

Quality CPR training using Self-Directed Learning & Assessment

BRAVDEN ONLINE

Train and maintain good quality CPR skills – at a time convenient for you using innovative Self-Directed Learning (SDL) technology.

The focus for CPR training should always be to teach good quality CPR to ensure it is performed correctly when required and thereby help improve patient survival. This technique requires regular practice. It is also important that CPR skills are frequently re-evaluated and re-assessed to help maintain a high level of proficiency. This is especially important in hospitals and healthcare institutions where the quality of CPR performed by healthcare professionals should always be as high as possible.

As a result of this need, many institutions around the World are investigating the need to perform self-directed quality CPR training at a time convenient for the student where traditional CPR classroom-based instruction is not appropriate.

Brayden ONLINE offers an innovative SDL solution.

LIMITATIONS OF TRADITIONAL CLASSROOM-BASED CPR INSTRUCTION

- * Usually undertaken according to a pre-arranged schedule which might not be convenient for the students/learners.
- * Usually involves groups of students in a single room. This is now considered a cross-infection risk.
- * Undertaking pre-arranged schedules of training requires budget planning in advance.
- * Lack of equipment might mean sufficient individual practice is not carried out in the training time allowed.
- * Students/learners often vary in skill and experience. Standardised classroom-based training cannot cater for this.
- * The classroom usually needs to be relatively large to enable groups of students/learners to be taught at the same time.
- * Individual CPR skill feedback and analysis is often hard to achieve when many students/learners are being taught at the same time.
- * Monitoring student/learner attendance and performance at classroom-based events can often be time-consuming for the instructor.
- * Providing and issuing completion certificates for students/learners can also be time consuming for instructors.

WHY [BRAYDEN ONLINE] PROVIDES AN INNOVATIVE SDL SOLUTION



- * Allows for flexible CPR training at a time convenient for all students/learners.
- * Allows training in an environment which assures social distancing with no face to face contact.
- * Training is objective and in accordance with the needs of the student/learner to ensure good quality CPR.
- * Allows CPR training practice appropriate for their individual training needs.
- * Good quality CPR training can be carried out with little input from instructors thus freeing up valuable instructor time.
- * Our SDL solution provides a full analysis and debrief of the CPR skills performed saving instructor time.
- * Allows individual training records for student/learner CPR performance to be stored as required.
- * Allows customised CPR certificates to be created and issued automatically upon successful completion of assessments.
- * Customised CPR certificates issued immediately upon completion of training - saving Instructor time.

WHAT DOES BRAYDEN ONLINE CONSIST OF :

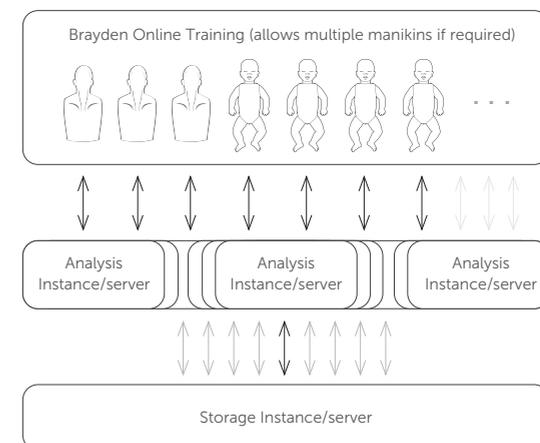
A. Items needed for Brayden ONLINE



iPad or Laptop plus App

Adult - Brayden Pro manikin
Infant - Brayden Baby Pro manikin

B. Cloud server set-up (training data management)



Reliable data management with multiple cloud server security

Brayden ONLINE is based on an iOS Application and uses a cloud server platform.

Brayden ONLINE was developed with help from CPR experts from around the World. This help was especially important for the CPR scoring algorithm, to ensure assessment are accurate and according to relevant Guidelines. As a result, good quality CPR training is possible without an instructor, and provides consistent and reliable evaluation and performance scoring.



WHAT DOES Brayden ONLINE OFFER :

Instructor/Trainer

Instructors/trainers can tailor their own CPR training protocol as required by their institution. Also they can determine overall scores achieved by students/learners as well as fully analyse all aspects of CPR performance when needed. Additionally, they can fully manage their student/learner CPR training in an organised and systematic way.

Enable CPR training which is consistent with international guidelines

The system has been designed to allow institutions to choose and use CPR Guidelines which are appropriate for them, such as the American Heart Association (AHA) and the European Resuscitation Council (ERC) Guidelines. This is especially important for infant CPR where Guidelines can differ.

CPR training protocols can be configured to suit the educational needs of the institution

CPR training scenarios and the Pass Mark scoring criteria can be tailored to the needs of the institution.

Training results can be stored and reviewed as required easily

Individual student/learner CPR metrics (score, depth, rate, CCF etc) and basic information (name, affiliation, email etc) can be analysed and stored as required (27 separate items). In addition, the database can be downloaded entirely or can be edited so only required information is selected and managed.

Provision of CPR certificates which can be customised for the customers institution

Student/Learner

Students/Learners can plan their CPR training according to their timetable and can practice as often as they need. They can see real-time feedback of their CPR as they perform it and can later thoroughly analyse their performance at their own pace to determine how to improve. The convenience of the SDL solution allows them to practice and maintain high quality CPR skills as often as they need.

Designed to provide Self-Directed Learning and Self-Assessment

Students/learners can independently train themselves and can evaluate their performance via the assessment mode.

Real-time feedback helps improve good quality CPR skills

Good quality CPR training is enhanced by using easy to use feedback which students/learners can quickly understand.

- Chest compression related feedback: depth, rate, release/recoil, hand position, graphical timeline of depth & rate.
- Ventilation related feedback: correct volume, under/over ventilation, ventilation rate
- Overall CPR quality: Overall CPR quality score and CPR quality graph over time.

Sophisticated ability to analyse data allowing students/learners to interpret their CPR performance quickly and easily

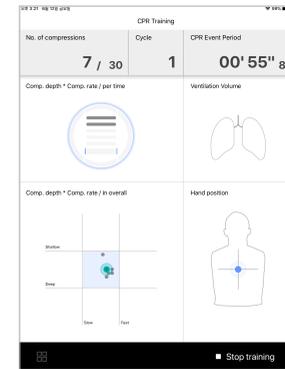
During and after training, students/learners can quickly judge their performance against important CPR metrics for good quality CPR (overall score and 8 separate metrics for adult and 10 for infant (ERC)). Additionally, performance during multiple cycles of CPR can also be analyzed.



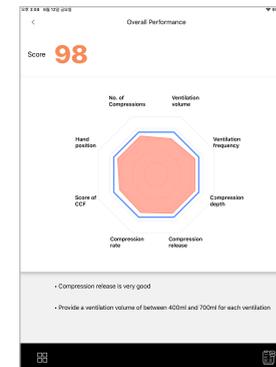
Able to connect with Brayden Pro (adult) manikin & Brayden Baby Pro (infant) manikin



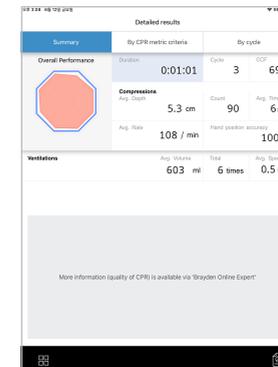
Can be used to support various training scenarios



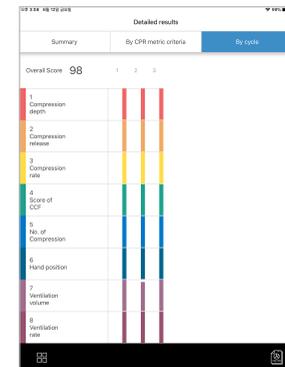
Real-time feedback of CPR performance



Overall score and 'spider chart' showing 8 CPR metrics (10 for infant – ERC)



Detailed numerical analysis of results



Analysis of performance (by CPR cycle)

WHAT USERS SAY | from Europe

"I regularly use Brayden manikins (adult and infant) to teach CPR at my Hospital near London as their intuitive real-time feedback is easy to use and helps students perfect good quality CPR. I became aware that Innosonian were developing an SDL version and have been able to help them develop the product over the last 18 months. I believe it meets the needs of BLS training in the UK (and Europe) and the recent COVID-19 crisis means that this type of training which minimises face to face contact is more relevant than ever. The Innosonian system appears to also offer a cost effective solution. I'm currently trialling at my hospital but intend to use with staff training later this year."



(Rob Morrison / Senior Resuscitation Officer & Service Manager / Darent Valley Hospital, UK)

"Our Hospital decided to partner with Innosonian because they had a solution to our problem. We needed a Self Directed Learning system where nursing staff can perform CPR-BLS tests independently without guidance from an Instructor. The test results needed to automatically flow into our Hospital Learning Management System which the Innosonian system allows. We greatly appreciate our cooperation with Innosonian because they respond efficiently with our training needs."



(Sylvain Haekens / Head of the Training & Development department / Ziekenhuis Oost / Limburg Hospital / Genk at Belgium)

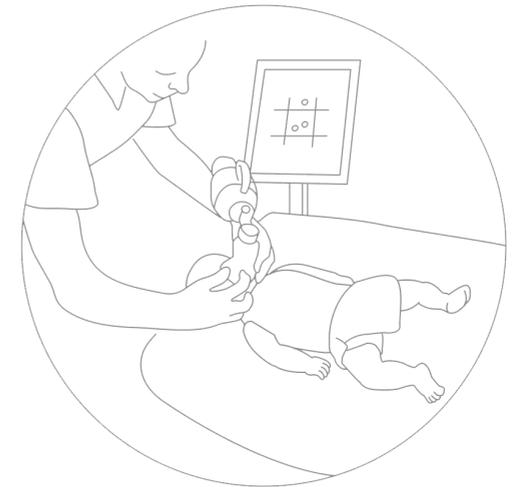
"Having been involved in the development of the Brayden® self-directed learning package for Basic Life Support, I am confident that this system offers an affordable and viable opportunity for individuals to maintain their skills in CPR. The Brayden system is the best I have worked with in providing objective feedback to learners, which directly influences the quality of their basic resuscitation in practice. Importantly in the current climate, this system also allows learners to complete annual CPR assessments without the need for face-to-face contact, thereby reducing the risk of acquiring or transmitting any viruses or infections."



(Kevin Mackie / Resuscitation Officer and Director of KCM Training Limited)

"UZ Leuven Hospital started working with Innosonian 3 years ago to develop a Self-Directed Learning system for BLS instruction which also allows integration into our Hospital Learning Management System (LMS). We found a good partner with Innosonian who could offer state of the art manikins and an easy to use App which gives detailed feedback information (ventilation, compression etc) at a level we had not seen before with rival systems. Even for professionals this information is important. We now use the system routinely and it runs smoothly. Any issues we experience are usually dealt with quickly and correctly and the system is proving to be cost effective. With over 3,000 Doctor and Nursing staff doing BLS assessments every year this is a crucial tool for us."

(Joris Wouters / UZ Leuven Hospital / Belgium)



BRAYDEN ONLINE. QUALITY CPR TRAINING USING SELF-DIRECTED LEARNING AND ASSESSMENT

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