

Affix Patient Addressograph

Renal Transplant Pathway
Revision: 0

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1. AIM OF RENAL TRANSPLANT PATHWAY

This renal transplant pathway outlines the key components of pre-operative and post-operative nursing care of the child receiving renal transplantation in the nephrology department of CHI at Temple Street. The pathway outlines days 0-7 of renal transplantation care.

The aim for this guideline is to improve the management of patients receiving a kidney transplant by providing clear and standardised guidelines for all staff to meet the patients' needs throughout the first seven days post operatively. This document should be utilised in conjunction with the renal transplant guidelines (PP-CLIN-NEPH-5) and relevant care plans. LIVE RELATED DONOR (LRD) ☐ CADAVERIC DONOR ☐ **ADMISSION: DATE** SIGNATURE / GRADE /

NMBI PIN & DATE

Inform	all relevant parties by verbally contacting:	
	Nursing Site Manager.	
	Medical Registrar.	
	Haemodialysis Nurses (if required).	
	Laboratories - Biochemistry, Haematology, Microbiology.	
	Pharmacy.	
Invest	igations	
	Patient assessment and observations recorded on PEWS chart.	
	Ensure all bloods are completed as per renal transplant guideline (PP-CLIN-NEPH-5). Print results for theatre. Link with transplant nurse (blood samples guide on page 3 of this document).	
	*Out of hours ensure HLA antibodies sent to Beaumont in taxi urgently.	
Swabs	& Samples	
	COVID swab – contact microbiologist if rapid swab is required.	
	MRSA screen (swabs of nose, throat, groin, axilla, rectal).	
	If applicable send swab from PD exit site, gastrostomy and /or permcath exit site for MRSA and cultures.	
	Rectal swabs for VRE \square , CRE \square & MRGNB \square	
	Urine sample for urgent C & S microscopy (if child still passes urine).	
	Urine sample for pregnancy test for menstruating girls (if passing urine), if not blood HCG sample to be reserved. Consent from patient by medical team required.	
	PD sample for urgent C & S microscopy (if applicable).	
	Chest X-Ray (ensure x-ray completed in the last 6 months. Details will be in Hemodialysis patients Red folder).	
Dialys	is	
	Liaise with Haemodialysis Clinical Nurse Specialist or PD trained nurse/parents to complete dialysis as directed by Consultant Nephrologist.	
	Time of last dialysis session:(24 hr clock).	
Theatı	re Prep	
	Commence pre-operative checklist for theatre.	
	Hibiscrub wash to ensure abdomen is thoroughly clean.	
	Patient assessment and observations recorded on PEWS record; weight and height recorded on medication kardex, and weight record chart.	
	Ensure 2 units of CMV negative blood are cross-matched.	

2. Admission Process

3. Pre-Transplant Blood Sampling Guide

	Pre- Transplant Blood Sampling Guide					
	n Live Related Donor transplants, these bloods will be completed in the days prior to theatre; liaise with Transplant CNS. n Cadaveric renal transplants, it is the senior nurse on duty's responsibility to ensure all urgent bloods are sent.					
☐ Ensure an I	V cannula is inserted while peripheral bloods are being obtained.					
*Need <u>a mi</u>	nimum of 18 mls for all the blood samples required pre renal transplantation.					
Urgent samples						
□ Bottle to be Haematolog □ Coag 1.4 m □ U&E, Album □ Venous bloc □ Istat in HD v □ Glucose 1.3 □ FBC 1.3mls	dy Screening 3-5mls clotted — Write HLA antibody URGENT. e hand-written & sent to Beaumont hospital. Out of hours, send in a taxi to Beaumont. Liaise with gy on call. Is in green bottle. nin, LFT, Bone Profile, Mg 1.3 mls in orange lithium bottle. od gas 0.5 mls arterial blood gas syringe. with cartridges in the HD fridge if instant gas required. mls in yellow glucose bottle. in red EDTA bottle. ossmatch 4.5mls in blood transfusion bottle					
Date of birth, Date a negative red cells wi	he labelled using a Blood Track PDA preferably or handwritten using patient's full name, Chart number, and signature of the person taking the sample. Request form should be completed for 2 units of CMV that the date of the procedure stated on the request form. In plant protocol for Group and Hold requirements for both Crumlin and Temple Street patients.					
☐ Virology — E ☐ Requires ho Serology sa Do not need	ples to also be taken (BV, CMV, Hep B, Hep C, HIV. 5 mls in white topped serology bottle.) (Spital consent form.)					

4. DAY 0 PRE-TRANSPLANT

-	ransplant (Preoperatively) Date Pre-Operative Renal Transplant Nursing Care Plan (RF-NUR-94)	Signature / Grade, NMBI PIN & Date / time
	Give medications as per the renal transplantation guidelines (PP-CLIN-NEPH-5) and as per prescribed following Consultant Nephrologist's directions. Oral Tacrolimus. IV Methylprednisolone. IV/PO Esomeprazole. IV Basiliximab (once final antibody cross-match with donor is negative for antibodie/consult with Nephrologists). IV Co-Amoxiclav (stat dose to be administered in theatre)	
	Pre-operative IV fluids as per Consultant Nephrologist's instructions.	
	Fast as per hospital preoperative fasting policy (PP-CLIN-THEA-28).	
	Consultant to link with PICU and Bed Management department regarding post-operative bed if ICU bed needed (i.e patient < 20kg or other clinical indications). Tick if N/A \square	
	Complete pre-operative checklist for theatre. Ensure all urgent bloods, swabs and samples are resulted on and printed for theatre.	
	Peritoneal dialysis patient s: ensure abdominal cavity is emptied. No last bag fill should be left in the peritoneum.	
	Haemodialysis patients: ensure final session complete if requested by the Consultant Nephrologist. Receive handover from HD clinical nurse specialist.	
	Dressed in theatre gown and TED stockings with name band on	
	Consult arterial line policy (PP-CLIN-NUR-60) for care of an arterial line post-operatively. Consult transplant folder for post-operative standard concentration infusions and policies for Dopamine and Labetelol infusions.	
Other p	atient specific requests:	

	COVERY PICK UP CHECKLIST portable saturations monitor and appropriate sized bag valve mask for collection.
*If carry	ring out a set of observations this must be documented on the PEWS chart.
Tick N/A	$\Lambda \square$ if child transferred to PICU immediately post-operatively.
Airway	
•	O ₂ Requirement
Breathi	ng
•	Sats (%): Resp Rate (per minute): Respiratory effort:
Circulat	ion
•	Heart Rate (per min): Blood Pressure: Latest bloods: Fluids infusing: Urine output: Types of catheter/drains in place: Pallor:
Disabili	ty/Exposure:
•	Ultrasound complete: Yes □ No □ Transplant site assessed- dressing insitu: Yes □ No □ Staples present: Yes □ No □ Access plan in place if CVC in situ (x-rayed and approved use): Yes □ No □ Morphine pump □ dopamine □ IV fluids □ double checked:

Fluid given in theatre:

Meds signed on intraoperative record sheet:

Signature / Grade / NMBI No:

Date:

6. Day 1 post-transplant

Day 1 Transplant Day: Date	Signature / Grade / NMBI PIN Date & Time
Discuss with Consultant Nephrologist acceptable parameters and frequency of interventions:	
Blood pressure aim (mmHg)	
Is dopamine required? (infusion second checked and dopamine checklist in use) Yes N/A Rate of infusion:	
Urine output aim :	
Daily urinalysis if applicable e.g. history of Nephrotic Syndrome Yes \Box No \Box N/A \Box	
Frequency of bloods:	
Consult arterial line policy (PP-CLIN-NUR-60)	
Arterial line still required: Yes No N/A	
Pain Team review changes:	
Wound review (Refer to operative note) Dressing dry and intact Small ooze Large ooze Dressing changed Yes No Wound drain in situ	

7. DAY 2 POST-TRANSPLANT

Day 2 Post Transplant: Date	Signature / Grade / NMBI PIN
	Date & Time
Discuss with Consultant Nephrologist acceptable parameters and frequency of interventions:	
Blood pressure aim (mmHg):	
Is dopamine required? (infusion second checked and dopamine checklist in use) Yes N/A Rate of infusion:	
Urine output aim : Daily urinalysis if applicable eg FSGS	
Fluid balance aim:	
Frequency of bloods: HLA antibodies due and completed	
Consult arterial line policy (PP-CLIN-NUR-60)	
Arterial line still required: Yes □ No □ N/A □	
Pain Team review changes	
Mobilise +/- physio (weigh on sitting scales)	
Encourage oral intake post surgical/ nephrology team review	

8. DAY 3-7 POST-TRANSPLANT

	Blood sampling regimen:
	◆Fluid Target aim: Fluid balance aim:
	Bowel motion: Yes □ No □ N/A□
Day 2	Weaning prednisolone plan:
Day 3	Additional changes made:
	•Signed by: (NMBI)
	Blood sampling regimen:
	•Fluid Target aim: Fluid balance aim:
	Commence Medication competency Yes □ No □ N/A□
Day 4	●IV Basiliximab due : □
Day 4	Dietician review: Yes □ No □ N/A□
	 •Update PHN (if applicable): Yes □ No □ N/A□
	Bowel motion: Yes □ No □ N/A□
	•Signed by: (NMBI)
	Blood sampling regimen:
	•Fluid Target aim: Fluid balance aim:
Day 5	 Query removal of Urethral catheter (as per nephrology)
Day 3	•Assess wound site and document on woundcare chart (as per surgeons) Yes
	No □ N/A□
	•Signed by: (NMBI)
	Blood sampling regimen:
×	■ Fluid Target aim: Fluid balance aim:
Day 6	 ◆HLA Bloods due today and completed □
	Complete parental medication competency:
	•Signed by: (NMBI)
	Blood rsampling regimen:
	◆Fluid Target aim: Fluid balance aim:
	Remove non tunnelled CVC unless otherwise specified by team
	Script faxed to community pharmacy
Day 7	allusia su ulau fau disabagga da aggrapatada. Mas 🗆 Na 🗆 NA 🗆
Day 7	 Urology plan for discharge documented: Yes □ No □ N/A□
Day 7	

9. Transplant discharge checklist

Transplant discharge checklist	Expected date of Discharge:
Communication	Signature / Grade / NMBI
Transplant CNS Review (Handover given)	
PHN referral sent/update given	
Education	
Post-transplant advice provided	
Education session with pharmacist	
Medication competency completed	
Dietitian review (if applicable)	
Other (e.g. urinalysis, NG):	
Follow up	
Date next due in clinic:	
Urology follow up appointment (if applicable):	
Removal of JJ stent to be booked (if applicable):	
Removal of Central line to be booked (if applicable):	
Urology plan on discharge	
Type of catheter:	
Daily regimen:	
Fluid plan on discharge	
Fluid target:	
PO/NGT/Gastrostomy (Circle)	
Feed plan (if applicable)	
Dressings	
Dressings in place:	
Date dressing last changed:	
Other:	
PD catheter insitu: Yes □ No □	
Central venous line insitu: Yes □ No □	
JJ Stent insitu: Yes □ No □	

10. Blood sampling schedule

Week Post	Day Post	HLA	EBV PCR	CMV PCR	BKV PCR	MMF	PTH	Vitamin D
Transplant	Transplant	Antibodies				Level		
Week 1	2	Х						
	6	Х						
Week 2	9	Х	Х	Х				
	13	Х						
Week 3	16	Х	Х	Х				
	20							
Week 4	23	Х	Х	Х	Х	Х	Х	Х
	27							
Week 5	30		Х	Х				
Week 6			Х	Х				
Week 7			Х	Х				
Week 8		Х	Х	Х	Х			
Week 9			Х	Х				
Week 10			Х	Х				
Week 12		Х	Х	Х	Х	Х		
Week 14			Х	Х				
Week 16		Х	Х	Х	Х			
Week 18			Х	Х				
Week 20		Х	Х	Х	Х			
Week 22			Х	Х				
Week 24		X	Х	Х	Х	Х		
Week 28		Х	Х	Х	Х			
Week 32		Х	Х	Х	Х			
Week 36		Х	Х	Х	Х			
Week 40		Х	Х	Х	Х			
Week 44		Х	Х	Х	Х			
Week 48		Х	Х	Х	Х			
Week 52		Х	Х	Х	Х			