2024 Electrical/Electronic (Cardioplegia delivery#3)

Permission to print: Yes

Category Electrical / electronic

Severity Good Catch No Harm Incident

Description: Essenz heart lung machine in use for a paediatric case. The cardioplegia module

gave a communication error while delivering induction. On toggling into the cardioplegia screen it was noted that the machine was saying that the volume delivered was 3229ml (this was not correct as the delivery time was 3minutes at a flow of around 120ml/min). On further investigation it was noted that the preset volumes for induction and maintenance had disappeared and were unable to be reset. Communication alerts were flagged on the cockpit, these were recorded and sent back to Liva Nova. Another perfusionist was called in to help trouble shoot. Watched closely doses of cardioplegia delivered for rest of case and manually

started and stopped dose to ensure correct volumes were delivered.

What could we do

better

GOOD CATCH - what went well Noted that volumes were incorrect, called in second perfusionist to We run N+1, with the +1 in a back room close by - we had just stopped having 2 people in the room for each case with the Essenz - we could have continued this

buddy system longer.

Preventive actions Errors communicated Liva Nova -noted that it is a software issue and an update is

> pending. Closely watch volumes and flows when delivering cardioplegia and do not rely on the machine to deliver correct doses - manual calculations and manual

control.

Type of incident: Equipment

Manufacturer advise Yes

Duration of incident: minutes

Hospital incident file No

Ext Authority Advised No

Discussed with tea Yes

Patient outcome varianc Nil

This is the third recent report of a software failure of the Essenz cardioplegia Commentary

> delivery system and the second in the last week from 2 different centres.All Essenz user should be aware of this issue. The prevoius reporter elevated has this to the regulatory authority in their jusisdiction. PIRS2 is unaware of any gerneral

notification. PIRS2 Ed