

# **Kids Save Lives**

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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







# #BackToTheFutureDay





-





# **Dedicated to the Next Generation**

# Viola was born 14<sup>th</sup> February 2018

## 14<sup>th</sup> February 2018 her first photo with iPhone

# 20<sup>th</sup> April 2018 Viola slept with music from YouTube







# World Restart A Heart 2023







ERC - European Resuscitation Council

■ Learn to save lives. On #WorldRestartAHeart Day, learn CPR's three basic steps and sign up for training near you. www.savingalife.com #CPR #Resuscitation #RESUS23 #savelives UEFA









## Viva! 17<sup>th</sup> Oct 2023 Bologna











## Viva! 17<sup>th</sup> Oct 2023 Bologna











# Viva! 18<sup>th</sup> Oct 2023 Forlì







HH



## Viva! 19th Oct 2023 Bologna

Azienda Unità Sanitaria Locale Bologna Istituto delle Scienze Neurologiche IRCCS













## **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**

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"Hands that help - Training children is training for life"

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









# **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.<sup>8-16</sup>
- Up to two hours of CPR training a year for school children is enough.<sup>9-11,15,16</sup>
- Training must involve hands-on practice which may be augmented with theoretical – including virtual – learning.<sup>9</sup> Such training has also been performed without sophisticated equipment or specific resuscitation manikins.
- Annual training of school children should start by the age of 12 years or earlier.<sup>9–11,15</sup>
- 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. 68:15:16
- 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.<sup>12</sup>
- Every National Resuscitation Council (NRC) or similar organisation should support the implementation of a national initiative and "Kids Save Lives" campaign in its country.
- With "Kids Save Lives", children will also learn relevant social responsibility and social skills.<sup>(0-11)</sup>
- National programmes that train school children in CPR can save more lives, improve productivity of society, and reduce healthcare costs.<sup>12,17</sup>



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

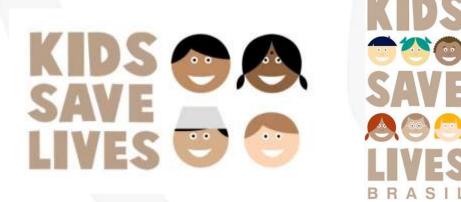






# **Kids Save Lives IRC Logo**

KIDS COC SAVE COC LIVES 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 Cimposa

Bernd W. Böttiger . Show all authors

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



#### European Resuscitation Council Guidelines 2021: Systems saving lives

Federico Semeraro\* ', Robert Greit\*, Bernd W Böltiger', Roman Burkart\*, Diana Cimpoesu", Marios Georgiou', Joyce Yeung\*, Freddy Lippert\*, Andrew S Lockey', Theresa M. Olasveengen', Gluseppe Ristagno\* Joachim Schlieber<sup>1</sup>, Sebastian Schnaubelt<sup>11</sup>, Andrea Scapigliati<sup>11</sup> Koenraad G Monsieurs"

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#### Abstract

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# **Kids Save Lives Europe**

#### European Map of CPR Education 2015



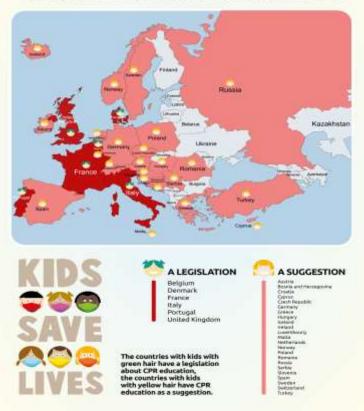
#### European Map of CPR Education 2018



with yellow hair have CPR

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## European Map of CPR Education 2020



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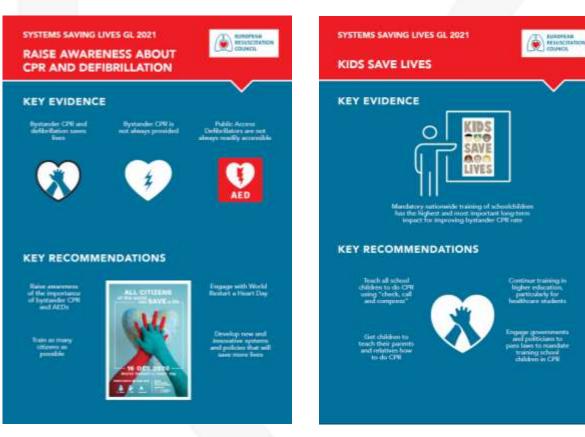
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IRC

Resuscitation Council

# **Systems Saving Lives**







SYSTEMS SAVING LIVES GL 2021 KIDS SAVE LIVES **KEY EVIDENCE** highest and most important ke **KEY RECOMMENDATIONS** 

# All schoolchildren should routinely receive CPR training

## **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







# **Kids Save Lives ILCOR**

#### RESUBCITATION 188 (2023) 109772



#### **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 (eq. 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 quideline 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

#### TROADSTROADSTROADS



EUROPEAN

COUNCIL

#### 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

\*\*\*@AOA\*\*\*@AOA\*\*\*@AOA



#### **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 TROADA TROADA TROADA



#### 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

#### 111 -

#### 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

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#### Development of Cognitive Skills

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

## 3

#### **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

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#### **Role of Public** Campaigns

Include schoolchildren in campaigns. initiated to increase bystander CPR rates

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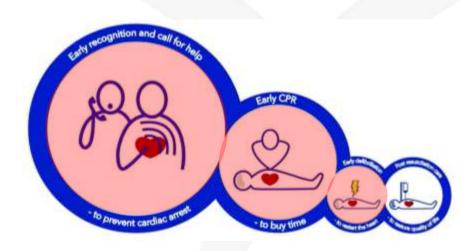
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## KIDS ASAVE LIVES

## Role of Public Campaigns

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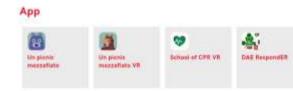
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## Kids Save Lives: imparare come salvare una vita





www.118er.it/ksl



#### Objettivi

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Resuscitation

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#### PROGETTATO DA:

Azienda Unità Sanitaria Locale Bologna Istituto delle Scienze Neurologiche IRCCS

#### IN COLLABORAZIONE CON:

#### CON IL CONTRIBUTO DI:



FONDAZIONE DEL MONTE DI BOLOGNA E RAVENNA





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



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LIVES





PROGETTATO DA

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

Italian

Council

Resuscitation

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IRC



#### FONDAZIONE DEL MONTE DI BOLOGNA E RAVENNA 1473

SCHOOL OF CPR VR 118

# IMPARARE Come Salvare **UNAVITA**

Istituto delle Scienze Neurologiche

Istituto di Ricovero e Cura a Carattere Scientifico

# **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







FONDAZIONE DEL MONTE DI BOLDUNA E RAVEDINA







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



## VR experience



## Homework









FONDAZIONE DEL MONTE DE BOLDUNA E RAVENIA



# BLENDED LEARNING LECTURE & VIDEO



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a Locale IRC Italian Resuscitation



FONDAZIONE DEL MONTE DI BOLIZINA E RAVENIA 1421



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ta Locale Italian Resuscitation

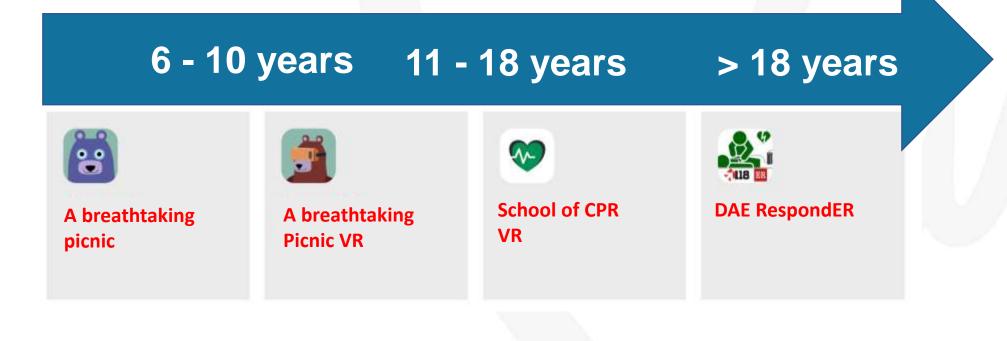


FONDAZIONE DEL MONTE DE BOLDENA E RAVEDIA



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## **BLENDED LEARNING**







In COLLABORALISHE CON Italian Resuscitation Council



FONDAZIONE DEL MONTE



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# A Breathtaking Picnic

App / Tale for Kids (6-10 years)







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LA RIVOLUZIONE DEI SISTEMI

## **VR PRIMARY SCHOOLS**





Hill







FONDAZIONE DEL MONTE DI BOLDENA E RAVENIA



## **VR PRIMARY SCHOOLS**





#### Azienda Unita Sanitaria Locale Bologna Intera del Siene Recongole (KII)

aria Locale (ICC) Italian IRC Council



FONDAZIONE DEL MONTE DE BOLDUNA E RAVENIA



LA RIVOLUZIONE DEI SISTEMI

## **CLAP YOUR HANDS TO START CPR**







## **VR FOR SECONDARY SCHOOLS**









Locale Inc. Resuscitation



FONDAZIONE DEL MONTE DI BOLDENA E RAVEDIA



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## **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

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

> -Leonard Nimoy @TheRealNimoy