

General Comments about Hemodynamic Module:

1. This module may be deployed at multiple time points throughout a trial: For example, immediately before and then at several time points after implantation of a temporary mechanical circulatory support (MCS) device.
2. The data elements (heart rate, systolic blood pressure, hemoglobin) from the baseline core lean CRF may change significantly when mechanical circulatory support is used and hemodynamic measurements are obtained. As these data elements are critical to hemodynamic calculations, they will need to be collected at the date and time closest to when the hemodynamic measurements are obtained.
3. Hemodynamic measurements should be obtained at rest (versus with exercise) and utilizing proper technique (transducers appropriately calibrated and zeroed, with end-expiratory mean values recorded).
4. Consider collection of waveforms and utilization of a hemodynamics core laboratory if the accuracy of the hemodynamic data is critical to the clinical trial.

Data elements that will not be collected, but can be calculated from the Baseline Lean CRF and Hemodynamic Module:

Body surface area: _____
Mean arterial blood pressure: _____
Mean pulmonary artery pressure: _____
Cardiac index: _____
Stroke volume: _____
Pulmonary vascular resistance: _____
Systemic vascular resistance: _____
Right ventricular stroke work index: _____
Pulmonary artery pulsatility index: _____
Cardiac power output: _____

Hemodynamic Module:

Data Elements to Collect:

Mechanical Ventilation

Yes

No

If yes, specify amount of positive pressure: _____

Non-invasive Positive Pressure Ventilation

Yes

No

If yes, specify amount of positive pressure: _____

Oxygen Supplementation

Yes

No

If yes, specify amount (FiO₂ or L/min): _____

Temporary MCS Device

Yes

No

If yes, specify device and settings: _____

Intravenous Inotropes

Yes (if yes, specify)

No

Dobutamine, If yes, specify dose: _____

Milrinone, If yes, specify dose: _____

Epinephrine, If yes, specify dose: _____

Other (specify): _____, If other, specify dose: _____

Intravenous or Inhaled Vasoactive Medications

Yes (if yes, specify)

No

Nitroprusside, If yes, specify dose: _____

Nitroglycerin, If yes, specify dose: _____

Norepinephrine, If yes, specify dose: _____

Vasopressin, If yes, specify dose: _____

Phenylephrine, If yes, specify dose: _____

Epoprostenol, If yes, specify dose: _____

Inhaled nitric oxide, If yes, specify dose: _____

Other (specify): _____, If other, specify dose: _____

Hemodynamics Data Elements to Collect

PA Catheter Implant: Date/Time (in 24-hour format, e.g. 16:04): _____

Sinus Rhythm

Yes

No

If no, specify rhythm :

AFib

Aflutter

Atrach

AV paced

Other (specify): _____

Heart Rate: BPM (mmHg): _____

Systolic Blood Pressure (mmHg): _____

Diastolic Blood Pressure (mmHg): _____

Right Atrial Pressure (end expiratory measurement) (mmHg): _____

Pulmonary Artery Systolic Pressure (mmHg): _____

Pulmonary Artery Diastolic Pressure (mmHg): _____

Pulmonary Capillary Wedge Pressure (end expiratory measurement) (mmHg): _____

Pulmonary Capillary Wedge Pressure – V Wave in Wedge Positions (end expiratory measurement) (mmHg): _____

LVEDP (if performed)

Cardiac Output (L/min): _____

Specify method: Thermodilution or Fick

Specify method to measure oxygen uptake if using Fick: _____

Specify amount of tricuspid regurgitation if using Thermodilution: _____

Hemoglobin (g/dL): _____

Arterial Oxygen Saturation (%): _____

Pulmonary Artery Saturation (%): _____