contents lists available at [ScienceDirect](https://www.sciencedirect.com)

Resuscitation

journal homepage: www.elsevier.com/locate/resuscitation

Letter to the Editor

KIDS SAVE LIVES implementation in Europe: A survey through the ERC Research NET



countries (19
seven perce

Resuscitation 107 (2016) e5



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Contents lists available at [ScienceDirect](https://www.sciencedirect.com)

Resuscitation

journal homepage: www.elsevier.com/locate/resuscitation

Letter to the Editor

Posting on social networks a winning strategy to promote cardiopulmonary resuscitation guidelines? A supportive example from Italy



from the
launch
web ca
commu
markvei

Resuscitation 111 (2017)



ELSEVIER

Contents lists available at [ScienceDirect](https://www.sciencedirect.com)

Resuscitation

journal homepage: www.elsevier.com/locate/resuscitation

Letter to the Editor

One dispatcher-assisted pulmonary resuscitation in Italy. A survey from a nationwide survey



Resuscitation 84 (2013) e85–e86



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Contents lists available at [SciVerse ScienceDirect](https://www.sciencedirect.com)

Resuscitation

journal homepage: www.elsevier.com/locate/resuscitation

Letter to the Editor

Social networks as a tool to promote the week of cardiac arrest awareness “Viva!” in Italy

the campaign
new and alte

Resuscitation 129 (2017) e1



ELSEVIER

Contents lists available at [ScienceDirect](https://www.sciencedirect.com)

Resuscitation

journal homepage: www.elsevier.com/locate/resuscitation

Letter to the Editor

CPR mass training during an international sport competition: An evaluation of CPR skills in children



References
[1] <https://doi.org/10.1016/j.resuscitation.2017.08.014>

Resuscitation 93 (2014) e193–e194



ELSEVIER

Contents lists available at [ScienceDirect](https://www.sciencedirect.com)

Resuscitation

journal homepage: www.elsevier.com/locate/resuscitation

Letter to the Editor

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”



hospital intern
implementati
improvements
comparisons. J



Resuscitation
Council



European Resuscitation Council Guidelines 2021: Systems saving lives

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Abstract

The European Resuscitation Council (ERC) has produced these Systems Saving Lives guidelines, which are based on the 2020 International Consensus on Cardiopulmonary Resuscitation Science with Treatment Recommendations. The topics covered include chain of survival, measuring performance of resuscitation, social media and smartphone apps for engaging community, European Restart a Heart Day, World Restart a Heart, KIDS SAVE LIVES campaign, lower-resource setting, European Resuscitation Academy and Global Resuscitation Alliance, early warning scores, rapid response systems, and medical emergency team, cardiac arrest centres and role of dispatcher.

Introduction and scope

The Systems Saving Lives chapter describes numerous and important factors that can globally improve the management of

cardiac arrest patients not as a single intervention but as a system-level approach. The aim of this chapter is to provide evidence-informed best practice guidance, about interventions which can be implemented by healthcare systems to improve outcomes of out-of-hospital and/or in-hospital cardiac arrest

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<https://doi.org/10.1016/j.resuscitation.2021.02.028>

Available online xxx

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SYSTEMS SAVING LIVES GL 2021

5 TOP MESSAGES



1. RAISE AWARENESS ABOUT CPR AND DEFIBRILLATION

- Train as many citizens as possible
- Engage with World Restart a Heart Day
- Develop new and innovative systems and policies that will save more lives

2. USE TECHNOLOGY TO ENGAGE COMMUNITIES

- Implement technologies to alert first responders to cardiac arrests through smartphone apps / text messages
- Develop communities of first responders to help save lives
- Map and share the locations of public access defibrillators

3. KIDS SAVE LIVES

- Teach all school children to do CPR using "check, call and compress"
- Get children to teach their parents and relatives how to do CPR

4. CARDIAC ARREST CENTRES

- Where possible care for adult patients with OHCA in cardiac arrest centres

5. DISPATCH ASSISTANCE DURING CPR

- Provide telephone assisted CPR for people who are unresponsive with absent or abnormal breathing
- Work with dispatch staff to continually monitor and improve telephone assisted CPR

Scientific & International accountability



- IRC
- ERC
- ILCOR
- ERC Research NET
- KSL
- EuReCa
- ESCAPE-NET
- iProcure Security
- LIFEFORCE
- ...



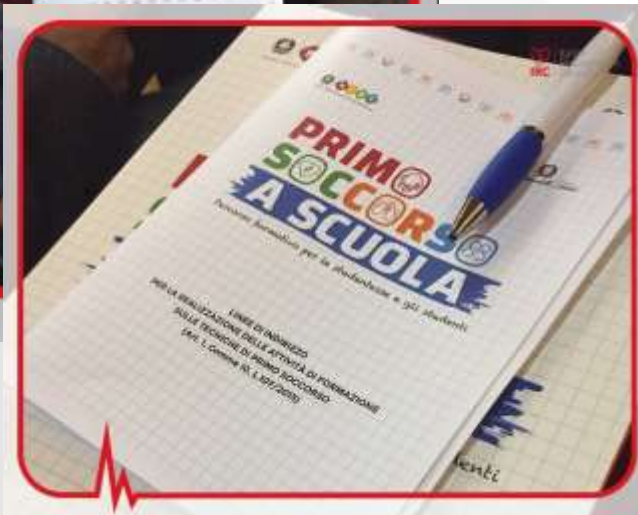
3. Political pressure



Chamber of Deputies 7th Oct 2015
Kids save lives



Direct involvement with the Italian Ministry of Health for introduction of *first aid* training in the school





Chamber of Deputies 16th Oct 2019



Auditions Chamber of Deputies, June 2019



Italian
Resuscitation
Council

A System to Save Lives

10 proposals by the Italian Resuscitation Council

Interventions to increase potential rescuers and bystander CPR

- 1 Awareness campaigns** on cardiac arrest and CPR
ref: 10/2018/01/01/01
- 2 Mandatory first aid education in schools** for students of all ages according to their capabilities
ref: 10/2018/01/01/01
- 3 Mandatory BLS courses** for students during the **last year** of the high school
- 4 Mandatory BLS training** while obtaining **driving license**
- 5 Legal protection** for lay rescuers performing bystander CPR and AED use with respect to all the events affecting the victim and other persons involved

Interventions to improve early defibrillation

- 1 Regional and national cardiac arrest registries** managed by EMS and Health Departments
ref: 10/2018/01/01/01
- 2 Inventory** of all AEDs currently available but unknown to EMS, offering maintenance service
- 3 Increase AEDs density and registration** through **mandatory placement** in specific sites and encouraging purchase through **tax reduction** (applied only if the devices are registered and available for public use)
- 4 A single nationwide smartphone application** "rescuer recruitment and AED location" based on local databases
ref: 1/2019/01/01/01
- 5 Mandatory protocol** for **dispatch-assisted pre-arrival instructions** to initiate CPR (chest-compression only) and to operate an AED

AED - Automated External Defibrillation
BLS - Basic Life Support
CPR - Cardio Pulmonary Resuscitation
EMS - Emergency Medical Services



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Available online at www.elsevier.com/locate/resuscitation

Resuscitation

Journal homepage: www.elsevier.com/locate/resuscitation



Letter to the Editor

A system to save lives in Italy: A cultural challenge for community and government

Dear Sir,

The early AED use by bystanders remains *bleakly low*.¹ This finding is even more discouraging considering the high efficacy and safety of current devices. Several factors have been recognized as obstacles to a wider AED use: low accessibility, unknown placement, mistrust on defibrillation difficulties and concerns on possible hazards and legal consequences deriving from an AED misuse.² Currently, bystander AED use in Italy is allowed only after training although legal implications of AED defibrillation by untrained occasional rescuers have never been clearly addressed. With the aim to improve bystander CPR and defibrillation, Italian Resuscitation Council (IRC) called for a change on current Italian law giving an interview to a nationwide newspaper on Easter day 2019.³

Following IRC call to action, some Deputies of the Italian Parliament have started a formal debate on a new law able to facilitate bystander CPR and defibrillation mainly focusing on AEDs placement. Unfortunately, density of AEDs is only one of the factors affecting survival from out-of-hospital cardiac arrest (OHCA) and static AEDs have not proven to be cost-effective.⁴ Most of OHCA occurs in areas not suitable for public access defibrillation (PAD) programs and a decreasing number of victims has a shockable rhythm as the first recorded. Therefore, IRC prepared an official statement proposing a wider and integrated approach, along with a detailed review of Italian laws. The statement, titled "A system to save lives",⁵ was officially presented by IRC Chairman at the Social Affairs Commission of the Italian Parliament during the formal experts auditions, on June 18th, 2019 (Fig. 1).

The proposed document included two intervention areas with five steps each.

Interventions to increase potential rescuers and bystander CPR:

- 1 Awareness campaigns on cardiac arrest and CPR.
- 2 Mandatory first aid education in schools for students of all ages according to their capabilities.
- 3 Mandatory BLS courses for students during the last year of the high school.
- 4 Mandatory BLS training while obtaining driving license.
- 5 Legal protection for lay rescuers performing bystander CPR and AED use with respect to all the events affecting the victim and other persons involved.

Interventions to improve early defibrillation:

- 1 Regional and national cardiac arrest registries managed by EMS and Health Departments.
- 2 Inventory of all AEDs currently available but unknown to EMS, offering maintenance service.
- 3 Increase AEDs density and registration through mandatory placement in specific sites and encouraging purchase through tax reduction (applied only if the devices are registered and available for public use).
- 4 A single nationwide smartphone application for "rescuer recruitment and AED location" based on local databases.
- 5 Mandatory protocol for dispatch-assisted pre-arrival instructions to initiate CPR (chest-compression only) and to operate an AED.

Politicians and public managers need support to improve CA community response. We encourage European Institutions and National Councils to share and establish similar local statements to increase survival after cardiac arrest. Support #SystemsSavingLives campaign.



Chamber of Deputies 30th July 2019

GAZZETTA UFFICIALE



DELLA REPUBBLICA ITALIANA

PARTE PRIMA

Roma - Venerdì, 13 agosto 2021

SI PUBBLICA TUTTI I
GIORNI NON FESTIVI

DIREZIONE E REDAZIONE PRESSO IL MINISTERO DELLA GIUSTIZIA - UFFICIO PUBBLICAZIONE LEGGI E DECRETI - VIA ARENULA, 70 - 00186 ROMA
AMMINISTRAZIONE PRESSO L'ISTITUTO POLIGRAFICO E ZECCA DELLO STATO - VIA SALARIA, 691 - 00138 ROMA - CENTRALINO 06-85061 - LIBRERIA DELLO STATO
PIAZZA G. VERDI, 1 - 00198 ROMA

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- 2^a **Serie speciale**: *Unione europea (pubblicata il lunedì e il giovedì)*
- 3^a **Serie speciale**: *Regioni (pubblicata il sabato)*
- 4^a **Serie speciale**: *Concorsi ed esami (pubblicata il martedì e il venerdì)*
- 5^a **Serie speciale**: *Contratti pubblici (pubblicata il lunedì, il mercoledì e il venerdì)*

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