

“Ex Vivo Assessment & Repair of Rejected Donor Lungs”

RESEARCH PROFILE

Background
Brief description of research study: The objective of this research is to investigate different treatment strategies using Ex Vivo Lung Perfusion to improve lung quality and enable transplant of these lungs in the future.
Program: University Health Network – Toronto General Hospital
Contact Person(s) & Contact Information: Primary Contact: Dr Marcello Cypel – Office: 416 340 4800 ext. 4314. Cell 416-939-2633 Secondary contact: Iva Avramov – Cell: 416 456 1912
Offering Information: TGLN-CSC will offer the lung(s) for research to TGH-MOTC, who will coordinate with Dr Cypel, from donors whose lung(s) has been declined for transplantation, as well as cases in which the lung(s) was accepted for transplantation at UHN but subsequently declined by the accepting surgeon.
Inclusion: <ol style="list-style-type: none">1. Donors whose lungs have been declined for transplantation as well as cases in which the lung was accepted for transplantation at UHN but subsequently declined by the accepting surgeon.2. NDD/DCD donors.
Exclusion: <ol style="list-style-type: none">1. Donor cases where a Surgical Recovery Coordinator (SRC) is not already attending the recovery.2. Donors whose lungs have been declined for transplantation at sites not within driving distance of UHN.
Recovery
Method: UHN lung recovery team will recover the lung(s) for this study. <ol style="list-style-type: none">1. Lung(s) declined for transplantation will be recovered using standard technique as if being recovered for transplantation EXCEPT the recovery will occur after all other organs, accepted for transplantation, have been recovered.2. Lung(s) accepted for transplantation at UHN but subsequently declined by the accepting surgeon, will be recovered using standard technique.
Requirements for Perfusion: Same as a normal lung(s) donor for transplant. Lung(s) will be perfused and stored in Perfadex at 4C.
Time Requirements: No additional time.
Impact on Transplant/ Recovery Procedure: Procedure does not change from normal recovery procedure.
Effect on Body / Post-Mortem Care: N/A
Consent Considerations: Requires research consent from the donor NOK for lung(s).
Recovery Personnel: UHN lung recovery team. Credentialing: As per PRC database.
Required Documentation: As per usual documentation
Transportation: UHN lung recovery team will deliver the lung(s) to the research team.
Return of organ: When the ex vivo team has finished with the lung(s), they will repackage it and return it to the cooler, ensuring it is labelled. They will bring it to TGH OR desk and notify TGLN for pick up and disposal.