1.0 Introduction

This pathway was developed by an interdisciplinary clinical group from SickKids using research knowledge, clinical experience and consensus agreement. A literature search was completed using OVID (2004-2016) using key words: cholecystectomy & children. This pathway is a general guideline and does not represent a professional care standard governing providers' obligations to patients. Care is revised to meet individual patient needs.

Level of Recommendation

- Level C: Expert Opinion (refer to Appendix A for grades of recommendation)

Target Population

- Children aged 2-18 years old who have undergone a laparoscopic cholecystectomy by the General Surgery Team;
- Patients are to be removed from this pathway if there are significant underlying disease, significant postoperative complications (e.g. bowel obstruction or prolonged TPN) or a change in diagnosis; and
- If a patient has Sickle Cell Disease please consult hematology for guidance on fluids, oxygen, and pain management. These patients are pre-admitted the day before surgery*

Target Users

- Surgeons, residents, fellow and nurses on ward.
2.0 Clinical Pathway

<table>
<thead>
<tr>
<th>LAPAROSCOPIC CHOLECYSTECTOMY CARE PATHWAY</th>
<th>EXPECTED DATE OF DISCHARGE: 24 HOURS FOLLOWING SURGERY</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMMEDIATELY POST OPERATIVELY</td>
<td>OUT OF SURGERY</td>
</tr>
<tr>
<td>Medication</td>
<td>Lab</td>
</tr>
<tr>
<td>Acetaminophen as indicated</td>
<td>Hemoglobin, WBC, platelets</td>
</tr>
<tr>
<td>Ketorolac</td>
<td></td>
</tr>
<tr>
<td>As clinically indicated</td>
<td></td>
</tr>
<tr>
<td>As clinically indicated</td>
<td></td>
</tr>
</tbody>
</table>

**Guidelines**
- Monitor vital signs
- Complete physical exam
- Incision intact
- Incision dry and intact
- Review signs and symptoms of wound infection
- Review bath
- Review signs and symptoms of urinary infection

**Pathway**
- Complete surgical dressing
- Chair
- Out of bed to chair
- Ambulating in hallway
- X 5

**Activity**
- Consent for surgery
- Pre-op procedures for patient and family
- Review skin care
- Review use for pain management
- Review need for parental involvement

**Education**
- Review education
- Review signs and symptoms of wound infection
- Review signs and symptoms of urinary infection

Printable Version of Clinical Pathway

3.0 Related Documents

- Care of Patients Receiving Continuous Infusion of Opioids
- Care of Patients Receiving Patient Controlled Analgesia
- SickKids Formulary
- Fluid & Electrolyte Administration in Children

4.0 References


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Laparoscopic Cholecystectomy Care Pathway


5.0 Guideline Group and Reviewers

Guideline Group Membership

1. Kimberly Colapinto RN (EC), MN, NP General Surgery
2. Monping Chiang RN (EC), MN, FNP, NP General Surgery
3. Hanh Nguyen-Lee, RN General Surgery
4. Bela Dharia RN (EC), MN, NP General Surgery
5. Fatma A. Rajwani, PT, Quality Management

Internal Reviewers

1. Jacob Langer MD Pediatric Surgeon

External Reviewer

1. Sharifa Himidan MD Pediatric Surgeon, North York General Hospital

6.0 Implementation Plan

- Education and awareness building by General Surgery Program (Surgeons, NPs, fellows, nurse educator) at: fellow orientation (once per year) nursing orientation (every 3 months), and residents orientation (every month).
- Surgeons to communicate any updates in practice to Division of General Surgery.

7.0 Evaluation Plan

- Abdominothoracic Approach order set utilization
- Length of stay (LOS)
- Correlation between LOS and order set utilization

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Appendix A

Grades of Recommendation

<table>
<thead>
<tr>
<th>Letter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Recommendation supported by at least one randomized controlled trial, systematic review or meta-analysis.</td>
</tr>
<tr>
<td>B</td>
<td>Recommendation supported by at least one cohort comparison, case study or other experimental study.</td>
</tr>
<tr>
<td>C</td>
<td>Recommendation supported by expert opinion or experience of a consensus panel.</td>
</tr>
</tbody>
</table>

Attachments:

[Lap Chole Pathway_February 2017.pdf]