

SETTING
THE STAGE

CHILDREN'S SURGICAL SERVICES

February 2022
(2019/20 Data)

childhealthbc.ca



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 (Provides a high-level overview of key aspects of the module.
3. Children's Surgical Services: Tiers in Full to Support Operational Planning (Provides significant detail of key aspects of the module: (1) clinical service. (2) knowledge sharing/training; and (3) quality improvement/research).

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 2013, 40 family practice physicians with enhanced surgical skills were practicing in 14 communities in BC;³ about two-thirds of these were trained outside of Canada.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
- There are approximately 500 family medicine anesthesia providers in Canada.⁶ Specific numbers of GP anesthetists in BC were not available.

Table 1: BC RCPSC-Certified Surgery & Anesthesiology Specialists

Pediatric Surgery & Anesthesiology Specialists	BCCH	IH	FH	VCH	Is H	NH	Adult Surgery & Anesthesiologists Specialists
Anesthesia	23	2		1+1*	3		479
Cardiovascular/thoracic surgery	1						49
General/vascular surgery	5	1			2		276
Neurosurgery	3						45
Ophthalmology	13			1*	1		192
Orthopedics	8	1+1*	1*		2		225
Otolaryngology	6		2	4	3		94
Plastics	7	1			2		95
Urology	3	1		2			93
Total, excluding dental	69	7	3	9	13	0	1,548
Dental	12	Unkn	Unkn	Unkn	Unkn	Unkn	Unknown

* Also included in the BC Children's Hospital column (privileges at BCCH).

Notes:

1. Numbers represent number of physicians, not number of full-time equivalents (FTEs).
2. Many adult surgery and adult anesthesiology specialists do not perform surgery/provide anesthesia on children.

Sources:

1. BC Children's data: BC Children's Credentialing Office, 2020 (Active Members only).
2. Pediatric surgery & anesthesiology specialists elsewhere in BC: CHBC Coordinators worked with HA representatives to identify. The numbers are approximate and current as of June 2021.
3. Adult surgery specialists & anesthesiologists: Canadian specialty profiles, 2019.
https://www.cma.ca/sites/default/files/2019-11/2019-01-spec-prov_1.pdf

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 2019/20 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 2019/20, 40,980 visits (112 per day, including NICU visits) were made by children to a BC hospital for medical/surgical reasons (20,869 medical and 20,110 surgical visits for a 51%/49% split, based on the most responsible physician (MRP). Of these, 24,521 (67 per day or 60% of total visits) were inpatient visits (80% medical and 20% surgical visits).

27,749 procedures were performed during the 40,980 visits in 2019/20. Of these, 21,682 (78%) were performed by surgeons.

Of the 21,682 procedures performed by surgeons (refer to Tables 2 - 5 for details):

- 15,270 (71%) were performed on a surgical day care basis and 6,412 (29%) on inpatients.
- The highest number were dentistry (24% of total procedures), followed by otolaryngology (19%), orthopedic (14%) and general surgery (13%).
- 9,566 (44% of the total provincial procedures) were performed at Children's & Women's (C&W), 3,920 (18%) in Island Health, 3,188 (15%) in IH, 2,595 (12%) in FH, 1,680 (8%) in NHA and 733 (3%) in VCH.
- The highest number were performed on children living in FHA (33% 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 (48% of the total surgical visits vs 62% of the population) than in the other HAs.
- 67% 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 88% in VIHA). Children living in FHA were the least likely (34%).
 - Children requiring otolaryngology services were the most likely to access services in their home HA (83%), followed by oral surgery (72%), orthopedic surgery (72%) and dentistry (67%).
 - Services that children were most likely to travel to another HA to receive were neurosurgery (80% travelled to another HA) and cardiac surgery (76% travelled).

Table 2: Surgical Procedures, Children Ages 0 – 16.9 Yrs, by Surgical Specialty (CIHI, 2019/20)

Procedure MD	Procedures			% Total Procedures	% SDC/Total Procedures	C&W	% C&W/Total Procedures
	Inpatient	Day Surgery	Total				
Anaesthesiology	25	104	129	1%	81%	116	90%
Cardiac/Thoracic Surgery	289	12	301	1%	4%	277	92%
Dentistry	28	5,273	5301	24%	99%	2,139	40%
General Surgery	1,657	1,058	2715	13%	39%	1,257	46%
Gynaecology	67	160	227	1%	70%	49	22%
Neurosurgery	182	10	192	1%	5%	181	94%
Ophthalmology	59	1007	1066	5%	94%	801	75%
Oral Surgery	93	585	678	3%	86%	262	39%
Orthopaedic Surgery	1,417	1,655	3072	14%	54%	1,012	33%
Otolaryngology	1,065	3,074	4139	19%	74%	817	20%
Plastic Surgery	303	739	1042	5%	71%	533	51%
Radiology	996	418	1414	7%	30%	1,234	87%
Urology	231	1,175	1406	6%	84%	888	63%
Total Procedures	6,412	15,270	21,682	100%	70%	9,566	44%

Table 3: Surgical Procedures, Children 0 – 16.9 Yrs, by Surgical Specialty & HA of Treating Hospital (CIHI, 2019/20)

Procedure MD	HA of Treating Hospital								% Total Visits
	Interior	Fraser	Van Coastal	Van Island	Northern	Total, excl C&W	C&W	Total, incl C&W	
Anaesthesiology	4	2		5	2	13	116	129	1%
Cardiac/Thoracic Surgery	8	10	4	1	1	24	277	301	1%
Dentistry	1057	257	62	1157	629	3162	2,139	5301	25%
General Surgery	274	339	93	566	186	1458	1,257	2715	13%
Gynaecology	65	25	14	47	27	178	49	227	1%
Neurosurgery	5		4	2		11	181	192	1%
Ophthalmology	49	45	17	134	20	265	801	1066	4%
Oral Surgery	28	116	15	220	37	416	262	678	3%
Orthopaedic Surgery	514	574	195	477	300	2060	1,012	3072	14%
Otolaryngology	885	969	231	841	396	3322	817	4139	19%
Plastic Surgery	132	111	28	206	32	509	533	1042	5%
Radiology	77	5	15	68	15	180	1,234	1414	6%
Urology	90	142	55	196	35	518	888	1406	7%
Total Procedures	3,188	2,595	733	3,920	1,680	12,116	9,566	21,682	100%
% Total Procedures	15%	12%	3%	18%	8%	56%	44%	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 & Home Residence (CIHI, 2019/20)

Procedure MD	Child's Home Residence						Other	Total, incl Other
	Interior	Fraser	Van Coastal	Van Island	Northern	Total, excl Other		
Anaesthesiology	16	56	38	12	6	128	1	129
Cardiac/Thoracic Surgery	32	138	56	38	14	278	23	301
Dentistry	1097	1,412	542	1170	646	4867	434	5,301
General Surgery	419	964	446	601	247	2677	38	2,715
Gynaecology	66	55	24	48	29	222	5	227
Neurosurgery	25	81	33	37	13	189	3	192
Ophthalmology	110	458	223	187	68	1046	20	1,066
Oral Surgery	34	246	113	227	54	674	4	678
Orthopaedic Surgery	585	1,054	456	538	357	2990	82	3,072
Otolaryngology	989	1,254	580	879	416	4118	21	4,139
Plastic Surgery	181	368	180	228	73	1030	12	1,042
Radiology	226	564	333	169	103	1395	19	1,414
Urology	171	608	276	233	104	1392	14	1,406
Total Procedures	3,951	7,258	3,300	4,367	2,130	21,006	676	21,682
% Total Procedures	18%	33%	15%	20%	10%	97%		
Pop'n, 0 – 16.9 Yrs	126,217	345,503	160,343	126,529	56,663	815,255		
% Pop'n, 0 - 16.9 Yrs	15%	42%	20%	16%	7%	100%		

Table 5: % Surgical Procedures in Home HA for Children Ages 0 - 16.9 Yrs (CIHI, 2019/20)

Procedure MD	Child's Home Residence					
	IHA	FHA	VCH (see note below)	VIHA	NHA	Prov Avg
Anaesthesiology	25%	4%	100%	42%	33%	37%
Cardiac/Thoracic Surgery	19%	7%	98%	3%	7%	24%
Dentistry	95%	18%	96%	97%	94%	67%
General Surgery	63%	34%	97%	92%	74%	65%
Gynaecology	92%	45%	100%	98%	90%	81%
Neurosurgery	20%	0%	100%	3%	0%	20%
Ophthalmology	44%	7%	97%	69%	29%	42%
Oral Surgery	79%	41%	95%	95%	69%	72%
Orthopaedic Surgery	81%	52%	95%	86%	82%	72%
Otolaryngology	89%	71%	83%	94%	82%	83%
Plastic Surgery	71%	29%	96%	86%	44%	61%
Radiology	34%	1%	100%	40%	15%	35%
Urology	53%	23%	99%	82%	34%	52%
% Procedures in Home HA	79%	34%	95%	88%	75%	67%

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 109 hospitals in BC:

- Surgery was performed on children in 57/109 (52%) hospitals in 2019/20. If hospitals performing 5 or fewer procedures are excluded, 52/109 (48%) of hospitals performed surgery on children.
- Of the 52 hospitals where surgery was performed on children (>5 procedures per year):
 - 21/52 (40%) performed day care surgery only.
 - 22/52 (42%) performed fewer than 100 procedures, 27 performed between 100 and 1,000 procedures and 3/57 performed more than 1,000 procedures (BCCH, Victoria General and Surrey Memorial).
 - 20/52 (38%) have dedicated pediatric beds (see Appendix 5 for a listing) and collectively performed 83% 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/tiers-service/childrens-surgical-services>. 2013:1-15.
2. BC Medical Quality Initiative. Family practice enhanced surgical skills dictionary. [http://Bcmqi.ca/Published%20Dictionaries/FamilyPracticeEnhancedSurgicalSkills\(2017-11\).pdf](http://Bcmqi.ca/Published%20Dictionaries/FamilyPracticeEnhancedSurgicalSkills(2017-11).pdf). 2017:1-13. Accessed July 23, 2021.
3. Enhanced surgical skills (ESS) and obstetrical surgical skills (OSS) in Canada. <https://Ess.rccbc.ca/second-page/>. <https://ess.rccbc.ca/second-page>. Accessed July 23, 2021.
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5. BC Medical Quality Initiative. Family practice anesthesia dictionary. [http://Bcmqi.ca/Published%20Dictionaries/FamilyPracticeAnesthesia\(2017-11\).pdf](http://Bcmqi.ca/Published%20Dictionaries/FamilyPracticeAnesthesia(2017-11).pdf). 2017:1-9. Accessed July 23, 2021.
6. Orser, B et al. Improving Access to Safe Anesthetic Care in Rural and Remote Communities in Affluent Countries. *Anesthesia & Analgesia*. July 2019, vol 129, issue 1. p. 294 - 300. https://journals.lww.com/anesthesia-analgesia/Fulltext/2019/07000/Improving_Access_to_Safe_Anesthetic_Care_in_Rural.46.aspx. Accessed July 23, 2021.

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

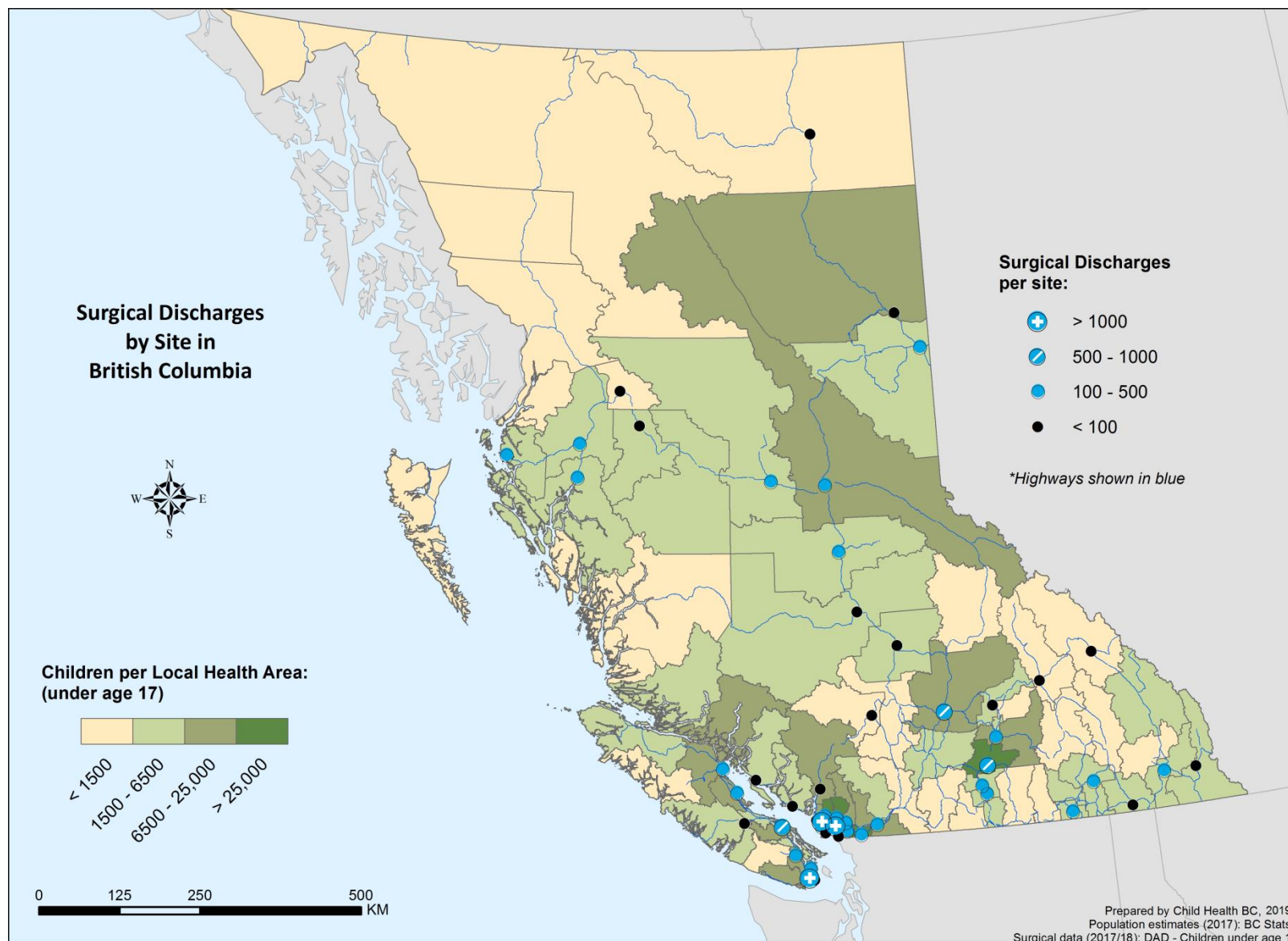
- Includes children ages 0 - 16.9 years.
- Surgical procedures: Procedures performed on children by a surgeon regardless of most responsible physician (MRP). Includes children in NICUs, PICUs, med/surg units and in day care settings.
- Med/surg visits and days: Visits and days sorted by MRP. Includes children in PICUs, med/surg units and in day care settings (excludes children in NICUs).
- Day care visits = Surgical or medical day care visits in which an anesthetic was provided.
- Medical and surgical data is for fiscal year 2019/2020. Source is the BC MoH Discharge Abstract Database.
- Emergency Department (ED) visits: Based on 2019/20 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% x total ED visits. 2019/20 MIS data was used for total ED visits.

HA/HSDA	Treating Hosp	ED Visits	Surgery							Medical				Med/Surg		Gen Ped Beds
			Day Care Procs	Inpt Procs	Total Procs	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	2,386	35		35	34		34		11	19	30	26	64	26	
	East Kootenay Reg Hosp	3,425	282	42	324	282	48	330	75		106	106	249	436	324	2
	Elk Valley Hosp	1,923	46		46	46		46		6	26	32	35	78	35	
	Elkford Health Centre	232														
	Golden and District Hosp	1,350	20		20	20		20		1	11	12	17	32	17	
	Invermere and District Hosp	1,735									9	9	22	9	22	
	Sparwood H Ctre	727														
Kootenay Boundary	Arrow Lakes Hosp	687									1	1	1	1	1	
	Boundary Hosp	1810									2	2	5	2	5	
	Castlegar and Distr Comm H Ctre	1685														
	Edgewood H Ctre	401														
	Kootenay Boundary Reg Hosp	2385	90	31	121	90	30	120	52	1	187	188	393	308	445	4
	Kootenay Lake Hosp	2062	142		142	142	1	143	1		36	36	67	179	68	
	Slocan Community H Ctre	299														
Okanagan	Victorian Comm H Ctr of Kaslo	184														
	Kelowna General Hosp	9,757	500	183	683	497	157	654	308	7	588	595	1,508	1249	1816	10
	Orchard Medical UPCC	457														
	Penticton Regional Hosp	5,624	47	41	88	47	36	83	63	2	148	150	282	233	345	
	Princeton General Hosp	1,099														
	South Okanagan Gen Hosp	2,532														
	South Similkameen Htlh Ctre	473														
	Summerland Mem Htlh Ctre		560		560	560		560						560		
	Vernon Jubilee Hosp	7,707	188	137	325	185	141	326	205	10	205	215	458	541	663	5
Thompson Cariboo Shuswap	Vernon UPCC	433														
	100 Mile District General Hosp	2,002								10	10	20	24	20	24	
	Alexis Creek H Ctre	240														
	Ashcroft Hosp & Comm H Ctre	297														
	Barriere H Ctre	200														
	Blue River H Ctre	29.85														
	Cariboo Memorial Hosp	2,911	83	4	87	83	5	88	7	1	95	96	242	184	249	
	Chase and District H Ctre	611														
	Dr. Helmcken Memorial Hosp	533		1	1		1	1	2		1	1	2	2	4	
	Kamloops Urg Family Care Ctr	1818														
	Lillooet Hosp And H Ctre	904	18		18	18		18		2	6	8	17	26	17	
	Nicola Valley H Ctre	2,158														
	Queen Victoria Hosp	1,358	46		46	46		46		5	7	12	19	58	19	
	Royal Inland Hosp	10,246	452	209	661	450	208	658	351	1	303	304	674	962	1025	9
	Shuswap Lake General Hosp	3,211	22	8	30	22	8	30	8	1	16	17	21	47	29	
St. Bartholomew's H Ctre	271															
Interior HA Total		76,162	2,531	656	3,187	2,522	635	3,157	1,072	58	1,776	1,834	4,062	4,991	5,134	30

HA/HSDA	Treating Hosp	ED Visits	Surgery							Medical				Med/Surg		Gen Ped Beds
			Day Care Procs	Inpt Procs	Total Procs	Day Care Visits	Inpt Visits	Total Visits	Total Days	Day Care Visits	Inpt Visits	Total Visits	Total Days	Total Visits	Total Days	
Fraser HA																
Fraser East	Abbotsford Reg Hosp & Cancer Ctr	12,210	304	200	504	304	211	515	323	1	957	958	2,308	1473	2631	12
	Chilliwack General Hosp	8,704	84	7	91	84	8	92	10		9	9	12	101	22	4
	Fraser Canyon Hosp	1,709														
	Mission Memorial Hosp	3,107														
Fraser North	Burnaby Hosp	7,595	1	1	2	1	2	3	2	1	36	37	73	40	75	
	Eagle Ridge Hosp	7,426	209		209	209		209			12	12	12	221	12	
	Ridge Meadows Hosp	6,827	194	47	241	194	53	247	88		11	11	13	258	101	4
	Royal Columbian Hosp	9,586	118	124	242	118	128	246	177	3	612	615	1,341	861	1,518	12
Fraser South	Delta Hosp	3,032	42	1	43	42	1	43	1		26	26	26	69	27	
	Jim Pattison Outpt Care & Surg Ctre		1		1	1		1		2		2		3		
	Langley Memorial Hosp	5,710	128	54	182	128	61	189	89		276	276	681	465	770	9
	Peace Arch District Hosp	5,816	1	1	2	1	1	2	1		1	1	1	3	2	
	Surrey Memorial Hosp	44,233	665	413	1,078	663	436	1,099	609	6	1,246	1,252	3,368	2,351	3,977	16
Fraser HA Total		115,955	1,747	848	2,595	1,745	901	2,646	1,300	13	3,186	3,199	7,835	5,845	9,135	57
Vancouver Coastal HA																
North Shore/Coast Garibaldi	Bella Coola General Hosp	555									10	10	21	10	21	
	Lions Gate Hosp	8,226	170	157	327	169	166	335	313	28	377	405	770	740	1,083	10
	Pemberton H Ctre	901														
	Powell River General Hosp	2,658	10	3	13	10	3	13	3		15	15	29	28	32	
	R.W. Large Memorial Hosp	605									11	11	24	11	24	
	Sechelt Hosp	2,564	13	2	15	13	2	15	3		19	19	37	34	40	
	Squamish General Hosp	2,223	91	1	92	44		44		52	23	75	29	119	29	
	Whistler H Ctre	2,930														
Richmond	Richmond Hosp	6,325	110	36	146	110	44	154	55		177	177	355	331	410	4
Vancouver	Mount Saint Joseph Hosp	1,111	12	3	15	12	4	16	6					16	6	
	St. Paul's Hosp	1,253	21	2	23	19	3	22	10	4	82	86	122	108	132	
	UBC Health Sciences Centre	1,733	35	16	51	35	16	51	16	2		2		53	16	
	Vancouver General Hosp	131	31	16	47	30	18	48	168	25	2	27	3	75	171	
Vancouver Coastal HA Total		31,215	493	240	733	442	256	698	574	111	716	827	1,390	1,525	1,964	14
Island HA																
Central Vancouver Island	Bamfield H Ctre	283														
	Chemainus Health Care Centre	1,368														
	Cowichan District Hosp	4,303	304	38	342	304	40	344	57		190	190	342	534	399	4
	Ladysmith Community H Ctre	2,614														
	Nanaimo Regional Gen Hosp	7,607	733	159	892	733	169	902	246		410	410	988	1,312	1,234	8
	Oceanside H Ctre	4,840														
	Tofino General Hosp	999									22	22	35	22	35	
	West Coast General Hosp	3,800	63	3	66	63	6	69	12	2	43	45	66	114	78	
North Vancouver Island	Cormorant Island Comm H Ctre	266									1	1	1	1	1	
	Gold River H Ctre	511														
	Kyuquot H Ctre	299														
	North Island Hosp/ Campbell River	2,843	123	37	160	123	29	152	33		87	87	230	239	263	1
	North Island Hosp - Comox	3,802	166	50	216	166	54	220	94	1	104	105	191	325	285	4
	Port Alice H Ctre	115														
	Port Hardy Hosp	1,415									10	10	30	10	30	
	Port McNeill And District Hosp	605									6	6	13	6	13	
	St. Joseph's General Hosp	0														
	Tahsis H Ctre	415														
South Vancouver Island	Lady Minto / Gulf Islds Hosp	1,650								1	5	6	6	6	6	
	Royal Jubilee Hosp	2,428	221	3	224	221	13	234	25		30	30	30	264	55	
	Saanich Peninsula Hosp	2,644	213		213	213		213						213		
	Victoria General Hosp	12,263	1,218	588	1,806	1,218	467	1,685	814	3	1,196	1,199	4,812	2,884	5,626	16
	Westshore UPCC	3,656														
Island HA Total		58,725	3,041	878	3,920	3,041	778	3,819	1,281	7	2,104	2,111	6,744	5,930	8,025	33

HA/HSDA	Treating Hosp	ED Visits	Surgery							Medical				Med/Surg		Gen Ped Beds
			Day Care Procs	Inpt Procs	Total Procs	Day Care Visits	Inpt Visits	Total Visits	Total Days	Day Care Visits	Inpt Visits	Total Visits	Total Days	Total Visits	Total Days	
Northern HA																
Northeast	Chetwynd General Hosp	1,094									5	5	13	5	13	
	Dawson Creek & District Hosp	3,237	79	5	84	79	4	83	11	52	62	114	84	197	95	
	Fort Nelson General Hosp	795	4		4	4		4			8	8	23	12	23	
	Fort St. John General Hosp	4,162	126	4	130	125	3	128	11	51	119	170	316	298	327	
	Hudson's Hope H Ctre	56														
	Tumbler Ridge H Ctre	407														
Northern Interior	Fraser Lake H Ctre	932														
	G.R. Baker Memorial Hosp	2,581	250	19	269	250	20	270	31	4	10	14	15	284	46	
	Lakes District Hosp and H Ctre	1,628									12	12	16	12	16	
	Mackenzie And District Hosp	963									6	6	8	6	8	
	McBride and District Hosp	281									2	2	3	2	3	
	St. John Hosp	1,945	112	9	121	112	4	116	4	19	36	55	58	171	62	
	Stuart Lake Hosp	914														
	The University Hosp of Nrthrn BC	6,416	348	69	417	345	65	410	157	13	449	462	1,294	872	1,451	12
Northwest	Valemount H Ctre	589														
	Atlin H Ctre	398														
	Bulkley Valley District Hosp	2,096	55	6	61	55	6	61	9	10	50	60	104	121	113	
	Haida Gwaii Hosp and H Ctre	426									4	4	5	4	5	
	Houston H Ctre	761														
	Kitimat General Hosp	2,018	90	2	92	90	2	92	2	1	23	24	39	116	41	
	Mills Memorial Hosp	3,338	254	27	281	253	24	277	41	2	108	110	265	387	306	
	Northern Haida Gwaii Hosp	611									4	4	8	4	8	
	Prince Rupert Regional Hosp	3,396	137	9	146	137	9	146	14	2	30	32	51	178	65	
	Stewart General Hosp	247														
	Stikine H Ctre	193														
Wrinch Memorial Hosp		1,111	75		75	75		75			9	9	13	84	13	
Northern HA Total		40,596	1,530	150	1,680	1,525	137	1,662	280	154	937	1,091	2,315	2,753	2,595	12
PHSA																
PHSA	B.C. Cancer Agency															
	B.C. Children's Hosp	47,387	5,922	3,334	9,256	5,920	2,189	8,109	8,703	914	3,704	4,618	22,615	12,727	31,318	97
	B.C. Women's Hospital		7	334	341	7		7			218	218	280	225	280	
PHSA Total		47,387	5,929	3,668	9,597	5,927	2,189	8,116	8,703	914	3,922	4,836	22,895	12,952	31,598	97
Grand Total		370,040	15,271	6,440	21,711	15,202	4,896	20,098	13,210	1,257	12,641	13,898	45,241	33,996	58,451	243

Appendix 2: Map of Pediatric Surgical Discharges in BC



Appendix 3: Surgical Procedures by Treating Hospital

- Includes children ages 0 - 16.9 years. Source is the BC MoH Discharge Abstract Database (19/20 fiscal year).
- 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
	<1.9 Yrs	2.0 - 5.9 Yrs	6.0 - 13.9 Yrs	14.0 - 16.9 Yrs	
Interior HA					
Cariboo Memorial Hospital		33	31	23	87
Dentistry		31	22	1	54
General Surgery		2	8	20	30
Gynaecology			1	2	3
Creston Valley Hospital	1	17	16	1	35
Dentistry		17	16		33
General Surgery				1	1
Radiology	1				1
Dr. Helmcken Memorial Hospital			1		1
Orthopaedic Surgery			1		1
East Kootenay Regional Hospital	1	103	172	49	325
Dentistry		10	11		21
General Surgery		3	12	14	29
Gynaecology	1		1	3	5
Orthopaedic Surgery		7	39	21	67
Otolaryngology		77	102	10	189
Radiology		1			1
Urology		5	7	1	13
Elk Valley Hospital		29	16	1	46
Dentistry		29	16	1	46
Golden and District Hospital		8	10	2	20
Dentistry		8	7		15
General Surgery			2		2
Orthopaedic Surgery			1	2	3
Kelowna General Hospital	70	169	267	177	683
Anaesthesiology	1	1	1		3
Cardiac/Thoracic Surgery			1	4	5
Dentistry		15	15	2	32
General Surgery	2	8	45	25	80
Gynaecology	2		2	17	21
Neurosurgery			2	1	3
Ophthalmology	9	20	13		42
Oral Surgery	1	4	4	7	16
Orthopaedic Surgery	1	16	59	48	124
Otolaryngology	19	62	57	23	161
Plastic Surgery	14	13	27	41	95
Radiology	7	21	27	7	62
Urology	14	9	14	2	39

Procedure MD	Age of Child				Total
	<1.9 Yrs	2.0 - 5.9 Yrs	6.0 - 13.9 Yrs	14.0 - 16.9 Yrs	
Kootenay Boundary Regional Hospital		16	70	35	121
General Surgery			11	5	16
Gynaecology				5	5
Orthopaedic Surgery		6	35	19	60
Otolaryngology		9	17	4	30
Plastic Surgery		1	2	1	4
Urology			5	1	6
Kootenay Lake Hospital		82	54	6	142
Dentistry		82	49	1	132
General Surgery				1	1
Gynaecology				2	2
Ophthalmology			5	1	6
Orthopaedic Surgery				1	1
Lillooet Hospital And Health Centre		11	7		18
Dentistry		11	7		18
Penticton Regional Hospital	7	15	45	21	88
General Surgery		3	8	6	17
Gynaecology			2	1	3
Orthopaedic Surgery		5	19	10	34
Otolaryngology	7	6	8	2	23
Radiology		1	1		2
Urology			7	2	9
Queen Victoria Hospital		8	28	10	46
Dentistry		8	21	5	34
Oral Surgery			7	4	11
Orthopaedic Surgery				1	1
Royal Inland Hospital	5	228	304	124	661
Anaesthesiology				1	1
Cardiac/Thoracic Surgery			1	2	3
Dentistry		103	83	14	200
General Surgery		1	23	8	32
Gynaecology	2		2	6	10
Neurosurgery				2	2
Orthopaedic Surgery		13	58	56	127
Otolaryngology		102	113	14	229
Plastic Surgery	1	4	13	15	33
Radiology	1	3	1	1	6
Urology	1	2	10	5	18
Shuswap Lake General Hospital		5	13	12	30
Dentistry		4	3		7
General Surgery		1	8	5	14
Gynaecology				4	4
Ophthalmology			1		1
Orthopaedic Surgery			1	3	4
Summerland Memorial Health Centre		276	267	17	560
Dentistry		246	214	5	465
Otolaryngology		30	53	12	95

Procedure MD	Age of Child				Total
	<1.9 Yrs	2.0 - 5.9 Yrs	6.0 - 13.9 Yrs	14.0 - 16.9 Yrs	
Vernon Jubilee Hospital	3	79	151	92	325
General Surgery	1	5	23	23	52
Gynaecology	1		1	10	12
Oral Surgery				1	1
Orthopaedic Surgery	1	11	39	41	92
Otolaryngology		60	85	13	158
Radiology		3	1	1	5
Urology			2	3	5
Interior HA Total	87	1,079	1,452	570	3,188
Fraser HA					
Abbotsford Reg Hosp and Cancer Ctre	2	151	263	88	504
Anaesthesiology	1				1
Dentistry		54	63	2	119
General Surgery	1	2	40	20	63
Gynaecology				6	6
Oral Surgery			5	3	8
Orthopaedic Surgery		33	83	37	153
Otolaryngology		52	49	9	110
Plastic Surgery		2	6	6	14
Radiology				1	1
Urology		8	17	4	29
Burnaby Hospital				2	2
Otolaryngology				1	1
Urology				1	1
Chilliwack General Hospital		17	41	33	91
General Surgery				6	6
Gynaecology				1	1
Ophthalmology		1	1		2
Oral Surgery			2	1	3
Orthopaedic Surgery			1	12	13
Otolaryngology		16	32	9	57
Urology			5	4	9
Delta Hospital				43	43
General Surgery				6	6
Ophthalmology				15	15
Oral Surgery				8	8
Orthopaedic Surgery				11	11
Otolaryngology				1	1
Plastic Surgery				1	1
Urology				1	1
Eagle Ridge Hospital		50	87	72	209
Dentistry		1	5		6
General Surgery				6	6
Oral Surgery			6	1	7
Orthopaedic Surgery		1	8	47	56
Otolaryngology		47	59	13	119
Plastic Surgery		1	7	2	10
Urology			2	3	5

Procedure MD	Age of Child				Total
	<1.9 Yrs	2.0 - 5.9 Yrs	6.0 - 13.9 Yrs	14.0 - 16.9 Yrs	
Jim Pattison Outpt Care and Surg Ctre			1		1
Plastic Surgery			1		1
Langley Memorial Hospital		21	91	70	182
General Surgery			17	12	29
Gynaecology			4	2	6
Ophthalmology			1		1
Oral Surgery		4	27	23	54
Orthopaedic Surgery		5	12	22	39
Otolaryngology		12	30	8	50
Urology				3	3
Peace Arch District Hospital				2	2
General Surgery				1	1
Urology				1	1
Ridge Meadows Hospital		89	106	46	241
Dentistry		71	54	1	126
General Surgery		1	18	8	27
Gynaecology			1	3	4
Orthopaedic Surgery		17	25	31	73
Urology			8	3	11
Royal Columbian Hospital	3	20	128	91	242
Anaesthesiology	1				1
Cardiac/Thoracic Surgery				2	2
General Surgery		1	30	24	55
Gynaecology			1	1	2
Ophthalmology	2				2
Oral Surgery				1	1
Orthopaedic Surgery		16	67	36	119
Otolaryngology		1	2		3
Plastic Surgery		1	27	25	53
Radiology		1			1
Urology			1	2	3
Surrey Memorial Hospital	18	280	557	223	1,078
Cardiac/Thoracic Surgery				8	8
Dentistry		2	4		6
General Surgery		10	83	53	146
Gynaecology			2	4	6
Ophthalmology	3	1	16	5	25
Oral Surgery		1	22	12	35
Orthopaedic Surgery		29	50	31	110
Otolaryngology	15	214	324	75	628
Plastic Surgery		12	12	8	32
Radiology				3	3
Urology		11	44	24	79
Fraser HA Total	23	628	1,274	670	2,595

Procedure MD	Age of Child				Total
	<1.9 Yrs	2.0 - 5.9 Yrs	6.0 - 13.9 Yrs	14.0 - 16.9 Yrs	
Vancouver Coastal HA					
Lions Gate Hospital		67	140	123	330
General Surgery		2	25	25	52
Gynaecology				9	9
Orthopaedic Surgery		4	44	56	104
Otolaryngology		61	58	16	135
Plastic Surgery			6	12	18
Radiology			4	2	6
Urology			3	3	6
Mount Saint Joseph Hospital			2	13	15
General Surgery				5	5
Ophthalmology			1	1	2
Otolaryngology				5	5
Urology			1	2	3
Powell River General Hospital		2	4	7	13
Dentistry		1	2	5	8
General Surgery		1	2	2	5
Richmond Hospital		11	94	41	146
General Surgery			9	6	15
Gynaecology			2	1	3
Orthopaedic Surgery		1	20	16	37
Otolaryngology		7	33	14	54
Plastic Surgery			4		4
Urology		3	26	4	33
Sechelt Hospital		2	12	2	16
Dentistry		2	4	1	7
General Surgery			7	1	8
Gynaecology			1		1
Squamish General Hospital		37	36	19	92
Dentistry		28	19		47
Orthopaedic Surgery			4	12	16
Otolaryngology		9	12	6	27
Plastic Surgery			1	1	2
St. Paul's Hospital			2	21	23
General Surgery				1	1
Orthopaedic Surgery				15	15
Otolaryngology			2	1	3
Plastic Surgery				2	2
Radiology				2	2
UBC Health Sciences Centre				51	51
Cardiac/Thoracic Surgery				1	1
Gynaecology				1	1
Neurosurgery				1	1
Ophthalmology				7	7
Oral Surgery				15	15
Orthopaedic Surgery				17	17
Otolaryngology				4	4
Plastic Surgery				2	2
Radiology				1	1
Urology				2	2

Procedure MD	Age of Child				Total
	<1.9 Yrs	2.0 - 5.9 Yrs	6.0 - 13.9 Yrs	14.0 - 16.9 Yrs	
Vancouver General Hospital		2	14	31	47
Cardiac/Thoracic Surgery				3	3
General Surgery			4	3	7
Neurosurgery				3	3
Ophthalmology			1	7	8
Orthopaedic Surgery				6	6
Otolaryngology			1	2	3
Radiology		1	2	3	6
Urology		1	6	4	11
Vancouver Coastal HA Total	0	121	304	308	733
Vancouver Island HA					
North Island Hosp - Campbell River	1	42	78	39	160
General Surgery			11	2	13
Gynaecology			2		2
Oral Surgery		2	7	12	21
Orthopaedic Surgery	1	9	24	11	45
Otolaryngology		30	26	5	61
Plastic Surgery		1	8	9	18
North Island Hosp - Comox Valley		70	98	48	216
Dentistry		19	24	6	49
General Surgery		3	12	6	21
Gynaecology			1	11	12
Ophthalmology		1	3		4
Orthopaedic Surgery		7	7	12	26
Otolaryngology		37	44	8	89
Urology		3	7	5	15
Cowichan District Hospital	1	162	126	54	343
Dentistry		111	43	2	156
General Surgery			8	16	24
Gynaecology	1		2	1	4
Oral Surgery				2	2
Orthopaedic Surgery		8	17	17	42
Otolaryngology		39	50	12	101
Plastic Surgery		1	1	2	4
Urology		3	5	2	10
Nanaimo Regional General Hospital	1	429	368	94	892
Anaesthesiology		1			1
Dentistry		334	213	5	552
General Surgery		3	30	16	49
Gynaecology			1	6	7
Ophthalmology		3			3
Oral Surgery		3	18	18	39
Orthopaedic Surgery	1	13	34	18	66
Otolaryngology		60	51	16	127
Plastic Surgery		11	14	12	37
Radiology		1		1	2
Urology			7	2	9

Procedure MD	Age of Child				Total
	<1.9 Yrs	2.0 - 5.9 Yrs	6.0 - 13.9 Yrs	14.0 - 16.9 Yrs	
Royal Jubilee Hospital		74	87	63	224
Dentistry		41	39	3	83
General Surgery				3	3
Ophthalmology		1	2	1	4
Oral Surgery		29	27	1	57
Orthopaedic Surgery				11	11
Otolaryngology				2	2
Plastic Surgery			10	34	44
Urology		3	9	8	20
Saanich Peninsula Hospital	1	85	99	28	213
Dentistry		84	80	5	169
General Surgery	1				1
Gynaecology				1	1
Orthopaedic Surgery		1	17	18	36
Plastic Surgery			2	4	6
Victoria General Hospital	316	601	635	254	1,806
Anaesthesiology	3	1			4
Cardiac/Thoracic Surgery			1		1
Dentistry	5	36	42	10	93
General Surgery	98	108	173	69	448
Gynaecology			3	18	21
Neurosurgery				2	2
Ophthalmology	14	52	46	11	123
Oral Surgery	2	55	31	13	101
Orthopaedic Surgery	10	37	122	82	251
Otolaryngology	82	216	134	29	461
Plastic Surgery	21	35	34	7	97
Radiology	22	21	16	7	66
Urology	59	40	33	6	138
West Coast General Hospital		29	35	2	66
Dentistry		28	27		55
General Surgery		1	6		7
Urology			2	2	4
Vancouver Island HA Total	320	1,492	1,526	582	3,920
Northern HA					
Bulkley Valley District Hospital	1	22	22	16	61
Dentistry		3		1	4
General Surgery			3	9	12
Orthopaedic Surgery			2	1	3
Otolaryngology	1	19	17	5	42
Dawson Creek and District Hospital		27	35	22	84
Dentistry		19	12		31
General Surgery		5	11	8	24
Gynaecology				8	8
Orthopaedic Surgery		2	12	6	20
Radiology		1			1
Fort Nelson General Hospital		1	3		4
Otolaryngology		1	3		4

Procedure MD	Age of Child				Total
	<1.9 Yrs	2.0 - 5.9 Yrs	6.0 - 13.9 Yrs	14.0 - 16.9 Yrs	
Fort St. John General Hospital		68	40	22	130
Dentistry		41	7		48
General Surgery		5	16	12	33
Gynaecology			1	1	2
Ophthalmology		5	4	2	11
Oral Surgery		1			1
Orthopaedic Surgery		2		3	5
Otolaryngology		14	12	3	29
Radiology				1	1
G.R. Baker Memorial Hospital		125	104	40	269
Dentistry		48	23	2	73
General Surgery		3	4	12	19
Orthopaedic Surgery			1	5	6
Otolaryngology		74	72	19	165
Plastic Surgery			3	2	5
Radiology			1		1
Kitimat General Hospital	3	28	37	24	92
Dentistry		23	19	1	43
General Surgery		2	2	2	6
Orthopaedic Surgery	3	3	16	21	43
Mills Memorial Hospital	1	129	123	28	281
Dentistry		101	60	8	169
General Surgery		3	15	10	28
Gynaecology		1	1	4	6
Ophthalmology		4	3		7
Otolaryngology	1	20	41	5	67
Urology			3	1	4
University Hosp of Northern BC	33	93	203	88	417
Anaesthesiology			1	1	2
Cardiac/Thoracic Surgery		1			1
Dentistry		29	28	6	63
General Surgery	7	10	24	5	46
Gynaecology	1	1	1	2	5
Ophthalmology	1		1		2
Oral Surgery	12	4	16	4	36
Orthopaedic Surgery	3	20	92	57	172
Otolaryngology	2	11	4	5	22
Plastic Surgery	4	8	9	4	25
Radiology	1	4	5	2	12
Urology	2	5	22	2	31
Prince Rupert Regional Hospital		57	59	30	146
Dentistry		44	20	1	65
General Surgery		1	10	7	18
Gynaecology				6	6
Orthopaedic Surgery		5	21	16	42
Otolaryngology		6	8		14
Plastic Surgery		1			1

Procedure MD	Age of Child				Total
	<1.9 Yrs	2.0 - 5.9 Yrs	6.0 - 13.9 Yrs	14.0 - 16.9 Yrs	
St. John's Hospital		46	60	15	121
Dentistry		31	27		58
Orthopaedic Surgery			2	7	9
Otolaryngology		15	31	7	53
Plastic Surgery				1	1
Wrinch Memorial Hospital		38	32	5	75
Dentistry		38	32	5	75
Northern HA Total	38	634	718	290	1,680
Provincial Health Services Authority					
B.C. Children's Hospital	1,633	3,080	3,384	1,128	9,225
Anaesthesiology	1	5	42	66	114
Cardiac/Thoracic Surgery	144	64	31	30	269
Dentistry	49	1,241	779	69	2,138
General Surgery	317	278	398	129	1,122
Gynaecology	1	9	20	12	42
Neurosurgery	59	27	62	21	169
Ophthalmology	142	337	259	52	790
Oral Surgery	2	15	173	72	262
Orthopaedic Surgery	36	167	527	280	1,010
Otolaryngology	146	260	315	76	797
Plastic Surgery	128	151	174	77	530
Radiology	350	271	304	173	1,098
Urology	258	255	300	71	884
B.C. Women's Hospital	334			7	341
Anaesthesiology	2				2
Cardiac/Thoracic Surgery	8				8
Dentistry	1				1
General Surgery	135				135
Gynaecology				7	7
Neurosurgery	12				12
Ophthalmology	11				11
Orthopaedic Surgery	2				2
Otolaryngology	20				20
Plastic Surgery	3				3
Radiology	136				136
Urology	4				4
PHSA Total	1,967	3,080	3,384	1,135	9,566
Grand Total	2,435	7,034	8,658	3,555	21,682
% Total Surgical Procedures	11%	32%	40%	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, 2019/20.
- 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).

		Child's Home Residence							
Procedure MD	HA of Treating Hospital	Interior	Fraser	Van Coastal	Van Island	Northern	Total, excl Other	Other	Total, incl Other
Pop'n, 0 - 16.9 Yrs		126,217	345,503	160,343	126,529	56,663	815,255		
Anaesthesiology	Interior	4					4		4
	Fraser		2				2		2
	Vancouver Coastal						0		0
	Vancouver Island				5		5		5
	Northern					2	2		2
	PHSA	12	54	38	7	4	115	1	116
	Total	16	56	38	12	6	128	1	129
	% treated in home HA	46%	5%	100%	50%	0%	33%		
	Per 1,000 pop'n children	0.1	0.2	0.2	0.1	0.1	0.2		
Cardiac/ Thoracic Surgery	Interior	6					6	2	8
	Fraser		9	1			10	0	10
	Vancouver Coastal		4				4	0	4
	Vancouver Island				1		1	0	1
	Northern					1	1		1
	PHSA	26	125	55	37	13	256	21	277
	Total	32	138	56	38	14	278	23	301
	% treated in home HA	8%	4%	100%	6%	0%	29%		
	Per 1,000 pop'n children	0.3	0.4	0.3	0.3	0.2	0.3		
Dentistry	Interior	1,043		3	2	6	1,054	3	1,057
	Fraser	1	252	4			257	0	257
	Vancouver Coastal			62			62	0	62
	Vancouver Island	1	2	13	1,132	1	1,149	8	1,157
	Northern	16	2	1	1	607	627	2	629
	PHSA	36	1,156	459	35	32	1,718	421	2,139
	Total	1,097	1,412	542	1,170	646	4,867	434	5,301
	% treated in home HA	94%	20%	99%	96%	94%	74%		
	Per 1,000 pop'n children	8.7	4.1	3.4	9.2	11.4	6.0		
General Surgery	Interior	262	2	2	1		267	7	274
	Fraser		327	7		2	336	3	339
	Vancouver Coastal		8	82			90	3	93
	Vancouver Island	4	1	3	550		558	8	566
	Northern	1				184	185	1	186
	PHSA	152	626	352	50	61	1,241	16	1,257
	Total	419	964	446	601	247	2,677	38	2,715
	% treated in home HA	58%	33%	98%	90%	73%	64%		
	Per 1,000 pop'n children	3.3	2.8	2.8	4.7	4.4	3.3		

Procedure MD	HA of Treating Hospital	Child's Home Residence							
		Interior	Fraser	Van Coastal	Van Island	Northern	Total, excl Other	Other	Total, incl Other
Gynaecology	Interior	61					61	4	65
	Fraser		25				25	0	25
	Vancouver Coastal		2	12			14	0	14
	Vancouver Island				47		47	0	47
	Northern					26	26	1	27
	PHSA	5	28	12	1	3	49	0	49
	Total	66	55	24	48	29	222	5	227
	% treated in home HA	93%	42%	100%	95%	94%	81%		
	Per 1,000 pop'n children	0.5	0.2	0.1	0.4	0.5	0.3		
Neuro-surgery	Interior	5					5	0	5
	Fraser	1	2	1			4	0	4
	Vancouver Coastal		1		1		2	0	2
	Vancouver Island						0	0	0
	Northern						0	0	0
	PHSA	19	78	32	36	13	178	3	181
	Total	25	81	33	37	13	189	3	192
	% treated in home HA	17%	4%	100%	16%	0%	22%		
	Per 1,000 pop'n children	0.2	0.2	0.2	0.3	0.2	0.2		
Ophthalmology	Interior	48					48	1	49
	Fraser	6	33	4	2		45	0	45
	Vancouver Coastal	3	8	6			17	0	17
	Vancouver Island		1	2	129	2	134	0	134
	Northern					20	20	0	20
	PHSA	53	416	211	56	46	782	19	801
	Total	110	458	223	187	68	1,046	20	1,066
	% treated in home HA	42%	5%	100%	74%	16%	40%		
	Per 1,000 pop'n children	0.9	1.3	1.4	1.5	1.2	1.3		
Oral Surgery	Interior	27					27	1	28
	Fraser		100	6		10	116	0	116
	Vancouver Coastal	1	13	1			15	0	15
	Vancouver Island				216	2	218	2	220
	Northern					37	37	0	37
	PHSA	6	133	106	11	5	261	1	262
	Total	34	246	113	227	54	674	4	678
	% treated in home HA	52%	41%	96%	95%	81%	71%		
	Per 1,000 pop'n children	0.3	0.7	0.7	1.8	1.0	0.8		
Orthopaedic Surgery	Interior	476	8	2	2	2	490	24	514
	Fraser	7	544	16	1	1	569	5	574
	Vancouver Coastal	2	28	148	7	1	186	9	195
	Vancouver Island		1	6	463		470	7	477
	Northern	3	2			291	296	4	300
	PHSA	97	471	284	65	62	979	33	1,012
	Total	585	1,054	456	538	357	2,990	82	3,072
	% treated in home HA	81%	48%	97%	84%	83%	73%		
	Per 1,000 pop'n children	4.6	3.1	2.8	4.3	6.3	3.7		

Procedure MD	HA of Treating Hospital	Child's Home Residence							
		Interior	Fraser	Van Coastal	Van Island	Northern	Total, excl Other	Other	Total, incl Other
Otolaryngology	Interior	877	1	1		5	884	1	885
	Fraser	3	888	75	1		967	2	969
	Vancouver Coastal	2	35	190	3		230	1	231
	Vancouver Island			13	825	1	839	2	841
	Northern	42	4	8	1	341	396	0	396
	PHSA	65	326	293	49	69	802	15	817
	Total	989	1,254	580	879	416	4,118	21	4,139
	% treated in home HA	87%	69%	86%	93%	85%	82%		
	Per 1,000 pop'n children	7.8	3.6	3.6	6.9	7.3	5.1		
Plastic Surgery	Interior	129	2			1	132	0	132
	Fraser	1	107	2	1		111	0	111
	Vancouver Coastal	1	2	24	1		28	0	28
	Vancouver Island	1	1	6	195	1	204	2	206
	Northern					32	32	0	32
	PHSA	49	256	148	31	39	523	10	533
	Total	181	368	180	228	73	1,030	12	1,042
	% treated in home HA	74%	30%	98%	85%	50%	62%		
	Per 1,000 pop'n children	1.4	1.1	1.1	1.8	1.3	1.3		
Radiology	Interior	77					77	0	77
	Fraser		5				5	0	5
	Vancouver Coastal	1	4	8			13	2	15
	Vancouver Island	1			67		68	0	68
	Northern					15	15	0	15
	PHSA	147	555	325	102	88	1,217	17	1,234
	Total	226	564	333	169	103	1,395	19	1,414
	% treated in home HA	16%	2%	100%	42%	11%	33%		
	Per 1,000 pop'n children	1.8	1.6	2.1	1.3	1.8	1.7		
Urology	Interior	90					90	0	90
	Fraser		142				142	0	142
	Vancouver Coastal		26	22	2	5	55	0	55
	Vancouver Island	1	1	2	192		196	0	196
	Northern					35	35	0	35
	PHSA	80	439	252	39	64	874	14	888
	Total	171	608	276	233	104	1,392	14	1,406
	% treated in home HA	58%	23%	99%	80%	35%	52%		
	Per 1,000 pop'n children	1.4	1.8	1.7	1.8	1.8	1.7		
All Procedures	Interior	3,105	13	8	5	14	3,145	43	3,188
	Fraser	18	2,434	115	5	13	2,585	10	2,595
	Vancouver Coastal	11	132	556	13	6	718	15	733
	Vancouver Island	8	8	45	3,823	7	3,891	29	3,920
	Northern	62	8	9	2	1,591	1,672	8	1,680
	PHSA	747	4,663	2,567	519	499	8,995	571	9,566
	Total	3,951	7,258	3,300	4,367	2,130	21,006	676	21,682
	% treated in home HA	79%	34%	95%	88%	75%	67%		
	Per 1,000 pop'n children	31.3	21.0	20.6	34.5	37.6	25.8		

Appendix 5: HA Operated Pediatric Inpatient Beds in BC

HA	Hospital	General Pediatric Beds	Pediatric Observation Beds	Ped ICU Beds ⁱ	Child & Youth MH Beds	Youth SU Beds ⁱⁱ	Total Ped Beds	NICU Beds
IHA	Kelowna General	10			8		18	12
	Kootenay Boundary (Trail)	4					4	
	East Kootenay (Cranbrook)	2					2	
	Vernon	5					5	
	Royal Inland	9			2		11	8
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 ⁱⁱⁱ
	Burnaby							8
	Creekside Withdrawal Management Centre					6	6	
	Last Door Recovery Centre					10 ^{iv}	10	
VCHA	Lions Gate & Carlile Centre	10			10		20	9
	Richmond		4				4	6
	St Paul's							9
	Peak House					8	8	
	Young Bears Lodge					5	5	
Island HA	Nanaimo Regional	8					8	9
	St Joseph's General	4					4	
	Victoria General/Ledger House	16		5	14 ^v		35	22
	Cowichan District (Duncan)	4					4	
	Campbell River	1					1	
NHA	University Hospital of Northern B.C.	12 ^{vi}			6 ^{vii}		18	9
	Nechako Centre					8 ^{viii}	8	
PHSA	B.C. Children's Hospital	97		22	54 ^{ix}		173	
	BC Women's							60
	Ashnola (Keremeos)					22 ^x	22	
TOTAL		231	12	27	114	59	443	214

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

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.

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

ⁱⁱ Excludes beds in home-based settings.

ⁱⁱⁱ Plan to increase to 48 beds in the future.

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

^v 14 beds: 5 child, 6 youth & 3 special care (assessment/stabilization) beds.

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

^{vii} 2 beds for planned admissions and 4 for crisis stabilization.

^{viii} Includes 1 detox bed.

^{ix} 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.

^x Includes beds for ages 17 - 24.