

# GASTROENTERITIS: ACUTE MANAGEMENT

## PRACTICE GUIDELINE °

## DOCUMENT SUMMARY/KEY POINTS

### NSW Paediatric Improvement Collaborative (PIC) guideline

### Gastroenteritis

https://www.rch.org.au/clinicalguide/guideline index/Gastroenteritis/

- The above linked document is <u>Paediatric Improvement Collaborative (PIC) guideline</u>.
- The Guideline reflects what is currently regarded as a safe and appropriate approach to the management of acute gastroenteritis in infants and children. This document should be used as a guide, rather than as a complete authoritative statement of procedures to be followed: It does not replace the need for the application of clinical judgement to each individual presentation.

#### Related Information

- SCHN Guidelines:
  - o Between the Flags Clinical Emergency Response System (CERS) Procedure
  - Infection Prevention and Control Isolation and Transmission Based Precautions Guideline
  - Enteral Feeding Tubes and the administration of Enteral Nutrition
  - o Hypoglycaemia Management for Non-Diabetic Patients
  - Intravenous Fluid and Electrolyte Therapy

**SCHN Contact:** Department Head, Emergency Department SCH or CHW.

This document reflects what is currently regarded as safe practice. However, as in any clinical situation, there may be factors which cannot be covered by a single set of guidelines. This document does not replace the need for the application of clinical judgement to each individual presentation.

Approved by:	SCHN Policy, Procedure and Guideline Committee	
Date Effective:	1 <sup>st</sup> May 2024	Review Period: 3 years
Team Leader:	Staff Specialist	Area/Dept: Emergency Dept SCH & CHW

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This Guideline may be varied, withdrawn or replaced at any time.



Page 1 of 5





#### Discharge criteria

- 1. Diagnosis of gastroenteritis
- 2. Child is rehydrated or only mildly dehydrated
- 3. Gastrointestinal losses are not profuse
- 4. Child has passed urine in ED or within the last 4 hours
- 5. Child taking adequate amounts of oral fluid
- 6. Adequate plan for safety netting and follow up
- 7. Gastroenteritis fact sheet given

If a child does not meet these criteria then consider admission under General Paediatrics for ongoing management or if at CHW ED then consider admission to the ED SSU and use of criteria led discharge.





### Appendix 1: Rapid Nasogastric (NG) Rehydration

- Refer to Enteral Feeding Tubes and the administration of Enteral Nutrition for NG insertion
- Oral rehydration solution (ORS) administered via NG can be as effective as IV rehydration.
- Ideally chose an ORS with a sodium concentration of 60mmol/L and appropriate carbohydrate content as this is the optimal concentration. Practically, Gastrolyte<sup>™</sup> is no longer available and Hydralyte<sup>™</sup> will be the main ORS used in the ED.
- Observations: (If abnormal escalate as per normal CERS process)
  - Prior to commencing undertake and document a full set of observations including RR, HR, CRT, BP, temperature, mental state assessment.
  - During administration undertake and document observations hourly (1/24) including RR, HR, CRT and BP
- Taste is not an issue when using an NG tube
- Administer using a Kangaroo pump at 10mL/kg/hr for 4 hours
- Do not use NG rapid rehydration if:
  - The child has an ileus (check for bowel sounds)
  - There is reduced level of consciousness
  - The child is younger than 6 months old
  - There is a medical condition which increases the risk of fluid overload
- Laboratory blood tests are not required for rapid NG rehydration unless there is another clinical indication
- If the child does not tolerate NG rehydration then they will require IV rehydration





### Appendix 2: Rapid Intravenous Rehydration

- Use 0.9% Sodium Chloride + 5% Glucose at 10mL/kg/hr for 4 hours
- Check EUC and BGL (manage hypoglycaemia < 2.6 mmol/L or < 3.0 mmol/L if symptomatic as per <u>Hypoglycaemia Management for Non-Diabetic Patients</u> policy)
- Observations: (If abnormal escalate as per normal CERS process)
  - Prior to commencing undertake and document a full set of observations including RR, HR, CRT, BP, temperature, mental state assessment.
  - During administration undertake and document observations hourly (1/24) including RR, HR, CRT and BP
- IV fluids must not be continued beyond the rapid rate beyond 4 hours
- Commence trial of oral fluids after 2 hours of IV rapid rehydration
- This advice on rapid rehydration only applies to those children with gastroenteritis and use of rapid rehydration in other populations must be discussed with the in charge ED Senior Medical Officer
- Do not use IV rapid rehydration if:
  - The child is younger than 6 months old
  - The child is severely dehydrated (10%) or shocked
  - The child has an altered level of consciousness
  - Serum sodium < 130 mmol/L or > 149 mmol/L





## CHANGE SUMMARY

- Algorithm and links to other guidelines updated.
- Addition of appendix 1 and appendix 2.

## READ ACKNOWLEDGEMENT

• All clinical staff in SCHN Emergency Departments should read and acknowledge they understand the contents of the Guideline.

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