

Smart Pumps Evaluation

Type of trial:	Full patient trial
Trial length:	6 months – comparing 4 products for 6 weeks each
Trial dates:	January – June 2023
Trial ward/department:	Critical Care Unit
Number of units/patients:	24 pumps deployed for product
Clinical lead for the trial:	Sarah Mitchell

Product and supplier	Final score	Ease of set up	Ease of use	Patient comfort	Maintenance	Safety	Reliability
SmartPump 300 Infusion System	3.5/5	3/5	3/5	4/5	2/5	5/5	5/5
MedTech Innovation LtD SmartPump 200 Infusion System	3/5	2/5	2/5	2/5	2/5	5/5	4/5
MedTech Innovation LtD PulsePump Precision System	3.5/5	4/5	4/5	2/5	2/5	4/5	5/5
InnovationFlow Solutions LtD SmartFlow Infusion System	3/5	5/5	5/5	1/5	2/5	3/5	3/5
General Medtech Inc.							

Additional notes:

Product and supplier	Notes
SmartPump 300 Infusion System <i>MedTech Innovation LtD</i>	While the Dose Error Reduction System is excellent, the volume of soft alerts led to frustration with clinical staff, especially during shift changes. The supplier provided adequate training, with a 4-hour session for standard infusions followed by an additional 3-hour session on advanced auto programming features.
SmartPump 200 Infusion System <i>MedTech Innovation LtD</i>	N/A
PulsePump Precision System <i>InnovationFlow Solutions LtD</i>	The supplier provided adequate training for standard infusions but no advanced training.
SmartFlow Infusion System <i>General Medtech Inc.</i>	The large physical size and weight were repeatedly cited as a major obstacle. The number of alerts also distracted patients and staff.