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UPitt TriState SenNet TMC Heart Procurement

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TriState SenNet

Cellular Senescence Net...



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Protocol status: Working

We use this protocol and it's working

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Abstract

This document outlines the request for specimen procurement before arrival at the TriState SenNet TMC Biospecimen Core at the University of Pittsburgh, as part of the Cellular Senescence Network Program (SenNet).



Requested processing protocol for Donation following Brain Death Declaration (DBD)

- 1 Organ Procurement Organization Recovery Team prepares for organ recovery as consistent with organ transplant protocol with cross clamp and in situ cold flush body cooling with minimal warm ischemic time.
- 2 Heart retrieval: The superior caval vein is ligated. The inferior caval vein is opened and the left atrium is vented, in order to prevent left ventricular distension. The ascending aorta is subsequently cross clamped and cold cardioplegia is administered via the aortic root to achieve hypothermic diastolic arrest.
- 3 Place Heart in a Specimen Bag and submerge with chilled Perfadex or similar. Triple bag the tissue. (if recover with lungs)

if retrieved alone, heart is packed in one or two litres of cardioplegia and placed in an ice box for transport.

Requested processing protocol for Donation following Cardiac Death /Arrest(DCD)

- 4 Organ Procurement Organization / Recovery Team prepares for organ recovery as quickly following Cardiac Arrest while in comfort care as authorized by next of kin.
- 5 Remainder of organ / tissue recovery should be as consistent with organ transplant protocol (section above) as possible.

Includes organ flush with Perfadex or similar organ transplant buffer until solution runs clear.
- 6 All warm ischemic time is to be minimized and reported. Tissues may be accepted up to 6 hours WIT. Other WIT may be evaluated depending of the circumstances.