RESUS4KIDS: Paediatric Life Support for Healthcare Rescuers


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Acknowledgements

- NSW Kids and Families – Joanna Holt and Les White
- Executive sponsors - Elizabeth Koff and Trish Davidson
- Phase 1 (Jan – June 2009) project team – Marino Festa, Julie Howse
- Phase 2 (Sept 2010 – June 2011) project team – Kathryn Green, Kelly Dart, Melinda Simpson-Collins
- Phase 3 (Current) project team - Anne Sivell, Natalie Law, Jessica Hennessy, Danielle Boss, Cassandra Styles, Anna Pascoe, Luke Marks, Amanda Fryer
- Phase 1, 2 and 3 Steering Committees
- New South Wales Child Health Network Clinical Nurse Consultants
- RESUS4KIDS instructors (the enthusiastic experts) and their managers

Funding for all 3 stages of the project has been provided by NSW Health
Presentation Outline

• Overview of the RESUS4KIDS Program
• Case study: Northern Child Health Network
• RESUS4KIDS Promotion video.
Paediatric Resuscitation

- Required competency of healthcare workers is the recognition and response of a paediatric collapse

- Staff may lack the knowledge and clinical skills to respond to these rare events

- The responsibility for being trained in paediatric cardiopulmonary resuscitation rests both with the employer and the employee
Guideline: The Australian Resuscitation Council
Guideline 12: Paediatric Advanced Life Support

Advance life Support: resuscitation with the aid of equipment and drugs to restore and maintain airway, breathing and circulation to infants and children in a hospital or other environment where cardiopulmonary arrest may be encountered.

Guideline 12.1 ARC 2010

No course available that teaches this guideline
RESUS4KIDS

- Focusing on the first **10 minutes** of a paediatric collapse
- Based on the current ARC guidelines
- **Free** to all NSW Health employees
- Delivered in two components: an e-learning module followed by a **short practical course** which is taught using low fidelity simulation
- Taught by local trainers in local hospitals
- Includes human factors training
THE RESUS4KIDS PROGRAM

Mandatory e-Learning (90 minutes)
Learning objectives:
• Respond to an emergency involving a child or infant using the seven steps in the DRSABC (Danger, Response, Secure, Airway, Breathing, Circulation, Drugs) model for Healthcare Rescuer.
• Understand the techniques required to provide effective rescue breaths and cardiac compressions.
• Respond to a choking child.
• Apply a range of advanced airway support devices including self-inflating bag and mask, nasopharyngeal airway, and oropharyngeal airway.
• Correctly identify the three main cardiac arrest rhythms.
• Follow advanced life support procedures using defibrillation and drugs.

The Short Practical Course (90 minutes)
Human factors training (30 minutes)
Learning objectives:
• Displaying and using names wherever possible.
• Recognising a team leader.
• Team member participation.
• Allocating and accepting roles.
• Conduct, clear communication, closed loop communication.

Pause and discuss scenario-based teaching (60 minutes)
Learning objectives:
• Manage an infant's/child's airway.
• Perform effective breathing.
• Demonstrate effective cardiac compressions.
• Recognition and initial management of shockable/non-shockable cardiac rhythms.
• Demonstrate a knowledge of safe defibrillation.

Optional e-Learning (90 minutes)
• Intravenous access
  To understand the theory of how to establish intravenous access to the circulatory system in order to administer drugs and fluids.
• 4Is and 4Ts
  To extend learners knowledge from the RESUS4KIDS e-learning in relation to the reversible causes of paediatric arrest.
• Abnormal cardiac rhythms
  - Stable bradycardia
  - Unstable bradycardia
  - Sinus tachycardia
  - Supraventricular tachycardia
  - Ventricular tachycardia

Train the Trainer Course (90 minutes)
To enable educators to teach the Short practical course.
Facilitated by a Super Trainer.

Super Trainer Course (60 minutes)
To enable RESUS4KIDS trainers to teach the Train the Trainer course.
Facilitated by a Chief Trainer.

Train the Trainer e-Learning refresher Course (30 minutes)
Optional e-Learning module for trainers to refresh course content and specific learning objectives prior to teaching a short practical course.

RESUS4KIDS Instructor Development Day (8 hours)
A simulation centre-based course for RESUS4KIDS Trainers and Super Trainers who have taught at least three short practical courses.
Learning objectives:
• Understand the educational basis and structure of the short practical course.
• Be familiar with the content of the new train the trainer course.
• Update paediatric resuscitation skills.
• Be able to deliver the short practical course to a variety of participants, including those with challenging behaviours.

RESUS4KIDS Instructor Development site
www.resus4kids.com.au
Project Manager: Dr Fenton O'Leary  fenton.oleary@health.nsw.gov.au
e-Learning

- Mandatory 90 minute e-Learning
- Optional advanced modules
  - IO Access
  - 4H’s and 4T’s
  - Abnormal Cardiac Rhythms
- Train the Trainer Refresher e-Learning
Practical Courses

- **Short Practical Course (90 minutes in length)**
- **Train the Trainer**
- **Super Trainer**
- **RESUS4KIDS Instructor Development Day**
Facilities that have implemented RESUS4KIDS

- All Local Health Districts in New South Wales
- New South Wales Ambulance Service
- Sunshine Coast Hospital and Health Service, Queensland
- Metro South Hospital and Health Service, Queensland
- The Women’s and Children’s Hospital, South Australia
- University of Newcastle – Undergraduate Medicine and Nursing
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RESULTS

As of May 2013

• 14,195 e-learning

• 7,455 Short Practical Course

• 789 RESUS4KIDS Instructors

• 36 Super Trainers
John Hunter Children’s Hospital – Newcastle NSW

- Paediatric tertiary referral hospital
- 113 tertiary beds
- One of three children’s hospitals in NSW, the only children’s hospital in Australia located outside of a capital city.
Implementation

- RESUS4KIDS mandatory for all paediatric nursing staff
- Managerial support – DON, NUM’s, medical
- Rapid implementation
- Opportunistic sessions
- Staff allocated and notified of the session they were expected to attend
- Run with DETECT Junior in 2013
Kings Canyon - 2012
The Maitland Hospital - NSW

- Rural referral hospital
- 12-16 paediatric beds
The University of Newcastle

- 2013 - compulsory part of the undergraduate nursing degree
- Compulsory component of 4th year medical student requirements
• RESUS4KIDS Video
For more information on RESUS4KIDS please visit our website
www.resus4kids.com.au
Or email
resus4kids@chw.edu.au