

## Business Services Organisation

Directorate of Legal Services

Practitioners in Law to the Health & Social Care Sector

2 Franklin Street, Belfast, BT2 8DQ DX 2842 NR Belfast 3

Your Ref: BMcL-0027-12 Our Ref: HYP/W50/2 Date: 26<sup>th</sup> March 2013

Mr B McLoughlin Assistant Solicitor to the Inquiry Inquiry into Hyponatraemia-related Deaths Arthur House 41 Arthur Street Belfast BT1 4GB 1NQ-4119-13

Dear Sir

### **RE: INQUIRY INTO HYPONATRAEMIA RELATED DEATHS- RAYCHEL FERGUSON (PRELIMINARY)**

We refer to your letter dated 13<sup>th</sup> November 2012 and to our letter dated 26<sup>th</sup> February 2013. Dr McMorrow, one of the authors of the slide presentation, has provided some information pertaining to the slide presentation and the audit.

Dr McMorrow was employed by Altnagelvin Hospital from August 2005 to August 2006. During this time she carried out this audit project under the supervision of paediatric consultant Dr Neil Corrigan. The audit was proposed by Dr Corrigan and facilitated by the Trust audit department. Dr McMorrow presented the information as follows:

- Ulster Paediatric Society meeting May 2006
- Altnagelvin Hospital Audit Symposium June 2006
- Europaediatrics Conference (poster presentation), Barcelona October 2006

Dr McMorrow has forwarded the Abstract for the project entitled "Paediatric Hyponatraemia: Incidence, Aetiology and Management" and we enclose a copy of same.

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Yours faithfully

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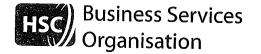
John Johnston Solicitor

Providing Support to Health and Social Care









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Dear Sir

# RE: INQUIRY INTO HYPONATRAEMIA RELATED DEATHS- RAYCHEL FERGUSON (PRELIMINARY)

I refer to the above matter and to your letter dated 13<sup>th</sup> November 2012, referenced above. I confirm having now received instructions from my client, as follows.

I am informed that, in its efforts to obtain the information requested in your above-mentioned letter, the Western Trust made various attempts to contact both of the authors of the presentation, Dr McMorrow and Dr Corrigan. Dr McMorrow was formerly employed by the legacy Trust in 2000 as a Junior Doctor. However, she is no longer employed by the Western Trust and the Trust is currently attempting to locate her whereabouts.

Dr Corrigan is a Consultant Paediatrician who is currently employed by the Trust at Altnagelvin Hospital. My client had passed on your request for information to Dr Corrigan, and he has only just been able to locate the relevant documentation which he has now forwarded to my client. Accordingly, I now enclose copies of the following documents, for your perusal:-

- 1. Document entitled- 'Paediatric Hyponatraemia:Incidence Aetiology and Management'
- 2. 'Hyponatraemia in Paediatric Appendicitis'- Authors, McMorrow, Corrigan et alia.
- 3. Presentation slides- 'Paediatric Hyponatraemia: Who Gets it and Why?'-Authors, McMorrow and Corrigan.

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### Providing Support to Health and Social Care







I also enclose a pro forma 'Checklist document' which has been provided to us by the Trust's Professional Audit Department, in connection with Dr Corrigan's Audit.

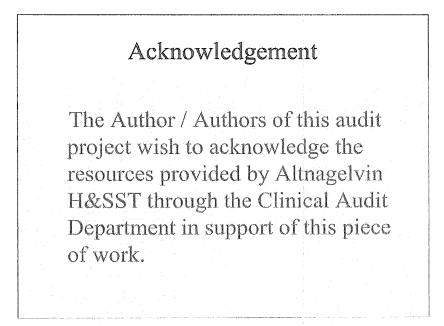
Yours faithfully

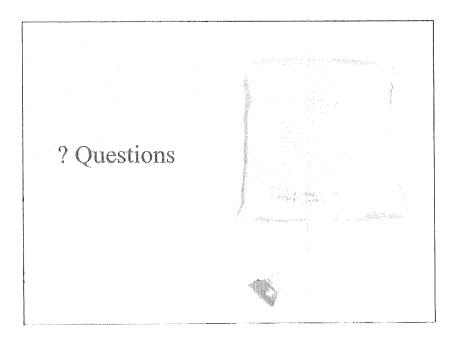
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Angela Crawford Solicitor

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Department of Puediotric, Altnagelvin Area Hospital, centre ះសាលាន Londonderry, UK p. 0.03%.

AETIOLOGY AND MANAGEMENT

A M Me Morrow, N P Corrigan

<sup>1</sup>Second Pediatric Department, Venizelio General

Unit, Venizelio General Hospital, Heraklio, Crete,

Hospital, Heraklio, Crete, Greece, "Antihypertensive

Background and Aims: The metabolic syndrome ir

adults is correlated with higher cardiovascular risk

Recently, several studies discuss the presence of

metabolic syndrome in children and adolescents. Our

purpose was to calculate of the frequency of metabolic

syndrome in three groups of children and adolescents

according Body Mass Index (BMI), 1) BMI> 95th

percentile (obese), 2) 95th «BMI» 85th (overweight

Methods: We studied 106 obese, 30 overweight

children and 36 with BMI < 85th percentile who were

examined in the Pediatric Obesity Unit in our hospital

The ages ranged from 6,5 to 17 years old. Blood

samples were received from all children after 12 hours night fusting and glucose, triglycerides and HDL were

calculated. Blood pressure was also measured. The

children of our study were considered to have metabolic

syndrome if they completed 4 out of 5 of the following

criteria according age and sex: BMI > 85th percentile. systolic pressure or/and diastolic pressure > 95th

percentile, triglycerides > 95th percentile, HDL < 5th

Results: 11 out of 106 (10,36%) of the obese children

completed the criteria for metabolic syndrome. The

youngest child was a boy 6,5 years old. Only 2 out or

the 30 (6.6%) overweight children also completed the

necessary conditions for metabolic syndrome. In the

group with BMI <85th percentile there was not found

Conclusions: The relatively high frequency of

metabolic syndrome in obese children should alert us in

maximizing our efforts towards prevention and

PAEDIATRIC HYPONATRAEMIA: INCIDENCE.

percentile and fasting glucose > 110 mg/dl.

any child with metabolic syndrome.

treatment of obesity.

and 3) BMI <85th percentile.

Background and Aims: Recent publicity has highlighted the potentially catastrophic results of 0.015 paediatric hyponatraemia. Little data exists however on and a the overall incidence and course of uncomplicated -- 366. hyponatraemia in general paediatric practice.

ic blood Methods: All children admitted to Almagelvin Hospital over a 21-month period with hyponatraemia («133) o marker were identified using our laboratory database. Newborns 988. IS and infants in NICU were excluded. Retrospective chart nte risk review enabled data collection regarding incidence. actiology and management.

Results: 6,276 children were admitted to Althagelvin Hospital over the study period, 153 patients (2.4%) had at least one documented episode of hyponatraemia (medical 68% vs surgical 32%). Of 105 medical children, the most common diagnoses were maki . gastroenteritis (25%), viral infections (25%) and lower ristaki respiratory tract infection (21%). Of 21 general surgical

children, acute appendicitis accounted for 50%. The 118

incidence of hyponatraemia complicating acute appendicitis was 11%. The primary pathophysiological trigger for the hyponatraemia was attributable to SIADH in 66% of children overall. Hyponatraemia was a presenting feature in 88% of children. Intravenous lluid therapy was prescribed for 61% of children. 0.45% saline / dextrose (64%) and isotonic saline solutions (27%) comprised the majority of prescribed fluids with no children receiving solution 18. Fluid volumes were given as maintenance in 60%, restricted in 31% and potentially generous in 7%. No serious complications of hyponatraemia were identified.

Conclusions: Hyponatraemia is a common complication of acute illness in both medical and surgical children, with SIADH as the primary mechanism. Very hypotonic intravenous solutions are no longer being prescribed, in keeping with regional guidelines.

#### THE TOLERANCE OF ENTERAL NUTRITION IN CHILDREN WITH ACUTE PANCREATITIS

M Kostrzewska, E Toporowska-Kowalska, J Kudzin, K Wąsowska-Królikowska

Department of Children's Allergology, Gastroenterology and Nutrition. Poland

Background and Aims: Enteral nutrition (EN) is a preferable alimentation form for children with acute pancreatitis (AP). The subject of the study was evaluation EN tolerance in AP patients hospitalized in Children's Allergology, Gastroenterology and Nutrition Department of Medical University in Łódź, in 2005-2006.

Methods: Retrospective analysis involved the course of EN: duration, amount of calories, change of body weight and elinical tolerance of EN in 13 patients aged from 4.5 to 18 years (average 10,6 ± 3,96), with 16 episodes observed. Low-fat, half-elementary diet was applied by nasojejunal catheter, using poinp,

Results: 13 episodes AP were mild and 3 severe (2 pseudocysts and 1 rupture of pancreas, all treated by drainage). AP etiology; abdominal trauma (n-4), hereditary AP (n=1, 4 episodes), panereus divisum (n=1), cholelithiasis (n=1), infectious AP (n=2), post valproie acid (n=1), idiopatic (n=3). EN time: 5 to 46 days (average 19±10,99); the shortest course hereditary AP (average 8+2,58), the longest - in positraumatic AP (average 28,5 +12,28). By EN we ensured the supply of 42,6±13.28 kcal/kg per day on average, reaching rise of body weight 900±678,23 g (2,6812,02%) in 6 children; the initial weight -2 and decrease - 8 patients (average 6001538,52g; 1,37±1,02%). Undesirable effects (nausea, dianthoea. vomitus) were observed in 6 patients (37%): 3 (19%) were passing, 3 (19%) - needed modification o. nutritional therapy (2 - lower dose of EN, 1 - TPN). Conclusions: EN is well tolerated by children with mile

AP. The patients with posttraumatic AP, developing complications, may cause worse EN tolerance.

### CONGENITAL CHLORIDE DIARRHEA: A REVIEW OF 12 ARABIAN CHILDREN

A F El-Hassanien<sup>1</sup>, II A Al-Ghiaty<sup>3</sup>

