

Guideline for CPR in COVID positive or suspected positive patients.

It is vital that ALL patients have realistic hospital anticipatory care plans including documentation about resuscitation from cardiac arrest.

Successful resuscitation from in-hospital cardiac arrest is approx 20%. This will be lower if the cause of the arrest is not cardiac.

In the rare circumstance that it is appropriate to perform CPR on a possible or confirmed COVID positive patient please use the guidance below.

Requirements for this to work:

- All possible or confirmed COVID positive patients must have a completed HACP, and WHERE appropriate a DNA CPR form completed
- Those possible or confirmed COVID positive patients who are for CPR in event of arrest AND escalation, should have a working venflon which is checked and flushed at least twice daily. (Minimises tasks for arrest team)

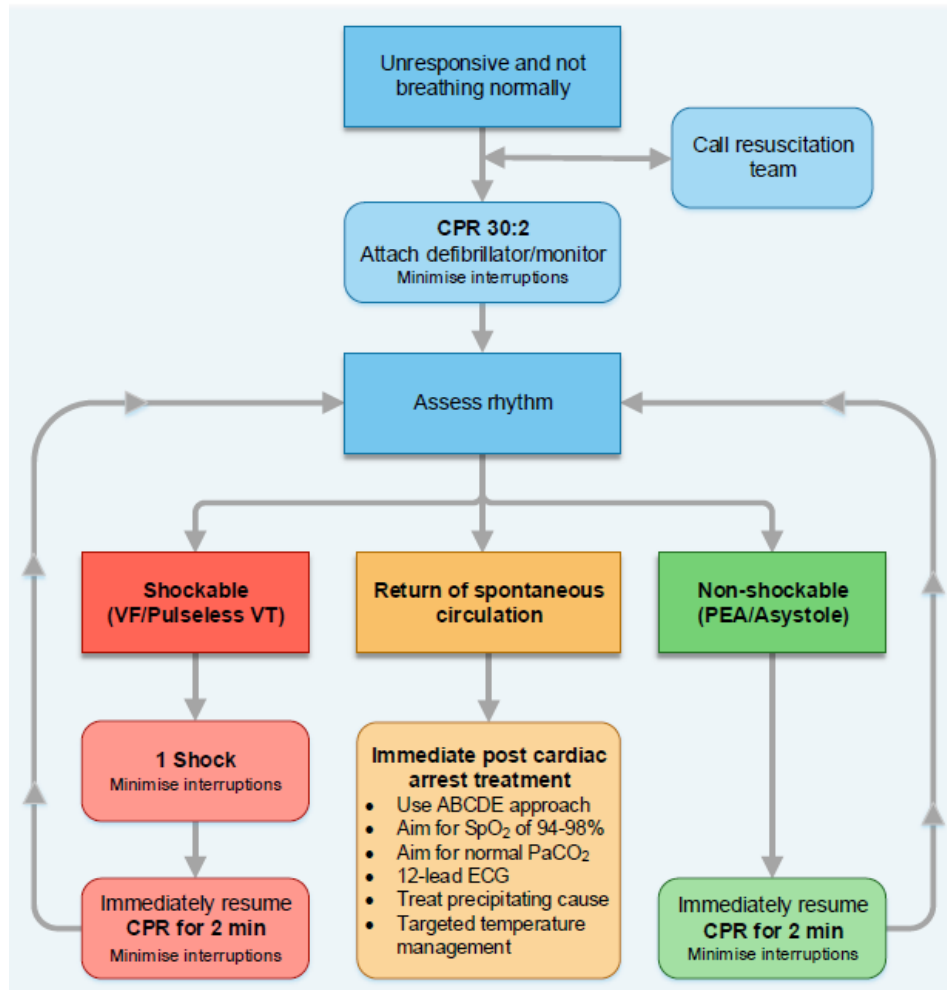
Checklist for teams and Resuscitation officers:

- Guidance to be adapted for local arrest team set-ups
- Appropriate number of staff have been fitted for FFP 3 (please don't fit anyone who won't be in the red zone, it uses up valuable FFP 3 equipment)
- FFP 3 PPE available on all arrest trolleys in areas treating possible and confirmed COVID patients
- Emergency grab bags are set up and available on all arrest trolleys in areas treating possible and confirmed COVID patients
- Guidance is shared with all arrest teams and is available on all arrest trolleys in areas treating possible and confirmed COVID patients

This NHS Lothian guidance has been developed to describe a pragmatic clinical approach to cardiac arrest management which protects both our staff and patients. It has been guided by the undernoted documents and advice from clinical and infection control staff.

Resus Council guidance: <https://www.resus.org.uk/media/statements/resuscitation-council-uk-statements-on-covid-19-coronavirus-cpr-and-resuscitation/>

HPS guidance: https://hpspubsrepo.blob.core.windows.net/hps-website/nss/2936/documents/1_covid-19-guidance-for-secondary-care.pdf



Adaptation for possible or confirmed COVID positive patients

- **DO NOT** perform airway manoeuvres or listen for breath sounds.
- **First responder** (ward staff)-
Call for help
Will be wearing standard / droplet precaution PPE: minimum surgical face mask, apron, gloves.
Commence chest compressions and continue until second responders arrive.
- **Second responders** [cardiac arrest team/ward staff]-
First (FFP3 fitted) ALS provider to arrive (**Red Team Person 1**):
Don enhanced (aerosol generating procedure) RPE: FFP3 mask, gown, visor, gloves x2.
Take over chest compressions from first responder.
This person may be a member of ward staff or may be the first of the cardiac arrest team to arrive.

Cardiac arrest team- Divided in to red and green teams.

PPE, equipment and task allocation as documented in table.
Likely cause of cardiac arrest will be hypoxia or hypovolaemia if related to COVID illness.
There are fewer people able to perform tests and interventions so only perform those that will influence the outcome for the patient.

	RED team	GREEN team
Base	In patient cubicle	Outside patient cubicle
Team members	Person 1 (ALS provider) Person 2 (BLS provider) Person 3 (airway)	Medical Registrar (unless required on red team) Remaining members of cardiac arrest team Ward staff
Equipment	Emergency grab bag Defibrillator	Cardiac arrest trolley
PPE	Enhanced (AGP) RPE: FFP3 mask, gown, visor, gloves x2	Standard (Droplet precaution) PPE- as per local guidance
Tasks	<ul style="list-style-type: none"> • Chest compressions • Attach defibrillator +/- deliver shock(s) • Secure airway and deliver oxygenation • Drug administration • (Arterial/venous BG- avoid if possible) 	<ul style="list-style-type: none"> • Overview of resuscitation inc recommendation to stop CPR as appropriate • Review patient notes • Passage of equipment/ drugs in to red zone • Drug preparation • Documentation of arrest • Transfer of samples to lab • Liaise with specialties as required • Maintenance of patient privacy • Facilitate debrief