

	e Orders Phase ets/Protocols/PowerPlans
\Box	Initiate Powerplan Phase
_	Phase: Liver Transplant Postop Phase, When to Initiate:
	Initiate Powerplan Phase Phase: Mechanically Ventilated Patients (Vent Bundle) Phase, When to Initiate:
	ransplant Postop Phase
	Add To Problem List Problem: S/P liver transplant
	Add To Problem List
Vital S	igns
$\overline{\mathbf{\nabla}}$	Vital Signs
_	q15 minutes x 4, q30 minutes x2, then q1h.
☑	Pulmonary Capillary Wedge Pressure Monitoring q4h(std)
Activit	у
\checkmark	Bedrest
Food/N	Routine Jutrition
⊡ ⊡	NPO
	Instructions: NPO except for medications
Patien	
$\overline{\mathbf{\nabla}}$	VTE Other SURGICAL Prophylaxis Plan(SUB)*
$\overline{\mathbf{\nabla}}$	Daily Weights
_	qam
	Intake and Output Routine, q1h(std)
☑	Cough and Deep Breathe Routine, q1h-Awake
\checkmark	Incentive Spirometry NSG Routine, g1h-Awake
☑	O2 Sat Continuous Monitoring NSG Routine
$\overline{\mathbf{V}}$	Nasogastric Tube Suction Strength: Low Intermittent, Clamp for medications as tolerated
2	Dressing Care Routine, Action: Change, Central Line, Wednesday, and PRN for soiled, loosened and moist dressings.
☑	Indwelling Urinary Catheter Care q-shift, PRN
\checkmark	Continue Foley Per Protocol Reason: s/p Organ Transplant
$\overline{\mathbf{A}}$	SCD Apply
	Apply To Lower Extremities
☑	Whole Blood Glucose Nsg g4h(std)
	Ordering Physician MUST complete order details of Date & Time below:(NOTE)*
\square	Transplant Organ Perfusion Date and Time
	atory Care
$\overline{}$	ISTAT Blood Gases (RT Collect)





T:N Stat once NOTE: If a mechanical ventilator is needed please order the Mechanically Ventilated Patient Phase (Vent Bundle Phase) in this Plan.(NOTE)* ☑ **RT** Communication prn PRN, Special Instructions: Once patient is extubated, discontinue ABG order. **Continuous Infusion** +1 Hours D5 1/2NS 1,000 mL, IV, 100 mL/hr Medications NOTE: If enrolled in research study, please check for research protocol and orders.(NOTE)* Immunosuppression Medications ☑ +1 Hours mycophenolate mofetil 1,000 mg, Oral Susp, NG, bid, To be given at 0600 and 1800 Comments: Once extubated and tolerating PO change route to PO Anti-infectives +1 Hours ampicillin-sulbactam 1.5 g, IV Piggyback, IV Piggyback, q6h, (for 2 dose) Comments: Coordinate first dose with antibiotics given in surgery. NOTE: If allergic to Penicillin/Cephalosporins place both orders below:(NOTE)* +1 Hours clindamycin 600 mg, IV Piggyback, IV Piggyback, g8h, (for 2 dose) Comments: Coordinate first dose with antibiotics given in surgery. +1 Hours aztreonam 1 g, IV Piggyback, IV Piggyback, q8h, (for 2 dose) Comments: Coordinate first dose with antibiotics given in surgery. $\overline{\mathbf{A}}$ +1 Days valganciclovir 450 mg, Oral Susp, NG, QODay Comments: CMV prophylaxis $\mathbf{\nabla}$ +1 Hours nystatin 100,000 units/mL oral suspension 5 mL, Oral Susp, PO, tid Comments: Swish and Swallow. For fungal prophylaxis +3 Days sulfamethoxazole-trimethoprim SS 80 mg, Tab, PO, g48h Comments: Please give at bedtime. PCP prophylaxis. NOTE: If allergic to Sulfa place order below:(NOTE)* +3 Davs dapsone 25 mg, Tab, PO, QDay Other Medications ☑ Transplant Insulin Sliding Scale Protocol Plan(SUB)* $\overline{\mathbf{A}}$ +1 Hours famotidine 20 mg, Injection, IV Push, q12h Comments: Reduce frequency to g24h for CrCl less than 50 mL/min. +1 Hours pantoprazole 40 mg, Injection, IV Push, QDay +1 Hours phytonadione 10 mg, IV Piggyback, IV Piggyback, g8h, Routine, (for 3 dose) Comments: Begin first dose immediately post-op arrival to TICU. $\overline{\mathbf{A}}$ +1 Hours cloNIDine 0.1 mg, Tab, NG, q4h, PRN Hypertension, PRN SBP greater than 180 mmHg or DBP greater than 90 mmHg +1 Hours LORazepam 0.5 mg, Injection, IV Push, once, PRN Agitation

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	Comments: discontinue once patient is extubated
	NOTE: Place only one order below :(NOTE)*
	+1 Hours morphine
	1 mg, Injection, IV Push, q4h, PRN Pain, Moderate (4-7) (DEF)* Comments: discontinue once patient is extubated
	 2 mg, Injection, IV Push, q4h, PRN Pain, Severe (8-10)
	Comments: discontinue once patient is extubated
	NOTE: If patient is allergic to morPHINE place one order below :(NOTE)*
	+1 Hours HYDROmorphone
	0.5 mg, Injection, IV Push, q4h, PRN Pain, Moderate (4-7), discontinue once patient is extubated (DEF)*
	\Box 1 mg, Injection, IV Push, q4h, PRN Pain, Severe (8-10), discontinue once patient is extubated
	NOTE: If Hepatitis B Prophylaxis needed for core antibody positive donor, consider placing order
	below:(NOTE)* +1 Hours entecavir
	0.5 mg, Tab, NG, QDay
	Comments: Once extubated and tolerating PO, change route to PO.
Labora	-
$\overline{\mathbf{A}}$	SV O2 Measured
$\overline{\mathbf{A}}$	STAT, T;N, once, Type: Blood, Nurse Collect
Ľ	CBC STAT, T;N, once, Type: Blood, Nurse Collect
$\overline{\mathbf{\nabla}}$	CMP
	STAT, T;N, once, Type: Blood, Nurse Collect
$\overline{}$	Calcium Ionized
	STAT, T;N, once, Type: Blood, Nurse Collect
$\overline{\mathbf{\nabla}}$	PT/INR
$\overline{\mathbf{\nabla}}$	STAT, T;N, once, Type: Blood, Nurse Collect PTT
	STAT, T;N, once, Type: Blood, Nurse Collect
$\overline{\mathbf{\nabla}}$	CBC
	Time Study, T;N+480, q8h x 3 occurrence, Type: Blood, Nurse Collect
$\overline{\mathbf{\nabla}}$	AST
$\overline{\mathbf{A}}$	Time Study, T;N+480, q8h x 3 occurrence, Type: Blood, Nurse Collect
Ľ	Potassium Level Time Study, T;N+480, q8h x 3 occurrence, Type: Blood, Nurse Collect
$\overline{\mathbf{v}}$	Glucose Level
_	Time Study, T;N+480, q8h x 3 occurrence, Type: Blood, Nurse Collect
$\mathbf{\overline{\mathbf{A}}}$	PT/INR
	Time Study, T;N+480, q8h x 3 occurrence, Type: Blood, Nurse Collect
$\overline{\mathbf{\nabla}}$	NOTE: AM Labs(NOTE)*
Ľ	SV O2 Measured Routine, T+1;N, qam x 2 day, Type: Blood, Nurse Collect
$\overline{\mathbf{A}}$	CBC
	Routine, T+1;N, qam, Type: Blood, Nurse Collect
$\overline{\checkmark}$	CMP
	Routine, T+1;N, qam, Type: Blood, Nurse Collect
☑	PT/INR Routing Tutink com Tuno: Rlood Nurse Collect
$\overline{\mathbf{\nabla}}$	Routine, T+1;N, qam, Type: Blood, Nurse Collect PTT

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Physician Orders ADULT: Liver Transplant Post Op Plan		
	Routine, T+1;N, qam, Type: Blood, Nurse Collect NOTE: If patient transplanted for Hepatitis B Virus, place order below:(NOTE)* Hepatitis B Antibody	
Diagno	Routine, T+7;N, once, Type: Blood, Nurse Collect ostic Tests	
	Chest 1 VW	
	<i>T;N, Reason for Exam: Other, Enter in Comments, Stat, Portable Comments: post transplant</i>	
	US Abd Comp W/Delay Diet Plan(SUB)*	
	US Abd/Retroper Dup Art In/Vein Out Comp	
0	T;N, Routine, Bedside	
Consu	Its/Notifications/Referrals	
	Notify Physician For Vital Signs Of Notify: Surgical Transplant Resident or Fellow, BP Systolic > 180, BP Diastolic > 90, BP Systolic < 100, BP Diastolic < 60, Celsius Temp > 38.3, Heart Rate > 120, Heart Rate < 60, Oxygen Sat < 94, Urine Output < 20mL/hr, Blood Glucose < 60, Blood Glucose	
	Notify Resident-Continuing Notify: Surgical Transplant Resident, Notify For: Platelets less than 25,000 per microliter and/or Phosphorus Level less than 3 mg/dL	
☑	Dietitian Consult/Nutrition Therapy Type of Consult: Other, please specify, Special Instructions: Nutrition Assessment and recommendations	
	Nursing Communication	
_	Notify Transplant Research Coordinator of patient arrival to ICU	
$\overline{\mathbf{A}}$	Medical Social Work Consult	
	Reason: Other, specify, Psychosocial Assessment Physical Therapy Initial Eval and Tx Routine	
Mecha	nically Ventilated Patients Phase	
	ategorized	
R	Mechanically Ventilated Pt (Vent Bundle) Care Track	
Patient	<i>T;N</i> t Care	
	Elevate Head Of Bed	
	30 degrees or greater if systolic blood pressure is greater than 95 mmHg	
☑	Reposition ETT (Nsg) <i>T;N, QDay, Rotate tube from one side to the other to reduce the risk of skin breakdown.</i>	
$\overline{\mathbf{\nabla}}$	ETT Subglottic Suction	
	\Box Low Continuous, 20mmHg, Applies to ETT with the Hi-Lo suction capability. (DEF)*	
	Low Intermittent, 40mmHg, Applies to ETT with the Hi-Lo suction capability.	
	Low Intermittent, 60mmHg, Applies to ETT with the Hi-Lo suction capability.	
	Low Intermittent, 80mmHg, Applies to ETT with the Hi-Lo suction capability.	
	Low Intermittent, 100mmHg, Applies to ETT with the Hi-Lo suction capability.	
	Low Intermittent, 120mmHg, Applies to ETT with the Hi-Lo suction capability.	
\checkmark	Mouth Care	
	Routine, q2h(std)	
☑	Nursing Communication Call MD if higher than any of the following maximum doses of medications is required. LORazepam	
_	6 mg in 3 hours, Fentanyl 500 mcg/hr, propofol 100 mcg/kg/min, midazolam 7mg/hr	
$\overline{\mathbf{A}}$	Nursing Communication	





	If SAS goal not met in 6 hours on haloperidol, call MD for further orders
☑	Nursing Communication If receiving haloperidol, patient must be on cardiac monitor - call MD for QTc prolongation greater than or equal to 500 msecs and HOLD haloperidol
$\overline{\mathbf{A}}$	Nursing Communication
	Once SAS goal is met initially, reassess and document SAS score q2hrs
2	Nursing Communication If the patient is on sedation medication other than propofol, begin turning off the sedation medications at 8am for the sedation vacation process
\checkmark	, Nursing Communication
.	Notify Respiratory for Weaning Assessment at 8am if a Vacation Sedation is initiated,
	atory Care
	Mechanical Ventilation
	Reposition ETT (Nsg) <i>T;N, QDay, Rotate tube from one side to the other to reduce the risk of skin breakdown.</i>
Medica	
	+1 Hours docusate 100 mg, Liq, Tube, bid, Routine Comments: HOLD for diarrhea
	+1 Hours famotidine 20 mg, Oral Susp, Tube, bid, Routine Comments: reduce to 20 mg daily if creatinine clearance is less than 50 mL/min
	+1 Hours famotidine 20 mg, Injection, IV Push, bid, Routine Comments: reduce to 20 mg daily if creatinine clearance is less than 50 mL/min
	+1 Hours pantoprazole 40 mg, Granule, NG, QDay, Routine
	+1 Hours pantoprazole
	40 mg, Injection, IV Push, QDay, Routine
	VTE MEDICAL Prophylaxis Plan(SUB)*
	VTE SURGICAL Prophylaxis Plan(SUB)*
	Sequential Compression Device Apply T;N, Apply to Lower Extremities
Sedatio	on
	Refer to Patient Care Section/Nursing communication orders for medication monitoring parameters.(NOTE)* Choose Sedation Goal per Riker Sedation Agitation Scale (SAS) Goal of 3-4 recommended(NOTE)*
☑	Sedation Goal per Riker Scale Goal: 3 (Sedated), T;N
	Propofol Orders Plan(SUB)*
	+1 Hours LORazepam
_	1 mg, Injection, IV Push, q30min, PRN Other, specify in Comment, Routine Comments: to maintain SAS goal (Maximum of 6 mg in a 3 hr period). If patient is over sedated, hold dose until appropriate SAS achieved. Call MD is patient requires more than 20 mg/day.
	+1 Hours midazolam 1mg/mL/NS 50 mL PreMix 50 mg / 50 mL, IV, Routine, titrate Comments: Initiate at 1 mg/hr. Titrate by 0.5mg/hr every 15 minutes until SAS goal achieved. Maximum dose 7 mg/hr
Pain M	<i>anagement</i> Choose one of the orders below, morPHINE is not recommended if creatinine clearance is less than 50
	Choose one of the orders below. More think is not recommended in creating the creating of its less than 50

mL/min, in liver failure or SBP less than 90mmhg or MAP less than 65 mmhg.(NOTE)*





+1 Hours morphine 4 mg, Injection, IV Push, q1h, PRN Pain, Moderate (4-7), Routine +1 Hours HYDROmorphone 1 mg, Injection, IV Push, q1h, PRN Pain, Severe (8-10) +1 Hours fentaNYL 10 mcg/mL in NS infusion 2,500 mcg / 250 mL, IV, Routine, Titrate Comments: Concentration 10 mcg/mL Initial Rate: 50 mcq/hr; Titration Parameters: 50 mcq/hr every 10 min to SAS goal per MD orders. Max Rate: 500 mcg/hr **Refractory Agitation** Place order below for agitation that persists despite adequate sedation & analgesia. Refer to Patient Care Section/Nursing communication orders for medication monitoring parameters.(NOTE)* +1 Hours haloperidol 2 mg, Injection, IV Push, q1h, PRN Agitation, Routine Comments: Cardiac monitor required. *If Qtc greater than 500 msec, hold haldoperidol. *If SAS not met in 6 hrs, call MD. Call MD is patient requires more than 20 mg/day. Sedation Vacation Daily ☑ Sedation Vacation gam, see Order Comment:, T;N Comments: For patients receiving continuous infusions, lighten/discontinue sedation and pain medications at 0800 daily (or more often as indicated by MD/required by nsg unit) until the patient is awake, can follow commands, or until they become uncomfortable or agitated. Resume sedation infusion at 1/2 the previous rate and re-titrate to SAS goal. If SAS goal still achieved without active therapy, do not restart sedation. If patient becomes agitated, resume sedation infusion at 1/2 the previous rate & re-titrate to SAS goal (document on the nursing flow sheet) $\overline{\mathbf{A}}$ Ventilator Weaning Trial Medical by RT T:N Consults/Notifications/Referrals ⊡ Notify Physician-Continuing Notify: MD, Notify For: QTc prolongation on cardiac monitor greater than or equal to 500msecs and HOLD haloperidol

Date

Time

Physician's Signature

MD Number

*Report Legend:

- DEF This order sentence is the default for the selected order
- GOAL This component is a goal
- IND This component is an indicator
- INT This component is an intervention
- IVS This component is an IV Set
- NOTE This component is a note
- Rx This component is a prescription
- SUB This component is a sub phase, see separate sheet
- **R-Required order**

