

Clinical Process Instruction Manual

Organ and Composite Tissue Specific Data Collection Process Instruction

Policy:

In addition to standard tests and procedures required of all potential organ donors, certain organ-specific data is required to assist the respective transplant programs in determining medical and functional suitability of the organ(s) and composite tissue(s) for transplantation. Ontario Health - Trillium Gift of Life Network (TGLN) requests all relevant information from the referring centre, and in some cases, may ask that specific tests/procedures be performed, if not done previously.

Process:

1. The on-site Organ and Tissue Donation Coordinator (OTDC) or Clinical Responder (CR) will obtain the information required for all potential donors. See *Donor Assessment – Combined Organ and Tissue Process Instruction, CPI-9-208*. Information required for all organ or composite tissue offers includes:
 - Donor characteristics (NDD/DCD, exceptional distribution, cause of death, age, gender, vital signs)
 - ABO
 - Actual height and weight
 - Admission history, cause of death/diagnosis
 - Hemodynamics
 - Complete blood count (CBC) to include at minimum hemoglobin, hematocrit, white blood cell (WBC), platelet counts
 - Serum electrolytes, to include at minimum sodium and potassium
 - Serum creatinine
 - Medical and Social History Questionnaire
 - Serology
 - Chest X-Ray Report (CxR) or chest CT
 - Culture results (if available). See *Microbiology and Cultures Testing Process Instruction, CPI-9-214*. NOTE: Blood cultures on all donors, urine cultures on abdominal organ donors, and sputum and/or BAL cultures for lung donors.
2. The OTDC or CR will obtain the information required (see Appendix 1) for each donated organ and composite tissue, and record the data onto the TGLN donor assessment.
3. If there is no on-site support, the Clinical Services Coordinator (CSC) providing telephone support, will work with the front line health care professional to obtain the information required.

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For non-Ontario donors, the CSC obtains the required information from the organ donation organization that is offering the organ(s) or composite tissue(s) to Ontario for transplantation.

4. If any Health Canada required tests are missing prior to donor OR, apply exceptional distribution as per *Exceptional Distribution, CPI-9-217*.

Records:

Record Name	Form No. (if applicable)	Record Holder	Record Location	Record Retention Time (as a minimum)
Assessment Form: Organ or Combined	CSF-9-15	PRC	PRC	16 years
Assessment Form: Tissue Donor	CSF-9-16	PRC	PRC	16 years

References:

- *Microbiology and Cultures Testing Process Instruction, CPI-9-214*
- *Donor Assessment – Combined Organ and Tissue Process Instruction, CPI-9-208*
- Canadian Council for Donation and Transplantation. *Medical Management to Optimize Donor Organ Potential: A Canadian Forum*. Mont Tremblant, Quebec. February 23-25, 2004

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Appendix 1: Organ and Composite Tissue Specific Tests

Organ	Minimum Donor Information Required (** are mandatory Health Canada Requirements)
Heart	<ul style="list-style-type: none"> • Cardiac arrest, CPR details • Donor HLA results • 12 Lead Electrocardiogram (ECG)** • 2D Echocardiogram** • Coronary angiogram (if requested by the Transplant Program) • Toxoplasmosis (performed non-stat). See <i>Infectious Disease Testing – Non-STAT Process Instruction, CPI-9-213</i>
Lungs	<ul style="list-style-type: none"> • Smoking history • Intubation details • ABGs on 100% FiO₂ (excluding patients requesting MAiD) (If result is adequate, one is sufficient. If result is borderline or interventions are being implemented, may require more than one to assess trend.). ** • Donor HLA results • Bronchoscopy (only if patient is ventilated) • Donors >60 years old with 20+ years smoking history: Non-contrast CT Chest may be requested • Chest X-Ray Image (If result is adequate, one is sufficient. If result is borderline or interventions are being implemented, may require more than one to assess trend.)
Kidneys	<ul style="list-style-type: none"> • Donor HLA results • Creatinine, eGFR** • Urea Testing** • KDPI (to determine Extended Criteria Donor (ECD) or Standard Criteria Donor (SCD)) • Urinalysis** • ACR (if requested and attainable) • Renal imaging (CT and/or Ultrasound) as requested <ul style="list-style-type: none"> ○ full report including size, cortical thickness and evidence of obstruction)
Pancreas or Kidney-Pancreas	<ul style="list-style-type: none"> • All information provided for kidney donor Amylase or Lipase** • Blood glucose**

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Liver	<ul style="list-style-type: none"> • Liver Function Tests (LFTs) (total bilirubin**, Aspartate Aminotransferase (AST)**, Alanine Aminotransferase (ALT)**, Alkaline Phosphatase (ALP)) • Albumin • Partial Thromboplastin Time (PTT)** • International Normalized Ratio (INR)** • Imaging (CT and/or Ultrasound) as requested
Small Bowel/ Liver-Bowel	<ul style="list-style-type: none"> • All information provided for liver donor
Hand/Limb	<ul style="list-style-type: none"> • Height of the parents (if donor and recipient < 16 years of age) • Plain x-ray of the limb • Doppler ultrasound of the limb (if no palpable pulses) • Fitzpatrick scale • Capillary refill on the extremity • Allen's test result on the extremity • Medical and social history including skin disorders, muscular diseases, vascular related diseases, nerve disorders, tattoos • Skin assessment of intended hand/limb • Trauma to the extremities, multiple IV attempts to the extremity, arterial line in the extremity noted on physical assessment • Donor HLA results