



## MANUAL VENTILATION TRAINING DEVICE

### BETTER TRAINING TO SAVE LIVES

In 2019, the American Heart Association created a new training programme (RQI) using devices giving real-time feedback on the quality of ventilation and chest compressions, which has resulted in a **20% improvement in the chances of survival**.<sup>1</sup>

**First responders feel more confident:** **82%** of the people trained through the RQI programme feel more comfortable practising CPR and believe that their skills have improved.<sup>1</sup>

### THE NEED

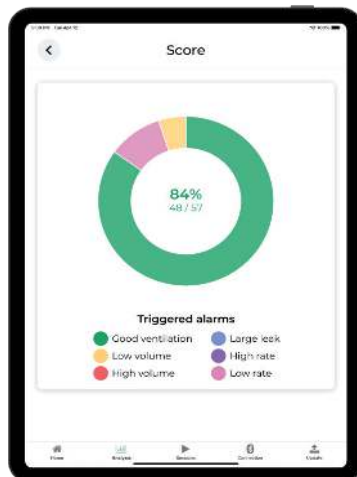
- **Ventilation is tough to teach:** Studies estimate that for between **35 and 85% of patients**, the mask is not properly positioned and kept in place, causing **excessive leaks**.<sup>2</sup> In 30% of patients air is insufflated into the stomach and **in 80% hyperventilation occurs**.<sup>3</sup>
- **Currently, manual ventilation training is inadequate:** The only way that trainers can gauge whether ventilation is effective is by watching the chest rise, which in no way indicates whether the correct volume has been administered at the appropriate frequency. Training manikins are too imprecise and inefficient and do not identify airway management problems.

### THE SOLUTION

**EOLife X** is an innovative training device that allows trainees to acquire good airway management and ventilation techniques regardless of the trainee's level of experience.

**EOLife X** provides feedback on leaks and its bar graph displays the volumes inhaled and exhaled in real time, teaching you how to:

- **Position and seal the mask more effectively**
- **Use the jaw-thrust manoeuvre correctly to avoid gastric insufflation**
- **Administer the right amount of oxygen at the right frequency based on the patient's profile**



The EOLife Connect app provides users and trainers with the detail they need to closely monitor:

- **Their overall performance**
- **The trainee's progress throughout the course**
- **Details of the volumes insufflated**
- **Details of how well leaks are managed**
- **Details of ventilation frequencies**

<sup>1</sup> M. P. Chang et al., "Association of ventilation with outcomes from out-of-hospital cardiac arrest," Resuscitation, vol. 141, no. February, pp. 174–181, 2019, doi: 10.1016/j.resuscitation.2019.05.006.

<sup>2</sup> Christopher Newell, Scott Grier and Jasmeet Soar. Airway and ventilation management during cardiopulmonary resuscitation and after successful resuscitation. Critical Care volume 22, Article number: 190 (2018)

<sup>3</sup> Khoury A, Sall FS, De Luca A, Pugin A, Pili-Floury S, Pazart L, Capellier G. Evaluation of Bag-Valve-Mask Ventilation in Manikin Studies: What Are the Current Limitations? Biomed Res Int. 2016; 2016: 4521767

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