

Medical Products

Bypass Backplane organizes the operating room:



Despite the high safety and frequency of cardiopulmonary bypass surgery operations, it is still a time-consuming operation, and minutes saved can change the patient's future. PCD developed a minimized bypass system which saves time and material by consolidating a great deal of functionality into a much reduced form factor. This new localized system results in a 50% reduction in operating room space, a cost reduction by up to 25%, and added a new degree of portability not possible with any previous products. In addition, PCD, with the owner, invented and patented "vacuum assisted venous drainage" which uses a rerouted circuit and the existing reservoir to speed blood drainage from the patient and adds emboli elimination for a safer procedure.

Cushion Device Combats Hypothermia:



This product concept was born from two separate but related problems: The current methods of raising the internal body temperature of a hypothermic patient are very inadequate, and the contact between a patient's back and a rigid backboard is associated with a number of complications. PCDWorks solved these problems by designing and building a new disposable backboard cushion with warming and insulating capabilities. The device is currently in limited distribution to targeted markets.

Faster and Better Wound Cleaning:



PCDWorks created a solution to the growing infection rates in hospitals by acquiring a proven technology and applying it in a new design. The PCDWorks "Medwash" wound cleaning product incorporates proprietary nozzle technology into a disposable tool which eliminates much more bacteria from a wound or skin surface than any conventional technologies. It also reduced the time necessary to perform adequate cleaning by over 5 times. This product is an excellent example of PCDWorks' capability to find innovative technologies and apply them in completely new ways to make a truly groundbreaking product.

PCD Facilities:



PCD's new laboratory building has specialized facilities dedicated to medical product development and testing, such as a clean room, incubation, sterilization, short run manufacturing, and testing equipment. In addition, we employ specialized documentation and FDA compliant procedures to aid the move from proof of concept to commercialized product.