



Parallel Simulator



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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 is designated as the 'Control' and the other as the 'Monitor'. To accommodate larger groups, additional Monitor tablets can be added to the same simulation session, or the display can be outputted to a larger external monitor via a HDMI cable.

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.

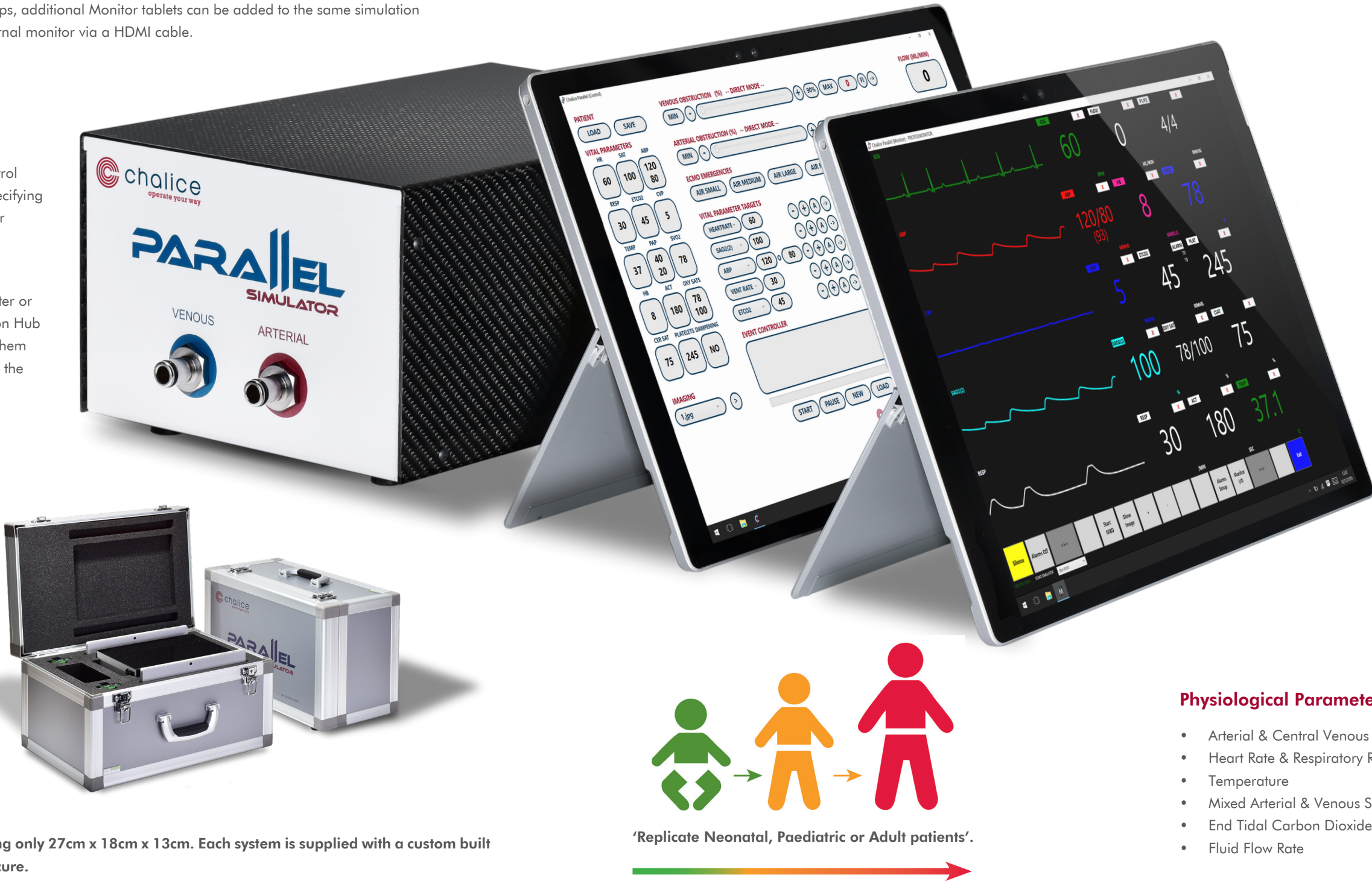
Features include:

- Wireless communication to allow the trainer to be in a separate observation room to the students.
- Compact and portable for easy movement and storage.
- A function to queue 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 27cm x 18cm x 13cm. Each system is supplied with a custom built transport case to keep all components safe and secure.

While connected in line with a conventional circuit, the Parallel will simulate common scenarios related to ECMO and other circulatory and pulmonary therapies.

These scenarios can include hypovolemic incident through an unexpected bleed, air emboli entrainment, restricted Venous return and changes to the Central Venous Pressure. Cavitation from kinked cannula, and 'effective' and 'ineffective' resuscitation can also be simulated.



Physiological Parameters:

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



Chalice Medical Inc

+ 44 (0)1909 470 777

info@chalice-inc.com

www.chalice-inc.com

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MED Alliance Solutions, LLC

630-443-7070

2175 Oakland Dr, Sycamore, IL 60178

www.medalliancegroup.com