

## LIVER TRANSPLANT RECIPIENT INPATIENT CLINICAL PATHWAY **ICU Module**

Admit Date:	DC Date:

	<b>-</b>		1	100 Module			2020					4
ı	Pre-Op Holding Area Date:	OR Date:	Day 0 SICU Date:	POD#1 SICU Date:	POD#2 SICU Date:	POD#_ SICU Date:	POD#_ SICU Date:	POD#_ SICU Date:	POD#_ SICU Date:	POD#_ SICU Date:	Transition Criteria To Transfer to Farr10 (CHECK BOXES IF MET)	BIDMC "Trigger" Criteria
NOTES	<ul><li>Hepatology consult</li><li>Consents: Surgery, SICU and study (as indicated)</li><li>Health Care Proxy by RN</li></ul>	<ul> <li>Time-out and group huddle to confirm patient identity and planned procedure</li> <li>Verify and sign ABO compatibility form b efore incision is made</li> </ul>	Pre-op meds restarted as appropriate	<ul> <li>MD and nursing to review and reconcile all pre-transplant medication</li> <li>Pre-op meds restarted as appropriate</li> </ul>	MD and nursing to review and reconcile all pre-trans- plant medication     Pre-op meds restarted as appropriate	<ul> <li>MD and nursing to review and reconcile all pre-transplant medication</li> <li>Pre-op meds restarted as appropriate</li> </ul>	MD and nursing to review and reconcile all pre-trans- plant medication     Pre-op meds restarted as appropriate	<ul> <li>MD and nursing to review and reconcile all pre-transplant medication</li> <li>Pre-op meds restarted as appropriate</li> </ul>	<ul> <li>MD and nursing to review and reconcile all pre-transplant medication</li> <li>Pre-op meds restarted as appropriate</li> </ul>	<ul> <li>MD and nursing to review and reconcile all pre-transplant medication</li> <li>Pre-op meds restarted as appropriate</li> </ul>	☐ All pre-op and post-op medications reviewed and reconciled by MD and nursing	<ul> <li>Heart Rate &lt;40 or &gt;130</li> <li>Systolic Blood Pressure &lt; 90</li> <li>Respiratory Rate &lt; 8 or &gt; 30</li> </ul>
TESTS	<ul> <li>H&amp;P including weight</li> <li>LABS: CBC, Chem 7, LFTs, alb, Ca, Phos, Mg, Coags UA, UC, CXR, EKG</li> <li>Rectal swab for VRE</li> <li>Type &amp; cross for liver transplant per blood bank protocol</li> <li>Check: HBV DNA If HBsAg pos recipient HBsAb titerIf HBcAb pos donor</li> <li>Check CMV serology: If IgG positive, do nothing. If no results or IgG negative, recheck CMV IgG/IgM</li> <li>If liver/ kidney check with surgeon re: need for HLA typing and crossmatch to be sent to BWH</li> <li>Review all luminex anti-HLA antibody results</li> </ul>	<ul> <li>Labs per Anesthesia</li> <li>Maintain Glucose 100-150mg/dl</li> <li>TEE TBD by surgeon and anesthesia, consider if: EF&lt;50% Known cardiac disease, includes CAD Significant valve disease, ASD, PFO Pulm hypertension with PA pressure &gt;35mmHg</li> </ul>	VS per SICU protocol (see trigger criteria at right) Weight on admission and daily Strict I & O CBC, Chem 7, LFTs, alb, Ca, Phos, Mg Coags on admission and q8h Finger stick glucose (target <120) CXR, EKG ABG 1h after all vent changes or q8h Amylase on admission to SICU, if normal not thereafter	<ul> <li>CXR if still intubated</li> <li>ABG q1h after all vent changes or q8h until extubated, then q24h when stable</li> <li>HBV-Quant HBsAb titer (if on HBlg)</li> </ul>	VS per SICU protocol (see trigger criteria at right) Weight daily Strict I & O Labs q12h, if stable reduce to q day Finger stick glucose (target <120) CXR if still intubated ABG q1h after all vent changes or q8h until extubated, then q24h when stable HBV-Quant HBsAb titer (if on HBIg) Tacrolimus level q 0730 (12 hour trough) Hepatic Duplex by Radiology at bedside (living donor recipients only)	VS per SICU protocol (see trigger criteria at right) Weight daily Strict I & O Labs q12h, if stable reduce to q day Finger stick glucose (target <120) CXR if still intubated ABG q1h after all vent changes or q8h until extubated, then q24h when stable HBV-Quant HBsAb titer (if on HBIg) Tacrolimus level q 0730 (12 hour trough) Hepatic Duplex by Radiology at bedside (living donor recipients only)	VS per SICU protocol (see trigger criteria at right) Weight daily Strict I & O Labs q12h, if stable reduce to q day Finger stick glucose (target <120) CXR if still intubated ABG q1h after all vent changes or q8h until extubated, then q24h when stable HBV-Quant HBsAb titer (if on HBIg) Tacrolimus level q 0730 (12 hour trough) Hepatic Duplex by Radiology at bedside (living donor recipients only)	VS per SICU protocol (see trigger criteria at right) Weight daily Strict I & O Labs q12h, if stable reduce to q day Finger stick glucose (target <120) CXR if still intubated ABG q1h after all vent changes or q8h until extubated, then q24h when stable HBV-Quant HBsAb titer (if on HBIg) Tacrolimus level q 0730 (12 hour trough) Hepatic Duplex by Radiology at bedside (living donor recipients only)	VS per SICU protocol (see trigger criteria at right) Weight daily Strict I & O Labs q12h, if stable reduce to q day Finger stick glucose (target <120) CXR if still intubated ABG q1h after all vent changes or q8huntil extubated, then q24h when stable HBV-Quant HBsAb titer (if on HBlg) Tacrolimus level q 0730 (12 hour trough) Hepatic Duplex by Radiology at bedside (living donor recipients only)	VS per SICU protocol (see trigger criteria at right) Weight daily Strict I & O Labs q12h, if stable reduce to q day Finger stick glucose (target <120) CXR if still intubated ABG q1h after all vent changes or q8h until extubated, then q24h when stable HBV-Quant HBsAb titer (if on HBIg) Tacrolimus level q 0730 (12 hour trough) Hepatic Duplex by Radiology at bedside (living donor recipients only)		SaO2 <90% with Oxygen Therapy     Urine Output <50cc in 4 hours     Acute Change in Conscious State     Marked Nursing Concern  SERVICE NAME PAGE
CARDIOVASCULAR	<ul> <li>Blood bank will set up blood products-no extra order needed beyond alerting BB of case</li> <li>Routine preop platelet transfusion is NOT indicated</li> <li>Give antiarrythmics and beta-blockers prescribed for cardiac disease</li> <li>Order Heparin 5,000 Units SC to be given in pre-op holding by RN unless HIT (heparin induced thrombocytopenia) antibody positive</li> <li>Cardiology assessment if new EKG changes</li> </ul>		Pressors- Patients requiring >30 cc/kg fluid bolus for low BP (target MAP >60) with adequate filling pressures (mean PA pressure>20-30) Neosynepherine 0 .1-1 mcg/kg/min (1st choice) <u>OR</u> Norepinephrine 0 .055 mcg/kg/min if no Neo effect  SEE TRANSFUSION TARGETS ON RIGHT  SIDE OF SHEET Heparin 5,000 Units SC q12h-hold if patient is actively bleeding and/or INR>3.0 Compression boots if not walking	Same as prior day	Same as prior day	Same as prior day	Same as prior day	Same as prior day	Same as prior day	Same as prior day	<ul> <li>□ Stable hemodynamics and cardiac rhythm</li> <li>□ No active bleeding and stable Hct INR, plt count</li> <li>□ No ongoing transfusion requirements</li> </ul>	Liver Transplant Coordinators  Kim Sullivan 31309  Erin Cavanaugh 36917  *On-Call Pager 39756
RESPIRATORY			<ul> <li>Must have MD order to change vent settings</li> <li>Vent management settings per POE:</li> <li>Keep pO<sub>2</sub>&gt;80, keep O<sub>2</sub> sat &gt;96%, keep pCO<sub>2</sub> 35-45, tidal volume 6cc/kg, rate 10, assist control 12-14, FIO<sub>2</sub> 50%, PEEP 5, increase to support O<sub>2</sub></li> <li>CXR</li> <li>Consider wean to extubate (check with attending)</li> </ul>	<ul> <li>Joint Transplant MD and ICU MD decision to approve weaning protocol</li> <li>O<sub>2</sub> by mask/nasal cannula to maintain sat&gt;92%</li> <li>Incentive spirometer X10 q1h when awake</li> <li>Cough pillow while awake</li> </ul>	Same as prior day	Same as prior day	Same as prior day	Same as prior day	Same as prior day	Same as prior day	□ Extubated □ O₂ sats >92% on <2 L nasal cannula □ Most recent CXR: No evidence of new process or fluid overload □ Able to clear own secretions	TRANSFUSION TARGET GUIDE (after POD#2 transfuse for symptoms)
	<ul> <li>Nephrology consult (if patient has ESRD)</li> <li>Void on call to OR</li> </ul>	<ul> <li>Lasix- only if volume overloaded (80mg in kit)</li> <li>Bolus after reperfusion PRN in patients with increased filling pressure</li> <li>Need for Lasix infusion 1-5 mg/h TBD by surgeon and anesthesiologist for elevated PA pressure and/or low urine output</li> <li>For hypovolemia: Plasmalyte- No Lactated Ringers</li> <li>Foley placed after anesthesia induction</li> <li>CVVH or CVVHD run by SICU RN in patients who were on it pre op and/or had pre-transplant renal dysfunction and oliguria</li> </ul>	<ul> <li>IVF maintenance D5 1/2 NS at 100 –150cc/h</li> <li>If diabetic or on insulin, use ½ NS at 100-150 cc/h AND start D5 W</li> <li>@10cc/h per SICU protocol</li> <li>Fluid boluses as needed with NS</li> <li>Salt poor albumin (25%) to keep albumin &gt;2.0</li> </ul>	<ul> <li>Same as prior day</li> <li>Assess volume status and consider ↓ IVF</li> </ul>	<ul> <li>Same as prior day</li> <li>Assess volume status and consider ↓ IVF</li> </ul>	<ul> <li>Same as prior day</li> <li>Assess volume status and consider ↓ IVF</li> </ul>	<ul> <li>Same as prior day</li> <li>Assess volume status and consider ↓ IVF</li> </ul>	<ul> <li>Same as prior day</li> <li>Assess volume status and consider ↓ IVF</li> </ul>	<ul> <li>Same as prior day</li> <li>Assess volume status and consider ↓ IVF</li> </ul>	<ul> <li>Same as prior day</li> <li>Assess volume status and consider ↓ IVF</li> </ul>	☐ Weight trending down towards baseline dry weight	Plt         >50k         >50k         Plt         >100k           INR         <2.0         <2.0         INR         <1.5           Fibr         >100         >100         Fibr         >150
DRAINS, LINES & WOUND CARE		Lines in place:  ☐ Periph IV  ☐ A-line  New lines/drains/tubes placed:  ☐ R IJ ☐ Foley  ☐ Swan ☐ T-tube  ☐ RIC line ☐ NG  ☐ JP X 2 ☐ ICP	Lines/drains/tubes in place:  Periph IV Swan T-tube Foley A-line RIC line Roux tube NG RIJ JP X 2 ICP  MANAGEMENT: adhere to BIDMC central access device guideline for insertion and care  JP drains X2 to bulb suction: assess & empty output q1-2h(to maintain continuous suction) strip & clean with CHG T tube or Roux tube: assess and empty on admit then assess & empty output q1h Foley to gravity & record output q1h NG to cont. low wall suction: record output q4h and flush q shift with 10cc NS	<ul> <li>care as previous day</li> <li>Dressing change AND replace DC:</li> <li>RIC line</li> </ul>	Lines/drains/tubes in place:  Periph IV Swan Roux tube  A-line SPX 2 ICP  RIJ T-tube Foley  MANAGEMENT of remaining drains, lines and wound care as previous day  Dressing change AND replace DC:  Lateral JP when <200cc serous fluid/day leave in if bloody or bilious  Medial JP when <200cc serous fluid/day and t-tube clamped if present and cholangiogram shows no leak and output is not bloody or bilious  NG same as previous day	Lines/drains/tubes in place:  □ Periph IV □ Swan □ Roux tube □ A-line □ JP X 2 □ ICP □ R IJ □ T-tube □ Foley  MANAGEMENT of remaining drains, lines and wound care as previous day  • Dressing change AND replace DC: • Lateral JP when <200cc serous fluid/day-leave in if bloody or bilious  • Medial JP when <200cc serous fluid/day and t-tube clamped if present and cholangiogram shows no leak and output is not bloody or bilious  • NG same as previous day	Lines/drains/tubes in place:  Periph IV Swan Roux tube A-line JP X 2 ICP R IJ Foley  MANAGEMENT of remaining drains, lines and wound care as previous day Dressing change AND replace DC: Lateral JP when <200cc serous fluid/day-leave in if bloody or bilious Medial JP when <200cc serous fluid/day and t-tube clamped if present and cholangiogram shows no leak and output is not bloody or bilious NG same as previous day	Lines/drains/tubes in place:  □ Periph IV □ Swan □ Roux tube □ A-line □ JP X 2 □ ICP □ R IJ □ T-tube □ Foley  I MANAGEMENT of remaining drains, lines and wound care as previous day  • Dressing change AND replace DC: • Lateral JP when <200cc serous fluid/day-leave in if bloody or bilious  • Medial JP when <200cc serous fluid/day and t-tube clamped if present and cholangiogram shows no leak and output is not bloody or bilious  • NG same as previous day	Lines/drains/tubes in place:  Periph IV Swan Roux tube  A-line SPX 2 ICP RIJ Foley  MANAGEMENT of remaining drains, lines and wound care as previous day  Dressing change AND replace DC:  Lateral JP when <200cc serous fluid/day-leave in if bloody or bilious  Medial JP when <200cc serous fluid/day and t-tube clamped if present and cholangiogram shows no leak and output is not bloody or bilious  NG same as previous day	Lines/drains/tubes in place:  Periph IV Swan Roux tube  A-line JP X 2 ICP  R IJ T-tube Foley  MANAGEMENT of remaining drains, lines and wound care as previous day  Dressing change AND replace DC:  Lateral JP when <200cc serous fluid/day-leave in if bloody or bilious  Medial JP when <200cc serous fluid/day and t-tube clamped if present and cholangiogram shows no leak and output is not bloody or bilious  NG same as previous day	□ Arterial line removed □ Swan Ganz removed □ ICP monitor removed (if present) □ R IJ trauma line replaced with triple lumen □ Assess if central lines can be removed	STEROID TAPERING PROTOCOL  Methylprednisolone  □ POD#1: 200mg □ POD#2: 150mg □ POD#3: 100mg □ POD#4: 70mg POD#6-20: 20mg q day then decreal 2.5mg every 10 day prior rejection
	<ul> <li>Diabetic patients: Hold Metformin and manage insulin per protocol</li> <li>NPO, except for Mycophenolate Mofetil and Fluconazole</li> </ul>	NPO, no tube feeds or TPN	NPO, no tube feeds or TPN Pantoprazole 40mg IV daily* Replace electrolytes per SICU protocol* Maintain glucose <120 per SICU protocol		*Same as prior day     Assess glucose control     Maintain glucose <120 per SICU protocol     Start clears if no aspiration risk AND NG out     Advance diet to regular if tolerating clears     TF or TPN if applicable	*Same as prior day     Assess glucose control     Maintain glucose <120 per SICU protocol     Start clears if no aspiration risk AND NG out     Advance diet to regular if tolerating clears     TF or TPN if applicable	<ul> <li>*Same as prior day</li> <li>Assess glucose control</li> <li>Maintain glucose &lt;120 per SICU protocol</li> <li>Start clears if no aspiration risk AND NG out</li> <li>Advance diet to regular if tolerating clears</li> <li>TF or TPN if applicable</li> </ul>	Advance diet to regular if tolerating clears	*Same as prior day     Assess glucose control     Maintain glucose <120 per SICU protocol     Start clears if no aspiration risk AND NG out     Advance diet to regular if tolerating clears     TF or TPN if applicable	<ul> <li>*Same as prior day</li> <li>Assess glucose control</li> <li>Maintain glucose &lt;120 per SICU protocol</li> <li>Start clears if no aspiration risk AND NG out</li> <li>Advance diet to regular if tolerating clears</li> <li>TF or TPN if applicable</li> </ul>		VALGANCICLOVIR  Maintenance/Prophylaxis Renal Dose
	<ul> <li>Anesthesia consult</li> <li>Pain score as 6th Vital Sign discussed with patient and family by RN</li> </ul>	Gel pads to upper arms, position Thompson bar attachments to table, lower body warmer +/- upper body warmer, position head on foam pillow	Target Pain score 1-4  • Morphine 1-4mg IV q1-2h PRN  If Morphine not tolerated or ineffective:  • Hydromorphone 0.5-2mg IV q1-2h PRN  • Propofol if intubated titrated to comfort. Taper prior to extubation  • Ondansetron 4mg IV PRN nausea AND/OR  • Prochlorperazine 5-10mg IV q6-8h PRN*  • Bair hugger for hypothermia for first 2 hours	Target Pain Score 1-4  Same as prior day for pain and comfort  Propofol if intubated and needed. Titrate to effect.  Daily wake-up if on sedation	Target Pain Score 1-4  Same as prior day for pain and comfort  Propofol if intubated and needed. Reduce to facilitate extubation.  Daily wake-up if on sedation	Target Pain Score 1-4  Same as prior day for pain and comfort  Propofol if intubated and needed. Reduce to facilitate extubation.  Daily wake-up if on sedation	Target Pain Score 1-4      Same as prior day for pain and comfort     Propofol if intubated and needed. Reduce to facilitate extubation.      Daily wake-up if on sedation	Target Pain Score 1-4      Same as prior day for pain and comfort     Propofol if intubated and needed. Reduce to facilitate extubation.     Daily wake-up if on sedation	Target Pain Score 1-4  Same as prior day for pain and comfort  Propofol if intubated and needed. Reduce to facilitate extubation.  Daily wake-up if on sedation	Target Pain Score 1-4      Same as prior day for pain and comfort     Propofol if intubated and needed. Reduce to facilitate extubation.      Daily wake-up if on sedation	☐ Adequate pain control 1-4	>60ml/min       900mg       Daily         40-59ml/min       450mg       Daily         25-39ml/min       450mg       q 48h         10-24ml/min       450mg       2X/week         <10ml/min       Use Ganciclovir
	<ul> <li>Mycophenolate Mofetil 1000mg PO on admission</li> <li>Order "ON CALL TO OR" Methylprednisolone 500mg IV</li> </ul>	Methylprednisolone 500 mg IV (after anesthesia induction)	Mycophenolate Mofetil 1000mg NG BID     Do not start Tacrolimus or Methlyprednisolone	Mycophenolate Mofetil 1000mg NG/PO BID     Steroid per protocol (see right of sheet)     Tacrolimus to start in evening @1mg NG q 12h (renal adjust) to achieve target trough level 10-12 ng/ml	Mycophenolate Mofetil 1000mg NG/PO BID     Steroid per protocol     Tacrolimus NG/PO q12h (renal adjust) to achieve target trough level 10-12ng/ml	Mycophenolate Mofetil 1000mg NG/PO BID     Steroid per protocol     Tacrolimus NG/PO q12h (renal adjust) to achieve target trough level 10-12ng/ml	Mycophenolate Mofetil 1000mg NG/PO BID     Steroid per protocol     Tacrolimus NG/PO q12h (renal adjust) to achieve target trough level 10-12ng/ml	Mycophenolate Mofetil 1000mg NG/PO BID     Steroid per protocol     Tacrolimus NG/PO q12h (renal adjust) to achieve target trough level 10-12ng/ml	Mycophenolate Mofetil 1000mg NG/PO BID     Steroid per protocol     Tacrolimus NG/PO q12h (renal adjust) to achieve target trough level 10-12ng/ml	Mycophenolate Mofetil 1000mg NG/PO BID     Steroid per protocol     Tacrolimus NG/PO q12h (renal adjust) to achieve target trough level 10-12ng/ml		
	*** HAND HYGIENE***  Transplant Infectious Disease consult (if HIV+) Hibiclens wash When donor suitability confirmed, give: Fluconazole 400mg PO on admission Order "ON CALL TO OR": Ampicillin-Sulbactam 3g IV	*** HAND HYGIENE***  Preop Antibiotic prophylaxis: Ampicillin-Sulbactam 3g IV administered 30 minutes prior to incision and completed prior to incision  OR If life-threatening allergy to penicillin or cephalosporine or known MRSA colonization or infection: Vancomycin 1g IV AND Levofloxacin 500mg IV administered 60 mins prior to incision and completed prior to incision  Intraoperative Redosing:  Antibiotic Intraop Dose  Ampicillin-Sulbactam 3gm IV q4h  Vancomycin 1gm IV q12h  Levofloxacin No redosing needed  If blood loss>1500cc, redose at end of case	q6h <b>OR</b> Vancomycin 1g IV q12h <b>AND</b> Levofloxacin redose not needed	function  • Fluconazole 400mg per NG q day  • Sulfameth/Trimethoprim Suspension 10ml NG/PO q day		*** HAND HYGIENE***  • Same as prior day	*** HAND HYGIENE***  • Same as prior day	*** HAND HYGIENE***  • Same as prior day	*** HAND HYGIENE***  • Same as prior day	*** HAND HYGIENE***  • Same as prior day		MALE
PATIENT EDUCA- TION/ COPING/ MENTAL STATUS/	<ul> <li>Nursing to review Learning Center handout "Liver Transplant: What To Expect" with patient and family</li> <li>Nursing to review patient version of the pathway with patient and family</li> <li>Transplant surgeon to visit with patient on Farr 10 or in holding area</li> </ul>	RN to update family q hour	Surgeon to meet with family post op	Teach cough/deep breathing Instruct in use of incentive spirometer 10X q1h while awake Case management consult	Reinforce coughing/deep breathing     Reinforce use of incentive spirometer	Reinforce coughing/deep breathing     Reinforce use of incentive spirometer	Reinforce coughing/deep breathing     Reinforce use of incentive spirometer	Reinforce coughing/deep breathing     Reinforce use of incentive spirometer	Reinforce coughing/deep breathing     Reinforce use of incentive spirometer	Reinforce coughing/deep breathing     Reinforce use of incentive spirometer	☐ Alert ☐ Awake ☐ Non-combative, cooperative and safely monitored without restraint	
ACTIVITY	• Ad lib		Bed rest, turn q2h, HOB 300     Fall risk assessment per nursing	<ul> <li>OOB→chair TID if extubated and VS stable</li> <li>Fall risk assessment per nursing</li> <li>Exercise program per Pre-Admission Packet with assist from family and/or hospital staff</li> </ul>	Same as prior day     OOB→chair TID	Same as prior day     OOB→chair TID	Same as prior day     OOB→chair TID		Same as prior day     OOB→chair TID	Same as prior day     OOB→chair TID	☐ OOB→chair with stable VS	© 2006 Beth Israel Deaconess Medical Cente
	<ul> <li>If HBsAg+ recipient or HBcAb+ donor:         <ul> <li>○ HBIg 10,000 units IV ordered and sent to OR by</li> </ul> </li> <li>Pharmacy</li> </ul>	If HBsAg+ recipient or HBcAb+ donor: HBlg 10,000 Units IV during anhepatic phase		· · · · · · · · · · · · · · · · · · ·	Check HBsAb blood level (Days 1-5) HBlg 5,000 units IV adjust to keep HBsAb>450 units/L (Days 1-5) Restart nucleotide or nucleoside analogue as per	Check HBsAb blood level (Days 1-5) HBlg 5,000 units IV adjust to keep HBsAb>450 units/L (Days 1-5) Restart nucleotide or nucleoside analogue as per	Check HBsAb blood level (Days 1-5) HBlg 5,000 units IV adjust to keep HBsAb>450 units/L (Days 1-5) Restart nucleotide or nucleoside analogue as per	Check HBsAb blood level (Days 1-5) HBlg 5,000 units IV adjust to keep HBsAb>450 units/L (Days 1-5) Restart nucleotide or nucleoside analogue as per	Check HBsAb blood level (Days 1-5) HBlg 5,000 units IV adjust to keep HBsAb>450 units/L (Days 1-5) Restart nucleotide or nucleoside analogue as per	<ul> <li>Check HBsAb blood level (Days 1-5)</li> <li>HBIg 5,000 units IV adjust to keep HBsAb&gt;450 units/L (Days 1-5)</li> <li>Restart nucleotide or nucleoside analogue as per</li> </ul>		<ul> <li>Reproduction without authorization is prohibited Contact BIDMC Transplant Institute at www.bidn for further information Rev. 11/05/07</li> </ul>

BIDMC "Trigger" Criteria
• Heart Rate <40 or >130
Systolic Blood Pressure < 90
Respiratory Rate < 8 or > 30
■ SaO2 <90% with Oxygen Therapy  ■ SaO2 ×90% with Oxygen Therapy
Urine Output <50cc in 4 hours
Acute Change in Conscious State
Marked Nursing Concern
- marked realising contains

SERVICE	NAME	PAGER	PHONE
Liver	Kim Sullivan	31309	2-9831
Transplant Coordinators	Erin Cavanaugh	36917	2-9832
Coordinators	*On-Call Pager	39756	2-9700

		ANSFUSION POD#2 trans			
	NON-BLEEI	DING	BLEE	DING OR V	w/ICP
	Day 0	POD#1		Day 0	POD#1
Hct	>30	>28	Hct	>30	>30
Plt	>50k	>50k	Plt	>100k	>100k
INR	<2.0	<2.0	INR	<1.5	<1.5
Fibr	>100	>100	Fibr	>150	>150

STEROID TAPERING PROTOCOL				
Methylprednisolone	☐ POD#1: 200mg IV			
	☐ POD#2: 150mg IV			
	☐ POD#3: 100mg IV			
	☐ POD#4: 70mg IV			
Prednisone	☐ POD#5: 35mg PO			
	POD#6-20: 20mg PO q day then decrease by 2.5mg every 10 days unless prior rejection			

Maintenance.	/Prophylaxis Rei Adjust	nal Dose
CrCl	Dose	Interval
>60ml/min	900mg	Daily
40-59ml/min	450mg	Daily
25-39ml/min	450mg	q 48h
10-24ml/min	450mg	2X/week
<10ml/min	Use Ganciclovi	ir

CR	EATININE CLEARAN	CE EQUA	I IONS
	MALE		
IBW=50kg EST. CrCl=	(2.3kgxea.in>60 in)_ (140-age) (IBW)/(72)	Kg (SrCr)=	mL/min
	FEMALE	<b>.</b>	
IBW=45Kg EST. CrCl= mL/min	+(2.3kgxea.in>60in)_ (140-age) (IBW)x(0.8	Kg 5)/(72) (Sr0	Cr)=

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