

# 2019 Cardioplegia

Permission to print:	Yes
Incident type	Good Catch No Harm Incident
Catagory	cardioplegia
Type of incident:	Management
Procedure acuity:	Elective
Description:	<p>Induction dose Cardioplegia was given at 30.2 degrees. During an Aortic valve and root replacement with a a homograft the xclamp was applied and retrograde (700ml), then ostial (each side 250ml) cardioplegia was given. Ischemic arrest of the heart occurred briefly once the left Ostia was given 'plegia. Shortly after the Induction dose was given, atrial activity was noted. Surgeon informed. 11min after induction a maintenance dose was retrogradely given. ice placed on heart. By the coordinatnig perfusionist was in the room and noted that the [water delivery temperature on the 3T HCUwas 30.2 degrees instead of 5. quick action followed and it was noted that the red tap valves at the rear of the 3T were in the closed position.They were opened and the water cooled instantly. Surgeon was informed and another cold maintenance dose was given retrogradely. The atrial activity on the monitor continued. (Query artefact or activity). Cardioplegia was given every 20min with no success of total arrest.</p>
GOOD CATCH - what went well	great observation from 2nd perfusionist perfusionist
What could we do better	a more thorough check of water flow
Preventive actions	While checking the water flow is part of the check list, there is no water flow indicator on the Liva Nova 3T. The check on the cardioplegia pre CPB is by touch on the Blood cardioplegia heat exchanger in the circuit, however consideration is being made to including a simple flow indicator in the water line (that we previously used before the recall) and we plan to seek approval for this from LivaNova.
Manufacturer advised:	No
Hospital incident filed:	No
Ext Authority Advised	No
Patient outcome varianc	Nil
Discussed with team:	Yes
Commentary	PIRS will report if we receive further details on the inclusion of a water flow indicator. PIRS Ed