

bb&Co. Brangam Bagnall & Co. Solicitors

Date:

Ref:

File Name:

Location:

4/5/2006.

18h/1/134.

Dr Steen

Lead Deposition

Covered.

Draft Death Cert given to Coroner.
Lead.

fluids given 8pm - 2am.

up. 11.30 normal given. to 11pm.

thereafter 801 given. effect of A/A.

no issue of fluid management at that time

what should have happened after 121. Show.

23.30. reassessment (clinical.)

Bld tests repeated

not personally called.

fluid began following 3am - support fluids & drops only

↳ no maintenance fluid given
↳ fluids extracted?

Retractable after 3am?

Do not have 201 to say definitely.

Condition not retractable

11.30.

summary: Co probably gone on for some hrs. various contrib factors

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Cerebral oedema. recovery - can have residual brain damage.

@ 11.30 patient may not have been retrievable.

Death - due to complex combination of:

viral infection + sepsis.

Of due to brain lesions.

Dr M. B. Wright about referring to car?

yes.

Exam.

Consultant on take from 9am Mon - 9am Tues.

Consultant in charge of clinic

aware of C's presence 9am Tues.

Cannot recall when first saw clinic.

Cannot

1.10pm.

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4/5/2006 RAHI/134/RS Claire Roberts (Inquest)

Dr Ian Young - Cons in Clinical Biochemistry
Read both his statements

Dr Young felt this case should have been referred
to the Coroner.

Usually takes about 1 hr for a result from
the blood test to become available.

Cnr - Key issue - How should the death be
formulated?

Dr Young: - 1 a) Cerebral Oedema

b) ^{meningitis} Encephalitis / ~~Encephalopathy~~
(this was clearly
present @ autopsy)

Statis-epilepticus

Hyponatraemia due to excess ADH production

Cnr: - Where does yours differ from Dr
Machonochie's etc...

This is just how he would personally
formulate a death certificate.

Cnr: Should this case have been reported in
1996?

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Dr Yang: - Perhaps not back in 1996

Re the inquiry? - This should be left to the inquiry, not for him but doesn't personally think there are any particular lessons to be learned from this case.

This should be left to Mr O'Hara.

Cross x

- Mr McCrea BL)

Letter (Mr McBride) 17/12/2004 read 2nd paragraph

Mr Lavery objects, unfair to confront witness with a letter which he has not seen before.

Dr Yang allowed to read the letter, as is Michael Lavery & the Counsel (letter received by C pursuant to Rule 17).

This para refers to "a case management problem". Dr Yang asked to explain this comment. He did not use this term to Dr McBride, he is fairly sure of this. He merely discussed with Dr McBride whether this case should have been referred to the Counsel.

Mr McCrea - Perhaps this was Mr McBride's view?

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Dr Yang: - Needs to be asked to Dr McBride.
Chares death attrib. to cerebral
odema. Hypon. was one of the 3
factors which contributed to that.

Dr p1(b): - better indicates ^{hypon.} better was a
signif. contribution to C's death.
Should hypon. not be elevated
to a greater level than 1(c)?

Dr Yang: - 3 contrib. causes & unable to
establish which 1 was more
signif. than the other.

Dr McCua: - There were reasons for restricting
C's fluid intake? Do you
agree

Dr Yang: - Yes there was "a progr. deterioration
of her condition"

If C had have presented now
her fluid management would
have differed - she was just
given standard fluid management
There were reasons C should
have been given less fluid.

Re fluid reabsorption ie; Sodium level from 132-129
Mr McCrea: - What effect would that effect have,
clinical manifestations?

Prof Young: - variety of symp, vague, insignificant but
include:
headache
fatigue
lethargy
sickness

Mr McCrea: - Re C's clinical manifestations -
all indic of a child's drop in
Na levels?

Prof Young: - Yes, but more in keeping with
encephalitis & various other
causes

Tons in C's case was meningoenceph-
alitis & status epilepticus. They are also
in keeping with hyponat. but
because of her status this
would have been the priority.

Mr McCrea: - Look @ odd facts - could this
not have been a child with
dropped Na levels?

Prof Young: - Yes, it could have been.

(132) Lower ref limit for serum
Na level & technically would
indicate hyponat. but this does
not mean it is not Area attrib to hyponat.

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Prof Young: - Today, hypon. would be thought about more.

He would list hypon. @ 1 (b) as contributing cause of death.

Mr McCrea: - C had potential for electrolyte imbalance?

Prof Young: - Yes, he would agree with this. No inv. in Adam Strain case @ all.

Mr McCrea produces doc. from Mr O'Hara's w. site re Adam Strain Inquiry lists guidelines for dealing with children who require hypotonic solutions ???

Mr Harvey objects to the intro. of this doc. Coroner & Mr L. read document?

Mr Harvey objects to quest. Prof Young re circumstances following death of Adam Strain.

Mr McCrea: - Good clinic practice to take blood 1st thing in morning?

Prof Young: - At least once a day, usually taken in children's hosp. in afternoon.

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Mr McC :- Sh. blood have been taken that morning?

Mr L :- objects to this line of questioning.

Mr McCrea :- Refill in Na levels?

Prof Yang :- Impossible to say if this was linear, likely to have occurred gradually over time.

Re fluid regime ^{Oct 22nd} 8pm - 2am period (fluid overload)

Mr McCrea :- C's prescrip^{64 ml/hr} was . 491 ml between 8pm - 2am
458 ml in 4 hrs = 114.5 ml/hr
which is far in excess of presc. level of 64 ml/hr.
Is this not an excessive level of fluid, is this fluid overload?

Prof Yang :- This is not easy. No occur. record of vomit/urine, nor its Na content.

I agree about of fluid let. 8pm & midnight was more than prescribed, but cautious medic. were given during that time. Peripheral oedema was prob. well

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estab. by 9pm that evening.

Mr Mc Ghee: - After 8pm, def. sign. change in the Coma scale? She is after this time receiving @ least 80% more fluid than prescribed. Is there a connection between the two?

Prof Yang: - C. Oedema takes sev. hrs to dev. so a change in fluid @ 8pm would not cause Cerebral Ed. by 9pm.
Hyp. is the crucial issue rather than the fluid received.

Re "simple" further tests???

- Blood tests? - def. show a drop in Na levels
- Urine sample? - wouldn't have given any useful additional information
- CT Scan - not a simple test but would show cerebral oedema @ that

Mr Lavery: - Re compiling death cert?
Are you familiar with guidance
list for chs filling out death
certs?

Prof Yang: - Not familiar with the list, but
knows of it
If putting hypo on the list, would
want to provide some expl. as to
the cause of it.
Hypo - ches to excess ADH
production is how he would term
it.

Re Public Inquiry?: - Some familiarity with
the other cases.

Similar with T & Ref. of the
inquiry?

Prof Yang: - Have read them, but not familiar
This case doesn't fall under
the same criteria as the other
cases though.

Michael Lavery: - Should terms of reference be
widered to include C's case?
Needs to be considered by
inquiry, but all 3 contrib.
factors would need to be
examined by Mr O'Hara, not
just hypernatremia.