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# **Clinical Process Instruction Manual**

**Perfusion & Packaging: Liver Process Instruction** 

## Policy:

For cases where Trillium Gift of Life Network (TGLN) provides surgical recovery support, TGLN's Surgical Recovery Coordinator (SRC) or designate will facilitate perfusion and packaging of organs, using aseptic technique and in accordance otherwise with the *Health Canada Safety of Human Cells, Tissues and Organs for Transplantation Regulations*. For recovery procedures performed by the transplant programs, the transplant program's assigned designate undertakes surgical recovery activities including perfusion and packaging.

The SRC or designate refers to the *Clinical Services Coordinator to Surgical Recovery Coordinator Communication Process Instruction, CPI-9-406* prior to departing for recovery.

#### Process:

#### **Prior to Departing TGLN**

- 1. The SRC obtains the appropriate documentation required for recovery. Forms include:
  - Reporting Form: Clinical Services Coordinator to Surgical Recovery Coordinator
  - Organ Donor Surgery Information
  - Liver Retrieval Operative Note (See Exhibit 1) or DCD Liver Retrieval Operative Note (see Exhibit 2).
  - Liver Transplant Operating Room Data or Liver / Kidney Transplant Operating Room Data (with attached ABO and Serology).
     See Exhibit 3 for Liver Transplant Operating Room Data. See Exhibit 4 for Liver/Kidney Transplant Operating Room Data.
  - Public Health Requisition from Public Health, if required
  - Laboratory Services Requisition: STAT Infectious Disease Testing of Organ Donors, if required
  - Organ Labels
  - Specimen Labels
  - Surgical supply list, if needed

For organ recoveries performed by transplant programs, the *Organ Donor Surgery Information* and the *Liver Transplant Operating Room Data* (if recipient was Ontario based) are sent back to TGLN's Provincial Resources Centre (PRC) for filing with the donor chart.

2. The SRC or designate prepares the abdominal organ surgical recovery kit. The SRC reviews the contents of the kit to ensure that all of the following required for the recovery are present:



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- 2 sterile Y perfusion tubing
- 1 paediatric feeding tubes
- 1 60cc syringe
- 6 CardioMed organ bags
- 2 red top tubes (no additive)
- 2 purple top tubes
- 4 yellow top tubes (ACD)
- 2 pour spouts
- 3 specimen container (non-sterile)
- 10 specimen bags
- 2 sterile specimen containers
- 1 hammer (to break up slush if needed)
- 12 venous return cannulas (sizes 12,14,16,18,21 & 24)
- 10 microbiology requisitions
- 1 sterile abdominal retractor, if not provided at the recovery facility
- 3. The SRC confirms that all sealed items have not been tampered with, equipment is sterile and all supplies are within expiration dates. The SRC replaces supplies and/or equipment if there is any uncertainty regarding their integrity and places these supplies in a designated area in the surgical retrieval room.
- 4. The SRC obtains a large cooler from the TGLN surgical supply store room and places the following items within:
  - wet ice (fill 1/3 of the cooler)
  - 7 to 8L of Servator-B
  - 6 to 10 bags of slush (may break up slush at TGLN or recovery facility)
- 5. The SRC replaces depleted slush to maintain appropriate inventory of frozen slush, if required.
- 6. The SRC may require a small red styrofoam cooler to contain all unused supplies post-recovery that may require refrigeration.
- 7. The Clinical Services Coordinator (CSC) communicates to the SRC if the patient is a TGH Liver study candidate.
- 8. The SRC picks up the recovery team at predetermined time and location.



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## **Upon Arrival at Recovery Hospital**

- 9. The SRC notifies the PRC of his/her arrival time.
- 10. The SRC introduces the recovery team to the Operating Room (OR) staff.
- 11. The SRC records the names of the OR staff, if time permits) and the donor hospital's civic address and contact information on the *Organ Donor Surgery Information*.
- 12. The SRC reviews the patient's chart with the recovery team, confirms ABO, serology results, declarations (if applicable), consent and Coroner involvement (if required). If required, the SRC discusses serology results with the Specialist Organ and Tissue Donation (S-OTD) or CSC.
- 13. The SRC ensures all appropriate blood samples have been drawn and correctly labelled with TGLN identification number, donor date of birth, as well as date and time of collection. The samples are to be placed into specimen bags containing the appropriate requisitions.
- 14. The SRC asks the OR staff for 1 or 2 intravenous (IV) poles for use during perfusion, a table and 2 sterile basins for abdominal slush and liver packaging.
- 15. Prior to use, the frozen saline must be wrapped in a towel and hammered until broken up into a slush-like consistency.
- 16. The SRC opens and passes the following sterile supplies to the scrub nurse to remain on the OR supply table:
  - sterile abdominal retractor, if surgical staff request to use the TGLN retractor
  - paediatric feeding tube
  - 60cc syringe
  - portal cannula.
- 17. The SRC scrubs in as per aseptic protocol and prepares the back table with the assistance of the circulating nurse. See Figure 1. The following materials are required:
  - 2 sterile basins
  - 3 CardioMed organ bags
  - 2 sterile specimen container
  - 6 to 10 bags of crushed slush

The SRC places one bag over the sterile basin. Depending on the size of the liver, the SRC will empty 1 to 2 bags of crushed slush into the basin. The SRC places the other two bags over the



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existing bag of ice and leaves the ties next to the basin. The SRC empties the remaining bags of crushed slush into the empty sterile basin. This slush is to be used for abdominal cooling post aortic cross-clamp and should be located in close proximity to the OR table to ensure accessibility. The SRC removes the cap from the sterile specimen container and leaves it open on the packaging table.

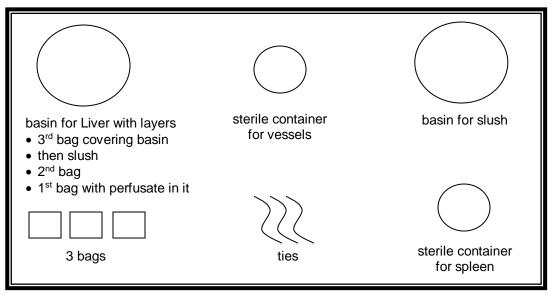


Figure 1: Sterile Back Table Set-up for Liver

- 18. The SRC breaks scrub and opens the sterile perfusion tubing to the scrub nurse. The SRC will then direct the scrub nurse to attach the 12F venous return cannula to the distal end of one of the sterile Y perfusion tubing sets (portal line), and will direct the scrub nurse to attach the 24F venous return cannula to the other perfusion line (aortic line). The recovery surgeon may specify alternate sizes for cannulas. Both sets of perfusion tubing are separately attached to the foot of the OR table by the scrub nurse.
- 19. The scrub nurse will then hand the SRC the other end of the perfusion tubing sets. The SRC attaches both the aortic and the portal perfusion lines to 2 separate IV poles. To avoid confusion, these lines may be labelled "aortic" and "portal."
- 20. The SRC will discuss flushing requirements with recovery team, pressure infusers may be utilized at request of recovery team.



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#### **Surgical Recovery**

- 21. Upon commencement of surgical recovery, the SRC records the "skin cut time" on the *Organ Donor Surgery Information*, and notifies the CSC.
- 22. The SRC contacts the CSC when surgeons have assessed the donor liver, and gives and estimated time for aortic cross-clamp. Accordingly, the CSC contacts the transplant physician upon notification, if requested.
- 23. The SRC records the time of heparin administration and the number of units administered on the *Organ Donor Surgery Information*.
- 24. When cross-clamp is imminent, the SRC hangs 1 2L and 1 2L bag of Servator-B on the aortic line and 1 2L bag of Servator-B on the portal line. The perfusate amounts are subject to change as per request from surgical staff.
- 25. At cross-clamp, the SRC records the time and opens both the aortic and portal perfusion lines. The SRC will notify surgical staff as each litre of perfusate is used and stops perfusion upon request.
- 26. The SRC records name and volume of perfusion solutions and the name of storage solutions on the *Organ Donor Surgery Information*.
- 27. The SRC notifies the CSC of cross clamp time and estimated time of departure.
- 28. Using a pour spout, the SRC decants 1L to 2L of Servator-B into the sterile basin on the packaging table. Also, approximately 40cc of Servator-B is decanted into the small specimen container for vessel transport.
- 29. The recovery surgeon places the liver in the top of bag with solution and the top is tied off and secured with umbilical ties. The  $2^{nd}$  cardiomed bag is tied off and secured with an umbilical tie. The above step is repeated with the  $3^{rd}$  bag.
- 30. The recovered vessels are packaged and labelled in accordance with *Coordination and Recovery of Adjunct Vessels for use in Solid Organ Transplants, CPI-9-1007* with the exception that if they are to be used in the liver transplant, then they can be placed in the same cooler as the liver.



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- 31. Recovered vessels are packaged and labelled in accordance with *Coordination and Recovery of Adjunct Vessels for use in Solid Organ Transplants*, *CPI-9-1007* with no exceptions.
- 32. The SRC labels the packaged liver as per *Organ and Composite Tissue Labelling Process Instruction, CPI-9-417.* The organ bag is then placed into a large cooler and sufficiently covered with ice.

#### **Prior to Departing Recovery Hospital**

- 33. A copy of the *Liver Retrieval Operative Note* is completed, signed by the appropriate surgical staff and left in the hospital donor chart.
- 34. Surgical staff may document any abnormalities or other comments on the *Organ Donor Surgery Information*, if necessary.
- 35. The SRC notifies the CSC and provides the aforementioned information, as well as their time of departure.
- 36. If unaccompanied by a member of the recovery team to the recipient OR, the SRC ensures the cooler is secured with a one-time use fastener. If accompanied by a recovery team member, it is not mandatory to secure a cooler.

#### **Post Recovery**

- 37. The SRC ensures all lot numbers and expiry dates of all solutions and supplies used are recorded on the surgical supply list.
- 38. The SRC ensures that donor blood, sputum, spleen, etc. samples are dropped off at the appropriate locations as per *Infectious Disease Testing STAT Process Instruction, CPI-9-211*, *Infectious Disease Testing Non-STAT Process Instruction, CPI-9-213* and *Microbiology Testing Process Instruction, CPI-9-214*.
- 39. The SRC ensures that the TGLN retractor set is dropped off at TGH to be sterilized as per Sterilization of Equipment Organ Process Instruction, CPI-9-708, if used.
- 40. The SRC repacks the surgical recovery kit upon completion of organ recovery.



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#### Records:

Record Name	Form No. (if applicable)	Record Holder	Record Location	Record Retention Time (as a minimum)
Surgical Supply List	CSF-9-58	PRC	PRC	16 years
Organ Donor Surgery Information	CSF-9-57	PRC	PRC	16 years
Liver Transplant Operating Room Data	CSF-9-40	PRC	PRC	16 years
Liver/Kidney Transplant Operating Room Data	CSF-9-181	PRC	PRC	16 years
Liver Retrieval Operative Note	CSF-9-41	PRC	PRC	16 years
DCD Liver Retrieval Operative Note	CSF-9-39	PRC	PRC	16 years

#### References:

- Infectious Disease Testing STAT Process Instruction, CPI-9-211
- Infectious Disease Testing Non-STAT Process Instruction, CPI-9-213
- Microbiology Testing Process Instruction, CPI-9-214
- Clinical Services Coordinator to Surgical Recovery Coordinator Communication Process Instruction, CPI-9-406
- Organ and Composite Tissue Labelling Process Instruction, CPI-9-417



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- Sterilization of Equipment Organ Process Instruction, CPI-9-708
- Coordination and Recovery of Adjunct Vessels for use in Solid Organ Transplants, CPI-9-1007
- Safety of Human Cells, Tissues and Organs for Transplantation Regulations, Health Canada, June 2007
- Health Canada Guidance Document for Cell, Tissue and Organ Establishments



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## **Exhibit 1: Liver Retrieval Operative Note**

CSF-9-41

UNIVERSITY OF TORONTO LIVER TRANSPLANT PROGRAM

#### LIVER RETRIEVAL OPERATIVE NOTE

Hospital:	Date:
Patient Name:	Medical Record Number:
Surgeons:	

The patient was prepped and draped in the usual sterile fashion. A midline incision was made from the stemal notch down to the public bone. The abdominal incision was continued and the peritineal cavity was entered. The stemum was opened with a stemal saw and hemostasis was obtained with bone wax and cautiery. A brief exploratory sparotomy was then performed. The facilitor insignment was taken between ties and divided. The tirre was then examined for color, texture, and for aberrant vessels. The left triangular ligament was advided and the diaphragm was incised bilaterally for exposure.

The small intestines were retracted, and the peritoneum over the inferior vena cava (IVC) was incised, and the cava exposed up to the level of the left renal vein. The superior mesenteric artery (SMA) was exposed at this level and a free te placed around it. The inferior mesenteric artery (IMA) was identified and divided between ties. The acrts was freed up at the level of the IMA and a free tie was placed around it. Next, the porta hepatis was dissected. The common bille duct was dentified distally and the distal end was ligated. The common bille duct was cut above the tie so that free flow of bile could be seen. The galibladder was opened and irrigated with normal saline until clear fluid was seen in the common bile duct. Dissection then continued across the ports. The supraduodenal vessels were ligated with ties. The gastroutedenal artery was identified and ligated. The common bile duct was cut above the seen to the common bile duct was cut above the seen to the common bile duct was cut above the seen the common bile duct. Dissection then continued across the ports. The supraduodenal vessels were ligated with ties. The gastroutedenal artery was identified and ligated.

Was divided between ties. The lift gastric artery and vein were identified, and, if there was no evidence of an aberrant left aftery, they were divided between ties. If an aberrant left hepatic artery was preserved, the left gastric artery was preserved to the displaced part of the displaced were the post.

The portal vein was exposed and the confluence of the superior mesenteric vein and splenic vein was identified. A cannula was placed in the distal splenic vein and the splenic vein was ligated proximal to the cannula. Pre-cooling of the liver with Ringers Lactate was then started. A free tie was placed around the superior mesenteric vein. Lastly, the IVC was exposed and the left and right renal veins were identified.

THE PATIENT WAS THEN FULLY HEPARINIZED. THE DISTAL ADRITA WAS LIGATED AND A CANNULA WAS PLACED IN THE ADRITA AT THE LEVEL OF THE IMAA. IN COMMUNICION WITH OTHER RETRIEVAL TEAMS, THE FLUSH PROCEEDED. CRUSHED ICE WAS PLACED ON THE LIVER AND ROBENDES. THE ULYER WAS RESIDED WITH A PORTION OF THE DIAPHRAM. THE VICE WAS DIVIDED ADOPTIVE RENAL VEIN. THE PORTAL VEIN WAS DIVIDED ADOPTIVE RENAL VEIN. THE PORTAL VEIN WAS DIVIDED BELOW THE CONFLUENCE. THE SMA WAS FULLY EXPOSED. IF THERE WAS NO ABERRAWNIT ROTH HEPATIC ATTEXT, THE SUPERIOR MEETHERS ATTEMPT WAS DIVIDED AND THE CELLAG AND WAS TRACED ALONG WAS THEN RESIDENCE. THE STANDARD WAS TRACED AND THE ADDRESS. WAS STANDARD TO THE ADDRESS. WAS STANDARD THE ADDRESS. WAS STA

Aberrant Vessels:	
Organs Retrieved:	
Other:	
Signature:	

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# **Exhibit 2: DCD Liver Retrieval Operative Note**

CSF-9-39

UNIVERSITY OF TORONTO LIVER TRANSPLANT PROGRAM

#### **DCD LIVER RETRIEVAL OPERATIVE NOTE**

Hospital:		Date:			
Patient Name:		Medica	al Record Number:		
Surgeons:					
sustaining therapy, the It After this pre-determined midline incision was mad intestines retracted medi	r is givenof heparin in the ICU, CU team witnesses the cessation of ventil time, the donor is transferred to the OR, de from the stemal notch down to the publishy, and the peritoneum over the Inferior tally, a cannula was inserted immediately.	lation and circ. prepped and o ic bone. The a Vena Cava (IV	ulation for a pre-det draped in the usual bdominal cavity wa /C) was incised. Th	ermined time per sterile fashion. A s entered, the	riod.
The crura of the diaphra ice was placed on the liv	gm were divided and the supraceliac aort er and both kidneys.	a was clamped	and the cold perfu	sion started. Cru	shed
	ras identified divided distally; the gallbladd out from the common bile duct.	der was opene	d and irrigated with	saline solution u	ntil
artery and dividing the gartery and divided, the left gastric a were divided (to preserve	usion of the porta hepatic, cold dissection astrodoudenal artery. Dissection continue rtery dissected and preserved, and the sr e an aberrant left hepatic artery). The dis The portal vein was dissected distally and	ed through to the mall branches to section of the co	e celiac trunk, the to the lesser curvati	splenic artery was ure of the stomac	s :h
dissected down to the ac renal arteries the aorta v The right atrium was divi the right renal vein and it The left triangular ligame	s, dissection of the superior mesenteric ai orta (to preserve an aberrant right hepatic vas divided just above the renal arteries. ded distally to get the supra hepatic IVC : t was divided above the renal vein. that of the liver was divided and the diaphremoved with a patch of the diaphragm and	artery). After in and the infra he agm incised bit	dentifying and secu epatic IVC was diss laterally. The right I	ring the origin of sected until the or obe was mobilize	both rigin of ed,
A specimen of spleen wa	as taken for HLA typing.				
Mass closure of the skin instrument count.	began after removing all the ice and all the	he instruments	and ensuring corre	ect sponge and	
ADDITIONAL NOTES					
Aberrant Vessels:					
Organs Retrieved:					
Other:					
Signature:					

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# Exhibit 3: Liver Transplant Operating Room Data - Page 1

				CSF-9-40	
Trillium Gift of Life Network	LIVER TRANSPLANT OPERATING ROOM DATA		## TRILLIUM GIFT OF LIFE ### 483 Bay Street South Tower, 4 <sup>th</sup> Floor Toronto, Ontain M5G 2C9 Telephone (24/7): 1.877.363.8456 Facsimic: 1.866.557.0062  #### C70 ### 100062		
TRANSPLANT PROG	RAMS:				
	O ORIGINATING COOLER AN FAX BOTH SIDES OF FORM TO		00.	U HAVE ANY QUESTIONS	
DONOR INFORM	MATION		LIVER:		
DONOR TGLN #:	DONOR CTD #:	RECOV	ERY SURGEON:		
DONOR AGE: I	DONOR ABO & Rh: D	ONOR HT: cm D	ONOR WT:kg DONOR	R CMV (P/N):	
NDD CROSS CL	LAMP:	DATE:	TIME:	EST:	
DCD START WI	T (WLS):	DATE:	TIME:	EST	
FLUSH TIM	ME (END WIT)/CROSS CLAMF	TIME: DATE:	TIME:	EST	
TOTAL WI	Т:	TIME:	(minutes)		
DONOR LIVER DESC	RIPTION:				
Vessels Enclosed: Y					
Normothermic Perfus	sion Pump: Y N				
RECIPIENT INFO	ORMATION				
RECIPIENT TGLN #:			MRN #:		
RECIPIENT CTR #:					
RECIPIENT HT:	cm RECIPIEN	IT WT: kg			
RECIPIENT CMV (P/N):	RECIPIEN	IT ABO & Rh:			
			(May use hospital sticker or stam	p if available)	
RECIPIENT PRIMARY	DISEASE:				
TRANSPLANT HOSPITA	AL:				
RECIPIENT OR: PLE	ASE COMPLETE THIS BO	X			
TRANSPLANT TYPE:	FULL GRA	VFT:	SPLIT/CUTDOWN:		
* TRANSPLANT START:			TIME:	EST RN:	
* PORTAL VIEN CROSS (			TIME:	EST Please fill	
* REMOVED FROM COLD			TIME:	EST OR times	
* REMOVED FROM NORM	MOTHERMIC: DATE:		TIME:	EST Thank	
PERFUSION PUMP	ne.		TIME:	you	
* PORTAL VIEN CLAMP (			TIME:		
Vessels Used (please ide			TIME:		
vessels used (please ide	mury): I N				
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# Exhibit 4: Liver / Kidney Transplant Operating Room Data Page 1

							CSF-9-181
Trillium Gift of Life Network	Gift of Life CORED A TING DOOM DATE			TRILLIUM GIFT OF LIFE 483 Bay Street South Tower, 4th Floor Toronto, Ontario MSG2C9 Telephone (24/7): 1.877.383.8456 Facslimle: 1.866.557.8100 CTO # 100062			
TRANSPLANT PRO	GRAMS:						
TORONTO: RETURN OUTSIDE TORONTO:				00.		OU HAVE ANY	QUESTIONS
DONOR INFOR	MATION	LIVER:		KIDNEY:			
DONOR TGLN #:	DONO	R CTD #:	RECOV	ERY SURGEO	ON:		
DONOR AGE:	DONOR ABO & R	h: DONOR	HT: cm D	ONOR WT: _	kg DON	OR CMV (P/N):	
NDD CRO	SS CLAMP:		DATE:		_TIME:	EST	
DCD STAI	RT WIT (WLS):		DATE:		TIME:	EST	
FLU	SH TIME (END WIT)	CROSS CLAMP TI	ME: DATE:		_TIME:	EST	
тот	AL WIT:		TIME:	(min	utes)		
DONOR LIVER / KIDN Vessels Enclosed: Y Normothermic Perfu Kidney on Pump: Y	□N □ sion Pump: Y □						
RECIPIENT INFO	ORMATION						
RECIPIENT TGLN #	t:			MRN#:			
RECIPIENT CTR #:							
RECIPIENT HT:	cm	RECIPIENT WT:	kg				
RECIPIENT CMV (P/N	1):	RECIPIENT ABO	& Rh:				
RECIPIENT PRIMARY	DISEASE:			(May use ho	ospital sticker or	stamp if available	.
TRANSPLANT HOSPI	TAL:			,,			
RECIPIENT OR: PI	LEASE COMPLETI	E THIS BOX					
Liver			_			_	
TRANSPLANT TYPE:		FULL GRAFT:			UTDOWN:	_	
* TRANSPLANT START:		DATE:					RN:
* PORTAL VIEN CROSS		DATE:					Please fill in these
* REMOVED FROM COLL * REMOVED FROM NOR		DATE:		TIME:		EST	OR times.
PERFUSION PUMP:	- TERMIO	DATE:		TIME:		EST	Thank you
* PORTAL VIEN CLAMP	OFF:	DATE:		TIME:		EST	- TGLN
* HEPATIC ARTERY CLA		DATE:		TIME:		EST	
Vessels Used (please id	lentify): Y N						
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