

An Roinn

Sláinte, Seirbhísí Sóisialta agus Sábháilteachta Poiblí

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Chief Executives HSS Trusts

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Tel:

Email: lan.carson

Your Ref: Our Ref:

iwc

Date:

21 April 2006

Dear Colleague

PREVENTION OF HYPONATRAEMIA IN CHILDREN

In March 2002 the Chief Medical Officer issued Guidance on the Prevention of Hyponatraemia in Children. At that time it was recommended that fluid protocols should be developed locally to complement the guidance and provide more specific direction to junior staff.

A Regional Fluid Therapy Working Group established by the Chief Medical Officer and chaired by Dr Jarlath McAloon has now developed an appropriate protocol which I attach for your attention. This Parenteral Fluid Therapy protocol should be disseminated and used in all areas of your Trust in which children may receive intravenous fluids. It can readily be enlarged and/or laminated for display in clinical areas if required.

The National Patient Safety Agency recently established an External Reference Group on Hypotonic Fluids on which Northern Ireland professionals are well represented. The NPSA has issued documents for consultation on reducing the risk of harm when administering intravenous fluids to children. These included a template for intravenous fluid guideline development. It is anticipated that the NPSA will issue final documentation and a safety alert later this year, which will apply to Northern Ireland. Pending the NPSA alert, the attached protocol should be adopted in your Trust. When the NPSA alert and supporting documentation is issued it may need to replace the locally developed protocol and I will advise you accordingly at that time.

I would like to take this opportunity to thank Dr Jarlath McAloon and members of the Regional Fluid Therapy Working Group for developing the attached protocol on Parenteral Fluid Therapy and helping to further reduce the risk of hyponatraemia in children receiving fluids.

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guidance issued by the CMO in 2002 complements the protocol and should continue to be displayed and used in your Trust. It can be accessed on the Department website: www.dhsspsni.gov.uk.

Yours sincerely

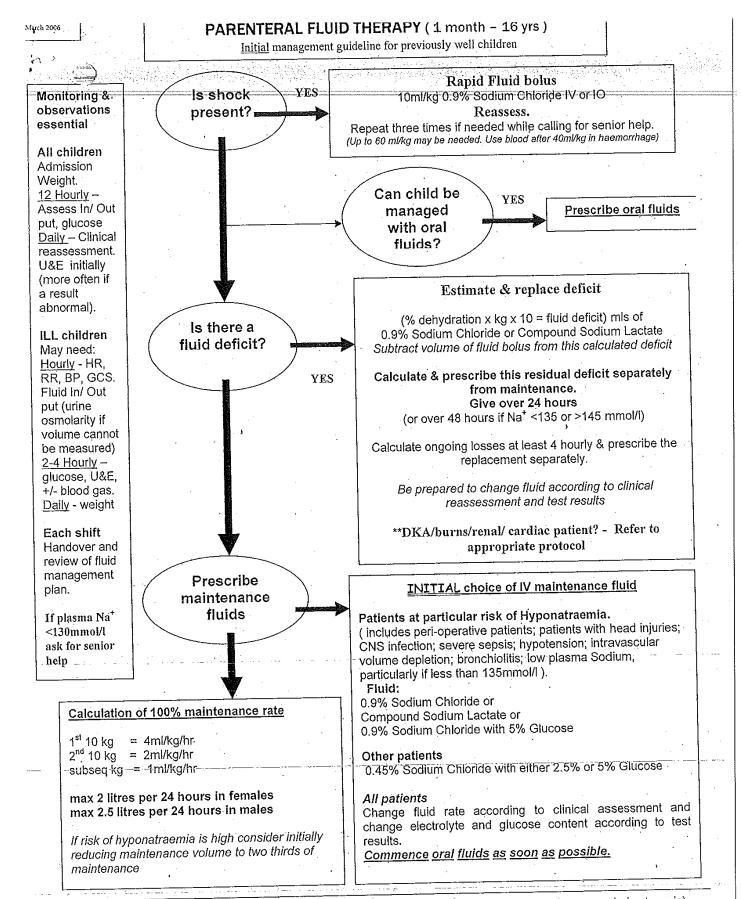
DRIAN CARSON

Acting Chief Medical Officer

cc: Chief Executives HSS Boards
Medical Directors HSS Trusts
Directors of Nursing HSS Trusts
Directors of Pharmacy HSS Trusts

Morking for a Healthier People





IV Maintenance K⁺ normally required after 24 hrs (be aware of potential for K⁺ deficit at presentation e.g. pyloric stenosis). Replace ongoing losses with the same volume of either 0.9% Sodium Chloride or Compound Sodium Lactate.

Oral intake must be considered in the fluid prescription calculation.

Medications: volumes of drug infusions and oral medications must be considered in the fluid prescription.

Hypoglycaemia (<3mmol/l): give 5ml/kg bolus of 10% Glucose. Recheck after 15-30 mins; change maintenance fluid. Symptomatic Hyponatraemia: features include nausea, vomiting, headache, irritability, altered level of consciousness, seizure, apnoea.