

bb&Co. Brangam Bagnall & Co. Solicitors

Date:

Ref:

File Name:

Location:

25/4/2006.

Clarence Roberts

186/1/134/65

Mr M'Creagh for Family
for

Mr Lacey.

Date of Death 23-10-1996.

Inquest being held - Adam Sparr Lucy Crawford + Rachel Ferguson -
fluid management played a part in why each child died -

Effect of much discussion + comment - O'Hara Inquiry -
to take a wide view - Can anything be done to prevent a
similar death.

Roberts have asked to formally refer the matter to Inquiry +
as RCH asked Lark to look at case - provided O'Hara Inquiry
copies of all reports obtained. Does it think that O'Hara
would not get the consent / auth. of Minister.

Was hypo - primary part or of an ancillary nature?

Point of any Inquest - ascertain accurate formulation of
Cause of Death? Death Cert being written - How would death
of cause be formulated? What a 1 a be and what
delegated to part 2 (significant conditions but not
causative of death) Formulation of causal chain!
if there are wider issues - leave them for O'Hara Inquiry.

Is there sufficient evidence that causal hypo?
where is causal chain?

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~~I run off 2 a meeting for 2 hrs. Rose will
attend this inquiry.~~

~~Dr Hewson~~

- Infection cannot be absol. excluded.

Path cannot say if epilepsy was the cause of death.
He couldn't exclude a metabolic cause of death
(low sodium, ADH secretment)

C - Why did Clive die?

Pathologist - Cerebral oedema (as path. not his place to give
the cause of the cerebral oedema.)

- The was also little inflow in the brain, not
signif but none the less, it was there.
He also carried out p.m. on Rachel

Why's
not Brain? 1606 grams

Path - Brain sh be 12-1300 grams - 1600 gms more
than expected child for a child of this age.

sl - Oedema caused by hyponatraemia?

Yes, this can be the cause.

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Cns1 - You were aware her sodium level had dropped to 121

Path - Yes, but not aware that it had dropped from 132.

Cns1 - Were all factors present for hypo?

Yes, along with respiratory arrest.

Mr Lavery - Were you aware of some infection?

Path - Possibly a viral infection, but other factors may have caused inflam. of the brain.

Mr Lavery - Meningion Encephalitis?

Path - Probably observed the autopsy with an infection probably being a cause of the death.

He would see hyponatremia quite often so he would know sodium as low as 121 would indicate some was present.

Mr Lavery - Any conclus as to what part epilepsy would have played in the cerebral edema?

Path - He couldn't say, but nursing staff clearly thought this may have been a factor.

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Mr Lavery - an infection could not be excluded
as a factor?
Path - no it could not be excluded as a
factor in causing her death.

Dr I McCarty, Con. in Paed A&E
Maconochie St Mary's, London

Prepared Ref on behalf of the Coroner.
Re fluid mang. issues are referred to Mr Bingham

Maconochie
Dr McCarty read out his Report.

Cor - Do you accept hypon was present?
Dr Maconochie - Yes he accepted this. 132 is
right on the edge of the low sodium
reading.

Inv - How would you have formulated the
H.M. - death cert?

1) Cerebral oedema
2) Contributing factors - encephalitis / encephalopathy
3) hypernatremia

Hildon House, 30-34 Mill Street, Belfast BT1 2LB Tel: [REDACTED]
Commercial Mews, 69-71 Comber Road, Dundonald, Belfast BT16 0AE Tel: [REDACTED]

Fax: [REDACTED]

Fax: [REDACTED]

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Pat 2 Status-epilepticus (illus by Claire's history of learning difficulties)

A child with l. diff. may make neuro. exam quite difficult in itself.

Cnr — What sort of complaints would a child have if hypo developing?

Dr M • Headaches
 • Vomiting
 • Lethargic

Qv — Any key symptoms?

Dr M — Headache & lethargy which would affect neuro. function. These are important symptoms in diagnosing hyponatraemia.
Hyponatraemia can be a possible underlying cause for the cerebral oedema.

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Cnr - Re Mr Robert's statement ?

Dr M - Can't answer many of his ques.
Most are for management to answer.
Possibly were in area of Dr
Bingham.
He would have reported the death
of Claire to the Coroner had he
have looked after her at the time.

Mr McCreedy - Claire's underlying cond did affect
the drs assessment of her but
there were simple tests (bloods)
which could have been taken
in the morning being in mind the
borderline (low) sodium level

Dr M - Yes b. test ~~should~~^{may} have been
taken @ that time.
Her health was deteriorating during
course of the day.
Blood test would have shown lower

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* Claire's death warrants notification in the O'Hara Inquiry. *

sodium levels, possibly suggesting hyponat. There are diff. in ascribing to cerebral odema to encephalitis / encephalopathy / hyponat. There truly is a difficulty here. All ~~sym~~ symptoms were consistent with a child suffering from hyponat, but were also consistent with a number of other conditions as well.

Sodium levels can also be checked by sticking urine sample. He agrees this was not done in this instance.

He would have the sodium test repeated immedi. there was a reading this low (121). He would then carry out a clinical assessment of the child. ~~Diagnosis~~ stop

* Need to know the underlying cause of the hyponat. when trying to treat it. *

There is a diff. in determin. urinary output in children, but the use of a catheter.

Claire wore nappies & it was diff.

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or impossible to measure the fluid loss (as with vomiting).

Neurological status was the point of concern in this instance.

Raised white cell count not proof of an infection but based on other symptoms it was suggestive of one. It's a question of linking cause & effect.

It is diff. to ascribe which one of the contributing factors ultimately led to the element but hypo. is definitely a contrib. factor under Part 1(b). It certainly is one of 3 key elements in contrib. to her death.

There are sub-elements to the hypothesis. Don't know the underlying cause of the contributing factors in Part 1(b). Diff. to give an absolute degree of precision in these cases.

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Dr Bingham FRCA

Con. Paed. Anaesth., Great Smard St, London

Prep. Rep @ request of Coroner. Her req Dr Macdonald
prep a rep. on Neurolog. angle of this case.
Dr Bingham summarises his Report (background)

Glasgow coma score of 6 is almost
moribund - a very deep coma.

Cnr - How would you formulate the
cause of death.

Mr Bingham - 1 a) Cerebral oedema
b) Excephalopathy / hypoxia.
agrees with Dr Macdonald.

Cnr - Would you rep to local Cnr?

Mr. B - Yes, I think so.

Cnr - Should Clare's death be included
in the Public Inquiry?

Mr B - Not possible to completely excl.
that the sodium reading was an
artefact. The test should have been
repeated. Mr C. Hare should make
the determination if this is a case for
the coroner.

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Cnr - Do you know what may have caused the 3 underlying factors?

NW B - Refers to the Toronto Paper on admin. fluids on a subject with such low sodium readings. Fluid output doesn't explain the fall in the sodium levels (based on recs re wet nappies, ath. this is indirect evidence)

Cnr - Other causes other than fluid management can cause hypon?

NW B - Claire may have had v. high levels of ADH secretment caused by . neurolog. illness . nausea / vomiting

So there may have been some ~~the~~ intrinsic factor in Claire which led to the low sod. levels.

Cnr - What symptoms would alert you to hypos . neurological instability . slowing of heartbeat / high b.p . losing consciousness

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These symptoms are spec. to cerebral oedema - not to the cause of the cerebral oedema.

Cnr - If sod. loading was an artefact of you had restricted the fluid, would this have caused any problem?

Mr. B No.

Cnr - Could you fault to a particular thing that may have made a difference to the outcome?

Mr. B - Aggressive intervention at the time of the low sod. loading may have changed the outcome, difficult to say. Aggressive intervention, that which was given @ 03:00.