

Defining and Targeting Autoimmune Liver Disease RESEARCH PROFILE

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| Background |
| Brief Description of Program: The main aims of the study are to characterize the cellular immunologic landscape of both the adult and pediatric liver affected by primary sclerosing cholangitis (PSC) compared to the healthy adult and pediatric liver, to elucidate PSC pathogenesis and guide therapy development. The study will involve collection of diseased and control liver tissue. Donors from TGLN will be one of the groups contributing liver tissue to the control group. A total of approximately 20 liver samples from pediatric donors and approximately 10 liver samples from adult donors will be required. |
| Program: Hospital for Sick Children (HSC) & Toronto General Hospital - University Health Network (UHN) |
| Contact Person(s) & Contact Information: Primary contact: Sonya MacParland: (416) 320-8339 Secondary contact: Catia Perciani (416)-427-6766 |
| Offering Information: <ul style="list-style-type: none"> • Offer liver tissue for research on all donors with research consent where TGH or HSC has accepted liver for transplant. • TGLN-CSC will offer liver tissue for research to TGH-MOTC who will coordinate with Dr. McGilvary and/or Dr. MacParland • Liver tissue for research will be offered in accordance with the following algorithm <ol style="list-style-type: none"> 1. Adult donors: offer to Dr McGilvary for <u>Liver Cell Isolation</u> study first and if Dr McGilvary declines, offer to Dr MacParland for <u>Defining & Targeting Autoimmune Liver Disease</u> study. 2. Pediatric donors: offer to Dr MacParland for <u>Defining & Targeting Autoimmune Liver Disease</u> study first and if Dr MacParland declines, offer to Dr McGilvary for his <u>Liver Cell Isolation</u> study. • TGH-MOTC will notify TGLN-CSC upon acceptance and identify which study has been accepted. |
| Inclusion: <ol style="list-style-type: none"> 1. Any deceased liver donor whose liver is recovered for transplantation into a recipient at HSC/UHN. 2. Donor of any age. 3. Both NDD and DCD donors are acceptable. 4. Requires TGLN consent for Scientific Research |
| Exclusion: None |
| Recovery |
| Method: No change to standard organ retrieval. At the time of backbench preparation of the liver for transplant, if liver tissue is discarded, it will be provided to the research team by the operating room staff. If there is no discarded tissue, the liver graft will be biopsied by the transplant surgeon at the time of transplant to procure a core biopsy for research purposes, provided that the surgeon feels it is safe to do so. |
| Time Requirements: None beyond standard organ recovery. |
| Impact on Transplant/ Recovery Procedure: Procedure does not change from normal recovery procedure. |
| Effect on Body / Post-Mortem Care: None. |
| Consent Considerations: Requires research consent from the donor NOK for liver. |
| Recovery Personnel: UHN abdominal recovery team. Credentialing: As per PRC database |
| Required Documentation: As per usual documentation. |
| Transportation: As per routine. |