

2025 Software (Cardioplegia)

Date 28/10/2025

Permission to print: Yes

Category Electrical / electronic

Category 2 software

Severity Good Catch Near Miss

Description: Neonatal bypass set up on Essenz heart lung machine. Prime uneventful / no issues. Cardioplegia primed fine, and ran up to table to deair once on bypass with no issues. After the cross clamp was placed the surgeon asked for the cardioplegia to be started, the perfusionist started the pumps and pressed the blue button on the cockpit to begin counting. There was an instant orange alarm and spanner symbol on the crystaloid cardioplegia pump. The surgeon was informed there was a pump issue and the cross clamp was removed and the cardioplegia disconnected while the issues was investigated. There were two perfusionists in the OR at the time. The pumps were switched from 4:1 to manual mode and run individually without issues. The pumps were returned to 4:1 and also run without issue BUT the orange box and spanner could not be cleared. The cardioplegia was delivered keeping an eye on volumes with the understanding that this may be off. Error 2335. Error logs downloaded by company post event and being analysed.

GOOD CATCH - what went well

Alarm alerted perfusionists Surgeon quick to remove cross clamp and disconnect cardioplegia to trouble shoot issues

What could we do better Nil

Preventive actions Understand that there have already been PIRS for this/a similar issue so reread these reports. Unfortunately we were not at a stage where we could reboot the pump to try to clear error.

Type of incident: Equipment

Manufacturer advised: Yes

Timing of incident: CPBhypothermic

Procedure acuity: Elective

Discussed with team No

Hospital incident filed: No

Ext Authority Advised No

Patient outcome variance from incident Nil