



Parallel Simulator



The initial and continuous education and training of healthcare professionals is of global wide importance and a priority for many institutions.

Potential adverse incidents unfortunately, but commonly experienced with mechanical circulatory and pulmonary support therapies such as ECMO can now be effectively prepared for by exposure to simulated and highly realistic scenarios. This pre-exposure is a widely recognised effective training method that is growing in popularity, as advances in technology improve the fidelity of the experience.

Introducing the Parallel Simulator, a highly portable training system.

It comprises of a small simulation hub and two separate high resolution tablet PC's, one of which is designated as the Control and the other as the Monitor. Additional Monitor tablets can also be added to the same simulation session to accommodate larger groups.

So how does it work?

Using a wireless protocol, the software held on the Control tablet allows an instructor to configure a scenario by specifying physiological parameters to replicate adult, paediatric or neonatal patients.

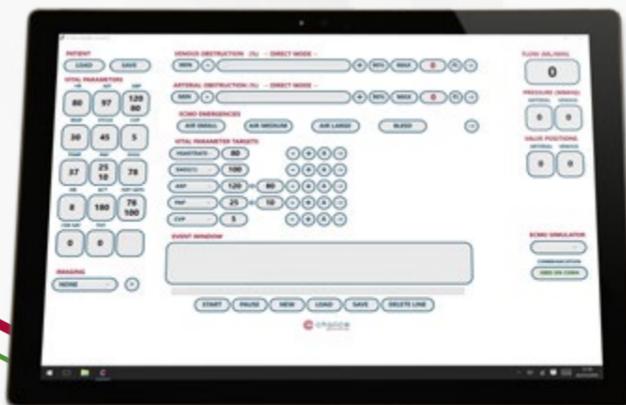
A trainer has the ability to either adjust a single parameter or multiple parameters concurrently, to which the simulation hub responds to the instructed changes and instantly relays them to the Monitor tablet, allowing the trainee to re-evaluate the situation and take corrective action if necessary.

Patient physiological parameters include:

- Arterial & Central Venous Pressure,
- Heart Rate & Respiratory Rate,
- Temperature,
- Mixed Venous & Arterial Saturation,
- End Tidal Carbon Dioxide Level,
- Fluid Flow Rate.



Control



Monitor



Benefits of the system include:

- Wireless communication allows the trainer to be in a separate observation room to the students if required to,
- Compact and portable for easy movement and storage,
- A function to cue up several related events to occur simultaneously,
- Programme in and recall 'favourite' common scenarios,
- The ability to upload X-Ray images for inspection.

The Simulation hub weighs less than 2kg, measuring only 20cm x 18cm x 13cm and is supplied with a purpose built transport case.

The Parallel simulates common scenarios such as hypovolemic incident through an unexpected bleed, air emboli entrapment, restricted Arterial and Venous return and changes to the Central Venous Pressure.

Support and Maintenance is offered through a Service Contract which provides the following benefits:

- Remote technical assistance to both Control and Monitor devices,
- Access to software upgrades and future developments,
- Cleaning and reconfiguration of the simulation hub,
- Repair or replacement of damaged/worn parts,
- Loan of equipment during any planned or unplanned maintenance.



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