

# The Inquiry into Hyponatraemia-related Deaths

Chairman: Mr John O'Hara QC

Ms Wendy Beggs  
Directorate of Legal Services  
2 Franklin Street  
Belfast  
BT2 8DQ

Your Ref:

Our Ref: BPC-0007-11

Date: 12/09/2011

Dear Madam,

I would be grateful if you would provide the Inquiry with the following information:-

- (1) The identity of the director or person in charge of the laboratories which analysed and measured serum sodium concentration of samples from paediatric patients undergoing surgery in RBHSC on 27<sup>th</sup> November 1995, both during working hours and out of hours (the 2 laboratories are the paediatric clinical biochemistry laboratory in RBHSC and the main RVH laboratory in the Kelvin Building).
- (2) The identity of the clinicians, nurses and officers who were involved in Adam Strain's care and specifically who made entries on or signed or initialled his notes/records. You have previously provided a schedule of some of the identities but it is incomplete (copy attached). I would ask that a comprehensive schedule be prepared using the Inquiry page references on Adam Strain's notes and records which sets out the identities of those persons. I advise that in relation to Claire Roberts, you previously provided a table setting out a chronology of care provided for Claire during her admission to RBHSC (a copy is attached). It would be very helpful to the Inquiry if a similar table is provided for Adam Strain.
- (3) In relation to Ref: 058-035-138 (copy attached), please confirm who made the following notes and what was their job title:
  - (a) At 1.20pm 1<sup>st</sup> 2 lines (which is a continuation from the last 5 lines on 058-035-137 (copy attached)
  - (b) At 1.20pm 3<sup>rd</sup> & 4<sup>th</sup> lines – please identify the signature
  - (c) Untimed note "CVP line going up neck vessel? Obstructing venous return". Please confirm who struck out that note, when and for what reason
  - (d) Untimed note on last 2 lines of page – please identify the signature
- (4) In relation to Ref: 058-035-139 (copy attached), please identify by name and job title who made the note on the top half of this page timed at 17.10 on 27/11.

Secretary: Bernie Conlon

Arthur House, 41 Arthur Street, Belfast, BT1 4GB

Email: inquiry@ihrdni.org Website: www.ihrdni.org Tel: 028 9044 6340 Fax: 028 9044 6341

(5) In relation to the intravenous fluid prescription sheet Ref: 057-018-027 (copy attached):

(a) Under the heading "prescribed by", please identify the signature in the first 6 boxes. This signature is also in clinical notes at Ref: 058-035-139 and possibly Ref: 058-035-138

(b) Under the last column "erected by":

(i) Please identify the signature in the 1<sup>st</sup> and 4<sup>th</sup> box other than K Knaggs' signature and the job title of that person

(ii) Please identify the signature in the 6<sup>th</sup> box down and the job title

(6) In relation to Ref: 058-035-142 (copy attached), please provide a copy of the real time CVP trace and the print out of the monitor as referred to by R Taylor on that page.

I look forward to hearing from you.

Yours sincerely,

Brian Cullen

DATE

CLINICAL HISTORY, EXAMINATION AND PROGRESS

12<sup>00</sup> pm Response needs antihypertensives for - BP now 170/100  
S/L nifedipine 5mg stat.

12<sup>00</sup> pm diazepam 5mg iv given in case TBP = seizure  
- no effect

ne

~~CVT line down up neck wound~~  
~~2 observations~~

K 4-8

W 21.4

Alkal 5

TP 41

Creat 6.0

? dehydration

27/11/95  
C7 Kan for

There is marked generalized cerebral swelling with compression of the lateral ventricles and obliteration of the third and fourth ventricles, basal cisterns and cortical sulci. No focal abnormality seen.

Dr Chitambar

Neurology RHT.

7/11/95

Position & prognosis fully explained to mother + relatives. Explained Cerebral oedema 'brain swelling' with pressure on vital control centres. That explained why we will try to reduce swelling but that hope of recovery is remote. I have said we will continually reassess situation + make further decisions after 24 hrs

Phong

Dr Webb - Neurology

Will come this pm ~ 7pm re

AS - ROYAL

058-035-138

DATE	CLINICAL HISTORY, EXAMINATION AND PROGRESS
27/11 17 <sup>10</sup> .	Now noted to have some decerebrate movement. fluids - output 529
	BP - was 145/110 earlier had 10 mg s/lc midolpive
	if persistently high later - hyderalgine 0.2 → <del>1.0</del> per kg 0.2 mg/kg stat followed by hourly infusion at 0.2 mg/kg/hr → 1 mg/kg/hr as required.
	Aim: MAP > 90 to maintain CPP. <del>MAP</del> { Systolic < 150 Diastolic < 100 mean
27.11.95	Neurology. Thank you
19.30.	4 yr old boy post Renal transplant today Noted perioperatively to have 'fixed dilated' pupils @ 12 NOON CT Scan reviewed. shows diffuse generalized cerebral oedema with obliteration of basal cisterns (Coning).
	ON NO muscle relaxants OR sedation Vital signs - HR 140/min BP 180/90 Temp 36.5 O <sub>2</sub> 98% - Fully ventilated. - No spontaneous Resp. effort
	No Response to deep supra-orbital pain - No eye opening - No Autonomic Response - No Limb movement or facial grimace
	Pupils 6-7 mm fixed & unresponsive No Corneal Response

AS - ROYAL

058-035-139

SA 0.8 page 27  
 (150 ml) = 240 ml = 10 ml/hr.

Weight.....

## INTRAVENOUS FLUID PRESCRIPTION SHEET

mls/kg.....

057-018-027

	Amount ml	Type of Fluid	Name and Amount of Additives	Rate ml/hr	Time Start	Time Finish	Prescribed by (Signature)	Effect by
1	24mls	5% dextrose	+ 60 mg cydospirone	2 ml/hr	change every 12 hrs		McConn	10/1/83
2	500 ml	Hep saline	1A	3 ml/hr			Mean	
3	500 ml	Hep saline	CVP	3 ml/hr			Mean	
4	500 ml	0.45% NaCl 2.5% dextrose		2 ml/hr			Mean	
5	50 ml	5% dextrose	+ 300 mg dopamine	0.5 ml/hr (= 2.5 µg/kg/hr)			Mean	
6	50 ml	20% mannitol	over 20 mins		1240 →		Mean	10/1/83
7	100 mls	20% Mannitol		over 30 mins			Mean	10/1/83
8		N. saline		10 ml/hr	with dialysis		Mean	10/1/83
9	100 mls	HPDF	over 10 mins				Mean	10/1/83
10	500 mls	② saline		50 ml/hr	→		Mean	10/1/83
11	750 mls	HPDF			04 <sup>00</sup> 10 mins		Mean	10/1/83
12								

## NUTRITION PRESCRIPTION

ENTERAL FEEDS				
Type	Vol.	Freq.	Total	Cals.

## PARENTERAL NUTRITION

Day of regime.....

SOLUTION	%	VOL	CALS	N <sub>6</sub>	CHO <sub>6</sub>	FAT <sub>6</sub>	Na	K	Ca	Mg	PO <sub>4</sub>	VITAMINS	TRACE ELEMENTS	OTHER ADDITIVES	ENERGY CAL/ml	N/CAL RATIO
TOTAL INFUSED																
TOTAL per kg																

24 HR. INTAKE		
Mannitol	150 mls	
BLOOD		
PLASMA	175	
	INTRAVENOUS	518.8
	ORAL	—
	TOTAL	843.8 mls

24 HR. OUTPUT	
URINE	1450 mls
ASPIRATION	40.5
DRAINAGE	
TOTAL	1500.5 mls