Introduction

Gastroschisis is a congenital abdominal wall defect that allows herniation of abdominal content, most often including the intestines and stomach, outside of the body without a protective sac or layer. Worldwide, the incidence of gastroschisis has risen to approximately 2 to 5 infants per 10,000 live births. In most cases of simple, uncomplicated gastroschisis the outcomes are favorable, with high survival and low morbidity rates. However, standardized management of these infants in the postnatal period is key for several reasons, including: improving management of fluids and electrolytes, ensuring safe reduction of the defect, achieving earlier return of bowel function, and reducing infection risks. Importantly, each of these factors greatly influence the length of hospital stay in the Neonatal Intensive Care Unit (NICU).

This document was developed by an interdisciplinary group of clinician from SickKids to help guide the management of infants with gastroschisis in the NICU. The goal is to allow patients and families to: experience a smoother hospitalization; achieve the best outcomes; and support a timelier transition out of intensive care, an environment that is not conductive to optimal developmental care and parent-child bonding.

The clinical pathway was created, revised and finalized using research knowledge, clinical experience, and consensus agreement of a group of neonatal and surgical clinicians. The pathway is a general guideline and does not represent a professional care standard governing providers’ obligations to parents. Care must always be revised to meet individual patient needs.

Target Population

- Neonates admitted to the Hospital for Sick Children Neonatal Intensive Care Unit (NICU) with a diagnosis of uncomplicated Gastroschisis and a completed Gestation of >35 weeks.
- Neonates born prior to 35+0 weeks Gestational Age or found to have anatomical findings that may influence the care trajectory (i.e. several inflammation/matting or intestinal atresia) should not have their NICU hospitalization guided by this pathway.

Target Users

- Registered Nurses, NP’s, Physicians, Surgeons and Dieticians involved in the care of identified neonates.

Recommendations
# Gastrostomosis (uncomplicated neonates ≥ 35 weeks at birth)

## Goals
- Appropriate airway management
- Prevention of exposed bowel
- Appropriate fluid management
- Application of slit
- Establishment of vital signs and safe work

## Management
- Placement of a nasogastric tube
- Administration of H2 blockers
- Initiation of enteral feeding

## Routine Management
- Postnatal assessment
- Identification of feeding intolerance
- Monitoring of blood pressure and heart rate
- Continuous infusion of medications

## Family Support
- Introduction of a slit
- Administration of breast milk
- Encouragement of skin-to-skin contact

## Implementation of CPG
### Facilitators to implementation
- Targeted LOS to be posted at each neonate’s bedside to remind staff of pathway utilization
- Surgical Nurses Interest Group will act as resources to implement pathway
- Neonatal NP Group will advocate for pathway utilization and remind team to review daily
Organizational barriers to implementation

- Adoption by staff in early stages

Potential economic impact

- Decreased LOS and non-value add days in NICU

Key review criteria/indicators for monitoring and audit purposes

- LOS, non-value add days, patient experience

Related Documents

- Pain Management Guidelines for Post-op Patients in the NICU

References


Guideline Group and Reviewers

Guideline Group Membership:

1. Hazel Pleasants-Terashita, RN(EC), NP NICU/General Surgery
2. Stephanie Bernardo, RN(EC), NP NICU
3. Nicole de Silva, RN(EC), NP NICU/General Surgery
4. Neonatal Surgical Interest Group (NSIG)
5. Fatma A. Rajwani, PT, Quality Management

Internal Reviewers:
1. Christopher Tomlinson, MD, ChB, PhD

Attachments:

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