

CLINICAL NOTES

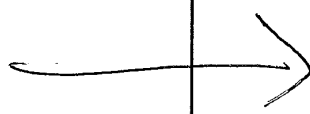
CONOR MITCHELL

CH 334505

dob. 12/10/87.

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DATE/TIME

MONAGHAN 21²⁵. To cover period from admission at ~ 7pm.
9/05/03. this evening.

15 yrs. old boy with a history of cerebral palsy, who has on today H/O general malaise.

Admitted to St Craigavon. Clinically he appeared to have dehydration. During the early part of his admission he had a number of seizures and required resuscitation, intubation and admission to the ICU in Craigavon. Other medical features to consider - CT scan suggesting subarachnoid haemorrhage.

- urinary tract infection. Examination in PICU following admission. The clinical picture is confusing: fixed dilated pupils (present on admission to PICU), no response to supra-orbital pain (PICU), no spontaneous movements. No reflexes (including response to pain) in both arms. Exaggerated withdrawal reflexes in legs (feet). ? suggestive spinal reflexes.

The child has had no sensation or muscle relaxants either in Craigavon or PICU RBHSC. Received phenytoin to control seizures.

The nurse who transferred Conor from Craigavon witnessed in Craigavon an episode of

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	<p>movement in left foot, when mother asked Connor to move his (L) foot in response to her stating that she would bring in his favourite CD if he wanted it. I asked Connor's mother to repeat this test but unfortunately while the verbal command was being given, the sheet covering his foot was being withdrawn simultaneously, and the movement which I observed could also have been due to an exaggerated spinal reflex.</p>
	<p>When I repeated the verbal command there was no response from foot or anywhere else. Even slight movement of the sheet would elicit reflex withdrawal movements and clonus in (L) foot and (L) leg.</p>
	<p>He is also dependent on adrena-line infusion to maintain blood pressure, as during switch over of pumps BP ↓ 50 systolic and required 2 x 0.3 ml boluses of adrena-line from syringe driver.</p>
	<p>HR ~ 130. Requiring minimal ventilation. PO_2 low, and ventilation reduced to allow PCO_2 to rise slightly.</p>
	<p>CXR shows clear lung fields. Tip ET tube lower border T₂. → inserted in C_{4/5} interspace. (L) subclavian central line in aortic arch. ^{per} The patient has received 120mg enoxaparin (ant-~24h). I feel that the subclavian arterial line should not be removed at the moment because of the risk of haemorrhage. Patient to receive no further enoxaparin.</p>

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To continue with ciproxin, acyclovir and dextrose infusion

liberated fluids to full maintenance with 0.9% saline.

Urine sent to lab for urinary electrolytes + osmolality. Na 760 on blood gas machine. repeat sample sent for serum Na to lab

He is at risk of developing diabetes insipidus, but we need definite biochemical evidence before ADHVP should be given.

11²⁰ pm Currently being actively re-warmed

I have had a discussion with Conor's mother about his clinical state. She has a good understanding of just how seriously ill he was. She is very angry over a number of issues including the illness which Conor is now suffering from. I reassured her that she herself is not to blame for anything which has happened to him. I reassured her that he is not suffering or is distressed. I told her that I believed Conor will die from this acute illness, but with such a complicated clinical picture it would require expert neurological interpretation of the physical signs, something which I was not qualified

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to do. While I advised that he would not survive this episode, I also stressed to her that we would not be withdrawing any treatment fought, because of the seriousness of the case and also we had to be absolutely sure of the prognosis. This would take time, principally to allow more investigation to be performed and to keep his neurological status under close observation. Currently we believed that the working diagnosis, which started ament-chain of events was an infection, most likely viral which may have attacked C.N.S.

J. McKeown

THE ROYAL BELFAST HOSPITAL FOR SICK CHILDREN BELFAST BT12 6BE

CF

CLINICAL NOTES

CONOR MITCHELL

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DOB 12/10/87

DATE/TIME

9/5/03.

12MN

15yr old ♂ w spastic quadriplegia + epilepsy admitted to CAH 1/4 ago. Previous Hx of being unwell for 10/7 with vomiting, lethargic + off form. ↓ Oral intake. On arrival to CAH admitted to medical wd. A of presumed viral illness + possible UTI made. Initial Bld Ix showed WCC 4.19, Plt 332 Hb 13.1 Na 138, Urea 7.8 CR 50, pH 7.41. Rehydrated w IV fluids + covered w IV ciproxin. Over next 24hrs developed multiple events described as follows - arms flexed, head hyper-extended, grimacing, back arching, developed blotchy rash over head + abd. Events lasting few sec then lethargic w poor response. Appeared yesterday evening to have similar event assoc w pallor + apnoea followed by respiratory arrest. At time of arrest ~ 8:45 PM intubated + ventilated → ICU in CAH. A presumed ICH → CT scanner. CT scan showed large (L) perencephalic cyst + smaller (R) perencephalic cyst. Supratentorial region - CSF density with minimal cortical activity tissue. Abnormal high density material on tentorium cerebelli + around basal cisterns → suggestive of subarachnoid haem. Basal cisterns described as tight.

CT scans reviewed by Mr Cooke neurosurgeon - no neurosurgical intervention required.

Given IV
Mergatan at
~ 9 PM 8/5/03

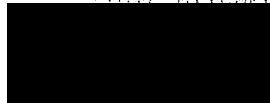
∴ Maintained in ICU CAH overnight with pupils always fixed + dilated, no spont breathing. Developed hypernatraemia

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	<p>In an thought GCS ↑ from 3/15 to 6/15. Still no pupillary response but thought to move (L) leg on request of grandmother. Felt to be more than a spinal reflex ∴ transferred to PICU for further Mx. No underlying Δ made.</p>
	<p>Arrived PICU ~ 10⁰⁰ PM. Now fully ventilated with no muscle relaxant or sedation on board.</p>
	<p>o/A Clinical exam</p>
	<p>o/A fundi - appear normal</p>
	<p>No doll's reflex present</p>
	<p>No corneal reflex</p>
	<p>No nasal tickle</p>
	<p>No gag or cough reflex</p>
	<p>Peripherally no obvious spontaneous movement when touching feet some withdrawal noted + some movement of toes.</p>
	<p>No movement of upper limbs noted</p>
	<p>Reflexes Present (R) bicep + (L) bicep +</p>
	<p>(R) knee +/- (L) knee +</p>
	<p>(R) ankle + (L) ankle +</p>
	<p>Plantar ↑ ↑</p>
	<p>Beats of clonus noted in both ankles</p>
	<p>Fixed flexion deformities at elbow (R)</p>
	<p>Fixed flexion at hips</p>
	<p>Reexamined at 12 MN.</p>
	<p>Above reconfirmed. Grandmother present. On request x2 (L) foot on one occas → dorsiflexion of (L) foot appearing to comply with G'mother request. ? spinal / ? volun</p>
	<p>Difficult to accept given absolutely no obvious brainstem activity.</p>

CH 334505
NSTR CONOR MITCHELL

12/10/87
Male



SHSSB

CONSULTANT

MD/OP

BELFAST BT12 6BE

DATE/TIME	
	In PMH NVD at Term ~7lb
	Appeared well at birth - developmentally delayed & referred to Dr Hicks for assessment. Spastic quadriplegia R > L & ↓ visual function.
	Original CT SCAN - infarction (L) parietal → temporal infarction (R) frontal
	vascular occlusions (L) middle cerebral artery & branch of (R) ant cerebral artery. felt to be prenatal origin.
	On epilium for seizures - 10 x3 "starry" events from Christmas until admission.
	Present Rx Adrenaline 8mg/100mls 3ml/w. Ciproxin 200mg iv qd. Acyclovir 250mg iv 8hly. DDAVP 2mcg.
	Ix to date.
	• CT scan - as overleaf.
	• XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	• Na 164 k 3.6 urea 4.0 CO ₂ 21 Alb 34 CR 53 Ca 2.15 mg 0.9 Poy 2.27 T.bil 7. AST 20 ALP 116 ALT 14 GGT 19.
	• Salicylates <10.
	Alcohol <10.
	• Paracetamol <4.0

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• Urinary osmolality Na 21 K 16 Urea 45 Osmol 129

Conclusion

Child with Hx CP/epilepsy presumed viral illness → hospital develops seizures then after seizure arrested → ICU, noted to have SAH on CT + old neurology.

Brainstem responses -ve ? some voluntary movement/
? spinal reflexes.

Now developed - diabetes insipidus

- needing inotropic support for BP

~~needing inotropic support for BP~~

? Pathology

Is this all related to a viral illness causing cerebral irritation + seizures ~~into brainstem angiomas~~ → S.A.H → brainstem signs

Need further tx to help make a + longer period of neuroprotection

① ~~cover~~ cover for bacterial component as Hx UTI

∴ add ceftriaxone to antibiotic coverage

② Cont with IV acyclovir at present

③ Presently on DDVP for Diabetes Insipidus

④ Arrange for neurology opinion in am - I will discuss with Dr Hicks. EEG may be helpful in looking at brain activity (with any 5z activity)

⑤ If not sent send blood for PCR - viral illnesses
atypical viral titres.

⑥ If any stools → send for viral culture.

⑦

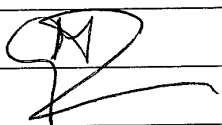
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Conor Mitchell
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BELFAST BT12 6BE

DATE/TIME	
	<p>long discussion & Conor's mother & g'mother explained how unwell Conor is and present medical condition. At present unresponsive with no obvious brainstem function. ?spinal reflex movements of lower limbs but only had short period of obs with Conor & need longer period of assessment re neurological state. Although viral illness an explanation not a confirmed diagnosis & we would need further ix to help confirm or refute this Δ & also further ix as to underlying brain activity.</p> <p>Conor's mother & g'mother are agreeable to further period of observations & approp ix as reqd as required to make Δ.</p> <p style="text-align: right;">Belt SCU (BOTHWGU)</p>
10.10.03	<p>WPRD (con. 10.10.03)</p> <p>Review in (BOTHWGU)</p> <p>Low vitals R6 ITOR for 0.7 L20.5 PA6.2</p> <p>fluids. Map on full resuscitation - 4.7ml/kg</p> <p>0.96 NaCl + 20mmol KCl</p> <p>Replacement of urine loss > 20ml/kg & 0.45% NaCl / 2.5% Dextrose</p> <p>Medx</p> <p>IV ceftriaxone</p> <p>IV cyclosporin</p> <p>IC DDAVP (if urine output > 0.5ml/kg)</p> <p style="text-align: right;">Poo</p>

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10.5.3	R/V
DOHERTY	Problems as outlined above
Reg.	<u>also</u>
4 AM.	<p>① Ceftriaxone initiated as well as Cymoxin as persisting leucocytosis</p> <p>② Rx for diabetes insipidus ($\Delta \bar{c}$ \uparrow Na^+ + serum osmolality & low urinary Na^+/osmolality)</p> <p>a. DDAVP 2 mcg i.v.</p> <p>b. Maintenance fluids 0.9% Saline @ 60 ml/hr + replace urinary losses @ N/2 Saline (Previous hour's u/o = 30 ml per hour)</p> <p>③ Increased (?) spontaneous movements of legs + to a lesser extent arms Characterised by flexion at hip + knee + dorsiflexion at ankle (L leg > R leg) plus minor adduction at shoulders bilateral.</p> <p>- ? Spasms - ? Seizures (do not wish to Rx at present in case 'EEG reqd in am.')</p>
	

CH 334505
NSTR CONOR MITCHELL



12/10/87

Male

SHSSB

CONSULTANT

MD/DP

THE ROYAL BELFAST HOSPITAL FOR SICK CHILDREN
BELFAST BT12 6BE

DATE/TIME	
<p>10.9.3 Dhity REG 7:30 7:41</p>	<p>Greater variety of movements through night & this morning (? Possibly with warming) Movements of legs + shoulder as outlined above. Also lateral flexion of neck to right Movements appear to be in response to parent's touch. Not reliably to voice Mother obviously anxious + confused w. prognosis</p> <p>gmr</p>
<p>10/5/03</p>	<p>9 AM Review of Conor Through night remained fully ventilated. No spontaneous breathing felt to have more movement of lower limbs - ? in response to voice. Some movement noted in (R) shoulder Presently on IV Adrenaline 0.3mgs/hr IV Acyclovir IV Ceftriaxone / Ciproxin DDAVP IV Maint fluids 0.9% N. Saline</p>

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	Now warmer
	°E. Pulse 168 No rash noted
	BP ~ 90/164
	H+H + ml
	Chest clear
	<u>CNS</u> Pupils remain fixed + dilated
	Fundi visualized + appear (N)
	-ve Doll's Reflex
	-ve Corneal Reflexes
	-ve Nasal tickle
	-ve Gag / cough reflexes
	Peripherally
	Some spontaneous flexion of legs noted
	Reflexes Biceps (L) brisk (R) brisk
	Knee (L) brisk (R) brisk
	Ankle (L) brisk (R) brisk
	Plantar ↑ ↑
	On looking at events
	- appeared unwell at home + prob viral illness
	into CAH + there developed multiple seizures
	→ Anest CT scanner showed S.A.H +
	tight basal cisterns
	Appeared brainstem dead in CAH + no obvious
	improvement re cranial nerves. Some peripheral
	movement noted ? spinal reflex movement. Appeared
	to improve: → PICU
	Plan
	Need to discuss + Dr Hicks present neurological
	state and discuss with Dr Hicks

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CLINICAL NOTES

CH 334505
MR CONOR MITCHELL



12/10/87
M:16



MD/OP

SH358
CONSULTANT

DATE/TIME

• Presently full support maintained Give time for situation to unfold.

• Ensure coagulation normal

P. B. S. C. U.
(BOTHWELL)

Discussed w Dr. Hicks

→ Need to see CT scan from CAH

→ Discuss w neuroradiology re CT SCANS

→ Try to arrange for ~~repeat~~ repeat CT SCAN

→ No sedation

→ Will R/V later this am

P. B. S. C. U.

12.05.07

Wk of low

Vet $P^{17/5}$ R6 IT 0.9 $K_{0.2}$ 0.3

Fluids

Diabetes insipidus fluids @ 60ml/hr Na 166

H₂ 0.9% NaCl @ 2ml/kg for maintenance

0.45% NaCl / 2.5% dextrose to replace losses > Boluses

Med

IV ciprofloxacin

IV atropine

IV cyclosporin

PC DAAP

AP

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	<p>IVI cerebral cath,</p> <p>oe GC 5/15</p> <p>pupils size & react unreactive</p> <p>Chest - coarse crackles both bases</p> <p>Air sat</p> <p>Rx 84/pt HR 170</p> <p>↑ W added</p> <p>ox Byle refluxes throughout</p> <p>Plaster ↑↑</p>	
	<p>Rox Continue current fluid Rx</p> <p>Watch serum Na⁺ & other electrolytes</p> <p>Radiology req contacted will retrieve CT films</p> <p>from technician & Jhu copy them</p> <p>↳ for report of scan after 12am</p> <p style="text-align: right;">KCS (Gross) for</p>	
10/9/03	<p>Dr Phillip James (Wolfson Centre, Dundee University) - contacted @ family's request. No change in Conner's manage- ment suggested.</p> <p>CT scan transfer under full monitor, uneventful (results pending; no massive SAH seen).</p>	
10/9/03	<p>14¹⁰</p> <p>Discussion i mother & g'mother</p> <p>CT scan performed & RV films by neurosurgeons</p> <p>verbal from neuroreg no signif ICH or hemorrhage</p> <p>Plan to continue with full support for Conner at present & cont to monitor neurological status</p>	

CLINICAL NOTES

CH 334505
MSTP CONOR MITCHELL

12/10/87
Male

SH55B

MD/OP

CONSULTANT

DATE/TIME

Asked whether likely Conor will make full recovery to pre-illness state. Explained highly unlikely given Conor's clinical course.

Bell

10.5.03

I. Review neuro radiology

CT Brain

- Comparison made with CT obtained in CAM
- There is diffuse swelling of the brain with obliteration of 4 ventricles & basal cisterns
- Loss of grey/white differentiation throughout both frontal / temporal / parietal lobes
- cerebellum spared.
- large pericerebellar cyst on LT side + other large density changes.
- NO intracranial haemorrhage.
- Conclusion -

- Extensive diffuse oedema of majority of brain including midbrain + brain stem. Loss of grey/white differentiation suggestive of infarction; cause not apparent but ~~radiological~~ ~~obvious~~ ischemic changes would give this appearance

[Signature]

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BELFAST BT12 6BE

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10.5.03 Neurology - Thank you

(work made)

1750 I remember Conar & his family

from previous contact.

Albas.

I have reviewed the course of this illness

- with his doctor

- from the documentation in his chart from CAA

- from the notes made by staff here

- by talking to staff here.

(late talked to grand notes)

Relevant points

- his usual self until today

- then much ↓ appetite / malaise

- pink throat, ~~so~~ SOB symptoms

- 'set of improved' until 1 week ago

- thrust wave, vomiting SOB

- (~~thrust~~) → checked thrust + ears

- of pneumonia.

- improved a day or 2 then worse - vomiting changed to brown.

- not back to baseline -

- letting improved

- worst on top

"fuzzy" marchants of legs

no over 2.

letting + wine? cloudy

- 3 days ago worse + → CAA
- considered dehydrated Re W fluid admitted. na 138 wcc 7.8 K?

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CH 334505
NSTR COLIN MITCHELL

12/10/87

Nate

SH558

MD/DP

CONSULTANT

DATE/TIME

• concern by family re IV site as he was
 Mittenup - head back, arms flexed,
 legs straight & LOC, repeated up.
 head
 • IV removed, later reinserted.
 • then a more major event -
 stopped breathing, head back,
 blue, stiff all over.
 • moved to PICU. ventilated etc.
 • has not breathed since
 • has required adrenaline
 • no kg tee so given H₂O only
 from 2 total volume.
 Also acyclovir + Ciprofloxacin.
 • CAT? intracranial haemorrhage
 plus longstanding changes
 give phenytoin IV - no sedation
 • transferred.

~~Amis~~

of A @ 6hr & CAT.
 Always had large head - he was
 a large baby ~~starch~~
 Sr. not a major problem
 rehydrat - occasional stamp
 & Valproate.

ROYAL BELFAST HOSPITAL FOR SICK CHILDREN
BELFAST BT12 6BE

Alternative therapies done includes
 a hyperbaric O₂ but never
 though mother says he had new
 diaphragmatic exercises which
 helped his breathing + his neuro-
 developmental function had
 improved in that he could crawl
 and use his hands better.

lives w/ mother (? + father) in
 and extension of grandparents
 house.

9E seems tall OFC 59cm Scapula -
 Capely thin

no reflexes, no movement at rest.
 NO response to voice light touch of
 face, arms/hands, trunk, thigh.
 Any touch on feet → flexion @
 hip + knee d. flexion ankle
 no response to deep pain (heel)
 or sternum.

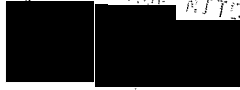
Pupils are unequal unreactive
 Dorsal head neg. fundi (small pale)
 discs vessels in eye
 face no wart. Corneal - eyelid -
 gag - head. Suctioning.

Dr. [unclear] [unclear]
 [unclear] [unclear]

Imp/ Severe cerebral + brain stem dysfunction
 - possibly irreversible damage.

CLINICAL NOTES

CH 334505
JSTF CONRAD MITCHELL



MD/OP

12/10/87



SHSSB
CONSULTANT

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DATE/TIME

His neurological condition is unchanged. Dr Hicks & anaesthetic team are of same opinion that ~~ain~~ he cannot survive this episode

After long discussion including if amino acids gives & cerebral edema reduced damage to nerves already occurred & would be unable to ~~re~~ recover to previous level.

Mother & g'mother in agreement to withdraw &

J. Bathwell

I have ^{read} the notes concerning Conor's condition as recorded by Dr Hicks & Dr Bathwell. We as a family ~~understand~~ understand the implications of Conor's condition and acquiesce to the removal of treatment.

signed: Jonathan Mitchell

2/1/88
TAMM
BTD

I have examined Connor today and listened to his history with mother and other professionals.

I agree that Conor has no hope of recovery. His brain stem is dysfunctional, loss of CVS/Temp resp control. His cranial nerves are unresponsive.

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DATE/TIME	CLINICAL NOTES
	<p>He does exhibit "abdominal" contractions which are reflexic and not under B. Stenard's Grandmother Ros also noticed these movements and agrees that they do not represent breathing efforts</p> <p>I have explained that occasionally drugs may be used to decrease reflex action but may not be necessary with Conor.</p> <p>Achongline stopped, disconnected from ventilator Coroner to be contacted following death.</p> <p style="text-align: right;">R. J. G.</p>
<p><u>12/5/03</u></p>	<p>15¹⁵</p> <p>Decision made to withdraw treatment agreed by all family. Full explanation by Dr Taylor + I re brainstem dysfunction + general decline in BP required + inotropic support over this afternoon.</p> <p>Notes read by Mr Mitchell + fully explained understood</p> <p style="text-align: right;">J. E. Stewart (Bothwell)</p>
<p><u>12/5/03</u></p>	<p>15⁴⁵</p> <p>Treatment withdrawn + Conor placed on mother's knee. Gradually slipped away. Very peacefully throughout</p> <p>⊙ IE. Pupils fixed + dilated No HR beat for > 1min No femoral pulses noted > 1min No spont resps</p> <p>Conor pronounced dead at 15⁴⁵ on 12/5/03.</p>

THE HOSPITAL BELLEFONTE, BELFAST BT12 6BE

CH 334505
NSTR# CONOR MITCHELL

12/10/87

Male

SHS5B

NO/OP

CONSULTANT

DATE/TIME

earlier this am - nil since.

Maintained on IV Adrenaline 1.5mls/hr

IV N/A 0.9% N. Saline maint

IV N/A Saline / 2.5% dext to replace
urinary losses

Now off antibiotics / antiviral medication

°/E. Unresponsive.

° Spont resp. Pupils fixed & dilated

(R) oval

No cranial nerve function noted

Peripherally reflexes elicited (R) biceps &

(L) & (R) knee jerks

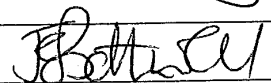
Imp

No change in neurological status.

- ° Agree with plan to discuss brainstem testing & meeting with family

- ° Involvement of family with re clinical psychology may be helpful.

- ° Will discuss present state with family



WNG 762

12.5.03

Hicks

Neurology.

Requiring ↑ isotropic support

went thro brain / brainstem death

protocol.

No response to cranial nerve stimulation

movements of lower limbs on

local stimulation. No gag/suck response

DRK + @ knee level.

Pupils ~ 8mm (R) unequal oval

no reaction to light

No Doll's head response

No response to 50ml ice water in

(R) + then (L) EAM.

No regular resp to CO₂

However slight abdominal

muscle movements noted

5 mins after O₂ & gas taken

? reflex or cerebrally driven.

Imp/ unclear if abd. muscle movements
are reflex or cerebral.

I am unable to confirm total

brain / brain stem death at present,

however I remain of the

opinion that he cannot survive. Diff

12/5/03

Discussion with p mother & g mother prior to this Dr
Hicks's assessment.Gives gravity of child's medical condition I am of
the opinion he cannot survive. He is presently
unable to maintain BP or temp or salt balance

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NSTR CONOR MITCHELL



12/10/87

No 16

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Agree to plan to do as @ present.

Will see again in Am ? After 1 x a
Plan to management.

I support Dr Botwell's Plan to will
continue to have the + plan
Commitants re management.

(In my opinion Conor is not
likely to survive whatever happens,
a whatever we do.

Just

11/5/83

As above Further developments:

16⁰⁰

- 1) Intra-arterial multilumen catheter (from CH) removed with
pressure above + below clavicle for 3⁺ minutes; pressure during
applied; no serious bleeding noted, since then.
- 2) Family have expressed desire to share blood test results
(3 which ones) with a doctor from Russia in order to facilitate
prescription of oral amino acids for Conor; I have said that
in principle there will be no objection if these are routinely-
required tests; they will be in contact once the tests wanted
are known.
- 3) -ve fluid balance; U&E awaited. Fluid balance remains
very difficult in view of hypernatraemia and cerebral oedema.

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Belfast BT12 6BE

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current aims are to remove fluid without further serum shifts in [Na], but this may be difficult.
Overall outlook remains very bleak.

(Urea/Electrolytes; Creatinine; shown to family; CFT's tomorrow.

INPATIENT PICU

12/5/03	WR by Taylor Dr. JAY/062
	<ul style="list-style-type: none"> • Intubated & ventilated SIMV 11/5 - On Intubates Adrenaline 1 ml. - ABG P11-7.44 PCO₂ 4.43 PO₂ 14. BE -7.7 - U&E Na - (54) K (3.4) - IV fluids 65 ml/kg (-23 ml) new output 3.3 ml/kg/hr. - Apyneic. Believed involvement of brain & - brain stem - & spinal reflexes + - on ciprofloxacin
	<p style="text-align: center;">plan keep temp</p> <ul style="list-style-type: none"> - observe U&E - formal lower stem finish - observe PCO₂

12/5/03	Condition remains unchanged.
	fully ventilated.
	Dependant on IV adrenaline to maint BP. Trial of ↓ today but BP ↓ ∴ ↑ again & fluid bolus 500mls/one hr to maintain BP.
	Temp not stabilized - needs heating blanket to maintain normal temp.
	No spurt movement. Some withdrawal noted

THE HOTAL BELFAST HOSPITAL FOR SICK UTILITARIAN BELFAST BT12 6BE

CLINICAL NOTES

CH 334505
NSTR CONOR MITCHELL

12/10/87

Male

SH538

MD/DF

CONSULTANT

- admitted with virus ~~meningitis~~. Potentially over re-hydrated in CAH & despite family being concerned about lips & face swelling.

Then began to seizure in CAH - ~~Naipitany~~ ~~compression~~ NOTHING done until went into grand mal. Then arrested. → ICU.

Pressure put on mother to withdraw ventilation despite voluntary responses. Then told going to recover & move to RBHSC.

Arrived in RBHSC - told viral illness which was incurable & going to die.

Discussed w Mrs Scotman re present situation & my interpretation of events. Presumed viral illness into hospital had seizures (may or not had excessive we do not have documentation) ~~then~~ Then resp arrest & transferred to Adult ICU.

Pupils fixed & dilated, no brainstem function & following day ? volunt movement: transferred to PICU for further care.

From arrival - remains unresponsive, on IV adrenaline abnormal electrolytes

CT SCAN repeated yet ext diff edema of majority of brain & brain stem. Grey/white diff loss suggest infarction ? cause

WNC 762

BELFAST BT12 6BE

DATE/TIME CLINICAL NOTES

prob ischaemia

In ~~at~~ my opinion situation now inevitable & not going to make a recovery

Happy for Mrs Mitchell / Miss Mitchell to cont diaphragmatic exercises & amino acid therapy (if AA safe & we can assess this when they arrive)

Ms Scotson understands situation & I have said that I will speak with her again at family's request

[Signature]

(BOTHWELL)

11.5.3 13:00 pm

G. DHERTY (Reg)

Dr Bothwell discussed situation at length with Mrs Scotson. Dr Bothwell spoke for more than 40 min & her comments are outlined above. Conversation appeared clear & amicable.

[Signature]

11.5.03

Neurology

Have used

12 13th
Hicks

Saw Laura Mefly Kelly & change talked @ length with staff & with his uncle - referring to Senemo & Kelly & wife.

THE ROYAL BELFAST HOSPITAL FOR SICK CHILDREN BELFAST BT12 6BE

CLINICAL NOTES

CH 334505
MSTR CONOR MITCHELL

12/10/87
Nste

SHSSB
CONSULTANT

MD/OP

DATE/TIME

11.5.3 WR Dr Loan

JOHERTY
REF

Stable o/N.

Ventilation unchanged
(SIMV 17/5 e Δbpm FiO₂ 0.25)

u/o settled o/N

Na⁺ remains 160 +

Ng spont. resp. effort

R/V by Dr. Bethwell this am

a/e Pale Quiet.

HR 115 BP 94/62

H/S I + II + III

Chest clear ? ↓ A/E (L) base

PLAN

① STAT DOSE FURSEMIDE if required to obtain neg. balance

(+ balance o/N)

② DPAVP if u/o > 180 ml/h.

(after initial dose of furosemide has "worn off" i.e. with persisting severe DI)

③ Avoid large changes in Na⁺

BELFAST BT12 6BE

DATE/TIME	CLINICAL NOTES
	<p>④ <u>Fluids</u> 40 Replace urinary losses > 20 ml/h (Aim to replace \bar{c} NG feeds)</p>
	<p>⑤ c/w Maintenance ⑮ Saline + 10 mmol/L</p>
	<p>⑯ ⑰ Subclavian air line removed Pressure dressing applied.</p>
<p>11/5/03 G's mother given permission to speak Mrs Scotson give medical info.</p>	<p>12 MD DR Botwell (Dr Doherty present) founded charity 4 yrs ago Hyperbaric Trust (International) PhD UCL - resp co-ordination / metabolism in children \bar{c} CP. Trial with children including Conov for hyperbaric oxygen known family for yrs was because of this. later on - neuro respiratory therapy introduced for children \bar{c} CP & their Conov involved in this Now writing up therapy etc for PhD Aware of children in hospital \bar{c} CP. Doctors not as aware of metabolic / respiratory difficulties & not taken into consideration in treatment With Conov not long before this episode - appeared to be doing well. In touch with family over week of illness & appeared to be well orally hydrated until went into hospital. Mrs Scotson interpretation of illness incAN</p>

THE ROYAL BELFAST HOSPITAL, 109, BURNING MILL AVENUE, BELFAST BT12 6BE

CLINICAL NOTES

CH 334505
NSTR CONOR MITCHELL

12/10/87
Male

MD/OP

CONSULTANT

DATE/TIME

11/5/03

8 AM

No change in state overnight. Episode of oozing from (L) subclavian line site. Settled \bar{c} pressure. Some movement of lower limbs noted \bar{c} on light touch.

Mother felt one eyelid - fluttered x1.

Presently maintained on

DDAVP 2 mcg iv \bar{c} 2 hrsly of urine >60mls/c

Adrenaline 1.5 mls/hr

Ciproxin 200 mg BD

Ceftaxone 1.6 gm nocte.

Acyclovir 250 mg TID

Fluids

~~full main~~ Normal Saline + KCl = 4-7 mls/hr

Drugs:

If urinary output >20mls/hr replaced by N/2 Saline

°E. Temp 37°C. (needs warming blanket to avoid

Pulse 130

BP 90/50 mmHg

Pupils - unreactive. (R) pupil irregular in shape (oval). Dilated

BELFAST BT12 6BE

DATE/TIME

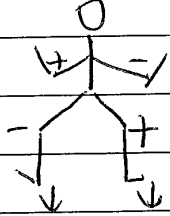
CLINICAL NOTES

-ve Doll's

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-ve Corneal -ve gag

Reflexes.



No response to deep pain with upper or lower limbs
With light touch some withdrawal of legs + / or
flicking of toes

Imp Neurological position unchanged. No voluntary
voluntary movements noted during examination

- Plan
- FBP / U+E / Coap - sent this AM. ~~noted~~ ~~scope~~
 - Continuing with present fluid ~~management~~ ~~previously~~
 - G's mother to obtain a supplementation for men
 - ~~man~~ ~~father~~ Discussion with mother to update situation

J. Bell
(Bothwell)

CH 334505
MSTR CONOR MITCHELL

19/10/87
Date

NO/DP

SH556
CONSULTANT

DATE/TIME

The cause of the original illness is not totally clear probable viral infection.

Conor seems to have had multiple tonic seizures & then a cardio/respiratory arrest which seems to have been due to acute granular

Compression 2° cerebral ischaemia. CATS ~~are~~ reviewed & discussed & then as per his note.

Talked to Grandmother who feels that Conor got a lot of fluid in CAH & that medical input was inadequate. He feels he had at best 12 major attention attacks & said like tonic seizures & that his face became unrecognizably purple & he became more lethargic prior to acute deterioration.

I reviewed my opinion & then said I felt it very unlikely Conor would recover from the illness as the signs are of

BELFAST BT12 6BE

DATE/TIME	CLINICAL NOTES
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Severe & likely irreversible brain damage. We are not sure of the exact fluid administration in case. There is been to try an 'amino acid' mixture which is to arrive tomorrow. Mr & Mrs - we will need to have contact but it seems unlikely we would object.

(Mr & Mrs will contact you to discuss funds)

Duty

11.05.03

0320

Asked to see
 002th from (D) suburban site.
~~At~~ Occurred following study turn.
 BP notes to surge momentarily at time of sore
 Approx 5-10ml on bedclothes
 Pressure applied to site
 HR steady + unchanged @ 135 bpm
 Non-invasive BP steady on 90/50 mmHg
 After pressure for 5-10 mins no further ooze
 * Observe closely
 Monitor BP & HR closely
 If any further ooze call me urgently
 Attention needed to 1.5ml/hr (1.5ml/2) 
 (continued)

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