

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 MedTech Innovation Ltd | 3.5/5 | 3/5 | 3/5 | 4/5 | 2/5 | 5/5 | 5/5 |
| SmartPump 200 Infusion System MedTech Innovation Ltd | 3/5 | 2/5 | 2/5 | 2/5 | 2/5 | 5/5 | 4/5 |
| PulsePump Precision System InnovationFlow Solutions Ltd | 3.5/5 | 4/5 | 4/5 | 2/5 | 2/5 | 4/5 | 5/5 |
| SmartFlow Infusion System General Medtech Inc. | 3/5 | 5/5 | 5/5 | 1/5 | 2/5 | 3/5 | 3/5 |

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. |