



## **Gastroschisis Clinical Pathway – Last Updated 6/16/2019**

### **INTRODUCTION:**

The UC Gastroschisis Clinical Pathway was created after completing a retrospective analysis of inborn gastroschisis patients at all five UC medical campuses. The pathway has been updated based on ongoing monitoring and evaluation. The pathway provides suggested guidelines, which are endorsed by the **University of California Fetal Care Consortium** with the goal of standardizing and improving care by reducing the percentage of Cesarean deliveries, ventilator days, antibiotic days, opioid doses, parenteral nutrition days, silo days, exposure to general anesthesia, length of stay, and cost.

### Obstetrical Guidelines

- Routine preterm delivery is not recommended. In otherwise routine pregnancies with fetal gastroschisis and no other maternal or fetal indications for earlier delivery, delivery at 38 weeks is recommended to minimize the risk of perinatal mortality. In pregnancies with fetal gastroschisis that are complicated by fetal growth restriction or suboptimal interval fetal growth, the goal gestational age for delivery is 37 weeks (although earlier delivery may become indicated).
- Vaginal delivery is recommended with Cesarean section reserved for obstetrical indications.

### Surgical Guidelines

- Attempt at bedside silo-placement and closure without intubation or anesthesia is encouraged when feasible (note: a narrow fascial defect requiring lateral extension does not prohibit this approach).
- For bedside silo-placement / closure, recommend placing peripheral IV, pulse oximeter, nasal cannula (in case supplemental oxygen is required), and an orogastric tube (which should be suctioned manually during reduction of bowel).
- If silo is utilized, closure within 3 days is recommended when feasible.
- Recommend gastric and rectal decompression as strategies to facilitate reduction.

### Ventilator Guidelines

- Routine intubation and paralysis are not recommended for silo placement or bedside reduction.

### Antibiotic Guidelines

- Ampicillin and gentamicin are recommended as primary choice for prophylaxis.
- Discontinue antibiotics  $\leq 48$  hours after abdominal closure in the absence of culture-positive sepsis or clinical instability.

### Pain Management Guidelines

- Recommend oral sucrose water for bedside silo-placement, reduction, and closure.
- Recommend use of non-opioid medications to control pain.
- If opioids are administered during bedside silo placement or skin closure, limit to a single dose when feasible to help prevent apnea and intubation.
- If opioids are utilized, discontinue  $\leq 48$  hours after abdominal closure.

### Central Venous Access Guidelines

- Peripherally-inserted (PICC) venous access is preferred over central-insertion of tunneled central venous catheters.
- Discontinue central venous catheters as soon as 100kcal/kg/day of enteral feeds (or ad lib oral feeds) are achieved.

### Feeding Guidelines

- Encourage oral-care protocol with colostrum (or breast milk) at least four times daily.
- Initiate feeds  $\leq 48$  hours after gastric output becomes non-bilious.
- Use mother's own breast milk if available (do not recommend Pedialyte®).
- Advance feeding volume by  $\geq 20$ cc/kg/day as tolerated.

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