

**Appendix 1** to Mohtashami S, Safa N, Guadagno E, et al. Derivation of a complication burden score based on disability-adjusted life years to assess patient burden following surgery: a pilot study. *Can J Surg* 2020.

DOI: 10.1503/cjs.004819

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**Table 1: Definition of the health states used to derive disability weights (DWs) [19]**

Inguinal hernia	Mild symptomatic inguinal, femora and abdominal hernia
Wound infection	Abscess and other bacterial skin disease
Infertility	Primary male infertility
Nausea &/or vomiting	Chronic abdominal pain due to congenital malformations of the abdominal wall-patient has some pain in the belly that causes nausea but does not interfere with daily activities.
Sepsis	Severe infection due to neonatal sepsis and other neonatal condition, acute episode, severe
Small bowel obstruction	Paralytic ileus and intestinal obstruction-abdominopelvic problem
Anemia	Moderate anemia due to gastritis and duodenitis

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## *Pediatric Inguinal Hernia PostOp Complications*

### Contact Information

Dr. Poenaru & Sadaf Mohtashami

### Databases Searched

#### **Medline [Ovid] (May 15, 2018)**

Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily <1946 to Present>

1	Hernia, Inguinal/	12895
2	exp hernia/ or (herni* or enteroce?l*).tw,kf.	96459
3	Herniorrhaphy/	6851
4	(hernioplast* or hernio-plast* or herniorrhaph* or herniotom*).tw,kf.	4330
5	Inguinal Canal/ or inguin*.tw,kf.	28267
6	(2 or 3 or 4) and 5	13900
7	1 or 6	16885
8	exp pediatrics/ or adolescent/ or exp child/ or exp infant/	3309928
9	(newborn* or new-born* or neonat* or neo-nat* or infan* or child* or adolesc* or paediatr* or pediatr* or baby* or babies* or toddler* or kid or kids or boy* or girl* or juvenile* or teen* or youth* or pubescen* or preadolesc* or prepubesc* or preteen or tween).tw,kf.	2233559
10	(pediatr* or paediatr*).jw.	525415
11	8 or 9 or 10	4022940
12	7 and 11	5300
13	Animals/ not (Animals/ and Humans/)	4426113
14	((animal or animals or canine* or cat or cats or dog or dogs or feline or hamster* or mice or monkey or monkeys or mouse or murine or pig or pigs or piglet* or porcine or primate* or rabbit* or rats or rat or rodent* or sheep*) not (human* or patient*)).ti,kf.	2010801
15	12 not (13 or 14)	5267
16	limit 12 to (english or french)	4341
17	limit 16 to yr="2008 -Current"	1667
18	remove duplicates from 17	1659
19	exp Postoperative Complications/	493383

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20	((postop* or post-op* or ((post or after or following) adj3 (surger* or surgic* or procedure* or operat* or repair* or laparoscop* or laparotom* or resect* or sutureless*))) adj5 (complicat* or problem* or pain* or chronic* or injury or injuries or vomit* or emes?s or nausea* or readmission* or re-admission* or ((length or duration) adj1 stay*))).tw,kf.	162676
21	exp Recurrence/	169967
22	(recur* or relaps* or recrud* or reoccur*).tw,kf.	655734
23	Patient Readmission/	13143
24	or/19-23	1254984
25	18 and 24	708
26	Postoperative Care/	56550
27	exp Postoperative Period/	48707
28	(postop* or post-op* or ((post or after or following) adj3 (surger* or surgic* or procedure* or operat* or repair* or laparoscop* or laparotom* or resect* or sutureless*))).tw,kf.	877385
29	26 or 27 or 28	918749
30	18 and 29	664
31	(ae or co).fs.	3213366
32	exp treatment outcome/	870330
33	(outcome* or safe or safety or side effect* or undesirable effect* or treatment emergent or tolerabilit* or toxic* or adrs or (adverse adj2 (effect? or reaction? or event?))).tw,kf.	2761281
34	Vas Deferens/	8082
35	exp Infertility/	61200
36	Testicular Hydrocele/	1733
37	exp Wound Healing/	114406
38	exp Abscess/	53807
39	exp Respiratory Tract Diseases/	1240210
40	exp testicular diseases/	37092
41	Testis/ and Atrophy/	899
42	exp Wound Infection/	43270
43	exp pain/	358221
44	Ecchymosis/	1221
45	Scrotum/ and Edema/	273
46	(abscess* or pain* or cryptorchis* or orchitides or orchitis or hydrocele* or infertil* or scar or scars or scarring or cicatrix* or SSI or edema* or anasarca or dropsy or hydrops or stitch granuloma* or ecchymos?s* or (testis* adj2 (iatr?gen* or ascent* atroph* or trap*)) or	1131195

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	((vas def* or bladder* or sperm* vessel*) adj2 (injury or injuries)) or (((wound* or surgic* site) adj2 infect*) or heal? or healing) or (respirator* adj2 (distress* or infect* or problem* or complicat*)) or ((umbilical or two) adj2 port?)).tw,kf.	
47	Length of Stay/ and (31 or 33)	45096
48	or/31-47	7126844
49	30 and 48	593
50	25 or 49	832
51	limit 50 to case reports	59
52	50 not 51	773

## Additional Details

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### Limits

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- 2008-current
- Exclude Animals
- Pediatrics
- Exclude case reports, where possible

## Legend for Databases

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Legends for Medline (Ovid), Embase (Ovid) & CINAHL (Ebsco) are available on our website:  
[http://www.muhclibraries.ca/Documents/Database\\_Legends.pdf](http://www.muhclibraries.ca/Documents/Database_Legends.pdf)

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## Pediatric Intestinal Atresia & PostOp Complications

### Contact Information

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### Databases Searched

#### Medline [Ovid] (August 17, 2018)

Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily <1946 to Present>

1	Intestinal Atresia/	20
2	((((intestin* or jejun*) adj3 (atres* or atroph*)) or (apple adj1 peel adj2 (atres* or syndrom* or disorder))).tw,kf.	31
3	1 or 2	43
4	exp pediatrics/ or adolescent/ or exp child/ or exp infant/	33363
5	(newborn* or new-born* or neonat* or neo-nat* or infan* or child* or adolesc* or paediatr* or pediater* or baby* or babies* or toddler* or kid or kids or boy* or girl* or juvenile* or teen* or youth* or pubescen* or preadolesc* or prepubesc* or preteen or tween).tw,kf.	22590
6	(pediatr* or paediatr*).jw.	5298
7	4 or 5 or 6	40599
8	3 and 7	25
9	Animals/ not (Animals/ and Humans/)	44554
10	((animal or animals or canine* or cat or cats or dog or dogs or feline or hamster* or mice or monkey or monkeys or mouse or murine or pig or pigs or piglet* or porcine or primate* or rabbit* or rats or rat or rodent* or sheep*) not (human* or patient*)).ti,kf.	20229
11	8 not (9 or 10)	24
12	limit 8 to (english or french)	20
13	limit 12 to yr="2008 -Current"	6
14	remove duplicates from 13	6
15	exp Postoperative Complications/	4995
16	((postop* or post-op* or ((post or after or following) adj3 (surger* or surgic* or procedure* or operat* or repair* or laparoscop* or laparotom* or resect* or sutureless*))) adj5 (complicat* or problem* or pain* or chronic* or injury or injuries or vomit* or emes?s or nausea* or readmission* or re-admission* or ((length or duration) adj1 stay*))).tw,kf.	1656
17	exp Recurrence/	1715
18	(recur* or relaps* or recrud* or reoccur*).tw,kf.	6650
19	Patient Readmission/	135
20	or/15-19	12717

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21	14 and 20	12
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**Box S1.** Calculation of the total DALY-based complication burden score for each postoperative complication

$$\sum_{i=1}^n \text{DALY}_i = (\text{DW}_1 \times \text{I}_1 \times \text{D}_1) + \dots + (\text{DW}_n \times \text{I}_n \times \text{D}_n)$$

Where DW = disability weight and I = incident rate of complication