

METHODOLOGY

An infant manikin (Brayden Baby Pro with the associated Brayden Online App, Innosonian) was used for an infant resuscitation scenario to assess CPR performance by paediatric nurses. Current ERC Guidelines were used.

1. Five rescue breaths followed by three cycles (15:2) of infant CPR. No feedback from the manikin was provided and no debrief.
2. A short period of guided practice with the real time feedback from the manikin.
3. Repetition of stage 1. A questionnaire to assess ease of use of the manikin was completed by each nurse individually at the end of stage 3 using a Likert 10-point score.

The overall CPR quality (%) and individual numeric CPR component data were recorded pre- & post- practice (Fig 1).

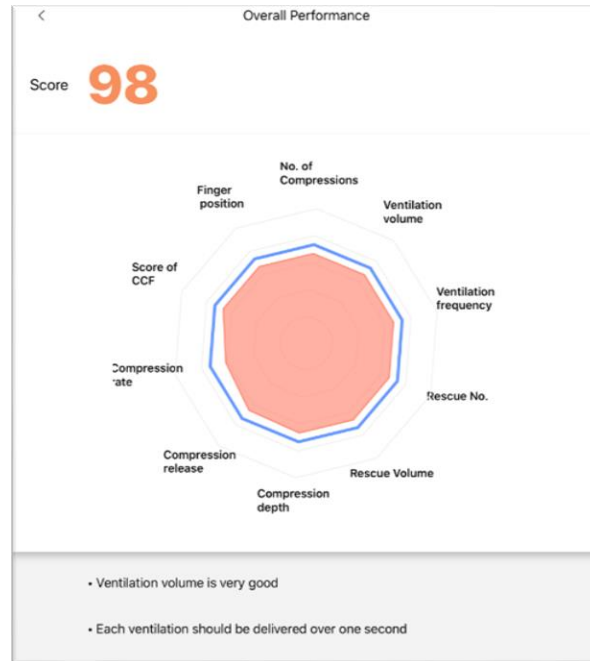
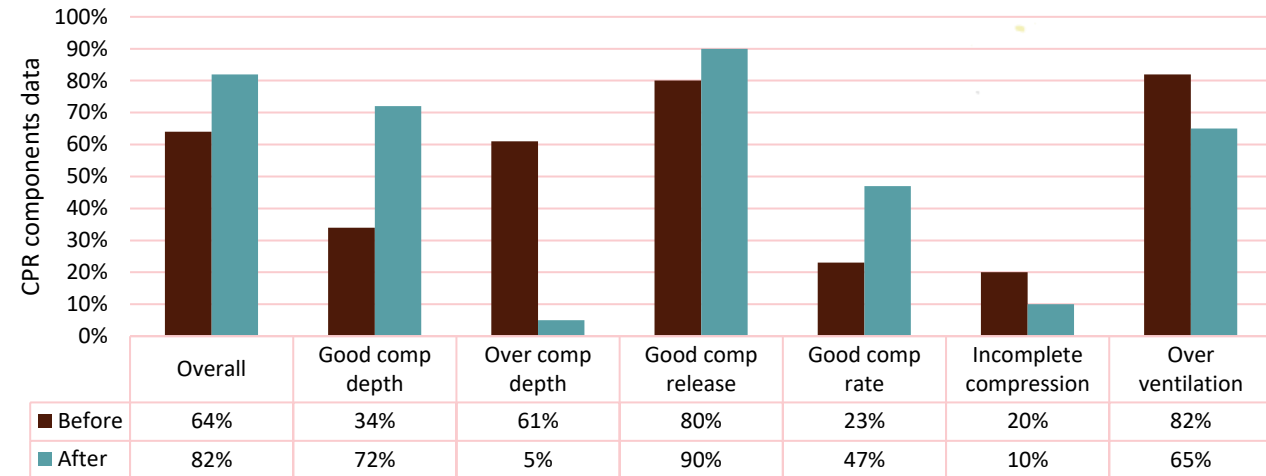


Fig. 1. Debrief screen via Brayden iPad App

RESULTS



CONCLUSION

Continual quality assurance of CPR performance using real time objective feedback via visual and numeric means, together with repetitive practical training, enhances the quality of infant CPR. The results show guided and free practice with visual feedback when used for infant CPR training improves the overall performance. These key components of the paediatric CPR guidelines ensure high-quality infant CPR as they are essential for maintaining vital organ perfusion. These results and the positive questionnaire results of 9.2 (SD 1.9) suggest the infant manikin helped to significantly improve performance and is easy to understand and use.