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Tatrogenic hyponatraemia

Michael Cosgrove, et al. ADC Online, 27 Jun 2003 [Full text]

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About RCoA

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Courses and Meetings

Overseas Doctors

Examinations

Professional Standards

Publications

News

Current News

Archived News

Hazard Warnings and Medical Device Alerts

Bulletin

Patient Resources

Contacts

Association of Paediatric Anaesthetists

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Print Page

Current News

Possibility of water overload with severe hyponatraemia developing after the infused extrose/0.18% saline (advice issued by the Royal College of Paediatrics and Chil

The Royal College of Anaesthetists has been asked by the Royal College of Paediatrics Health to disseminate the following information:

There is a possibility of water overload with severe hyponatraemia developing after the i dextrose/0.18% saline. The issue has been discussed by both the Medical Control Agency/Committee on Safety of Medicines and by the Joint RCPCH/NPPG Standing Cc Medicines. The issue has arisen because of a recent report of a case of fatal hyponatrachild following the use of 4% dextrose/0.18% saline after surgery.

However, a review of the literature shows that acute hyponatraemia in children following administration of hypotonic fluids, intravenously or orally, is well documented (at least fix publications) from as far back as the late 1960's. None of the published reports relates \$ 4% dextrose/0.18% saline but rather refer to hypotonic fluids. In contrast 4% dextrose/0 isotonic before being administered but is effectively hypotonic in the sick child once the metabolised. Children in the post operative period are particularly susceptible to serious occasionally fatal neurological complications of acute hyponatraemia and sick children is 'stressful' situations may also be at additional risk.

The most recent case suggests that although this phenomenon is not new, the administ hypotonic post-operative intravenous fluids (or fluids which are isotonic in vitro but hypois still occurring with potentially serious consequences. The joint RCPCH/NPPG Standir on Medicines concluded that this was an issue of clinical practice rather than a product Nevertheless, members agreed that there is genuinely a risk, namely that:

1. Intravenous fluids, particularly 4% dextrose/0.18% saline, should be prescribed especially to children in the post-operative period;

 After surgery, fluid balance should be carefully monitored. Clinicians should en fluid used to replace losses matches the losses;

3. Serum electrolytes should be measured at the start of and regularly during, infinitravenous fluids.

Any queries relating to the above should be made to:

The Royal College of Paediatrics and Child Health 50 Hallam Street LONDON W1N 6DE

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email: enquiries

RF - FAMILY

068B-014-118

website: http://www.rcpch.ac.uk/

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< back