

# Directorate of Legal Services

2 Franklin Street, Belfast, BT2 8DQ DX 2842 NR Belfast 3

Your Ref: AD-0150-10

Our Ref: **NSC B04/1** 

Date: 30 July 2010

Ms Anne Dillon Solicitor to the Inquiry Arthur House 41 Arthur Street Belfast BT1 4GB

Dear Madam

## RE: INVESTIGATION INTO THE DEATH OF ADAM STRAIN

I refer to the above and to your letter dated 5<sup>th</sup> July 2010. In relation to point 2 of your letter I enclose Transplant Guidelines that would have been in use in the RBHSC from 1990 until 1995.

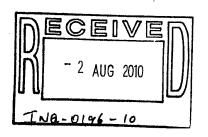
Yours faithfully

Colo Doctor

Wendy Beggs Assistant Chief Legal Adviser

Direct Line: Fax: Email:

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Providing Support to Health and Social Care







AS - INQ

# Renal Transplantation in small children

#### ADMISSION PROTOCOL

#### History on Admission

Note

residual renal function + urine output recent infections UTI peritonitis etc. recent contact with infectious diseases type of dialysis drug therapy - inform anaesthetist of antihypertensives check transplant/on call list

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## Examination on Admission

Note state of nutrition and hydration blood pressure height and weight catheter exit site condition

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## Investigations on Admission

10 mls clotted blood to BCH Typing Lab. Group and cross match 4 units blood FBP WCC platelet count MSU CXR CAPD fluid culture U + E and total protein

## Obtain written consent from parents

Arrange haemodialysis if indicated Assess degree of fluid restriction caused by pre-op fasting Ensure parents have transplant booklet Contact Transplant Surgeon, Paediatric Surgeon, Anaesthetist, Theatre, ICU

#### INTRA-OPERATIVE FLUIDS

CAPD patients may be relatively hypovolaemic and hypoalbuminaemic. Blood, PPF or N/2 Saline may be required before unclamping the artery to ensure a good intravascular volume. This is determined by reference to BP and CVP levels. enal Transplantation in Small Children

IMMUNOSUPPRESSION

Intra-operative

Hydrocortisone 5 mg/kg i/v Stat. Azothioprine 5 mg/kg i/v Stat. if wcc >4000

Post-operative

STEROID

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3.

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1. First 24 hours hydrocortisone 5 mg/kg i/v QDS.

Daily subsequently for 5 days

Prednisolone 1 mg/kg orally or equivalent dose hydrocortisone (4 mg/kg) i/vin 2 divided doses

Then Prednisolone 0.5 mg/kg/day in a single morning dose for 1/12

4. Then 1 mg/kg alternate days tapering.

AZOTHIOPRINE

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 Daily 1.5 mg/kg/day until GFR 1/3rd normal for age then increase to 3 mg/kg/day if wcc >4000.

CYCLOSPORIN A

To be introduced once graft function is stable.

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|-----|---|---|-------------------------------|
| `   | Renal Transplantation   | in Small Children   |                               |
|     | POST-OPERATIVE MANAGEN  | MENT  |                               |
| ł   | After transplantation   | patient will return initially to ICU  |                               |
| · . | Lines required (i)  | arterial line for BP<br>Multiple lumen central venous line<br>for CVP and i/v fluids<br>urinary catheter  | · · ·                         |
|     | ANALGESIA Morphi  | ne infusion 10-20 micrograms/kg/hr  | An the state                  |
|     | Fluids  |   | •                             |
|     | Arterial line - O.<br>ru  | 9% saline with 1 unit/ml heparin '<br>nning at 1 ml/hr  | n<br>Hetta anti-tanan<br>Mata |
| (   | (b)<br>→ CVP<br>(b)<br>→ Constant and the second state of the second state<br>(c)                     | PRN 0.025 mg/kg/hr in N/5 saline at   |                               |
|     | Rate of fluid input is  |   |                               |
|     | (i)<br>(ii)<br>(iii)<br>(iv)  | CVP at 4-8 cm H <sub>2</sub> O<br>BP appropriate for size of child<br>urine output 2-4 mls/kg/hour<br>N/2 saline is usually required<br>to maintain plasma Na |                               |
|     | CVP- BP   | Rx  |                               |
|     | N or J Jor N  | Volume expansion  |                               |
| (   | ) <b>N</b> ↓.   | Dopamine infusion   |                               |
|     | 1 4   | Reduce i/v fluids ? hydrallazine or<br>frusemide  |                               |
|     | URINE OUTPUT  |   |                               |
|     | If urine output is poor after correcting vital signs ? try one<br>dose of Frusemide 2 mg/kg i/v stat. |   |                               |
|     |   | association with haematuria consider  |                               |
|     | Hypertension  |   |                               |
|     | Common in the immediate p<br>i/v hydrallazine or labet  | post-operative period and best managed  |                               |
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#### Renal Transplantation in Small Children

Post-operative Investigations

- (i) 4-6 hourly initially
  - blood gases

U + E,  $Ca^{++}$ 

glucose

Hb

Urine output volume + dipstick testing for blood and urine

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(ii) Daily

U + E Creatinine

24 hr urine collection of protein and creatinine clearance

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Albumen + total protein

FBP DWCC Platelets

? coagulation

ĊXR

MSU

Fluid input/output

(iii) Twice weekly

24 hr urine for protein and creatinine clearance DTPA ± Doppler USS of renal transplant vessels. SMAC

<u>M. Savage</u> September 1990