Document 1

Audit of Documentation of Fluid Requirements & Fluid Balance on Children following Surgery

July 2003

The Clinical Audit Department Altnagelvin Area Hospital

Audit of Documentation of Fluid Requirements & Fluid Balance on Children following Surgery

Standards used:

'Any child receiving Prescribed Fluids is at risk of Hyponatraemia' Department of Health Guidelines (2002)

'Guidelines for Record and Record Keeping' Nursing & Midwifery Council (April 2002)

Sample size

33 surgical admissions were admitted to CHW from 01/01/03 to 31/05/03, of these, 14 went to theatre and received IV fluids. The fluid balance charts of these 14 patients were used in this audit.

1. Age of patient

- 2. *Male* **64%** *Female* **36%**
- *3. Type of surgery*

4. *Is the patient's name on the chart?*

Yes 93% No 7%

5. Is the patient's ward on the chart?						
•	Yes	50%	No	50%	.	
6. Is the date on the chart?						
,	Yes	86%	No	14%	.	
7. Is the Hospital No. on the chart?						
•	Yes	29%	No	71%	.	
8. Was it totalled at the end of the day?						
,	Yes	0%	No	100	%	
9. Is the patient on IV fluids?						
•	Yes	100%	No	0%		
10. Type of IV infusion 0.45% NACL + 2.5% Dextrose 3(23%) of these also had 0.9% NACL Hartman's Solution						93% 7%
11. How many Mls/kg fluids was the patient commenced?						
Maintenance Fluids (DoH guidelines) 93						93%
100m	ils/h	r x 6 hrs o	n retu	irn fro	om theatre	7%
12. Are they prescr	ribed?					
•	Yes	100%		No	0%	
13. If yes, are they legible?						
•	Yes	100%		No	0%	

14. *Are they signed?*

Yes 86% No 14%

15. Were they commenced as ordered on prescription

Yes 100% No 0%

16. Was the patient weighed on admission/prior to IV fluids?

Yes 93% No 7%

17. Has the patient had a U&E checked prior to IV Fluids?

Yes 86% No 14%

18. Has the patient had a U&E checked daily while on fluids?

Yes 86% No 0% N/A 14% (1 day only)

- 19. Any changes noted on chart e.g. tissued etc
 - 500mls NACL infused over 1 hr. as not passed urine
 - Fluids discontinued x 2 hrs. Reason not documented
 - 200mls infused in theatre but not entered on chart
 - Fluids stopped for antibiotics documented on chart
 - Cannula tissued documented on chart
 - Stopped to go to X-ray documented on chart
 - Fluids in theatre not entered on chart "bag disposed of in theatre"
 - Fluids reduced documented on chart
 - No fluids entered for time in theatre left blank
 - Fluids changed to 0.9% NACL as Na low documented in care plan
 - Fluids discontinued as prescribed documented
 - Fluids in Theatre commented on but no total entered
 - Fluids stopped for period documented but not reason
 - 500mls infused in theatre but not entered on chart
 - 300mls infused in theatre but not entered on chart left blank

Note: Some patients had both "mls" and "PU" documented

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25. Is the oral intake recorded regularly e.g. after each meal

Yes 100% (after period of fasting)

Yes 93% No 7%

Comment – on 2 occasions oral fluids tolerated for 12 and 15 hrs before fluids reduced Conclusions

- Patient's details are not documented on all Fluid balance charts
- Fluid balance charts are not totalled at end of the day
- When patient goes to Theatre, fluids infused in Theatre are not documented on to the Fluid balance chart (Total infused in theatre is calculated on anaesthetic sheet)
- Not all IV prescriptions are signed.
- 93% children received Maintenance Fluids in line with DOH guidelines (2002).
- Urinary output not documented for long periods, some documented in millilitres and 'PU' on same chart
- IV Fluids are not always reduced as oral fluids increased