

Children’s Surgical Services: Setting the Stage for Tiers Development

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HOW TO CITE THE CHILDREN’S SURGICAL SERVICES:

We encourage you to share these documents with others and we welcome their use as a reference. Please cite each document in the module in keeping with the citation on the table of contents of each of the three documents. If referencing the full module, please cite as:

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Children's Surgical Services: Setting the Stage for Tiers Development

The Children's Surgical Tiers of Service module is made up of three components:

1. Documents that provide context and were developed to inform the Surgical Tiers module
 - a. *Children's Surgical Services: Setting the Stage for Tiers Development (this document)*
 - b. Summary of the Evidence Volume-Outcome Relationship in Pediatric Surgery¹
2. Children's Surgical Services: Tiers in Brief to Support System Planning (high-level description of the tiers, including responsibilities and requirements)
3. Children's Surgical Services: Tiers in Full to Support Operational Planning (detailed description of the responsibilities and requirements at each tier)

1.0 Providers of Children's Surgical Services

Children's surgical services are provided by surgical and anesthesia providers in partnership with nurses, allied health and other members of the health care team.

In BC, surgical and anesthesia providers have one of the following types of qualifications:

1. Royal College of Physicians and Surgeons of Canada (RCPSC)-certified (see Table 1).
 - a) Adult surgery specialists and anesthesiologists:
 - Surgeons and anesthesiologists who have completed a post-graduate specialty residency program and the relevant RCPSC examination. Residencies are usually five years.
 - Surgical and anesthesiology residency programs include a pediatric component.
 - b) Pediatric surgery and anesthesiology specialists:
 - Specialty-trained surgeons and anesthesiologists who have completed additional training in pediatrics.
 - In Canada, pediatric general surgery is the only pediatric surgical subspecialty recognized by the RCPSC. Pediatric general surgery requires completion of a two-year residency program and the RCPSC examination.
 - Pediatric training for other surgical specialties and for anesthesiology occurs through fellowships which range from one to four years in length. No subspecialty RCPSC examination is required.
2. Family practice physicians with specialty training
 - a) Family practice physicians with enhanced surgical skills:
 - Family practice physicians who have completed a College of Family Physicians of Canada (CFPC) approved one-year training program in enhanced surgical skills or equivalent training in a program outside of Canada acceptable to the College of Physicians and Surgeons of BC (CPSBC) and the governing body of the HA.²

- In 2011, 40 family practice physicians with enhanced surgical skills were practicing in BC; about two-thirds of these were trained outside of Canada.³ These surgeons were distributed across 11 communities in BC.⁴

b) Family practice anesthesia providers:

- Family practice physicians who have completed a CFPC accredited one-year training program in family practice anesthesia or equivalent training in a program outside of Canada acceptable to the CPSBC and the governing body of the HA. Training program should have included specific training in pediatric, obstetrical and adult anesthesia.⁵
- In 2011, 500 – 700 GP-anesthetists were practicing in Canada, mostly in Ontario, the West and the North.⁶ Specific numbers of GP anesthetists in BC were not available.

Table 1: BC RCPSC-Certified Anesthesiology & Surgical Specialists

Surgical Specialty	Pediatric Surgery & Anesthesiology Specialists		Adult Surgery & Anesthesiologists Specialists (see note below)
	BC Children's (Active Members only)	Elsewhere in BC	
Anesthesia	24	3 (Victoria)	484
Cardiothoracic Surgery	2	0	51
Dental	44	8+ (Victoria), 2 (Kelowna)	Unknown
General/Vascular	5	2 (Victoria)	289
Neurosurgery	5	0	47
Ophthalmology	13	1 (Victoria)	199
Orthopedic	7	5 (Kelowna, Surrey, Victoria x2 & Prince George)	234
Otolaryngology	6	2 (Surrey & Victoria)	91
Plastics	6	1 (Victoria)	95
Urology	3	1 (Kelowna)	97
Total, excl Obs/Gyne	115	25+	1,587 + dentists
Obstetrics/Gynecology	4 Gyne (BCCH)	1 Gyne (Victoria)	259
Total, incl Obs/Gyne	119	26+	1,846 + dentists

Sources:

1. Adult surgery specialists & anesthesiologists: Canadian Medical Association Masterfile, January 2014.
2. Pediatric surgery & anesthesiology specialists: Information provided by Children's Surgical Tiers of Service Working Group.

Definitions:

1. Adult surgery & anesthesiology specialist: Physician certified by the RCPSC in surgical specialty or anesthesiology. Training includes a pediatric component.
2. Pediatric surgery & anesthesiology specialist: Physician certified by the RCPSC in surgical specialty or anesthesiology. Has completed a pediatric fellowship in the relevant specialty. Practice may be mixed adults and children or exclusively with children.

Note: Many adult surgery and adult anesthesiology specialists do not perform surgery/provide anesthesia on children.

2.0 Utilization of Surgical Services by Children

2.1 About the Data

Highlights of the data used to inform the development of this module are provided in this section. Detailed data and a visual representation (map) are available in Appendices 1 - 5.

Data is provided for inpatient (including babies in NICU) and day care service utilization. Unfortunately no comparable provincial-level data exists for hospital outpatient or community-based services.

Data is for 2014/15 and children ages 0 - 16.9 years. Surgical procedures were assigned to the surgical specialty of the procedural physician. For example, if a general surgeon performed a thoracic procedure, the procedure was assigned to general surgery (not thoracic surgery).

2.2 Inpatient and Day Care Visits/Procedures

In 2014/15, 40,771 visits (112 per day, including NICU visits) were made by children to a BC hospital for medical/surgical reasons (19,527 medical and 21,244 surgical visits for a 48%/52% split, based on the most responsible physician (MRP). Of these, 23,659 (65 per day or 58% of total visits) were inpatient visits (78% medical and 22% surgical visits).

27,163 procedures were performed during the 40,771 visits in 2014/15. Of these, 22,613 (83%) were performed by surgeons.

Of the 22,613 procedures performed by surgeons (refer to Tables 2 - 5 for details):

- 16,069 (71%) were performed on a surgical day care basis and 6,544 (29%) on inpatients.
- The highest number were otolaryngology (21% of total visits), followed by dental (21%), orthopedic (15%) and general surgery (12%).
- 10,213 (45% of the total provincial procedures) were performed at Children's & Women's (C&W), 3,808 (17%) in Island Health, 2,994 (13%) in FH, 3,054 (14%) in IH, 1,679 (7%) in NHA and 865 (4%) in VCH.
- The highest number were performed on children living in FHA (36% of the total provincial procedures), followed by children living in Island Health (20% of total procedures) and IH (18% of total procedures). On a per capita basis, the number was lower in FHA/VCH (52% of the total surgical visits vs 63% of the population) than in the other HAs.
- 66% were performed in a hospital in the HA in which the child was residing.
 - Children living in VCH and VIHA were the most likely to access services in their home HA (95% in VCH and 86% in VIHA). Children living in FHA were the least likely (36%).
 - Children requiring otolaryngology services were the most likely to access services in their home HA (84%), followed by gynecology (81%), orthopedic surgery (74%), oral surgery (74%), dentistry (71%) and general surgery (67%).

- Services that children were most likely to travel to another HA to receive were cardiac surgery (76% travelled to another HA) and neurosurgery (73% travelled).
- Expectedly, C&W served the highest percentage of children from another HA (74%). Percentages for other HAs ranged from 2% (Island Health) to 29% (VCH).

Table 2: Surgical Procedures, Children Ages 0 – 16.9 Yrs, by Surgical Specialty (CIHI, 2014/15)

Procedure MD	Procedures			% Total Procedures	% SDC/Total Procedures	C&W	% C&W/Total Procedures
	Inpatient	Day Surgery	Total				
Anaesthesiology	27	38	65	0%	58%	44	0%
Cardiac/Thoracic Surgery	391	10	401	2%	2%	388	4%
Dentistry	33	4,810	4,843	21%	99%	2,154	21%
General Surgery	1,634	1,134	2,768	12%	41%	1,263	12%
Gynaecology	51	115	166	1%	69%	30	0%
Neurosurgery	237	15	252	1%	6%	243	2%
Ophthalmology	49	1,083	1,132	5%	96%	867	8%
Oral Surgery	87	337	424	2%	79%	116	1%
Orthopaedic Surgery	1,464	1,845	3,309	15%	56%	1,030	10%
Otolaryngology	1,117	3,730	4,847	21%	77%	969	9%
Plastic Surgery	294	796	1,090	5%	73%	537	5%
Radiology	964	1,014	1,978	9%	51%	1,794	18%
Urology	196	1,142	1,338	6%	85%	778	8%
Total Procedures	6,544	16,069	22,613	100%	71%	10,213	100%

Table 3: Surgical Procedures, Children Ages 0 – 16.9 Yrs, by Surgical Specialty & HA of Treating Hospital (CIHI, 2014/15)

Procedure MD	HA of Treating Hospital						Total, excl C&W	C&W	Total, incl C&W	% Total Visits
	Interior	Fraser	Van Coastal	Van Island	Northern					
Anaesthesiology	3	3	4	4	7	21	44	65	0%	
Cardiac/Thoracic Surgery	3	5	5			13	388	401	2%	
Dentistry	693	235	57	991	713	2,689	2,154	4,843	21%	
General Surgery	272	315	137	575	206	1,505	1,263	2,768	12%	
Gynaecology	45	20	17	26	28	136	30	166	1%	
Neurosurgery	4	1	3	1		9	243	252	1%	
Ophthalmology	55	23	35	134	18	265	867	1,132	5%	
Oral Surgery	13	142	23	104	26	308	116	424	2%	
Orthopaedic Surgery	560	642	261	544	272	2,279	1,030	3,309	15%	
Otolaryngology	1,050	1,312	198	996	322	3,878	969	4,847	21%	
Plastic Surgery	154	120	43	202	34	553	537	1,090	5%	
Radiology	52	16	30	71	15	184	1,794	1,978	9%	
Urology	150	160	52	160	38	560	778	1,338	6%	
Total Procedures	3,054	2,994	865	3,808	1,679	12,400	10,213	22,613	100%	
% Total Procedures	14%	13%	4%	17%	7%	55%	45%	100%		

Note: Surgical procedures were assigned to the surgical specialty of the procedural physician. For example, if a general surgeon performed a thoracic procedure, the procedure would be assigned to general surgery (not thoracic surgery).

Table 4: Surgical Procedures, Children Ages 0 – 16.9 Yrs, by Surgical Specialty & HA of Child’s Home Residence (CIHI, 2014/15)

Procedure MD	Child's Home Residence						Other	Total, incl Other
	Interior	Fraser	Van Coastal	Van Island	Northern	Total, excl Other		
Anaesthesiology	5	27	16	7	8	63	2	65
Cardiac/Thoracic Surgery	43	138	75	51	34	341	60	401
Dentistry	755	1,316	496	1,028	694	4,289	554	4,843
General Surgery	388	906	513	645	267	2,719	49	2,768
Gynaecology	48	45	19	25	28	165	1	166
Neurosurgery	40	93	61	31	20	245	7	252
Ophthalmology	120	514	240	187	48	1,109	23	1,132
Oral Surgery	22	198	60	106	35	421	3	424
Orthopaedic Surgery	619	1,156	522	604	326	3,227	82	3,309
Otolaryngology	1,133	1,678	595	1,044	372	4,822	25	4,847
Plastic Surgery	201	384	182	223	78	1,068	22	1,090
Radiology	321	843	431	220	125	1,940	38	1,978
Urology	216	550	272	203	83	1,324	14	1,338
Total Procedures	3,911	7,848	3,482	4,374	2,118	21,733	880	22,613
% Total Procedures	18%	36%	16%	20%	10%	100%		
Pop'n, 0 – 16.9 Yrs	115,792	329,166	165,236	116,317	58,442	784,953		
% Pop'n, 0 - 16.9 Yrs	15%	42%	21%	15%	7%	100%		

Table 5: % Surgical Procedures in Home HA for Children Ages 0 - 16.9 Yrs (CIHI, 2014/15)

Procedure MD	Child's Home Residence					
	IHA	FHA	VCH (see note below)	VIHA	NHA	Prov Avg
Anaesthesiology	60%	4%	94%	57%	88%	48%
Cardiac/Thoracic Surgery	7%	4%	100%	0%	0%	24%
Dentistry	91%	17%	97%	96%	96%	71%
General Surgery	65%	34%	98%	87%	76%	67%
Gynaecology	92%	42%	100%	100%	96%	81%
Neurosurgery	10%	1%	100%	3%	0%	27%
Ophthalmology	46%	4%	100%	71%	38%	42%
Oral Surgery	59%	63%	80%	95%	74%	74%
Orthopaedic Surgery	83%	52%	93%	87%	80%	74%
Otolaryngology	91%	72%	85%	95%	79%	84%
Plastic Surgery	73%	29%	95%	87%	42%	62%
Radiology	16%	2%	100%	32%	10%	30%
Urology	69%	28%	98%	78%	46%	58%
% Procedures in Home HA	75%	36%	95%	86%	75%	66%

Notes:

1. Surgical procedures were assigned to the surgical specialty of the procedural physician. For example, if a general surgeon performed a thoracic procedure, the procedure would be assigned to general surgery (not thoracic surgery).
2. For the purposes of this table, children from VCH that had a procedure at C&W or a VCH hospital were assumed to have received the service in their home HA.

Of the 108 hospitals in BC:

- Surgery was performed on children in 57/108¹ (53%) hospitals in 2014/15 (CIHI).
- Of the 57 hospitals where surgery was performed on children:
 - 23/57 (40%) performed day care surgery only (defined as 5 or less inpatient procedures per year).
 - 26/57 (46%) performed less than 100 procedures, 28 performed between 100 and 1,000 procedures and 3/57 performed more than 1,000 procedures (BCCH, Victoria General and Surrey Memorial).
 - 22/57 (38%) have dedicated pediatric beds (see Appendix 5 for a listing) and collectively performed 87% of the total pediatric surgical volume.

3.0 References

1. Hanley G. Summary of the evidence volume-outcome relationship in pediatric surgery. <http://childhealthbc.ca/>. 2013:1-15.
2. BC Medical Quality Initiative. Family practice with enhanced surgical skills clinical privileges. <http://bcmqi.ca/privileging-dictionaries>. 2015: 1-10. (accessed Nov 20, 2016)
3. Grzybowski S et al. The outcomes of perinatal surgical services in rural British Columbia: a population-based study. www.facturation.net/cjrm/vol-18/issue-4/123. *Can J Rural Med*. 2013;18(4). (accessed Nov 20, 2016)
4. National Working Group on Enhanced Surgical Skills. Enhanced surgical skills training program for family physicians: An integrated modular curriculum. www.srpc.ca/ess2016/summit/Draft-2-Enhanced-Surgical-Skills-Curriculum-14-01-21.pdf. 2014: 1-98. (accessed Nov 20, 2016)
5. BC Medical Quality Initiative. Family practice anesthesia clinical privileges. <http://bcmqi.ca/privileging-dictionaries>. 2015:1-8. (accessed Nov 20, 2016)
6. Society of Rural Physicians of Canada in cooperation with the College of Family Physicians of Canada and the Canadian Anesthesiologists Society. Joint position paper on training for rural family physicians in anesthesia. www.srpc.ca/pdf/jppeng.pdf. November 2001: 1-21. (accessed Nov 20, 2016)

¹ 57/76 (75%) if hospitals with no inpatient beds are excluded.

Appendix 1: ED and Med/Surg Visits and Days by Facility

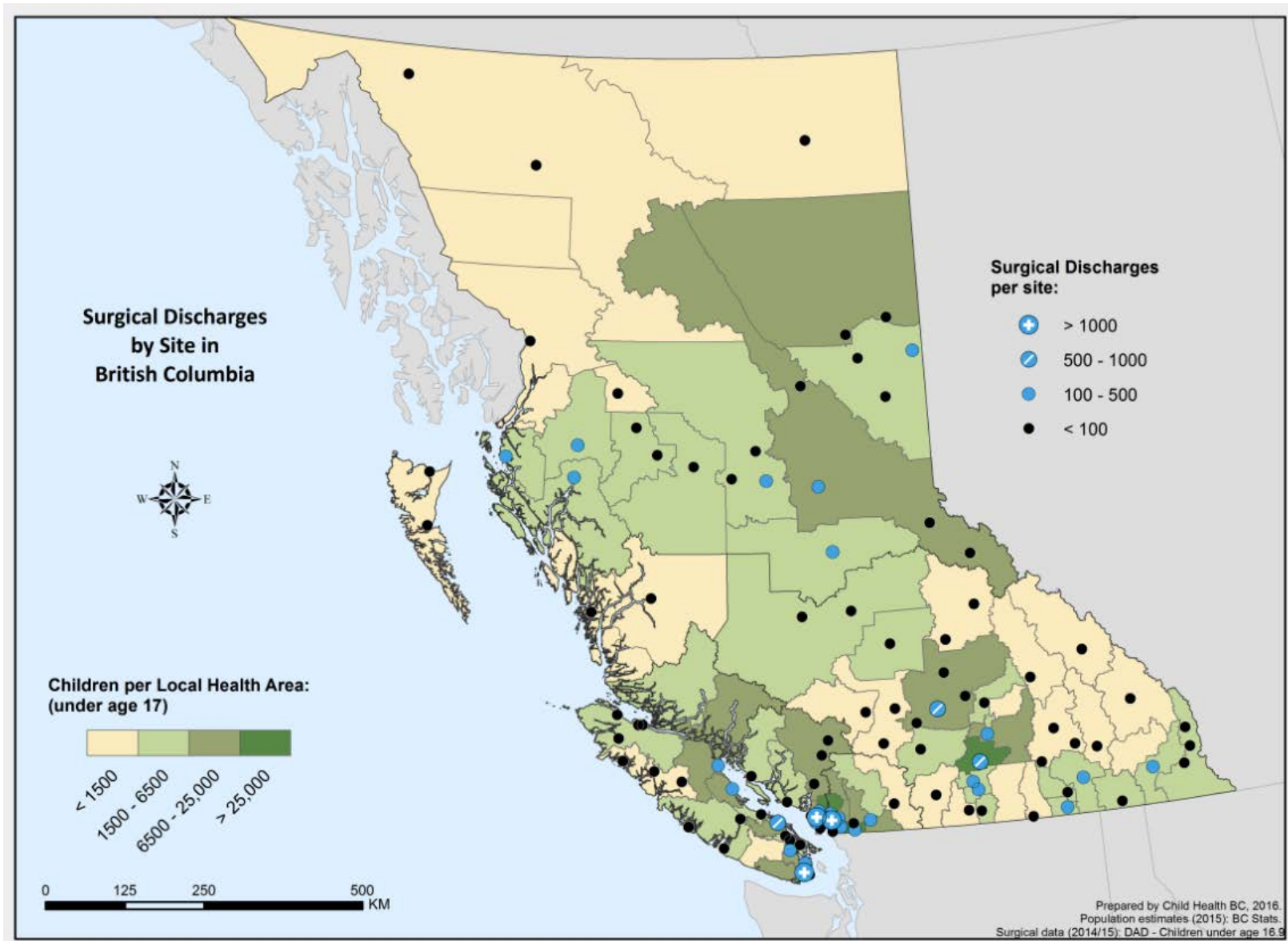
- Includes children ages 0 - 16.9 years.
- Surgical procedures: Procedures performed on children by a surgeon regardless of most responsible physician (MRP). Includes children in NICUs, PICUs, med/surg units and in day care settings.
- Med/surg visits and days: Visits and days sorted by MRP. Includes children in PICUs, med/surg units and in day care settings (excludes children in NICUs).
- Medical and surgical data is for fiscal year 2014/2015. Source is the BC MoH Discharge Abstract Database.
- Emergency Department (ED) visits: Based on 2015/16 National Ambulatory Care Reporting System (NACRS) data for children ages 0-16.9 for sites that submit to NACRS. Where NACRS data was not available, visits were calculated as 15.48% x total ED visits. 2015/16 MIS data was used for total ED visits.

	Treating Hosp	ED Visits	Surgery							Medical				Med/Surg		Gen Ped Beds
			Day Care Proc's	Inpt Proc's	Total Proc's	Day Care Visits	Inpt Visits	Total Visits	Total Days	Day Care Visits	Inpt Visits	Total Visits	Total Days	Total Visits	Total Days	
Interior HA																
East Kootenay	Creston Valley Hosp	2,391	8		8	8		8	0	3	25	28	51	36	51	
	East Kootenay Reg Hosp (Cranbrook)	3,678	303	71	374	303	76	379	165		117	117	267	496	432	2
	Elk Valley Hosp	2,000	19	1	20	19		19	0		29	29	41	48	41	
	Elkford H Ctre	199			0			0				0		0	0	
	Golden & District Hosp	1,225	7	1	8	7		7	0	4	12	16	24	23	24	
	Invermere & District Hosp	1,850			0			0			18	18	39	18	39	
	Sparwood H Ctre	706			0			0				0		0	0	
Kootenay Boundary	Arrow Lakes Hosp	677			0			0			1	1	2	1	2	
	Boundary Hosp	2,413			0			0			3	3	5	3	5	
	Castlegar H Ctre	1,637			0			0				0		0	0	
	Edgewood H Ctre	226			0			0				0		0	0	
	Kootenay Bound Hosp	2,475	137	40	177	138	40	178	77	1	166	167	450	345	527	4
	Kootenay Lake Hosp	2,114	98	1	99	98	3	101	11	1	53	54	124	155	135	
	Victorian Comm H Ctre of Kaslo	156			0			0				0		0	0	
Okanagan	Kelowna Gen Hosp	9,446	453	178	631	453	176	629	310	14	511	525	1288	1154	1598	10
	Penticton Reg Hosp	5,679	93	58	151	93	64	157	99	6	227	233	466	390	565	11
	Princeton Gen Hosp	1,085			0			0				0		0	0	
	South Ok Gen Hosp	2,810			0			0				0		0	0	
	S Similkameen H Ctre	422			0			0				0		0	0	
	Summerland H Ctre		402		402	402		402	0			0		402	0	
	Vernon Jubilee Hosp	6,834	246	81	327	246	90	336	148	6	235	241	643	577	791	5
Thompson Cariboo Shuswap	100 Mile District Hosp	1,925	8		8	5		5	0	11	16	27	28	32	28	
	Alexis Creek H Ctre	276			0			0				0		0	0	
	Ashcroft Gen Hosp	395			0			0				0		0	0	
	Barriere H Ctre	229			0			0				0		0	0	
	Blue River H Ctre	105			0			0				0		0	0	
	Cariboo Memorial Hosp	3,277	65	6	71	64	6	70	12	1	67	68	150	138	162	
	Chase & District H Ctre	653			0			0				0		0	0	
	Dr. Helmcken Mem Hosp	570			0			0			3	3	3	3	3	
	Lillooet Hosp & H Ctre	833	23		23	23		23	0	1	16	17	23	40	23	
	Logan Lake H Ctre	0			0			0				0		0	0	
	Nicola Valley Hosp	2,077			0			0			1	1	2	1	2	
	Queen Victoria Hosp	1,422	6	3	9	6	4	10	5		8	8	12	18	17	
	Royal Inland Hosp	10,516	489	203	692	482	214	696	348	6	368	374	899	1070	1247	9
	Shuswap Lake Gen Hosp	3,130	47	7	54	47	9	56	15		45	45	68	101	83	
	Slocan Comm H Ctre	312			0			0				0		0	0	
St. Bartholomew's H Ctre	317			0			0				0		0	0		
Interior HA Total		74,061	2,404	650	3,054	2,394	682	3,076	1,190	54	1,921	1,975	4,585	5,051	5,775	41

	Treating Hosp	ED Visits	Surgery							Medical				Med/Surg		Gen Ped Beds
			Day Care Proc's	Inpt Proc's	Total Proc's	Day Care Visits	Inpt Visits	Total Visits	Total Days	Day Care Visits	Inpt Visits	Total Visits	Total Days	Total Visits	Total Days	
Fraser HA																
	Abbotsford Reg Hosp	13,572	254	167	421	253	165	418	315		871	871	2174	1289	2489	12
Fraser East	Chilliwack Gen Hosp	9,541	197	19	216	193	21	214	39		114	114	121	328	160	4
	Fraser Canyon Hosp	1,481			0			0				0		0	0	
	Mission Memorial Hosp	2,683			0			0				0		0	0	
Fraser North	Burnaby Hosp	9,120	4	5	9	4	11	15	11		132	132	148	147	159	
	Eagle Ridge Hosp	8,495	225	1	226	225	4	229	4		103	103	103	332	107	
	Ridge Meadows Hosp	6,269	232	40	272	232	47	279	76	2	7	9	9	288	85	4
	Royal Columbian Hosp	10,213	82	171	253	82	184	266	334	1	507	508	1264	774	1598	12
Fraser South	Delta Hosp	3,383	34		34	34		34	0		46	46	46	80	46	
	Jim Pattison Outpt Ctre		7		7	7		7	0	12		12	0	19	0	
	Langley Memorial Hosp	6,587	204	83	287	204	89	293	152		413	413	1079	706	1231	9
	Peace Arch District Hosp	6,300	27	12	39	27	16	43	20	1	72	73	72	116	92	
	Surrey Memorial Hosp	36,649	775	455	1230	775	459	1234	671	4	1095	1099	2988	2333	3659	16
Fraser HA Total		114,293	2,041	953	2,994	2,036	996	3,032	1,622	20	3,360	3,380	8,004	6,412	9,626	57
Vancouver Coastal HA																
North Shore/Coast Garibaldi	Bella Coola Gen Hosp	456			0			0			22	22	37	22	37	
	Lions Gate Hosp	8,240	186	143	329	182	149	331	239	36	426	462	944	793	1183	10
	Pemberton H Ctre	813			0			0			0	0	0	0	0	
	Powell River Gen Hosp	2,852	28	2	30	28	3	31	7	2	11	13	15	44	22	
	R.W. Large Mem Hosp	431			0			0			3	3	3	3	3	
	Squamish Gen Hosp	2,237	67	2	69	31		31	0	37	21	58	30	89	30	
	St. Mary's Hosp, Sechelt	2,445	26	5	31	26	4	30	4		21	21	34	51	38	
	Whistler H Ctre	3,330			0			0				0		0	0	
Richmond	Richmond Hosp	6,949	118	51	169	118	55	173	81		193	193	305	366	386	4
Vancouver	Mount Saint Jo (Providence)	1,104	14		14	14		14	0	2	2	4	3	18	3	
	St. Paul's Hosp (Providence)	1,646	34	9	43	33	7	40	23	7	58	65	99	105	122	
	U.B.C. H Sciences Ctre	1,838	72	19	91	72	19	91	19			0		91	19	
	Vancouver Gen Hosp	136	52	37	89	52	37	89	281	4	7	11	38	100	319	
Vancouver Coastal HA Total		32,478	597	268	865	556	274	830	654	88	764	852	1,508	1,682	2,162	14
Vancouver Island HA																
Central Van Island	Bamfield H Ctre	213			0			0				0		0	0	
	Chemamus Health Ctre	934			0			0				0		0	0	
	Cowichan District Hosp	5,118	313	59	372	312	58	370	72	2	209	211	479	581	551	4
	Ladysmith Comm H Ctre	2,476			0			0				0		0	0	
	Nanaimo Reg Gen Hosp	8,376	725	167	892	725	175	900	290	2	423	425	1006	1325	1296	8
	Oceanside H Ctre	3,889			0			0				0		0	0	
	Tofino Gen Hosp	946			0			0			12	12	18	12	18	
	West Coast Gen Hosp	4,070	18	8	26	18	8	26	16		60	60	127	86	143	
Northern Van Island	Campbell River Hosp	2,916	190	38	228	190	44	234	85		88	88	226	322	311	1
	Cormorant Island H Ctre	252			0			0		2	2	3	2	3		
	Gold River H Ctre	467			0			0				0		0	0	
	Kyuquot H Ctre	137			0			0				0		0	0	
	Port Alice Hosp	113			0			0				0		0	0	
	Tahsis H Ctre	396			0			0				0		0	0	
	Port Hardy Hosp	1,221			0			0			21	21	39	21	39	
	Port McNeill Hosp	723			0			0			4	4	5	4	5	
St. Joseph's Gen Hosp	3,236	186	20	206	186	27	213	53		98	98	164	311	217	4	
Southern Van Island	Lady Minto/Gulf Islands Hosp	1,552			0			0		1	11	12	13	12	13	
	Royal Jubilee Hosp	2,434	52	12	64	51	7	58	62	4	1	5	1	63	63	
	Saanich Peninsula Hosp	2,431	205		205	205		205	0			0		205	0	
	Victoria Gen Hosp	12,546	1238	577	1815	1236	497	1733	959	7	1095	1102	3949	2835	4908	16
Vancouver Island HA Total		54,444	2,927	881	3,808	2,923	816	3,739	1,537	16	2,024	2,040	6,030	5,779	7,567	33

	Treating Hosp	ED Visits	Surgery							Medical				Med/Surg		Gen Ped Beds
			Day Care Proc's	Inpt Proc's	Total Proc's	Day Care Visits	Inpt Visits	Total Visits	Total Days	Day Care Visits	Inpt Visits	Total Visits	Total Days	Total Visits	Total Days	
Northern HA																
North-east	Chetwynd Gen Hosp	1,428			0			0				18	18	32	18	32
	Dawson Creek Hosp	3,842	126	6	132	126	8	134	14	38	48	86	111	220	125	
	Fort Nelson Gen Hosp	1,023	8		8	8		8	0	2	24	26	43	34	43	
	Fort St. John Gen Hosp	4,276	88	7	95	88	7	95	20	34	113	147	251	242	271	
	Hudson's Hope H Ctre	50			0			0				0		0	0	
Tumbler Ridge H Ctre	362			0			0				0		0	0		
Northern Interior	Burns Lake Hosp (Lakes District)				0			0			31	31	58	31	58	
	Fraser Lake H Ctre	867			0			0			0		0	0		
	GR Baker Mem Hosp	2,827	189	8	197	189	13	202	22	9	23	32	47	234	69	
	Lakes District Hosp	2,063			0			0			0		0	0		
	Mackenzie Hosp	928			0			0			4	4	6	4	6	
	McBride & District Hosp	325			0			0			1	1	1	1	1	
	St. John Hosp	1,689	101	20	121	101	20	121	20	26	55	81	81	202	101	
	Stuart Lake Hosp	916			0			0			10	10	21	10	21	
	The Univ Hosp of N BC	7,271	348	86	434	341	77	418	193	13	499	512	1455	930	1648	12
Valemount H Ctre	474			0			0				0		0	0		
North-west	Atlin H Ctre	393			0			0			0		0	0	0	
	Bulkley Valley Hosp	2,342	31	2	33	31	3	34	3	26	69	95	146	129	149	
	Houston H Ctre	687			0			0				0		0	0	
	Kitimat Gen Hosp	1,817	111	3	114	112	2	114	2	3	42	45	94	159	96	
	Mills Memorial Hosp	4,085	244	19	263	240	16	256	30	2	99	101	244	357	274	
	N Haida Gwaii Hosp	427			0			0			15	15	22	15	22	
	Prince Rupert Reg Hosp	3,487	176	7	183	176	9	185	11		47	47	80	232	91	
	Queen Charlotte Is Hosp	589			0			0			6	6	11	6	11	
	Stewart Gen Hosp	226			0			0				0		0	0	
	Stikine H Ctre	214			0			0				0		0	0	
Wrinch Memorial Hosp	1,282	98	1	99	98		98	0		33	33	64	131	64		
Northern HA Total		43,891	1,520	159	1,679	1,510	155	1,665	315	153	1,137	1,290	2,767	2,955	3,082	12
PHSA HA																
PHSA	BC Children's Hosp	47,673	6574	3265	9839	6569	2319	8888	9002	787	3747	4534	22728	13422	31730	97
	BC Women's Hosp		6	368	374	6		6	0		161	161	347	167	347	
PHSA HA Total		47,673	6,580	3,633	10,213	6,575	2,319	8,894	9,002	787	3,908	4,695	23,075	13,589	32,077	97
Grand Total		366,841	16,069	6,544	22,613	15,994	5,242	21,236	14,320	1,118	13,114	14,232	45,969	35,468	60,289	254

Appendix 2: Map of Pediatric Surgical Discharges in BC



Appendix 3: Surgical Procedures, Children Ages 0 – 16.9 Yrs, by Treating Hospital

- Includes children ages 0 - 16.9 years. Source is the BC MoH Discharge Abstract Database
- Procedures by procedural physician regardless of most responsible physician (MRP). Includes children in NICUs, PICUs, med/surg units and day care settings.
- Surgical procedures are assigned to the surgical specialty of the procedural physician. For example, if a general surgeon performed a thoracic procedure, the procedure is assigned to general surgery (not thoracic surgery).

Procedure MD	Age of Child					Total
	< 6 mos	6 mos - 1.9 Yrs	2.0 - 5.9 Yrs	6.0 - 13.9 Yrs	14.0 - 16.9 Yrs	
Interior HA	12	113	1,014	1,276	639	3,054
100 Mile District General Hospital						
Dentistry			4		1	5
Radiology				3		3
Cariboo Memorial Hospital						
Dentistry			30	11		41
General Surgery			1	11	11	23
Gynaecology			1	2	3	6
Radiology					1	1
Creston Valley Hospital						
Dentistry			7	1		8
East Kootenay Regional Hospital						
Dentistry		1	12	5	2	20
General Surgery				17	14	31
Gynaecology				3	4	7
Orthopaedic Surgery			11	26	28	65
Otolaryngology		6	93	107	22	228
Radiology				1		1
Urology		6	4	7	5	22
Elk Valley Hospital						
Dentistry			7	8		15
General Surgery				3	1	4
Otolaryngology			1			1
Golden & District Hospital						
Dentistry			5			5
General Surgery					2	2
Orthopaedic Surgery					1	1
Kelowna General Hospital						
Anaesthesiology		1		1		2
Cardiac/Thoracic Surgery				1	2	3
Dentistry		5	13	8	4	30
General Surgery	1	2	10	37	22	72
Gynaecology				1	7	8
Neurosurgery					1	1
Ophthalmology		13	21	12	1	47
Oral Surgery			3		10	13
Orthopaedic Surgery	1	3	8	41	41	94
Otolaryngology	1	10	75	81	20	187
Plastic Surgery	2	11	13	42	25	93
Radiology	1	1	15	17	2	36
Urology		15	13	9	8	45

Procedure MD	Age of Child					Total
	< 6 mos	6 mos - 1.9 Yrs	2.0 - 5.9 Yrs	6.0 - 13.9 Yrs	14.0 - 16.9 Yrs	
Kootenay Boundary Reg Hospital						
Anaesthesiology				1		1
Dentistry			7	6	3	16
General Surgery			3	6	8	17
Gynaecology					2	2
Orthopaedic Surgery		1	7	30	18	56
Otolaryngology		2	27	30	2	61
Plastic Surgery		1	3	6	6	16
Urology			2	5	1	8
Kootenay Lake Hospital						
Dentistry		2	43	41	5	91
General Surgery					2	2
Gynaecology					3	3
Ophthalmology		1	1	1		3
Lillooet Hospital & Health Centre						
Dentistry			19	4		23
Penticton Regional Hospital						
General Surgery			2	9	12	23
Gynaecology	1				1	2
Ophthalmology			1			1
Orthopaedic Surgery		1	10	27	26	64
Otolaryngology		4	22	17	4	47
Urology		1	3	9	1	14
Queen Victoria Hospital						
General Surgery			3	3	3	9
Royal Inland Hospital						
Dentistry		1	77	68	9	155
General Surgery			3	18	10	31
Gynaecology	1		1	2	6	10
Neurosurgery			1		2	3
Ophthalmology					1	1
Orthopaedic Surgery			17	77	86	180
Otolaryngology		8	83	92	34	217
Plastic Surgery	3		4	20	18	45
Radiology			1	5	4	10
Urology	1		17	15	7	40
Shuswap Lake General Hospital						
Dentistry			16	9	1	26
General Surgery			1	3	9	13
Gynaecology					2	2
Ophthalmology			1	2		3
Orthopaedic Surgery				1	7	8
Radiology					1	1
Urology					1	1
Summerland Memorial H Centre						
Dentistry			168	84	6	258
Otolaryngology			39	81	24	144
Vernon Jubilee Hospital						
General Surgery		1	3	22	19	45
Gynaecology				3	2	5
Orthopaedic Surgery		4	16	38	34	92
Otolaryngology		9	57	79	20	165
Urology		3	9	7	1	20

Procedure MD	Age of Child					Total
	< 6 mos	6 mos - 1.9 Yrs	2.0 - 5.9 Yrs	6.0 - 13.9 Yrs	14.0 - 16.9 Yrs	
Fraser HA	4	33	862	1,381	714	2,994
Abbotsford Regional Hospital						
Anaesthesiology			1			1
Dentistry			44	34	3	81
General Surgery			4	23	22	49
Gynaecology			1		6	7
Oral Surgery		1	2	6	3	12
Orthopaedic Surgery			32	70	30	132
Otolaryngology			38	40	8	86
Plastic Surgery			3	11	6	20
Radiology				2	2	4
Urology			7	15	7	29
Burnaby Hospital						
Anaesthesiology					1	1
Orthopaedic Surgery			1	2	2	5
Otolaryngology					3	3
Chilliwack General Hospital						
Dentistry				4		4
General Surgery				1	7	8
Gynaecology					2	2
Ophthalmology				2		2
Orthopaedic Surgery				13	19	32
Otolaryngology			76	83	8	167
Radiology			1			1
Delta Hospital						
General Surgery					14	14
Gynaecology					1	1
Ophthalmology					5	5
Oral Surgery					3	3
Orthopaedic Surgery					6	6
Otolaryngology					1	1
Plastic Surgery					4	4
Eagle Ridge Hospital						
Dentistry			13	11		24
General Surgery					9	9
Oral Surgery				7	1	8
Orthopaedic Surgery				12	62	74
Otolaryngology			26	37	10	73
Plastic Surgery			2	5	16	23
Urology			1	10	4	15
Jim Pattison Outpt Surg Centre						
General Surgery				1	2	3
Otolaryngology				1		1
Plastic Surgery				1		1
Radiology					1	1
Urology					1	1
Langley Memorial Hospital						
General Surgery			1	21	18	40
Gynaecology	1				3	4
Ophthalmology			1			1
Oral Surgery			2	52	33	87
Orthopaedic Surgery			7	24	29	60
Otolaryngology			26	38	9	73
Urology			10	10	2	22

Procedure MD	Age of Child					Total
	< 6 mos	6 mos - 1.9 Yrs	2.0 - 5.9 Yrs	6.0 - 13.9 Yrs	14.0 - 16.9 Yrs	
Peace Arch District Hospital						
General Surgery					12	12
Oral Surgery					4	4
Orthopaedic Surgery					9	9
Otolaryngology					8	8
Plastic Surgery					3	3
Urology					3	3
Ridge Meadows Hospital						
Dentistry			79	31	2	112
General Surgery				9	9	18
Gynaecology			1	3		4
Oral Surgery				4	2	6
Orthopaedic Surgery			17	47	31	95
Urology			19	13	5	37
Royal Columbian Hospital						
Anaesthesiology	1					1
General Surgery			2	36	24	62
Gynaecology					1	1
Neurosurgery					1	1
Ophthalmology	1					1
Oral Surgery				1		1
Orthopaedic Surgery			17	71	41	129
Otolaryngology			1		1	2
Plastic Surgery			6	14	25	45
Radiology	1			2	3	6
Urology			1	1	2	4
Surrey Memorial Hospital						
Cardiac/Thoracic Surgery					5	5
Dentistry			9	4	1	14
General Surgery			3	62	35	100
Gynaecology					1	1
Ophthalmology			1	6	7	14
Oral Surgery			1	10	10	21
Orthopaedic Surgery		1	29	50	20	100
Otolaryngology		31	359	440	68	898
Plastic Surgery			6	11	7	24
Radiology				2	2	4
Urology			12	28	9	49
Vancouver Coastal HA	1	3	139	318	404	865
Lions Gate Hospital						
Anaesthesiology				1	1	2
General Surgery		1	2	46	22	71
Gynaecology	1			2	2	5
Oral Surgery					2	2
Orthopaedic Surgery			7	49	49	105
Otolaryngology		2	61	46	7	116
Plastic Surgery				3	7	10
Radiology				4	2	6
Urology			1	4	7	12
Mount Saint Joseph Hospital						
General Surgery					4	4
Ophthalmology				2	2	4
Otolaryngology					2	2
Plastic Surgery				1	1	2
Urology					2	2

Procedure MD	Age of Child					Total
	< 6 mos	6 mos - 1.9 Yrs	2.0 - 5.9 Yrs	6.0 - 13.9 Yrs	14.0 - 16.9 Yrs	
Powell River General Hospital						
Dentistry			3	5	4	12
General Surgery			3	9	4	16
Gynaecology					2	2
Richmond Hospital						
Anaesthesiology				1	1	2
General Surgery			2	11	9	22
Gynaecology				1	2	3
Orthopaedic Surgery			6	20	25	51
Otolaryngology			12	33	7	52
Plastic Surgery			1	4	6	11
Urology			7	17	4	28
Sechelt Hospital						
Dentistry			5	3	1	9
General Surgery				5	10	15
Gynaecology				1	3	4
Radiology					1	1
Urology				2		2
Squamish General Hospital						
Dentistry			22	12	2	36
Orthopaedic Surgery				1	18	19
Otolaryngology			4	8		12
Plastic Surgery				1	1	2
St. Paul's Hospital						
General Surgery					2	2
Gynaecology					1	1
Orthopaedic Surgery				4	20	24
Otolaryngology				2	4	6
Plastic Surgery					8	8
Radiology					2	2
UBC Health Sciences Centre						
Cardiac/Thoracic Surgery					1	1
Ophthalmology					1	1
Oral Surgery					21	21
Orthopaedic Surgery				1	46	47
Otolaryngology					10	10
Plastic Surgery				1	4	5
Radiology					5	5
Urology					1	1
Vancouver General Hospital						
Cardiac/Thoracic Surgery					4	4
General Surgery				2	5	7
Gynaecology					2	2
Neurosurgery					3	3
Ophthalmology				11	19	30
Orthopaedic Surgery					15	15
Plastic Surgery					5	5
Radiology			1	3	12	16
Urology			2	2	3	7

Procedure MD	Age of Child					Total
	< 6 mos	6 mos - 1.9 Yrs	2.0 - 5.9 Yrs	6.0 - 13.9 Yrs	14.0 - 16.9 Yrs	
Vancouver Island HA	105	236	1,410	1,412	645	3,808
Campbell River Hospital						
Dentistry				2	8	10
General Surgery			4	8	6	18
Gynaecology					1	1
Oral Surgery			6	9	10	25
Orthopaedic Surgery			1	21	22	44
Otolaryngology		5	29	46	14	94
Plastic Surgery			7	17	6	30
Urology			2	3	1	6
Cowichan District Hospital						
Dentistry		2	82	23	8	115
General Surgery				19	13	32
Gynaecology				2		2
Ophthalmology				1		1
Oral Surgery				7	3	10
Orthopaedic Surgery		1	10	34	30	75
Otolaryngology		2	53	50	12	117
Plastic Surgery				2	3	5
Radiology				1		1
Urology			4	6	4	14
Nanaimo Regional General Hospital						
Anaesthesiology	1				2	3
Dentistry		18	290	153	4	465
General Surgery			1	25	18	44
Gynaecology			1	1	3	5
Ophthalmology		1	5	5	1	12
Oral Surgery			2	13	21	36
Orthopaedic Surgery		1	24	19	31	75
Otolaryngology		6	82	100	10	198
Plastic Surgery			6	18	16	40
Radiology				2		2
Urology			1	6	5	12
Royal Jubilee Hospital						
General Surgery					3	3
Ophthalmology				3	3	6
Orthopaedic Surgery				1	9	10
Otolaryngology					1	1
Plastic Surgery				9	33	42
Radiology					1	1
Urology					1	1
Saanich Peninsula Hospital						
Dentistry			114	59	5	178
Gynaecology					1	1
Orthopaedic Surgery			1	9	14	24
Plastic Surgery				1	1	2
St. Joseph's General Hospital						
Anaesthesiology					1	1
Dentistry			35	15	5	55
General Surgery			2	8	8	18
Gynaecology			1		2	3
Ophthalmology			3	4		7
Orthopaedic Surgery		1	3	16	10	30
Otolaryngology			29	37	13	79
Radiology			2			2
Urology			2	5	4	11

Procedure MD	Age of Child					Total
	< 6 mos	6 mos - 1.9 Yrs	2.0 - 5.9 Yrs	6.0 - 13.9 Yrs	14.0 - 16.9 Yrs	
Victoria General Hospital						
Dentistry		10	101	49	8	168
General Surgery	74	59	108	144	59	444
Gynaecology				9	5	14
Neurosurgery					1	1
Ophthalmology	3	17	57	27	4	108
Oral Surgery		1	16	11	5	33
Orthopaedic Surgery		8	39	128	111	286
Otolaryngology	9	60	211	186	41	507
Plastic Surgery	3	19	22	30	9	83
Radiology	10	13	12	21	9	65
Urology	5	12	37	32	20	106
West Coast General Hospital						
General Surgery			1	10	5	16
Urology			4	5	1	10
Northern HA	4	43	674	679	279	1,679
Bulkley Valley District Hospital						
Dentistry			7	7		14
General Surgery				3	5	8
Orthopaedic Surgery			1		1	2
Otolaryngology		1	4	3		8
Urology					1	1
Dawson Creek & District Hospital						
Dentistry		1	31	17	3	52
General Surgery			8	22	9	39
Gynaecology				2	5	7
Orthopaedic Surgery		1	5	14	12	32
Radiology				1		1
Urology			1			1
Fort Nelson General Hospital						
Otolaryngology			3	5		8
Fort St. John General Hospital						
Dentistry			35	7		42
General Surgery			12	14	6	32
Gynaecology				1		1
Ophthalmology			4	3	3	10
Orthopaedic Surgery			1		3	4
Otolaryngology				5	1	6
G.R. Baker Memorial Hospital						
Dentistry			66	22	6	94
General Surgery				2		2
Orthopaedic Surgery					6	6
Otolaryngology			34	51	6	91
Plastic Surgery					3	3
Radiology			1			1
Kitimat General Hospital						
Anaesthesiology			1			1
Dentistry			23	27		50
General Surgery		1		1	6	8
Orthopaedic Surgery			7	24	10	41
Otolaryngology			3	9	1	13
Urology				1		1

Procedure MD	Age of Child					Total
	< 6 mos	6 mos - 1.9 Yrs	2.0 - 5.9 Yrs	6.0 - 13.9 Yrs	14.0 - 16.9 Yrs	
Mills Memorial Hospital						
Dentistry		5	79	44	5	133
General Surgery		3	2	6	16	27
Gynaecology				2	3	5
Ophthalmology			1	1		2
Otolaryngology		8	34	36	2	80
Radiology			1	1	1	3
Urology			3	8	2	13
Prince George Regional Hospital						
Anaesthesiology	1			3	2	6
Dentistry			55	38	4	97
General Surgery	3	8	10	25	20	66
Gynaecology		1		4	4	9
Ophthalmology		2	3	1		6
Oral Surgery		3	3	17	3	26
Orthopaedic Surgery		2	14	59	67	142
Otolaryngology		3	10	5	4	22
Plastic Surgery			10	11	7	28
Radiology				2	8	10
Urology		2	7	9	4	22
Prince Rupert Regional Hospital						
Dentistry			60	23	3	86
General Surgery			3	14	7	24
Gynaecology			1	3	2	6
Orthopaedic Surgery			6	18	16	40
Otolaryngology		1	10	11	2	24
Plastic Surgery			1	2		3
St. John's Hospital						
Dentistry			36	19	1	56
Orthopaedic Surgery				1	4	5
Otolaryngology			22	35	3	60
Wrinch Memorial Hospital						
Dentistry		1	54	34		89
Otolaryngology			2	6	2	10
PHSA HA	1,095	1,272	3,581	3,226	1,040	10,213
B.C. Children's Hospital						
Anaesthesiology	2	4	1	9	28	44
Cardiac/Thoracic Surgery	178	75	53	38	25	369
Dentistry	12	59	1,373	651	59	2,155
General Surgery	155	180	310	309	156	1,110
Gynaecology			3	12	7	22
Neurosurgery	33	30	51	83	32	229
Ophthalmology	32	165	326	285	50	858
Oral Surgery			9	77	30	116
Orthopaedic Surgery	13	29	166	525	296	1,029
Otolaryngology	26	102	346	393	84	951
Plastic Surgery	46	119	141	165	64	535
Radiology	215	309	559	417	153	1,653
Urology	15	200	243	260	51	769

Procedure MD	Age of Child					Total
	< 6 mos	6 mos - 1.9 Yrs	2.0 - 5.9 Yrs	6.0 - 13.9 Yrs	14.0 - 16.9 Yrs	
B.C. Women's Hospital						
Cardiac/Thoracic Surgery	19					19
General Surgery	153					153
Gynaecology	2			2	4	8
Neurosurgery	14					14
Ophthalmology	9					9
Orthopaedic Surgery	1					1
Otolaryngology	18					18
Plastic Surgery	2					2
Radiology	141					141
Urology	9					9
Total Surgical Procedures	1,221	1,700	7,680	8,292	3,719	22,613
% Total Surgical Procedures	5%	8%	34%	37%	16%	100%

Appendix 4: Surgical Procedures, Children Ages 0 – 16.9 Yrs, by HA of Treating Hospital & Child's Home Residence

- Includes children ages 0 - 16.9 years. Source is the BC MoH Discharge Abstract Database
- Procedures by procedural physician regardless of most responsible physician (MRP). Includes children in NICUs, PICUs, med/surg units and day care settings.
- Surgical procedures are assigned to the surgical specialty of the procedural physician. For example, if a general surgeon performed a thoracic procedure, the procedure is assigned to general surgery (not thoracic surgery).

Procedure MD	HA of Treating Hospital	Child's Home Residence							
		Interior	Fraser	Van Coastal	Van Island	Northern	Total, excl Other	Other	Total, incl Other
Pop'n, 0 - 16.9 Yrs		115,792	329,166	165,236	116,317	58,442	784,953		
Anaesthe-siology	Interior	3					3		3
	Fraser		1	1	1		3		3
	Vancouver Coastal			4			4		4
	PHSA	2	26	11	2	1	42	2	44
	Vancouver Island				4		4		4
	Northern					7	7		7
	Total	5	27	16	7	8	63	2	65
	% treated in home HA	60%	4%	94%	57%	88%	48%		
Per 1,000 pop'n children	0.0	0.1	0.1	0.1	0.1	0.1			
Cardiac/Thoracic Surgery	Interior	3					3		3
	Fraser		5				5		5
	Vancouver Coastal		2	3			5		5
	PHSA	40	131	72	51	34	328	60	388
	Vancouver Island						0		0
	Northern						0		0
	Total	43	138	75	51	34	341	60	401
	% treated in home HA	7%	4%	100%	0%	0%	24%		
Per 1,000 pop'n children	0.4	0.4	0.5	0.4	0.6	0.4			
Dentistry	Interior	685		4		2	691	2	693
	Fraser	1	229	4		1	235		235
	Vancouver Coastal			55	2		57		57
	PHSA	31	1085	424	42	23	1605	549	2,154
	Vancouver Island	1	2	4	983	1	991		991
	Northern	37		5	1	667	710	3	713
	Total	755	1,316	496	1,028	694	4,289	554	4,843
	% treated in home HA	91%	17%	97%	96%	96%	71%		
Per 1,000 pop'n children	6.5	4.0	3.0	8.8	11.9	5.5			
General Surgery	Interior	251	4	3	1	2	261	11	272
	Fraser		304	7	1		312	3	315
	Vancouver Coastal		8	124	1	2	135	2	137
	PHSA	136	587	378	78	60	1239	24	1,263
	Vancouver Island		3	1	564		568	7	575
	Northern	1				203	204	2	206
	Total	388	906	513	645	267	2,719	49	2,768
	% treated in home HA	65%	34%	98%	87%	76%	67%		
Per 1,000 pop'n children	3.4	2.8	3.1	5.5	4.6	3.5			
Gynaecology	Interior	44				1	45		45
	Fraser	1	19				20		20
	Vancouver Coastal		5	12			17		17
	PHSA	2	21	7			30		30
	Vancouver Island	1			25		26		26
	Northern					27	27	1	28
	Total	48	45	19	25	28	165	1	166
	% treated in home HA	92%	42%	100%	100%	96%	81%		
Per 1,000 pop'n children	0.4	0.1	0.1	0.2	0.5	0.2			

Procedure MD	HA of Treating Hospital	Child's Home Residence							Other	Total, incl Other
		Interior	Fraser	Van Coastal	Van Island	Northern	Total, excl Other			
Neuro-surgery	Interior	4					4		4	
	Fraser		1				1		1	
	Vancouver Coastal		1	2			3		3	
	PHSA	36	91	59	30	20	236	7	243	
	Vancouver Island				1		1		1	
	Northern						0		0	
	Total	40	93	61	31	20	245	7	252	
	% treated in home HA	10%	1%	100%	3%	0%	27%			
Per 1,000 pop'n children	0.3	0.3	0.4	0.3	0.3	0.3				
Ophthalmology	Interior	55					55		55	
	Fraser		23				23		23	
	Vancouver Coastal	7	10	11	5	1	34	1	35	
	PHSA	58	481	229	49	29	846	21	867	
	Vancouver Island				133		133	1	134	
	Northern					18	18		18	
	Total	120	514	240	187	48	1,109	23	1,132	
	% treated in home HA	46%	4%	100%	71%	38%	42%			
Per 1,000 pop'n children	1.0	1.6	1.5	1.6	0.8	1.4				
Oral Surgery	Interior	13					13		13	
	Fraser	1	125	9	1	6	142		142	
	Vancouver Coastal	1	14	6	1	1	23		23	
	PHSA	7	59	42	3	2	113	3	116	
	Vancouver Island			3	101		104		104	
	Northern					26	26		26	
	Total	22	198	60	106	35	421	3	424	
	% treated in home HA	59%	63%	80%	95%	74%	74%			
Per 1,000 pop'n children	0.2	0.6	0.4	0.9	0.6	0.5				
Orthopaedic Surgery	Interior	511	10	7	3	3	534	26	560	
	Fraser	2	604	21	1	1	629	13	642	
	Vancouver Coastal	5	63	170	4	6	248	13	261	
	PHSA	94	476	316	68	55	1009	21	1,030	
	Vancouver Island	2	3	7	527		539	5	544	
	Northern	5		1	1	261	268	4	272	
	Total	619	1,156	522	604	326	3,227	82	3,309	
	% treated in home HA	83%	52%	93%	87%	80%	74%			
Per 1,000 pop'n children	5.3	3.5	3.2	5.2	5.6	4.1				
Otolaryngology	Interior	1031	5	2	1	6	1045	5	1,050	
	Fraser	6	1212	82	3	4	1307	5	1,312	
	Vancouver Coastal		38	158	1	1	198		198	
	PHSA	69	423	345	52	66	955	14	969	
	Vancouver Island			8	987	1	996		996	
	Northern	27				294	321	1	322	
	Total	1,133	1,678	595	1,044	372	4,822	25	4,847	
	% treated in home HA	91%	72%	85%	95%	79%	84%			
Per 1,000 pop'n children	9.8	5.1	3.6	9.0	6.4	6.1				
Plastic Surgery	Interior	146	2			1	149	5	154	
	Fraser	1	112	7			120		120	
	Vancouver Coastal		6	35	1	1	43		43	
	PHSA	53	263	138	28	42	524	13	537	
	Vancouver Island		1	2	194	1	198	4	202	
	Northern	1				33	34		34	
	Total	201	384	182	223	78	1,068	22	1,090	
	% treated in home HA	73%	29%	95%	87%	42%	62%			
Per 1,000 pop'n children	1.7	1.2	1.1	1.9	1.3	1.4				

Procedure MD	HA of Treating Hospital	Child's Home Residence							Total, incl Other	
		Interior	Fraser	Van Coastal	Van Island	Northern	Total, excl Other	Other		
Radiology	Interior	51	1					52		52
	Fraser		14	1				15	1	16
	Vancouver Coastal	3	8	9	6	3		29	1	30
	PHSA	267	820	421	144	109		1761	33	1,794
	Vancouver Island				70			70	1	71
	Northern					13		13	2	15
	Total	321	843	431	220	125		1,940	38	1,978
	% treated in home HA	16%	2%	100%	32%	10%		30%		
Per 1,000 pop'n children	2.8	2.6	2.6	1.9	2.1		2.5			
Urology	Interior	149	1					150		150
	Fraser	1	154	3	2			160		160
	Vancouver Coastal	2	22	24	1			49	3	52
	PHSA	64	373	243	42	45		767	11	778
	Vancouver Island			2	158			160		160
	Northern					38		38		38
	Total	216	550	272	203	83		1,324	14	1,338
	% treated in home HA	69%	28%	98%	78%	46%		58%		
Per 1,000 pop'n children	1.9	1.7	1.6	1.7	1.4		1.7			
All Procedures	Interior	2,946	23	16	5	15		3005	49	3,054
	Fraser	13	2,803	135	9	12		2972	22	2,994
	Vancouver Coastal	18	177	613	22	15		845	20	865
	PHSA	859	4,836	2,685	589	486		9455	758	10,213
	Vancouver Island	4	9	27	3,747	3		3790	18	3,808
	Northern	71	0	6	2	1,587		1666	13	1,679
	Total	3,911	7,848	3,482	4,374	2,118		21,733	880	22,613
	% treated in home HA	75%	36%	95%	86%	75%		66%		
Per 1,000 pop'n children	33.8	23.8	21.1	37.6	36.2		27.7			

Appendix 5: HA Operated Pediatric Inpatient Beds in BC

HA	Hospital	General Pediatric Beds	Pediatric Observation Beds	Ped ICU Beds ⁱⁱ	Child & Youth MH Beds	Youth SU Beds ⁱⁱⁱ	Total Ped Beds	NICU Beds
IHA	Kelowna General	10			8		18	12
	Kootenay Boundary (Trail)	4					4	
	Penticton Regional	11					11	
	East Kootenay (Cranbrook)	2					2	
	Vernon	5					5	
	Royal Inland	9			2		11	8
	Ashnola (Keremeos)						22 ^{iv}	22
FHA	Abbotsford Regional	12					12	10
	Langley Memorial	9					9	
	Chilliwack General		4				4	
	Royal Columbian	12					12	24
	Ridge Meadows		4				4	
	Surrey Memorial	16			20		36	28 ^v
	Burnaby							8
	Creekside Withdrawal Management Centre					6	6	
VCH	Last Door Recovery Centre					10 ^{vi}	10	
	Lions Gate & Carlile Centre	10			10		20	9
	Richmond		4				4	6
	St Paul's							9
	Peak House					8	8	
Island H	Young Bears Lodge					5	5	
	Nanaimo Regional	8					8	9
	St Joseph's General	4					4	
	Victoria General	16		5			21	22
	Cowichan District (Duncan)	4					4	
	Campbell River	1					1	
NHA	Ledger House				14 ^{vii}		14	
	University Hospital of Northern B.C.	12 ^{viii}			6		18	9
PHSA	Nechako Centre					8 ^{ix}		
	B.C. Children's Hospital	97		22	54 ^x		173	
	BC Women's							60
TOTAL		242	12	27	114	59	446	214

Source: Survey of health planners & ED working group in each HA and internet.

Note: Several hospitals in BC do not have dedicated pediatric beds but admit children to beds on an adult inpatient unit(s). These hospitals are not included on the list above.

ⁱⁱ Beds have the capacity for invasive monitoring, inotropic drugs and mechanical ventilation.

ⁱⁱⁱ Excludes beds in home-based settings.

^{iv} Includes beds for ages 17 - 24.

^v Plan to increase to 48 beds in the future.

^{vi} Contracted beds and number of beds fluctuates.

^{vii} 14 beds: 5 child, 6 youth & 3 special care beds.

^{viii} 4 beds have the capacity for more intensive monitoring, up to and including continuous cardiorespiratory monitoring.

^{ix} Includes 1 detox bed.

^x Includes 14 beds at Looking Glass (up to age 24), a residential eating disorders program operated by PHSA (BC Mental Health & Substance Use Services and BCCH) in collaboration with the Looking Glass Foundation.