

DRUG INFORMATION RESOURCE

The table below has been developed to assist clinicians in considering treatment alternatives for discussion with patients/families (specifically neonatal/pediatric and pregnant patients). These options are based on gastroesophageal reflux (GERD) as the primary indication. <u>We have only</u> provided dosing for the medications currently used within IWK.

Clinicians should consider each patient situation individually and determine appropriate alternative treatment.

These recommendations are meant to act as guidance only and management will vary on a patient by patient basis.

Options for consideration for GERD management with resources/tools 1st line Deprescribe or discontinue +/- incorporation of non-pharmacologic strategies below Suggest non-pharmacological strategies Information on non-pharmacologic approaches: About Kids Health : Gastroesophageal Reflux HealthLink BC: Gastroesophageal Reflux Disease During Pregnancy 2nd line Suggest alternative pharmacological options TUMS likely only a viable option for older children who can chew In pregnant patients: **Antacids/Foaming Barriers** TUMS (max 3.2 grams per day or 16 regular strength TUMS tablets) • Calcium carbonate chewable tablets (TUMS or TUMS dosing depends on product used equivalent) https://www.tums.com/antacid-products/ -"Regular Strength" (200 mg elemental calcium) Antacids containing Mg²⁺, Ca²⁺, and Al²⁺ or alginic acid are safe and -"Ultra Strength" (400 mg elemental calcium) effective Aluminum/Magnesium Hydroxide Oral Suspension Almagel Adult Dosing: 30mL (regular strength) PO PRN after meals (Almagel or other related brands) Gaviscon dosing depends on product used Sodium Alginate/ Aluminum Hydroxide (Gaviscon) https://www.gaviscon.ca/products Avoid antacids containing sodium bicarbonate because they may cause metabolic alkalosis and fluid overload in mother and fetus Ranitidine Famotidine Alternative H₂ Blockers 150 mg ranitidine is equivalent to 20 mg famotidine Famotidine • oral 10 and 20 mg strength (non-prescription) IWK GERD PO dosing: Suggested equivalent GERD PO dosing: Famotidine is associated with QT interval prolongation, Neonates: *Neonates: caution with other drugs or conditions associated with 2 to 6 mg/kg/24hr PO divided 0.25 to 0.5 mg/kg/dose PO once daily QT interval prolongation. q8-12h *Pediatrics: *Note: 0.5 to 1 mg/kg/dose PO divided q12-24h Pediatrics: IWK does not currently have a liquid/suspension master 5 to 10 mg/kg/24hr PO divided Max: 40 mg/24h compounding formula for famotidine developed. If the q8-12h (max: 300 mg/24h) age of the patient and dose is conducive to a chewable Pregnant patients: Pregnant patients: tablet, this would be an appropriate option as opposed to a liquid/suspension. Otherwise, depending on the Usual adult dosing Usual adult dosing dosage patients may crush tablets or portions of to administer with food if feasible. Pregnant patients-C-section Pregnant patients-C-section (aspiration For very young children, given the dosing and dose forms (aspiration prophylaxis): prophylaxis): available they may need to consider alternative oral 150 mg PO night before and 2 hours PO: 20 mg PO night before and 2 hours before surgery agents (e.g. lansoprazole) before surgery IV: 20 mg as a single dose ~40 to 60 Cimetidine minutes prior to induction of anesthesia • oral 200, 300, 400, 600 and 800 mg strength (prescription) Safe and effective in pregnancy Potential for many drug-drug interactions • May also see this used for patients undergoing Csections (dosing: 400mg PO night before and 400mg PO 2 hours before surgery) Nizatidine • oral 150 and 300 mg strength (prescription)

• Most expensive H₂ Blocker



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Options for consideration for GERD management with resources/tools	
Proton Pump Inhibitors (PPIs) Lansoprazole • <u>oral</u> 15 and 30 mg strength (FastTabs or caps), <u>3mg/mL suspension (prescription)</u> • Safe and effective in pregnancy	Lansoprazole IWK GERD PO dosing: <u>Neonates</u> : 0.5 - 1.66 mg/kg/24hr PO once daily or divided BID
 Dexlansoprazole <u>oral</u> 30 and 60 mg strength (prescription) Expensive Safe and effective in pregnancy Pantoprazole <u>oral</u> 20 and 40 mg strength (prescription) Safe and effective in pregnancy Omeprazole <u>oral</u> 20 mg strength (prescription) Safe and effective in pregnancy (may have the most evidence for safety) Esomeprazole <u>oral</u> 20 and 40 mg strength (prescription) Safe and effective in pregnancy (may have the most evidence for safety) Esomeprazole <u>oral</u> 20 and 40 mg strength (prescription) 14 days supply of 20mg strength available OTC Safe and effective in pregnancy Rabeprazole <u>oral</u> 10 and 20 mg strength (prescription) Safe and effective in pregnancy 	Pediatrics: Infants greater than 28 days – less than 1 year: 1-2 mg/kg/24 hours PO once daily or divided BID Children 1 – 11 years: 30kg or less: 15mg/dose PO daily over 30kg: 30mg/dose PO daily Some patients may need to increased doses (up to 30mg PO BID) if still symptomatic Max: 3mg/kg/24hr or 60mg/day, whichever is less Children 12 years and older and Adults: 15-30mg/dose PO once daily <u>Pregnant patients:</u> Lansoprazole at usual adult dosing see product monographs for dosing of other PPIs
Other agents (e.g. prokinetics) Domperidone	Domperidone <i>IWK GERD PO dosing:</i> <u>Neonates:</u> 0.1-0.3 mg/kg/dose PO q6-8 hours 15-30 minutes pre feeds <u>Pediatrics:</u> Infants older than 1 month and Children: 0.4-0.8 mg/kg/dose PO TID or 0.3-0.6 mg/kg/dose PO QID Max: 30mg/24hr Older children and Adolescents: 10 mg/dose PO TID