

by: DR. JOHN BURTON
(Post-graduate law researcher)

Inspection: 8th Dec 2004

Research Access permitted to Inquest Documents on

ADAM STRAIN

DOD - 28/4/95.

(2872) 21

Audio
Tape Notes @

St Michael's Hospital

Southwell St, Bristol, BS2 8E

Adam's MEDICOLEGAL REPORT from Professor P.J. BERRY 23.3.

* not called to give evidence at Inquest

Background :- para 4 "The surgery was complex but a satisfactory transplant was carried out with an acceptably matched kidney from a 16 year old donor."

continuation Sheet 1

Microscopic Slides

Transplant Kidney

my emphasis) → "THE KIDNEY SHOWS ALMOST COMPLETE INFARCTION"

Comment:

"From my examination of the histological sections I can confirm that this child had a severe renal disease supporting the clinical decision to undertake renal transplantation. I note the clinical history of reflux and recurrent urinary tract infection. Whilst the histological appearance is entirely consonant with cystic renal dysplasia, the medullary cysts, intense interstitial fibrosis, and the history of polyuria raise the possibility of medullary cystic disease. (This is not relevant to the child's death but may be important in counselling and can be resolved from the clinical history.)" ①

my emphasis) → THE TRANSPLANT KIDNEY WAS INFARCTED (DEAD).

The EXTENT OF THE CHANGE SUGGESTED THAT THIS OCCURRED AT OR BEFORE THE TIME OF TRANSPLANTATION. THIS COULD BE RESOLVED BY ENQUIRIES ABOUT THE FATE AND FUNCTION OF THE DONOR'S OTHER KIDNEY AFTER TRANSPLANTATION." ②

Correspondence

dated 25.03.1996

to Mr J. Leckey

From Prof. S.J. Berry, Dept of Paediatric Pathology.

"Many thanks for asking me to provide an opinion on the sad case. As you will see, I am unable to throw light on the cause of his child's death. I suspect that the answer lies in the precise details of his clinical management and the examination of his brain. ^{(Transplant Kidney) JS} MY ONLY CONTRIBUTION IS THAT I DOUBT THIS KIDNEY WOULD EVER HAVE FUNCTIONED, AND TO CONFIRM THAT HE DID INDEED HAVE SEVERE DISEASE OF HIS OWN KIDNEYS supporting the decision to carry out the transplant operation.

I would be pleased to comment further in the light of the final post-mortem report and neuropathology, but anticipate that you may well not ask me to do so.

ADAM STRAIN
mspecked : 8/12/2004

Correspondence:

Date : 13.12.1995

Grosvenor Road BT12

To : Dr Aliss Armon, State Pathologist Dept: Inst. of Forensic Med
From Coroner: J. L. Leekay.

Quote. Drs Gaston & Lyons felt that it would be most important to obtain a paediatric anaesthetic opinion and they pointed out that Dr John Alexander has little if any experience in this very specialised field. Also THEY MADE THE POINT THAT THEIR CONSIDERED VIEW IS THAT DEATH HAD NOTHING TO DO WITH ANAESTHETICS. I GET THE IMPRESSION FROM SOMETHING DR. DENIS O'HARA SAID IN PASSING THAT THE FINDINGS OF GROSS CEREBRAL OEDEMA COULD BE EXPLAINABLE BY THE TIME THE CHILD WAS ON THE VENTILATOR

CRYPTIC?
JB

? problem arising during induction (Dr O'Hara in conversation with JLL (Coroner))
? equipment failure. ∴ independent examination of equipment - ordered → Oh

Continuation Sheet(4) Research Heces to Inquest into
ADAM STRAIN
inquested 8/12/04.

Witnesses for Inquest on 18 June 1996
on ADAM STRAIN (4)

DOD: 28.11.1995 @ RVH : BHSC

- ① Constable. S. R. TESTER - c/o R.N.C Grosvenor Road
- ② Debra STRAIN - [REDACTED]
- ③ Dr. Alison Aremore (S.R) - Dept. STATE Pathology. Inst. F.M. BT
- ④ Dr Edward SUMNER - Consultant Paed. Anaesthetist
Great Ormond Street Hospital. WC1N 3JH
- ⑤ Dr JOHN ALEXANDER - [REDACTED]
- ⑥ Mr. P. F. KEANE - Consultant UROLOGIST SURGEON. B.C.H.
- ⑦ Dr Maurice SAVAGE - Consultant Paed. NEUROLOGIST, BHSC
- ⑧ Dr R. H. (Bob) TAYLOR - Consultant PAED. ANAESTHETIST) BHSC

Correspondence with

(a) Dr George Murnaghan, Unit Administrator, RVH

(b) Mrs Susan Young . " " B.C.H

(c) Francis Hanna & Co Solicitor for STRAIN family.

(x) Prof. P.J. Berry, Directorate of Pathology.

Consultant Paed. Pathologist:

St Michael's Hospital, Southmead St. BRISTOL BS2 8E

(c) Report Dr John Alexander Consultant (Attached) ARIEFF BMJ.
The operation was difficult and prolonged

(c) Dr Edward Sumner. 22 January 1996. Great Ormond St London.

(e) Debra STRAIN's statement 17/01/96.

DEPOSITIONS by

- ① Dr. R. H. TAYLOR given 21. June 1996 21. June 1996
② Constable (R.U.C) Stephen Richard TESTER 18 June 1996.
③ DEBRA STRAIN - Adams mother 18 June 1996
④ Dr ALISON AEMOUR - (SL) State Pathologist 18 June 1996
⑤ Dr EDWARD SUMNER Paediatrician - Gt Ormond 18 June 1996
⑥ Dr JOHN ALEXANDER Anacoth - B.C.H. 18 June 1996
X ⑦ Mr. P.F. KEANE Urologist (Sx) B.C.H. 18 June 1996 X
⑧ Dr Maurice SAVAGE Dental Physician B.T.Sc 21 June 1996.

" para ② "

Since Adams death these would be measured
more frequently (electrolytes) I HAVE DISCOVERED THAT

! IN THE UK THERE HAVE BEEN ⑨ OTHER DEATHS FROM
AN APPARENTLY SIMILAR CAUSE THOUGHT THESE HAVE NOT
BEEN PUBLISHED)

para ⑩

" With the benefit of hindsight the sodium
became too low "

MR BRANGREN

para ⑪ " The information about the ⑨ other deaths
DEATH WAS TOLD TO ME VERBALLY LATER - IT WAS
NOT PUBLISHED

⑨

ADAM STRAIN

inspected 8/12/04

FRENCH → Editor DR TED SUMNER. + ARIEFF Comments Ed.

CASE REPORT. "Severe hypotension after plastic surgery in a girl
1996 with cleft palate, medial facial hypoplasia and
 growth retardation."

by ^① Alexandra Gomord - Opt. Anesthesia & IC.

Dept. Paed Endo, Sylvie Cabrol - Hôpital d'enfant Armand Trousseau

Co-repon → ^① Professor Isabelle MURAT - Hôpital d'enfant Armand Trousseau

26 avenue de Dr Arnold Netter

75571 Paris Cedex 12. France

Tel. [REDACTED]

Fax [REDACTED]

"In conclusion, inappropriate secretion of ADH may occur
 in EVERY SURGICAL PATIENT"

ref.: SOKER D, EZEC T, LUCAS, FED S, SAVIE I,

'Symptomatic hypotension due to inappropriate ADH.
 following minor surgery' CAN J. ANAESTH.

1991; 33: 225-226

IMPROVED PRINT-OUT attached to Deposition of DR Bob TAYLOR
 27 Nov. 1995.

(8¹⁵ am) It appears that @ about 8¹⁵ AM - HR began to ↓ drop (gradually)
 - BP began to ↑ (in Hg)
 [? onset of cerebral oedema - possible ↑ raised intracranial pres]

(9¹⁰ am) Abrupt raise ↑ in Blood pressure (mm Hg)

Concomitant fall in ↓ HR (heart rate).

* 9²⁵-10⁰⁰ Significant rise in CVP (Central Venous pressure@neck) ? ACTION? take

(11⁴⁵ am) OPERATION MONITORING CONTINUED UNTIL ~ 11⁴⁵ AM

Continuation Sheet ⑥ Research Access to Inquest Docs . on

ADAM STRAIN.

inspected 8/12/04

Medical Report.

22. January 1996.

Dr Edward Sumner, Great Ormond Street.

REPORT OF AUTOPSY (held 29. Nov 1995)

by Dr. Alison Armour. MB BCh. MRCPath DMJ (Path)
reg. med path. Staff Path. Sp.

I (a) CEREBRAL OEDEMA.

due to

(b) DILUTIONAL HYponatraemia AND IMPAIRED CEREBRAL
PERFUSION DURING RENAL TRANSPLANT OPERATION
FOR CHRONIC RENAL FAILURE. (Congenital

NB.
OBSTRUCTIVE CRYPATRY)
finding: - The onset of cerebral oedema was caused by the acute onset of hyponatraemia
from the excess administration of fluids containing only very small amounts of sodium and this was
exacerbated by blood loss and possibly the ateriovenous shunts and obstruction of veins drawn
to the heart.

(ii) DRAFT STATEMENT [5] ? RVH. The Royal Hospital TRUST
date?

"In the light of the rare circumstances encountered in
the Adam Strain case, and having regard to the information
contained in the paper by ARIEFF et al, (BMJ 1992)
and additionally having regard to information which has
recently come to notice that perhaps there may
have been nine other cases in the United Kingdom
involving hyponatraemia which led to death in patients
undergoing RENAL TRANSPLANTS, The Royal Hospital TRUST
wish to make it known that:

— in future all patients undergoing major
paediatric surgery who have a potential for electrolyte
imbalance, will be carefully monitored according to their
clinical need, and where necessary, intensive monitoring
of their electrolyte values will be undertaken. Furthermore

PTO.

continued from overleaf

Furthermore, the now known complications of hypotension in some of these cases will continue to be assessed in each patient, and all anaesthetic staff will be made aware of these particular phenomena and advised to act appropriately.

The Trust will continue to use its best endeavours to ensure that operating theatres are afforded access to full laboratory facilities to achieve timely receipt of reports on full blood picture and electrolyte values thereby assisting rapid anaesthetic intervention where indicated.

END

[Signature difficult to read
?? Bert O'Flynn ??

ADAM STRAIN

inspected 8/12/2004

DEPOSITION by Mr. Patrick F KEANE 18th June 1996
under OATH:

Consultant Urologist to BCfH Dept of Urology

@ Inquest

"I was asked to transplant the 4 year old boy on Monday 27 November 1995. The operation started at 7.30 am and was technically very difficult because of previous surgery that the young boy had. However, despite the technical difficulties the kidney was successfully put into the child and perfused quite well initially and started to produce urine. At the end of the procedure it was obvious that the kidney was not perfusing as well as it had initially done, but this is by no means unusual in renal transplantation. The whole operation procedure took about 3 hours. I was informed later on that day that the child had some cerebral oedema and that he was probably brain dead.

(Letter to Mrs. S. Young, Complainant's Office, Africa. Taxis Block 11 December 1995)
Same as above plus "IN SUMMARY THEREFORE, THE OPERATION WAS DIFFICULT BUT A SUCCESSFUL RESULT WAS ACHIEVED AT THE END OF THE
ADDITION TO Transcript given orally at Inquest. PROCEDURE"

"Monitoring of urine during transplant procedure is never done."

Miss Higgins:

The Operation would have started between 7th AM and 8th AM. I do not believe that surgery of that nature should be undertaken at 2/3 or 4 am if possible. In this case the kidney being transplanted had been removed from within a normal time period before surgery.

The blood loss of 1200 cc was not all blood but contained fluid as well. I was not aware of Afrifil's paper. In the light of Adams experience the factors in that paper would be carefully considered in future.