



Kids Save Lives

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**EUROPEAN
RESUSCITATION
COUNCIL**



EUReCA
THREE
European Registry
of Cardiac arrest

Chair-Elect European Resuscitation Council
ILCOR Chair Social Media Working Group & BLS Task Force Member
Kids Save Lives campaign co-chair
EuReCa National Coordinator Italy
Star Wars, Star Trek & Back to The Future addicted
AI & Midjourney addicted



Italian
Resuscitation
Council



CONGRESSO NAZIONALE IRC 2023
Vicenza
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LA RIVOLUZIONE DEI SISTEMI

Great Scott !!!



#BackToTheFutureDay



Italian
Resuscitation
Council



CONGRESSO NAZIONALE IRC 2023
Vicenza
20 + 21 OTTOBRE
Vicenza Convention Centre

LA RIVOLUZIONE DEI SISTEMI

Dedicated to the Next Generation

Viola was born 14th February 2018

14th February 2018 her first photo with iPhone

20th April 2018 Viola slept with music from YouTube





viva!



World Restart A Heart 2023





Italian
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Council

Viva! 17th Oct 2023 Bologna



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Viva! 17th Oct 2023 Bologna



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LA RIVOLUZIONE DEI SISTEMI

Viva! 18th Oct 2023 Forlì





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Azienda Unità Sanitaria Locale
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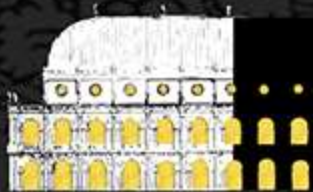
LA RIVOLUZIONE DEI SISTEMI

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LA RIVOLUZIONE DEI SISTEMI



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Kids Save Lives statement

“...**We recommend educating school children in resuscitation from the age of 12 years or earlier for 2 h per year.** If school children receive such training, they are also likely to teach this to their family at home – and they themselves will never forget. We will see not only an increase in the number of cardiac arrest survivors worldwide, but also the social benefits of enthusiastic and positive young people. They learn to help others. School children and teachers are important “**multipliers**” in both private and public settings and thus, in the longer term, the proportion of trained individuals in society will markedly increase, leading to **an increase in the overall rate of lay resuscitation....**”

Böttiger BW. Resuscitation 94 (2015) A5–A7

Kids Save Lives ERC



The 10 ERC principles – increasing survival with “Kids Save Lives”:

1. Everyone can save a life – even children can save a life.⁹⁻¹⁶
2. Up to two hours of CPR training a year for school children is enough.^{9-11,15,16}
3. Training must involve hands-on practice which may be augmented with theoretical – including virtual – learning.⁹ Such training has also been performed without sophisticated equipment or specific resuscitation manikins.
4. Annual training of school children should start by the age of 12 years or earlier.^{9-11,15}
5. Trained children should be encouraged to train other people. The homework for all children after such training should be: please train 10 other people within the next two weeks and report.
6. A wide range of people, including anaesthesiologists, cardiologists, emergency physicians, nurses, paramedics, medical and other healthcare students, trained teachers and many other volunteers can successfully teach school children in CPR – in schools, in hospitals and elsewhere.^{6,8,15,16}
7. The responsible people in the Ministries of Education and/or Ministries of Schools and other leading politicians of each country should implement a nationwide programme for teaching CPR to school children.¹²
8. Every National Resuscitation Council (NRC) or similar organisation should support the implementation of a national initiative and “Kids Save Lives” campaign in its country.
9. With “Kids Save Lives”, children will also learn relevant social responsibility and social skills.⁹⁻¹¹
10. National programmes that train school children in CPR can save more lives, improve productivity of society, and reduce healthcare costs.^{12,17}



Kids Save Lives – ERC position statement on school children education in CPR. August 2016

Kids Save Lives IRC Logo

The “KIDS SAVE LIVES” logo has been developed by the **Italian Resuscitation Council (IRC)**. We very much appreciate and acknowledge that the IRC is providing this logo for free to all participating in the “Kids Save Lives” campaign in Europe.



Kids Save Lives – ERC position statement on school children education in CPR. August 2016

Kids Save Lives Survey & Guidelines

RESUSCITATION 

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

Federico Semeraro   • Sabine Wingen • Daniel C. Schroeder • Hannes Ecker • Andrea Scapigliati •
Giuseppe Ristagno • Bernd W. Böttiger • [Show less](#)

Published: August 23, 2016 • DOI: <https://doi.org/10.1016/j.resuscitation.2016.08.014> •  Check for updates

RESUSCITATION 

KIDS SAVE LIVES—Three years of implementation in Europe

Federico Semeraro   • Sabine Wingen • Daniel C. Schroeder • ... Giuseppe Ristagno • Diana Cimpoesu
Bernd W. Böttiger • [Show all authors](#)

Published: August 08, 2018 • DOI: <https://doi.org/10.1016/j.resuscitation.2018.08.008> •  Check for updates

Available online at www.elsevier.com

Resuscitation 

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

European Resuscitation Council Guidelines 2021: Systems saving lives 

Federico Semeraro^{a,*}, Robert Greif^b, Bernd W Böttiger^c, Roman Burkart^d, Diana Cimpoesu^e, Marios Georgiou^f, Joyce Yeung^g, Freddy Lippert^h, Andrew S Lockeyⁱ, Theresa M. Olsavengen^j, Giuseppe Ristagno^k, Joachim Schlieber^l, Sebastian Schnaubelt^m, Andrea Scapigliatiⁿ, Koenraad G Monsieurs^o

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^c Department of Anesthesiology and Intensive Care Medicine, University Hospital of Cologne, Cologne, Germany
^d Intensive Care of Piusa Services, Bern, Switzerland
^e University of Medicine and Pharmacy (Dr. J. Ploașă), Emergency Department, Emergency County Hospital "Dr. Spicovici" Iași, Romania
^f American Medical Center Cyprus, Nicosia, Cyprus
^g Harvard Clinical Translational Research Center, Harvard Medical School, University of Harvard, Denver, US
^h Copenhagen Emergency Medical Services, University of Copenhagen, Copenhagen, Denmark
ⁱ Emergency Department, Colorado Royal Hospital, Fort Collins, US
^j Department of Anesthesiology, Ohio University Hospital, Newark, US
^k Department of Pathophysiology and Transplantation, University of Milan, Milan, Italy; Department of Anesthesiology, Intensive Care and Emergency, Poma Hospital (POCO) Cir. Grande Ospedale Maggiore Policlinico, Milan, Italy
^l Department of Anesthesiology and Intensive Care, ANKHA Trauma Center Salzburg, Salzburg, Austria
^m Department of Emergency Medicine, Medical University of Vienna, Vienna, Austria
ⁿ Institute of Anesthesiology and Intensive Care, Catholic University of the Sacred Heart, Fondazione Policlinico Universitario A. Gemelli (POCO), Rome, Italy
^o Emergency Department, Antwerp University Hospital and University of Antwerp, Belgium

Abstract
The European Resuscitation Council (ERC) has produced three systems saving lives guidelines, which are based on the 2020 International Consensus on Cardiopulmonary Resuscitation and Treatment Recommendations. The topics covered include chain of survival, resuscitation and recovery of consciousness, local health and transport services, emergency resuscitation, European Resuscitation Day, Road to Better Heart, ERG, ERC, ERC-ATLS, ATLS, strategic, team resuscitation, airway, Emergency Resuscitation, Inequality and Global Resuscitation, Airway, early warning teams, rapid response systems, and hospital emergency teams, cardiac arrest training 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 cardiac resuscitation (OHCA).

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<https://doi.org/10.1016/j.resuscitation.2021.03.010>

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Kids Save Lives Europe

European Map of CPR Education 2015



**KIDS
SAVE
LIVES**

A LEGISLATION
Belgium
Denmark
France
Italy
Portugal

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.

A SUGGESTION
Cyprus
Czech Republic
Germany
Hungary
Luxembourg
Malta
Netherlands
Norway
Poland
Romania
Russia
Slovenia
Swiss/Ticino
Turkey
United Kingdom

European Map of CPR Education 2018



**KIDS
SAVE
LIVES**

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Belgium
Denmark
France
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A SUGGESTION
Austria
Bulgaria and Hungary
Croatia
Cyprus
Czech Republic
Germany
Hungary
Ireland
Luxembourg
Malta
Netherlands
Norway
Poland
Romania
Russia
Slovenia
Swiss/Ticino
Turkey
United Kingdom

European Map of CPR Education 2020



**KIDS
SAVE
LIVES**

A LEGISLATION
Belgium
Denmark
France
Italy
Portugal
United Kingdom

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A SUGGESTION
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Bulgaria and Hungary
Croatia
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Czech Republic
Germany
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Ireland
Luxembourg
Malta
Netherlands
Norway
Poland
Romania
Russia
Slovenia
Spain
Sweden
Switzerland
Turkey

Systems Saving Lives

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

SYSTEMS SAVING LIVES GL 2021

RAISE AWARENESS ABOUT CPR AND DEFIBRILLATION

KEY EVIDENCE

Bystander CPR and defibrillation saves lives

Bystander CPR is not always provided

Public Access Defibrillators are not always readily accessible





KEY RECOMMENDATIONS

Raise awareness of the importance of bystander CPR and AEDs



Engage with World Restart a Heart Day

Train as many citizens as possible

Develop new and innovative systems and policies that will save more lives

SYSTEMS SAVING LIVES GL 2021

KIDS SAVE LIVES

KEY EVIDENCE



Mandatory nationwide training of schoolchildren has the highest and most important long term impact for improving bystander CPR rate

KEY RECOMMENDATIONS

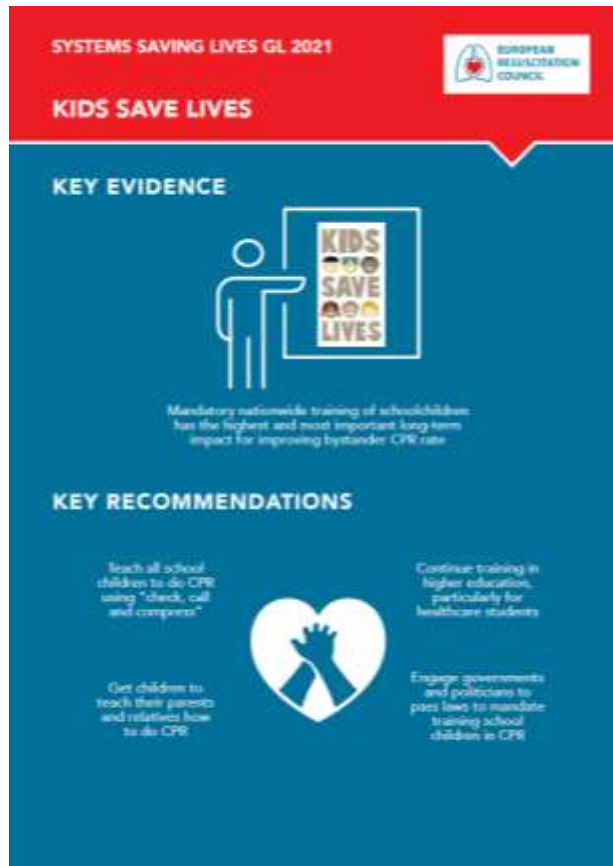
Teach all school children to do CPR using "check, call and compress"

Get children to teach their parents and relatives how to do CPR



Continue training in higher education, particularly for healthcare students

Engage governments and politicians to pass laws to mandate training school children in CPR



All schoolchildren should routinely receive CPR training each year

KEY EVIDENCE

Mandatory nationwide training of schoolchildren has the highest and most important long-term impact for improving bystander CPR rate.



KEY RECOMMENDATIONS

- Teach all school children to do CPR using “check, call and compress”.
- Get children to teach their parents and relatives how to do CPR.
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Kids Save Lives ILCOR

RESUSCITATION 188 (2023) 109772



Available online at [ScienceDirect](#)

Resuscitation

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



ILCOR Scientific Statement

KIDS SAVE LIVES: Basic Life Support Education for Schoolchildren: A Narrative Review and Scientific Statement From the International Liaison Committee on Resuscitation ☆



Daniel C. Schroeder, Federico Semeraro, Robert Greif, Janet Bray, Peter Morley, Michael Parr, Naomi Kondo Nakagawa, Taku Iwami, Simon-Richard Finke, Carolina Malta Hansen, Andrew Lockey, Marina Del Rios, Farhan Bhanji, Comilla Sasson, Stephen M. Schexnayder, Tommaso Scquizzato, Wolfgang A. Wetsch, Bernd W. Böttiger, on behalf of the International Liaison Committee on Resuscitation

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Detection of Cardiac Arrest

Highlight that cardiac arrest detection is the first key element of the chain of survival by using a simple algorithm
Teach young children how to assess for consciousness and normal breathing



Transmission of an Emergency Call

Begin teaching the emergency telephone number to young children from the age of 4 years
Teach how to alert the emergency service correctly (eg, address of the emergency) to schoolchildren from the age of 6 years



Chest Compression Depth and Rate

Young children should be taught the correct compression depth and rate, although they may not achieve these to guideline standards

For schoolchildren, focus on the key components of high-quality CPR: minimizing chest compression interruptions, correct chest compression rate and depth, and full chest recoil

The ability to practice BLS skills during training and retraining is critical

The use of cognitive aids (eg, metronomes, music at 100–120 beats/minute) or real time feedback devices is recommended



Automated External Defibrillation (AED)

Integrate AED education and practice in schoolchildren gradually
Emphasize proper positioning of the pads of an AED and order of BLS
Emphasize safety in delivering shock: "Do not touch the person."



Mouth-to-Mouth Ventilation

In young children, focus on compression-only CPR
Teach schoolchildren the technique, sequencing, and rates for breathing, taking into consideration some schoolchildren may have difficulty achieving ventilation volumes



Use of BLS Training Manikins and Multiplier Effect

Consider professional BLS training manikins during BLS-lessons to teach high-quality chest compressions
Distribute take-home BLS training kits for schoolchildren BLS training

Motivate schoolchildren to act as a multiplier

Use homework as an opportunity to consolidate knowledge and skills and teach others BLS



Duration of Training Sessions and Group Size

Use group sizes of 3–5 pupils for BLS training when possible
Ensure at least 2 hours of BLS training



Innovative Technology-Enhanced Learning and Social Media Tools for BLS Education

Use technology-enhanced learning, social media tools, and virtual learning environments to engage, motivate, and educate schoolchildren in BLS
Technology can be considered where resources or time do not permit formal instructor-led training or in combination with traditional training



Integration of Kids Save Lives in School Curricula

Promote schoolchildren BLS training as an effective instrument to increase survival after OHCA
Advocate to legislate schoolchildren BLS training as a graduation requirement at all levels of government

Use published principles by local resuscitation organizations as underlying foundation for schoolchildren BLS training



Who Should Teach?

Train schoolteachers as BLS instructors
Include teaching BLS in the curriculum when training student teachers at universities
KSL programs and resuscitation councils should serve as contact for schoolteachers and support them as BLS instructors



Appropriate Starting Age

Train all schoolchildren in BLS annually independent of their age
Arouse interest for BLS in young children from the age of four years



Motivational Aspects of Schoolchildren Towards BLS

Increase motivation for learning and performing BLS by explaining the importance of timely interventions
Identify and address barriers to performing BLS that are raised by schoolchildren



Development of Cognitive Skills

Use a combination of theoretical lessons and practical skill training
Emphasize practical skill training and blended learning



Retrieval of Theoretical Knowledge

Include evaluation of theoretical knowledge in BLS education
Provide annual theoretical and practical refresher training for maintenance of knowledge and skills



Role of Public Campaigns

Include schoolchildren in campaigns initiated to increase bystander CPR rates





Detection of Cardiac Arrest

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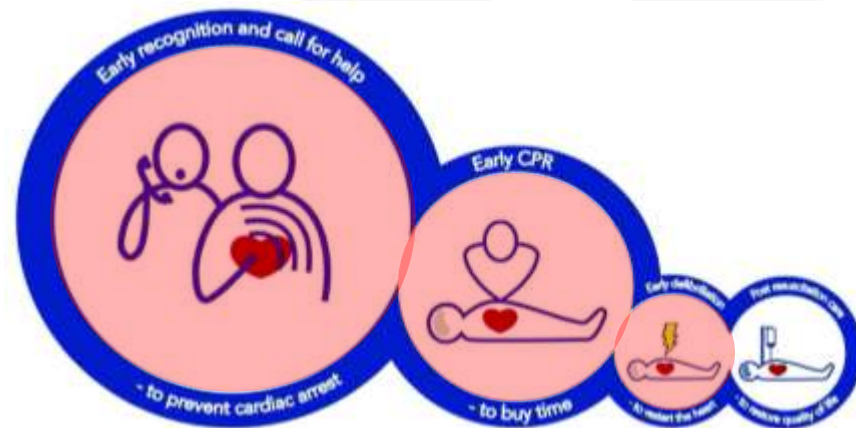
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KIDS SAVE LIVES

Role of Public Campaigns

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Kids Save Lives: imparare come salvare una vita



PROGETTATO DA:



Azienda Unità Sanitaria Locale
Bologna
Istituto delle Scienze Neurologiche IRCCS

IN COLLABORAZIONE CON:



CON IL CONTRIBUTO DI:



App



Obiettivi

L'obiettivo del progetto è creare una cultura della solidarietà negli studenti in modo da sfruttare la capacità di intervento in caso di arresto cardiaco con le tecnologie contemporanee e non only. Siamo nel fatto, la capacità di effettuare un defibrillatore semi automatico non essere apparenti sul serio.

Questo obiettivo è quello di portare a conoscenza della popolazione la possibilità di diventare un soccorritore occasionale utilizzando l'app DAE Responder.

Strumenti

Il progetto prevede l'implementazione e la validazione di una tematica modale di sensibilizzazione, informazione e formazione attraverso l'utilizzo di App educative e tecnologie di Realtà Virtuale (VR) e Spazio Reale (AR) e Spazio Misto (MR). Durante gli eventi di sensibilizzazione verranno organizzate stazioni di auto-apprendimento con la App "Un Picnic Mezzafato VR" dedicata alle Scuole Primarie e stazioni di auto-apprendimento con la App "School of CPR VR" dedicata alle Scuole Secondarie.

In parallelo, durante gli eventi formativi, verranno utilizzate presentazioni, filmati e stazioni di addestramento con manichini tradizionali per insegnare la tecnica di rianimazione cardiopolmonare e di costruzione della via aerea.



www.118er.it/ksl

PROGETTATO DA:



IN COLLABORAZIONE CON:



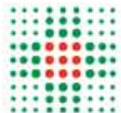
CON IL CONTRIBUTO DI:



Ministero dell'Istruzione e del Merito
Ufficio Scolastico Regionale per l'Emilia-Romagna



PROGETTATO DA



SERVIZIO SANITARIO REGIONALE
EMILIA-ROMAGNA
Azienda Unità Sanitaria Locale di Bologna

Istituto delle Scienze Neurologiche
Istituto di Ricovero e Cura a Carattere Scientifico



IN COLLABORAZIONE CON



Italian
Resuscitation
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FONDAZIONE DEL MONTE
DI BOLOGNA E RAVENNA
1473



**KIDS
SAVE
LIVES**

IMPARARE
COME SALVARE
UNA VITA

Cosa abbiamo fatto?



Apps for students, relatives and teachers



20 events (primary & secondary schools)

1566 students & teachers



100 Cardboard VR donation (150 for training)



Social media campaign



Italian
Resuscitation
Council

PROGETTATO DA:

Azienda Unità Sanitaria Locale
Bologna
Istituto delle Scienze Neurologiche IRCCS

IN COLLABORAZIONE CON:

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LA RIVOLUZIONE DEI SISTEMI



Lectures & Videos



Skills stations (CPR/AED & choking adult & pediatric)



VR experience



Homework



Italian
Resuscitation
Council

PROGETTATO DA:

Azienda Unità Sanitaria Locale
Bologna
Istituto delle Scienze Neurologiche IRCCS

IN COLLABORAZIONE CON:

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LA RIVOLUZIONE DEI SISTEMI

BLENDED LEARNING LECTURE & VIDEO



Italian
Resuscitation
Council

PROGETTATO DA:



IN COLLABORAZIONE CON:



CON IL CONTRIBUTO DI:



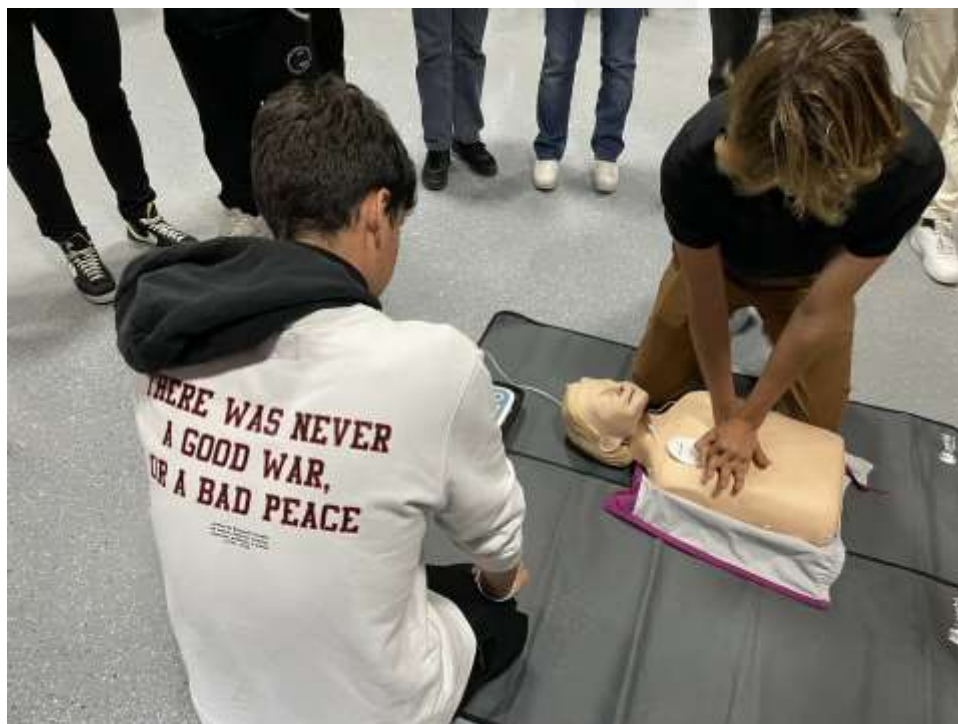
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Vicenza Convention Centre

LA RIVOLUZIONE DEI SISTEMI

BLENDED LEARNING



SKILL STATION



Italian
Resuscitation
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PROGETTATO DA:



IN COLLABORAZIONE CON:



CON IL CONTRIBUTO DI:



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Vicenza
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Vicenza Convention Centre

LA RIVOLUZIONE DEI SISTEMI

BLENDING LEARNING VR EXPERIENCE



Italian
Resuscitation
Council

PROGETTATO DA:



IN COLLABORAZIONE CON:



CON IL CONTRIBUTO DI:



LA RIVOLUZIONE DEI SISTEMI

BLENDED LEARNING

6 - 10 years

11 - 18 years

> 18 years



A breathtaking picnic



A breathtaking Picnic VR



School of CPR VR



DAE Responder



Italian
Resuscitation
Council



Azienda Unità Sanitaria Locale
Bologna
Istituto delle Scienze Neurologiche IRCCS



IN COLLABORAZIONE CON:
Italian
Resuscitation
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CON IL CONTRIBUTO DI:
FONDAZIONE DEL MONTE
DI BOLOGNA E RAVENNA
1423



CONGRESSO NAZIONALE IRC 2023
Vicenza
20 - 21 OTTOBRE
Vicenza Convention Centre

LA RIVOLUZIONE DEI SISTEMI

A Breathtaking Picnic

App / Tale for Kids (6-10 years)



VR PRIMARY SCHOOLS



VR PRIMARY SCHOOLS



Italian
Resuscitation
Council

PROGETTATO DA:



Azienda Unità Sanitaria Locale
Bologna
Istituto delle Scienze Neurologiche IRCCS

IN COLLABORAZIONE CON:



Italian
Resuscitation
Council

CON IL CONTRIBUTO DI:



FONDAZIONE DEL MONTE
DI BOLOGNA E RAVENNA
1473



CONGRESSO NAZIONALE IRC 2023
Vicenza
20 + 21 OTTOBRE
Vicenza Convention Centre

LA RIVOLUZIONE DEI SISTEMI

CLAP YOUR HANDS TO START CPR

PROGETTATO DA

SERVIZIO SANITARIO REGIONALE
EMILIA-ROMAGNA
Azienda Unità Sanitaria Locale di Bologna

Istituto delle Scienze Neurologiche
Istituto di Ricovero e Cura a Carattere Scientifico

IN COLLABORAZIONE CON

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IRC Italian Resuscitation Council

CON IL CONTRIBUTO DI

FONDAZIONE DEL MONTE
DI BOLOGNA E RAVENNA
1473

**KIDS
SAVE
LIVES**

IMPARARE
COME SALVARE
UNA VITA

Un pic-nic...
MOZZAFIATO VR!

VR FOR SECONDARY SCHOOLS



DOES IT WORKS ?



Resuscitation
Volume 182, January 2023, 109675



Letter to the Editor

Kids Save Lives: A blended learning approach to improve engagement of schoolchildren

Federico Semeraro  , Alessandro Monesi, Giovanni Gordini, Donatella Del Giudice, Guglielmo Imbriaco



DOES IT WORKS ? Part 2



Original Investigation | Health Policy

Training in Basic Life Support and Bystander-Performed Cardiopulmonary Resuscitation and Survival in Out-of-Hospital Cardiac Arrests in Denmark, 2005 to 2019

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That's all Folks!

*"A life is like a garden.
Perfect moments can be
had, but not preserved,
except in memory. LLAP"*

*-Leonard Nimoy
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