

Policy code	CPG_RE_PRM_0721
Date	July, 2021
Purpose	To ensure consistent management of post return of spontaneous circulation management (ROSC)
Scope	Applies to Queensland Ambulance Service (QAS) clinical staff.
Health care setting	Pre-hospital assessment and treatment.
Population	Applies to all ages unless stated otherwise.
Source of funding	Internal – 100%
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### Post return of spontaneous circulation (ROSC) management

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There is increasing recognition that systematic post-cardiac arrest care can improve the likelihood of patient survival with a good quality of life.<sup>[1,2]</sup>

Resuscitation continues after a return of spontaneous circulation (ROSC).

- Primary aims after initial resuscitation care include:
  - support circulation, airway and breathing
  - maintain cerebral perfusion
  - manage cardiac dysrhythmias.
- Determine and manage the cause of the cardiac arrest giving consideration to those that are reversible:
  - hypoxia
  - hypo/hyperthermia
  - hypovolaemia
  - hypo/hyperkalaemia
  - hydrogen ion (acidosis)
  - tension pneumothorax
  - tamponade
  - toxins
  - thrombosis
- All ROSC patients require a 12-Lead ECG.
- Following out of hospital cardiac arrest (suspected to be of cardiac aetiology) patients should, where possible, be transported to a PCI capable facility.

### sk assessment

ROSC

• Not applicable

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July, 2021

## WHEN PRINTED

CPG: Paramedic safety CPG: Standard cares

- 12-Lead ECG
- Treat presenting dysrhythmias
- Consider and manage reversible causes

OPTIMISE VENTILATION AND OXYGENATION

- Maintain SpO2 ≥ 94%
- Consider advanced airway
- Maintain EtCO2 of 30-40 mmHg
- If no EtCO2 ventilate at rate of 8–12 per minute
- Do not hyperventilate

#### **OPTIMISE CIRCULATION:**

- Aim for SBP ≥ 100 mmHg for adults
- Aim for SBP ≥ 80 mmHg for children

#### Consider:

- Appropriate posturing
- Adrenaline (epinephrine)

Transport to hospital Pre-notify as appropriate **Note:** Officers must only perform procedures for which they have received specific training and authorisation by the QAS.

### WHEN