

Hypertrophic Pyloric Stenosis Care Pathway

Version: 2

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1.0 Introduction

1.1 Target Population:

- This pathway is for use with children aged 2-8 weeks old with no underlying disease or comorbidity who have been diagnosed with hypertrophic pyloric stenosis by the General Surgery Team who require open or laparoscopic pyloromyotomy.
- Patients are to be removed from this pathway if there are significant postoperative complications for example bowel obstruction or prolonged TPN; or a change in diagnosis.

1.2 Target users:

- Surgeons, medical trainees (residents and fellows), Nurse Practitioners, and bedside nurses.

2.0 Guideline

Hypertrophic Pyloric Stenosis Care Pathway

Expected Date of Discharge:

	PRE-OPERATIVE	RECOVERY	DISCHARGE
GOALS	<ol style="list-style-type: none"> 1. Hydration maintained 2. Electrolyte correction 3. Patient prepared for OR 4. Child and family to complete pre-op bath (wipes provided upon arrival); Refer to procedure document 	<ol style="list-style-type: none"> 1. Afebrile with vital signs stable 2. Adequate pain control 3. Begin feeding as tolerated 4. Incision intact and no drainage 	<ol style="list-style-type: none"> 1. Afebrile 2. Adequate pain control 3. Ambulating 4. Able to tolerate diet 5. Incision dry and intact 6. Child/ caregiver teaching completed 7. Family understands discharge teaching
PHYSICAL EXAM	<ul style="list-style-type: none"> • Obtain history • Complete physical exam • Obtain weight and height • Assess vital signs • Complete pain assessment (refer to Pain Assessment Guidelines) • Obtain in and out 	<ul style="list-style-type: none"> • Complete pain assessment every 4 hours • Ensure child has adequate pain control (refer to Pain Management Guidelines) • Monitor vital signs as per BPews • Obtain accurate in and out • Complete wound assessment • Obtain daily weights • Remove surgical dressing and leave steristrips 	
DIET & IV FLUIDS	<ul style="list-style-type: none"> • Ensure NPO • Set NG tube to low intermittent suction • Administer D5W/0.9 NaCl with 20mmol KCL/L at maintenance • Bolus as indicated • Refer to Fluid and Electrolyte Guidelines 	<ul style="list-style-type: none"> • Administer D5W/0.9 NaCl with 20mmol KCL/L at maintenance until adequate fluid intake • Bolus as indicated • Refer to Fluid and Electrolyte Guidelines • Initiate feeds 2 hours post-op or when child is alert (full strength formula or breast milk); obtain pre-post weight; ideal volume feed based on 150 mL/Kg/day • If child tolerating feeds, continue towards goal of ideal volume feed (breast feed or formula every 3 hours); and continue until discharge • If child <u>not</u> tolerating feeds (if vomit ≥25% of ideal feed volume), wait 1 hour and repeat • Refer to feeding algorithm 	
LABS & MEDICATION	<ul style="list-style-type: none"> • Complete CBC and differential • Order electrolytes (K⁺, Cl⁻, Na⁺, VBG, urea, creatinine) 	<ul style="list-style-type: none"> • Complete labs as indicated • Ensure adequate pain control • If pain/fever, administer Acetaminophen as indicated • If signs of wound infection, assess need for antibiotics (refer to r-formulary) 	<ul style="list-style-type: none"> • Provide prescription for oral antibiotics if indicated
EDUCATION	<ul style="list-style-type: none"> • Provide caregiver education i.e. diagnosis is not a surgical emergency and that child may have to wait for surgery; and review pre-operative process • Review and obtain informed consent for surgery 	<ul style="list-style-type: none"> • Review incision care: leave steristrips in until they fall off or remove after 10 days; and gently wash incision with soap and water • Review signs and symptoms of wound infection: fever, redness around incision. Drainage from incision, and increasing pain around incision • Review bathing i.e. may bathe 48 hours after surgery 	<ul style="list-style-type: none"> • Review when to call surgeon's office: wound infection, increase in vomiting from baseline, and fever

Printable versions of:

[Hypertrophic Pyloric Stenosis Pathway](#)
[Post-op Feeding Algorithm](#)

3.0 References

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4.0 Guideline Group and Reviewers

Guideline Group Membership

1. Monping Chiang, NP General Surgery
2. Dina Prajapati, NP General Surgery
3. Anna Polanski, NP General Surgery
4. Julia Smallman, NP General Surgery
5. Irina Pashynskyy, NP General Surgery

Internal Reviewers

1. Jacob Langer MD

Attachments:

[py stenosis final 2019.pdf](#)

[Pyloric Stenosis Post-op Feeding Algorithm.pdf](#)