Cardiogenic Shock Protocol

Cont. from DPH OHCA Protocol

Cardiogenic Shock

Unfavorable features?

Yes

IC and CCM shared decision making

No

CCL Activation

Severe Symptoms?

Yes

Radial Access

No

Femoral Access

CCM available or present in CCL

MCS Indicated?

Yes

Illiac Angiography

No

Revascularization w/wo MCS

IC and CCM shared decision making for MCS type

Impella CP Implanted?

Yes

Impella RP Implant

No

PAPi ≤ 0.9

Right Heart Catheterization

Impella RP Implanted?

Yes

Admit to ICU

ICU Management

No

If PAPi ≤ 0.9, notify IC for Impella RP Implant

IC and CCM shared decision for explant

Cardiogenic Shock progress

Recovery

Inadequate or no recovery

Explant Impella by CCM

Neurological Recovery?

Yes

Transfer for Destination Therapy/Transplant

No

End of life discussion with patient family

MCS Indications

- LVEF < 40%
- Shock (Vasopressors support or MAP<65 mmHg)
- Complex intervention
- OHCA s/p epinephrine with multiple vessel disease or anterior wall MI

Unfavorable features

- Age > 80
- pH < 7.2
- Lactate > 7
- > 30 min to ROSC
- Unwitnessed arrest
- No bystander CPR
- Initial rhythm: Non-VF/VT
- End stage renal disease
- Non-cardiac causes (e.g., traumatic arrest)

PAPI = (PA \text{sys} – PAdias) / RA \text{mean}

CCM: Critical Care Medicine
IC: Interventional Cardiology
MCS: Mechanical Circulatory Support
CCL: Cardiac Catheterization Lab
OHCA: Out of Hospital Cardiac Arrest
LV: Left Ventricle
LVEF: Left Ventricular Ejection Fraction
TMT: Targeted Temperature Management
PA: Pulmonary artery pulsatility index

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