

## **P38**

### **PERIOPERATIVE MANAGEMENT OF CHILDREN WITH TYPE 1 DIABETES USING CONTINUOUS INSULIN INFUSIONS AND GLUCOSE MONITORS. A LITERATURE REVIEW AND PROPOSAL TO AMEND CURRENT GUIDELINES**

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#### **BACKGROUND:**

Increasing numbers of children with diabetes are using continuous subcutaneous insulin infusion pumps, continuous glucose monitors and fully closed-loop artificial pancreas devices. Current HSE guidelines consider these technologies but to a limited extent. Guidance on the perioperative management of these devices would benefit from being more specific.

#### **METHODOLOGY:**

A focused literature search was performed to explore available evidence and international guidelines on this topic. Findings were organised into 11 themes.

#### **RESULTS:**

While research evidence to guide practice in this area is limited, many international consensus guidelines exist around the perioperative management of CSII pumps and continuous glucose monitors. There is a scarcity of either evidence or guidelines for the perioperative use of fully closed loop systems.

#### **OUTCOME:**

The findings have been used to draft an amendment to the current HSE guideline for consideration at it's next revision. We propose that a user friendly algorithm be included in the guideline to aid in the perioperative care of children who use novel diabetes technologies.