



Liver Transplant Clinical Pathway

Post-Operative Day (POD)	POD 0	POD 1	POD 2	POD 3	POD 4	POD 5	POD 6	POD 7-10
Milestones	Transfer to Multi-Organ Transplant Unit							Discharge from Hospital
								Medication Scripts 24 hours prior to D/C
Consults	Physiotherapy Infectious Diseases Social Work			Dietician	Endocrinology if required			
Vital Signs	Vital Signs Cardiac Monitoring	q 1h	q 1h	q 4h	q 8h	q 8h	q 8h	q 8h
				D/C Cardiac Monitor				
Respiratory	Extubate per ICU If increased risk of bleeding or vessels concerns during OR - Do NOT extubate until after liver ultrasound	Oxygen Therapy Oxygen Titration q Target: SpO2≥92% q Target: SpO2 88-92% (CO2 retainers)						
Diagnostic Imaging	Chest AP Portable 12 lead ECG	Liver ultrasound (within 24						
Patient Care	Weight Intake and output CVP Central Lines Foley Drain/Tube Care - Malecot Drain/Tube Care - HMV Wound assessment Dressing	daily q 1h Target: 7-10 PA catheter removed in OR and replaced with triple lumen daily	daily q 1h Triple lumen removed daily	daily q 4h Remove Foley Catheter Remove Malecot daily	daily q 12h Remove Hemovac Drain daily	daily q 12h Dressing change daily D/C dressing to air if dry	daily q 12h Dressing change daily D/C dressing to air if dry	daily q 12h Dressing change daily D/C dressing to air if dry
Diet	NPO	Clear Fluids	Diet As Tolerated	Diet As Tolerated	Diet As Tolerated	Diet As Tolerated	Diet As Tolerated	Diet As Tolerated
Activity	Dangle at bedside	Activity As Tolerated Chair	Activity As Tolerated Chair for meals Walk with assist	Activity As Tolerated Chair for meals Walk 2x/day	Activity As Tolerated Chair for meals Walk 2x/day Exercise class	Activity As Tolerated Chair for meals Walk 3x/day Exercise class	Activity As Tolerated Chair for meals Walk 3x/day Exercise class Stair assessment	Activity As Tolerated Chair for meals Walk 3x/day Exercise class
Education			Transplant Education Binder	Transplant Education Video	Nursing Education - Infection and Rejection Initiate subnormothermic machine perfusion	Discharge Planning	Discharge Calendar Post-operative Day 7-10 Education if D/C Post-operative Day 7	Medications - Pharmacist (Day before Discharge) Patient Visit to Out Patient Pharmacy (Day before Discharge)

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Laboratory								
Point of Care Tests								
Point-of Care Glucose	q 6h	q 6h	q 12h	q 12h	q 12h	q 12h	q 12h	q 12h
Point-of Care Hemoglobin	q 6h x 24 hours							
Point-of Care Lactate	q 6h x 24 hours							
Point-of Care Electrolytes	q 6h x 24 hours							
Chemistry								
Electrolytes	q 12h x 24 hours	daily						
Urea	q 12h x 24 hours	daily	daily	daily	daily	daily	daily	daily
Creatinine	q 12h x 24 hours	daily	daily	daily	daily	daily	daily	daily
Albumin	q 12h x 24 hours	daily	daily	daily	daily	daily	daily	daily
Calcium	q 12h x 24 hours	daily	daily	daily	daily	daily	daily	daily
Magnesium	q 12h x 24 hours	daily	daily	daily	daily	daily	daily	daily
Lactate	q 12h x 24 hours	daily	daily	daily	daily	daily	daily	daily
Glucose, random	q 12h x 24 hours	daily	daily	daily	daily	daily	daily	daily
Hematology								
Coagulation								
CBC	q 6h x 24 hours	q 12h	daily	daily	daily	daily	daily	daily
INR/PTT	q 6h x 24 hours	q 12h	daily	daily	daily	daily	daily	daily
Fibrinogen	q 12h	q 12h	daily	daily	daily	daily	daily	daily
Liver Function/Enzymes								
Bilirubin, direct	q 12h x 24 hours	daily	daily	daily	daily	daily	daily	daily
Bilirubin, total	q 12h x 24 hours	daily	daily	daily	daily	daily	daily	daily
ALT	q 6h x 24 hours	q 12h	daily	daily	daily	daily	daily	daily
AST	q 6h x 24 hours	q 12h	daily	daily	daily	daily	daily	daily
ALP	q 6h x 24 hours	q 12h	daily	daily	daily	daily	daily	daily
Transplant Lab								
DSA	once							
Other								
<input checked="" type="checkbox"/> Tacrolimus level (Target 8-12)		daily	daily	daily	daily	daily	daily	daily
Medications								
VTE Prophylaxis								
Immunosuppression								
<input checked="" type="checkbox"/> Tacrolimus	as per Hepatology							
<input checked="" type="checkbox"/> Prednisone	Liver Transplant Prednisone Taper Module							
<input checked="" type="checkbox"/> MMF/Cellcept	as per Hepatology (once platelets ≥ 50)							
<input type="checkbox"/> Simulect/Basiliximab (if indicated by impaired renal function)	as per Hepatology - first dose given pre transplant				20 mg			
Antimicrobials								
<input checked="" type="checkbox"/> Ceftriaxone	1 g, IV q 24h x 48 hours							
<input checked="" type="checkbox"/> Metronidazole/Flagel	500 mg, IV, q 12h x 48 hours							
<input checked="" type="checkbox"/> Fluconazole	100 mg daily x 7 days for high risk recipients 400 mg daily x 4 weeks - see prophylaxis protocols							
Antivirals								
<input type="checkbox"/> Valganciclovir (if CMV mismatch)	as per Hepatology							
Analgesics								
<input checked="" type="checkbox"/> Hydromorphone	as per Surgery							
<input checked="" type="checkbox"/> Acetaminophen	as per Surgery							
Other								
<input checked="" type="checkbox"/> ASA	81 mg, daily (once platelets ≥ 40 and INR < 1.5)							
<input checked="" type="checkbox"/> Electrolyte Replacement	as per Electrolyte Replacement Protocol							



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<input type="checkbox"/> Alprostadil/Prostaglandin (if indicated by marginal donor graft, DCD organ, high AST, CIT >10 hours)	<i>as per Hepatology; recommended 0.1 mcg/kg/hr, increase q hr by 0.1 to max rate 0.5 mcg/kg/hr (maintain SBP > 90) - continue until AST <1000</i>							