

SETTING  
THE STAGE

# CHILDREN'S MEDICAL SERVICES

APRIL 2017

[childhealthbc.ca](http://childhealthbc.ca)

**CHILD  
HEALTH**  **Bc**  
LEAD BENEFACTOR  
**saveonfoods**

# Children’s Medical Services: Setting the Stage for Tiers Development

## Contents

1.0	Providers of Children's Medical Services .....	2
2.0	Utilization of Medical Services by Children .....	3
2.1	Health System Matrix Data.....	4
2.2	Inpatient and Day Care Visits.....	4
2.2.1	Major Clinical Category (MCC) Groupings .....	4
2.2.2	Most Responsible Physician (MRP) Groupings .....	5
2.2.3	Ages of Children.....	7
2.2.4	Involvement of Specialists/Subspecialists .....	7
2.2.5	HA of Treating Hospital versus Location of Child's Home Residence.....	9
3.0	References .....	10
	Appendix 1: ED and Med/Surg Visits and Days by Facility.....	11
	Appendix 2: Map of Pediatric Medical Discharges in BC .....	14
	Appendix 3: Pediatric Inpatient Beds in B.C. ....	15

### HOW TO CITE THE CHILDREN’S MEDICAL 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:

Child Health BC. *Children’s Medical Services*. Vancouver, BC: Child Health BC, April 2017.

Child Health BC acknowledges the principle authors, O’Donnell M, Williams, J and the contribution of the Medicine Working Group members: Abelson W, Aird N, Arruda W, Begg J, Brown D, DeGroot J, Dewan T, Dohm B, Fryer M, Husband D, Kazeil S, Macdonald A, Matthews ML, O’Donnell M, Pleydell-Pearce J, Poynter A, Prevost D, Scarr J, Scott L, Shum J, Simons J, Swartz E, Warf C, Watt E, Whitehouse S, Wilkins J, Williams J.

## Children’s Medical Services: Setting the Stage for Tiers Development

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

1. *Children's Medical Services: Setting the Stage for Tiers Development (this document)*
2. Children's Medical Services: Tiers in Brief to Support System Planning (high-level description of the tiers, including responsibilities and requirements)
3. Children's Medical Services: Tiers in Full to Support Operational Planning (detailed description of the responsibilities and requirements at each tier)

### 1.0 Providers of Children's Medical Services

Children's medical services are provided by family physicians (FPs), nurse practitioners (NPs), pediatricians and pediatric medical subspecialists, in partnership with nurses, allied health and other members of the health care team.

#### FPs/NPs

There are an estimated 5,852 family medicine physicians in BC, almost 90% of which are urban-based.<sup>1</sup> There are also 315 NPs.<sup>2</sup> Of these, a small proportion (~10 - 15) are pediatric NPs and the rest are family or adult NPs. Most or all pediatric NPs are based at BCCH.

#### Pediatricians

BC has ~175 general pediatricians,<sup>3</sup> which translates into an average of 2.2 pediatricians per 10,000 children.<sup>1</sup> Per population rates are highest in Vancouver Coastal and lowest in Fraser Health and Northern Health. Of the ~175 general pediatricians, ~30 have privileges at BCCH. See Table 1.

**Table 1: BC General Pediatricians & Pediatricians/10,000 Population, Ages 0-16.9 Yrs**

HA	Population, Children Ages 0-16.9	General Pediatricians	General Pediatricians/ 10,000 Children
Interior Health	115,792	27	2.3
Fraser Health	329,166	52	1.6
Vancouver Coastal	168,236	61	3.6
Island Health	116,317	26	2.2
Northern Health	58,442	9	1.5
<b>Total BC</b>	<b>784,953</b>	<b>175</b>	<b>2.2</b>

<sup>i</sup> The number of general pediatricians was calculated by subtracting the pediatricians known to be practising in subspecialty areas from the total number of pediatricians practising in BC.

## Pediatric Medicine Subspecialists

Pediatric medicine subspecialists are trained as pediatricians and then undertake additional training in a specific field to become a pediatric subspecialist. See Table 2 for information about the numbers, types and distribution of pediatric subspecialists practicing in BC.

**Table 2: BC Pediatric Medicine Subspecialists**

Pediatric Subspecialists	BC Children's (Active Members only)	Elsewhere in BC
Adolescent Medicine	4	2 (Burnaby & Langley);
Allergy & Immunology	6	3 (2 in Surrey/White Rock; 1 in Richmond)
Biochemical Diseases	6	
Cardiology	7 (1 works in both Victoria & at BCCH)	2 (1 works in both Victoria & at BCCH; 1 in Fraser Health)
Critical Care	6	3 (Victoria)
Dermatology	3	
Developmental Pediatrics	15	2 (Victoria, Surrey)
Endocrinology & Metabolism	7	4 (3 in Fraser Health & 2 in North Shore/Fraser/Island Health)
Gastroenterology	7	2 (North Shore & Downtown Van)
Infectious Diseases	7	
Nephrology	7	1 (Surrey)
Neurology	12	2 (Abbotsford & Victoria)
Oncology / Hematology	14	2 (Surrey & Victoria)
Respirology	4	2 (Victoria & Langley)
Rheumatology	6	2 (Fraser Health & Penticton)

Source: Information provided by BCCH credentialing office and Children's Medicine Tiers of Service Working Group.

### Notes:

1. Numbers represent number of physicians, not number of full-time equivalents (FTEs).
2. BCCH includes active members only.

## 2.0 Utilization of Medical Services by Children

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 - 3.

Section 2.1 provides high-level data on health services utilization by BC children while section 2.2 focuses specifically on inpatient and day care utilization. Unfortunately no comparable provincial-level data exists for hospital outpatient or community-based services.

## 2.1 Health System Matrix Data

Unfortunately, there is limited child-specific data available on the utilization of health care services. The Ministry of Health's (MOH) Health System Matrix database<sup>15</sup> is the most comprehensive source. This database was primarily established to track the utilization of *adult* health care services, although the data is reportable by age groups which *include children*. Costs included in the Health System Matrix costs represent \$9/\$14 billion (65%) of the MOH's total health care expenditures. The \$5 billion (35%) costs that are not represented include: physicians on alternative payments; emergency department and outpatient clinic services; community mental health services; and population health services. *Anecdotal reports suggest the latter group of expenditures is a significant and growing proportion of expenditures for children as services shift from inpatient to outpatient and community-based.*

The Health System Matrix data suggests that most children in BC are healthy and require little or no health care services. In 2009/10, 82% of children had little or no contact with the health care system.<sup>ii</sup> Health care expenditures for children totaled \$493 million<sup>iii</sup> (\$570 per child) of which 54% was for hospital services (see details in next paragraph), 42% for physician services and 4% for Pharmacare. This excludes the services noted in the paragraph above and \$500,000 in annual health care costs funded by the Ministry of Children and Family Development (MCFD).

## 2.2 Inpatient and Day Care Visits

Data is for 2014/15 and children ages 0 - 16.9 years. Figures exclude NICU babies unless specified (PICU babies are included).

In 2014/15, 35,468 visits (100 per day, excluding NICU visits) were made by children to a BC hospital for medical/surgical reasons (40% or 14,232 medical visits and 60% or 21,236 surgical visits). Of these, 18,356 (50 per day or 51% of total visits) were inpatient visits (71% medical and 29% surgical visits).

Highlights of the data are provided in the next section. Detailed data and a visual representation (map) are available in Appendices 1 and 2.

### 2.2.1 Major Clinical Category (MCC) Groupings

Of the 14,232 medical visits, the primary reason for the visits was for:

- Diseases of the respiratory system (25%): Respiratory infections were the most common reason, followed by asthma.
- Conditions originating in the perinatal period (12%): Jaundice was the most common reason.

<sup>ii</sup> The Health System Matrix defines this as using the health care system at a value of less than \$1,500 worth of MD visits or \$1,000 worth of prescription medications per child per year.

<sup>iii</sup> This figure would increase to \$760 million or \$880 per child if the 35% of expenditures not included in the Health System Matrix were included.

- Diseases of the digestive system (9%): Non-severe enteritis was the most common reason, followed by other signs/symptoms of digestive disorders.
- See Table 3.

**Table 3: Visits by Major Clinical Category (MCC), Children Ages 0 - 16.9 Yrs, CIHI, 2014/15**

Major Clinical Category	Visits		Major Clinical Category	Visits	
	#	%		#	%
Diseases & Disorders of the Respiratory System	3,523	25%	Other Reasons for Hospitalization	298	2%
Newborns & Neonates with Conditions Originating in Perinatal Period	1,701	12%	Diseases & Disorders of the Skin, Subcutaneous Tissue & Breast	280	2%
Diseases & Disorders of the Digestive System	1,265	9%	Diseases & Disorders of the Circulatory System	261	2%
Diseases & Disorders of the Nervous System	1,133	8%	Diseases & Disorders of the MS System & Connective Tissue	220	2%
Diseases & Disorders of Ear, Nose, Mouth & Throat	891	6%	Diseases & Disorders of the Hepatobiliary System & Pancreas	93	1%
Diseases & Disorders of the Blood & Lymphatic System	830	6%	Diseases & Disorders of the Eye	70	0%
Significant Trauma, Injury, Poisoning & Toxic Effects of Drugs	741	5%	Other	57	0%
Diseases & Disorders of the Endocrine System, Nutrition & Metabolism	635	4%	Blank (not identified)	1,118	8%
Multisystemic or Unspecified Site Infections	580	4%	<b>Total Medical Visits</b>	<b>14,232</b>	<b>100%</b>
Diseases & Disorders of the Kidney, Urinary Tract & Male Reproductive System	536	4%			

### 2.2.2 Most Responsible Physician (MRP) Groupings

Visits in this section are grouped by Most Responsible Physician (MRP). Please exercise caution in reviewing the visits for an individual service because they may be under or overstated for 2 reasons:

1. MRP reflects the service of the physician that provided the "majority of care" during a child's stay. The MRP is identified through a post-discharge review of the health record (e.g., physician that wrote the most orders, made the most progress notes, wrote the discharge order, etc). Depending on the proportion of care provided by a given physician service and the child's length of stay, visits may be over or understated for a particular service. This is particularly significant for a service such as critical care medicine when the majority of children are transferred to other physician services after they transfer out of PICU (thus the visit is attributed to the other physician service). In reality, there were 1,748 visits to PICU/ICU in 2014/15 (1,035 medicine and 713 surgical visits). This is significantly higher than the 301 critical care medicine visits that are identified when the visits are grouped by the MRP.
2. Many children are admitted under a family physician/pediatrician but their care is directed or guided by a subspecialist(s). These visits would be attributed to family physicians/pediatricians and not the subspecialist(s).

Of the 14,232 medical visits in 2014/15, 79% had a pediatrician or GP as their MRP (66% and 13% respectively) and 5% had a gastroenterologist or hematologist/oncologist (5% each). See Table 4. Of the total visits, 13,114 (92%) visits were inpatients and 1,118 (8%) were day care patients.

**Table 4: Visits (Inpatient + Day Care) by MRP, Children Ages 0 - 16.9 Yrs, CIHI, 2014/15**

Most Responsible MD	Visits		Most Responsible MD	Visits	
	#	%		#	%
General Paediatrics	9,363	66%	Dermatology	93	1%
Family Practice/General Practice	1,833	13%	Nephrology	88	1%
Gastroenterology	769	5%	Respirology	85	1%
Haematology/Oncology	717	5%	Internal Medicine	56	0%
Neurology	423	3%	Endocrinology & Metabolism	45	0%
Cardiology	353	2%	Rheumatology	6	0%
Critical Care Medicine	301	2%	Other	4	0
Neonatal-Perinatal Medicine	96	1%	<b>Total Medical Visits</b>	<b>14,232</b>	<b>100%</b>

Note:

1. The MRP may be a pediatric or an adult specialist (e.g., for "neurology visits," a pediatric or an adult neurologist may be the MRP).

33% of total admissions were to C&W while 67% were to hospitals in regional HAs. See Table 5.

**Table 5: Visits (Inpatient + Day Care) by MRP & HA of Treating Hospital, Children Ages 0 - 16.9 Yrs, CIHI, 2014/15**

Most Responsible MD	HA of Treating Hospital						Total, excl C&W	C&W	Total, Incl C&W	% Visits
	IHA	FHA	VCHA	VIHA	NHA					
General Paediatrics	1,464	2,983	692	1,814	541	7,494	1,869	9,363	66%	
Family Practice/General Practice	471	277	129	209	725	1,811	22	1,833	13%	
Gastroenterology	26	16	6	9		57	712	769	5%	
Haematology/Oncology			1			1	716	717	5%	
Neurology	1	1				2	421	423	3%	
Cardiology			11	2		13	340	353	2%	
Critical Care Medicine	1				1	2	299	301	2%	
Neonatal-Perinatal Medicine		94				94	2	96	1%	
Dermatology						0	93	93	1%	
Nephrology			1			1	87	88	1%	
Respirology		1	2			3	82	85	1%	
Internal Medicine	12	8	8	5	23	56		56	0%	
Endocrinology & Metabolism						0	45	45	0%	
Rheumatology						0	6	6	0%	
Other			2	1		3	1	4	0%	
<b>Total visits</b>	<b>1,975</b>	<b>3,380</b>	<b>852</b>	<b>2,040</b>	<b>1,290</b>	<b>9,537</b>	<b>4,695</b>	<b>14,232</b>	<b>100%</b>	
<b>% total visits</b>	<b>14%</b>	<b>24%</b>	<b>6%</b>	<b>14%</b>	<b>9%</b>	<b>67%</b>	<b>33%</b>	<b>100%</b>		

Note:

1. The MRP may be a pediatric or an adult specialist (e.g., for "neurology visits," a pediatric or an adult neurologist may be the MRP).

### 2.2.3 Ages of Children

Of the 14,232 medical visits, the highest percentage relative to the population was in children less than two years old. See Table 6.

**Table 6: Visits (Inpatient + Day Care) by MRP & Age of Child, Children Ages 0 - 16.9 Yrs, CIHI, 2014/15**

Most Responsible MD	Visits				
	< 6 Mos	6 Mos - 1.9 Yrs	2.0 - 13.9 Yrs	14.0 - 16.9 Yrs	Grand Total
General Paediatrics	2,658	1,922	4,002	781	9,363
Family Practice/General Practice	398	254	826	355	1,833
Gastroenterology	20	31	465	253	769
Haematology/Oncology	16	65	530	106	717
Neurology	33	52	273	65	423
Cardiology	114	46	129	64	353
Critical Care Medicine	71	52	141	37	301
Neonatal-Perinatal Medicine	35	20	35	6	96
Dermatology		18	68	7	93
Nephrology	12	12	47	17	88
Respirology	3	4	56	22	85
Internal Medicine			3	53	56
Endocrinology & Metabolism	2	6	28	9	45
Rheumatology			4	2	6
Other		1	1	2	4
<b>Total visits</b>	<b>3,362</b>	<b>2,483</b>	<b>6,608</b>	<b>1,779</b>	<b>14,232</b>
<b>% total visits</b>	<b>24%</b>	<b>17%</b>	<b>46%</b>	<b>13%</b>	<b>100%</b>
Pop'n, 0 – 16.9 Yrs	89,897		551,148	143,908	784,953
<b>% Pop'n, 0 - 16.9 Yrs</b>	<b>11%</b>		<b>70%</b>	<b>18%</b>	<b>100%</b>

Note:

1. The MRP may be a pediatric or an adult specialist (e.g., for "neurology visits," a pediatric or an adult neurologist may be the MRP).

### 2.2.4 Involvement of Specialists/Subspecialists

#### Specialists/Subspecialists as Most Responsible Physician (MRP) - Inpatients

This section provides data on inpatient visits in which a specialist/subspecialist was the MRP. For the reasons cited in the previous section, visits for pediatrics and family practice will be overstated and visits for subspecialists will be understated.

Of the 14,232 medical visits, 13,114 were inpatient visits (excludes babies in NICU). Of the 13,114 inpatients, 83% had a pediatrician or family physician as the MRP (10,967/13,114 or 83%). See Table 7.



**Table 7: Inpatient Visits by MRP & Age of Child, Children Ages 0 - 16.9 Yrs, CIHI, 2014/15**

Most Responsible MD	Ages					C&W (incl in total)
	< 6 mos	6 mos - 1.9 Yrs	2.0 - 13.9 Yrs	14.0 - 16.9 Yrs	Total	
<b>Inpatients</b>						
General Paediatrics	2,658	1,922	3,993	751	9,324	1,868
Family Practice/General Practice	398	252	666	327	1,643	22
Haematology/Oncology	16	65	525	104	710	709
Neurology	33	49	273	63	418	416
Critical Care Medicine	71	52	141	37	301	299
Cardiology	104	33	60	32	229	225
Gastroenterology	19	13	67	57	156	155
Neonatal-Perinatal Medicine	35	20	35	6	96	2
Nephrology	12	12	47	17	88	87
Respirology	3	3	49	21	76	73
Endocrinology & Metabolism	2	6	28	9	45	45
Internal Medicine			1	19	20	0
Rheumatology			4	2	6	6
Other		1	0	1	2	1
<b>Inpatients, total</b>	<b>3,351</b>	<b>2,428</b>	<b>5,889</b>	<b>1,446</b>	<b>13,114</b>	<b>3,908</b>
<b>Day care, total</b>	<b>11</b>	<b>55</b>	<b>719</b>	<b>333</b>	<b>1,118</b>	<b>787</b>
<b>Grand total</b>	<b>3,362</b>	<b>2,483</b>	<b>6,608</b>	<b>1,779</b>	<b>14,232</b>	<b>4,695</b>

### Medical Specialist/Subspecialist as a Consultant, not MRP - Inpatients

This section provides data about the involvement of specialists/subspecialists as the consulting physician (but not the MRP). Because a significant proportion of the consulting workload for subspecialists involves the NICU, consultations on babies in NICU were included in this data.

- Of the 40,771 medical and surgical visits (includes NICU visits), 23,659 were inpatients (includes NICU visits).
- Of the 23,659 inpatients, children received a total of 5,883 consultations: 3,712 consultations from medical program physicians, 1,997 from surgical program physicians and 174 from psychiatrists.
- Of the consultations by medical program physicians (n=3,712):
  - 38% (1,429) were consultations by pediatricians, family physicians, critical care medicine and neonatology/perinatology specialists.
  - 67% (2,475) were on children at C&W.
  - 62% (2,283) were consultations by a range of other medical specialists/subspecialists.
    - Most were on children at C&W (2,145/2,283 or 94%).
    - Of the 138 (6%) completed on children outside C&W:
      - 60% (82/138) were at Surrey Memorial (n=56) or Victoria General (n=26) Hospitals.
      - 39% (58/138) were consultations on children ages 14.0 - 16.9 years.
- See Table 8.

**Table 8: Inpatient Consultations by Specialist/Subspecialist, Children Ages 0 - 16.9 Yrs, CIHI, 2014/15**

Consulting MD	Age					C&W (incl in total)
	< 6 Mos	6 mos - 1.9 Yrs	2.0 - 13.9 Yrs	14.0 - 16.9 Yrs	Total	
General Paediatrics	764	72	220	71	1,127	215
Family Practice/General Practice	16	4	24	18	62	1
Neonatal-Perinatal Medicine	120	9	7	1	137	17
Critical Care Medicine	19	21	51	12	103	97
<b>Sub-total</b>	<b>919</b>	<b>106</b>	<b>302</b>	<b>102</b>	<b>1,429</b>	<b>330</b>
Adolescent Medicine			3	19	22	22
Cardiology	415	50	116	32	613	580
Neurology	169	49	110	36	364	345
Infectious Diseases	72	32	135	47	286	280
Endocrinology & Metabolism	67	7	51	28	153	151
Medical Genetics	129	13	10	1	153	135
Haematology/Oncology	44	12	57	20	133	130
Gastroenterology	32	16	50	33	131	113
Respirology	20	27	50	8	105	103
Nephrology	35	12	33	14	94	93
Dermatology	18	10	34	15	77	77
Rheumatology	2	4	41	11	58	58
Clinical Immunology & Allergy	8	6	16	5	35	35
Internal Medicine			7	22	29	
Physical Medicine & Rehabilitation	1	3	15	10	29	22
<b>Sub-total</b>	<b>1,012</b>	<b>241</b>	<b>729</b>	<b>301</b>	<b>2,283</b>	<b>2,145</b>
<b>Grand total</b>	<b>1,931</b>	<b>347</b>	<b>1,031</b>	<b>403</b>	<b>3,712</b>	<b>2,475</b>

## 2.2.5 HA of Treating Hospital versus Location of Child's Home Residence

Of the 14,232 medical visits:

- 33% (4,695) were to C&W and 24% to hospitals in FH (3,380).
- 78% of children accessed services in a hospital in their home HA. This ranged from 62% of children living in FH to 97% living in VCH.
- See Table 9.

Table 9: HA of Treating Hospital versus Location of Child's Home Residence (CIHI, 2014/15)

HA of Treating Hospital	Medical Visits (Inpatient & Day Care)								
	Child's Home Residence					Total Visits, excl Other	Other	Total Visits, incl Other	% Prov Visits
	IHA	FHA	VCH	VIHA	NHA				
IHA	1,873	23	9	6	7	1,918	57	1,975	14%
FHA	15	3,281	45	5	4	3,350	30	3,380	24%
VCH	3	85	742	4	1	835	17	852	6%
C&W	428	1,933	1,691	332	207	4,591	104	4,695	33%
VIHA	3	8	10	1,998	4	2,023	17	2,040	14%
NHA	6	1	3		1,258	1,268	22	1,290	9%
<b>Total medical visits</b>	2,328	5,331	2,500	2,345	1,481	13,985	247	14,232	100%
<b>% treated in home HA</b>	80%	62%	97%	85%	85%	78%			
% medical visits	17%	38%	18%	17%	11%	100%			
Pop'n, 0 – 16.9 Yrs	115,792	329,166	165,236	116,317	58,442	784,953			
<b>% Pop'n, 0 - 16.9 Yrs</b>	<b>15%</b>	<b>42%</b>	<b>21%</b>	<b>15%</b>	<b>7%</b>	<b>100%</b>			

*Note:*

For the purposes of this table, children from VCH that were admitted to either a VCH hospital or BCCH were assumed to have received the service in their home HA.

In BC, there are 21 hospitals with designated pediatric beds (see Appendix 3 for a listing), for a total of 367 beds (254 med/surg pediatric beds). In 2014/15, 86% (12,296/14,232) of medical visits and 93% (42,904/45,969) of medical inpatient days were to one of these hospitals.

### 3.0 References

1. Canadian Institute for Health Information. Supply, distribution and migration of Canadian physicians, 2015. <https://secure.cihi.ca/estore/productFamily.htm?pf=PFC3269&lang=en&media=0>. Accessed October 16, 2016.
2. Canadian Institute for Health Information. Registered Nurses, Data Table, 2015. <https://secure.cihi.ca/estore/productFamily.htm?locale=en&pf=PFC3152>. Accessed October 16, 2016.
3. BC College of Physicians and Surgeons. Physician database. [https://www.cpsbc.ca/physician\\_search](https://www.cpsbc.ca/physician_search). Updated 2015. Accessed October 8, 2016.

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

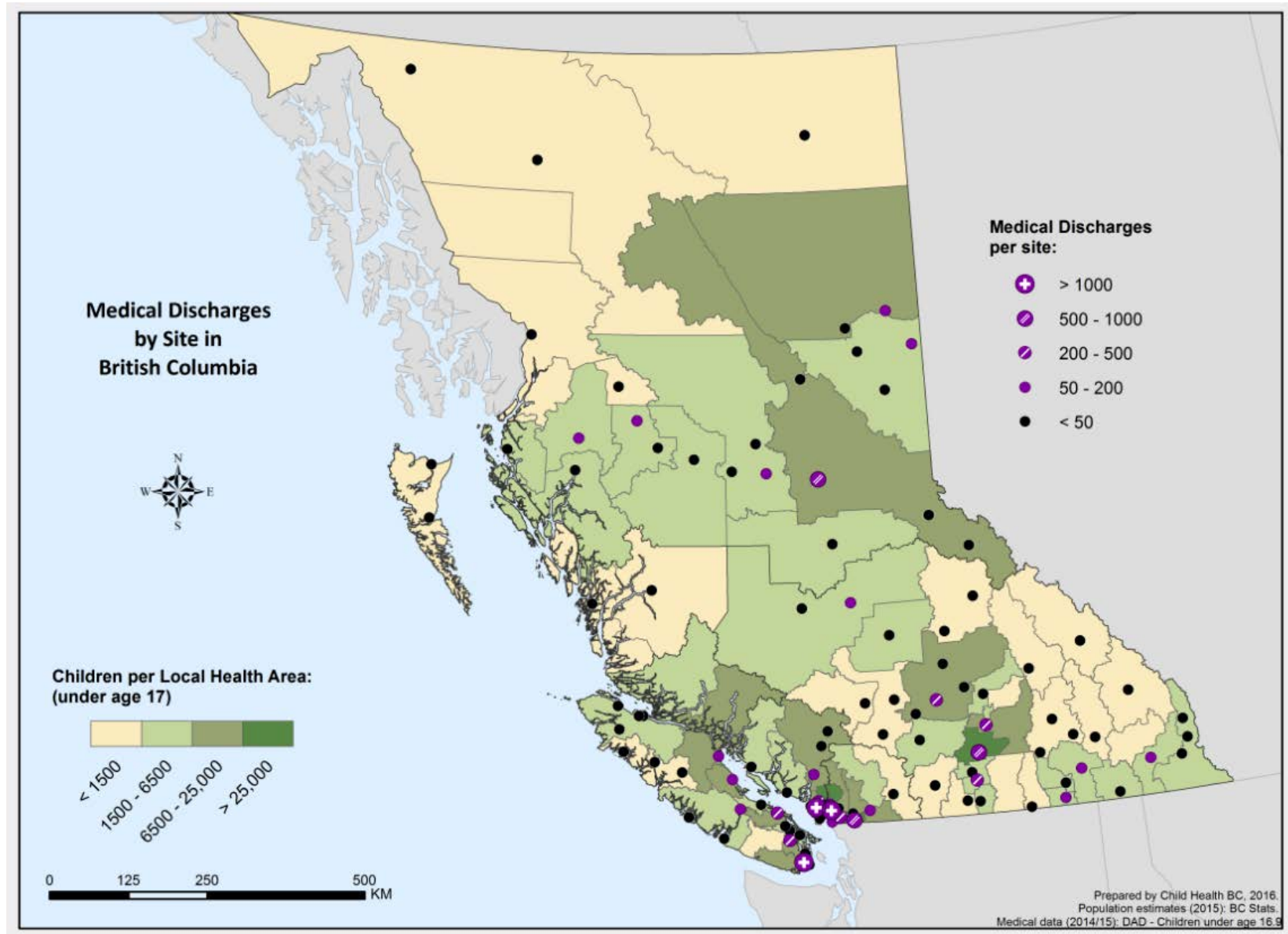
- Includes children ages 0 - 16.9 years.
- Surgical procedures: Procedures performed on children by a surgeon regardless of most responsible physician (MRP). Includes children in NICUs, PICUs, med/surg units and in day care settings.
- Med/surg visits and days: Visits and days sorted by MRP. Includes 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	
<b>Interior HA</b>																
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		
<b>Interior HA Total</b>		<b>74,061</b>	<b>2,404</b>	<b>650</b>	<b>3,054</b>	<b>2,394</b>	<b>682</b>	<b>3,076</b>	<b>1,190</b>	<b>54</b>	<b>1,921</b>	<b>1,975</b>	<b>4,585</b>	<b>5,051</b>	<b>5,775</b>	<b>41</b>

	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	
<b>Fraser HA</b>																
Fraser East	Abbotsford Reg Hosp	13,572	254	167	421	253	165	418	315		871	871	2174	1289	2489	12
	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	
<b>Fraser HA Total</b>		<b>114,293</b>	<b>2,041</b>	<b>953</b>	<b>2,994</b>	<b>2,036</b>	<b>996</b>	<b>3,032</b>	<b>1,622</b>	<b>20</b>	<b>3,360</b>	<b>3,380</b>	<b>8,004</b>	<b>6,412</b>	<b>9,626</b>	<b>57</b>
<b>Vancouver Coastal HA</b>																
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	
	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	
<b>Vancouver Coastal HA Total</b>		<b>32,478</b>	<b>597</b>	<b>268</b>	<b>865</b>	<b>556</b>	<b>274</b>	<b>830</b>	<b>654</b>	<b>88</b>	<b>764</b>	<b>852</b>	<b>1,508</b>	<b>1,682</b>	<b>2,162</b>	<b>14</b>
<b>Vancouver Island HA</b>																
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
<b>Vancouver Island HA Total</b>		<b>54,444</b>	<b>2,927</b>	<b>881</b>	<b>3,808</b>	<b>2,923</b>	<b>816</b>	<b>3,739</b>	<b>1,537</b>	<b>16</b>	<b>2,024</b>	<b>2,040</b>	<b>6,030</b>	<b>5,779</b>	<b>7,567</b>	<b>33</b>

	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	
<b>Northern HA</b>																
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	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		
<b>Northern HA Total</b>		<b>43,891</b>	<b>1,520</b>	<b>159</b>	<b>1,679</b>	<b>1,510</b>	<b>155</b>	<b>1,665</b>	<b>315</b>	<b>153</b>	<b>1,137</b>	<b>1,290</b>	<b>2,767</b>	<b>2,955</b>	<b>3,082</b>	<b>12</b>
<b>PHSA HA</b>																
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	
<b>PHSA HA Total</b>		<b>47,673</b>	<b>6,580</b>	<b>3,633</b>	<b>10,213</b>	<b>6,575</b>	<b>2,319</b>	<b>8,894</b>	<b>9,002</b>	<b>787</b>	<b>3,908</b>	<b>4,695</b>	<b>23,075</b>	<b>13,589</b>	<b>32,077</b>	<b>97</b>
<b>Grand Total</b>		<b>366,841</b>	<b>16,069</b>	<b>6,544</b>	<b>22,613</b>	<b>15,994</b>	<b>5,242</b>	<b>21,236</b>	<b>14,320</b>	<b>1,118</b>	<b>13,114</b>	<b>14,232</b>	<b>45,969</b>	<b>35,468</b>	<b>60,289</b>	<b>254</b>

## Appendix 2: Map of Pediatric Medical Discharges in BC



## Appendix 3: HA Operated Pediatric Inpatient Beds in BC

HA	Hospital	General Pediatric Beds	Pediatric Observation Beds	Ped ICU Beds <sup>4</sup>	Child & Youth MH Beds	Youth SU Beds <sup>5</sup>	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 <sup>6</sup>	
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 <sup>7</sup>
	Burnaby							8
	Creekside Withdrawal Management Centre					6	6	
	Last Door Recovery Centre					10 <sup>8</sup>	10	
VCH	Lions Gate & Carliile Centre	10			10		20	9
	Richmond		4				4	6
	St Paul's							9
	Peak House					8	8	
	Young Bears Lodge					5	5	
Island H	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	
	Ledger House				14 <sup>9</sup>		14	
NHA	University Hospital of Northern B.C.	12 <sup>10</sup>			6		18	9
	Nechako Centre					8 <sup>11</sup>		
PHSA	B.C. Children's Hospital	97		22	54 <sup>12</sup>		173	
	BC Women's							60
<b>TOTAL</b>		<b>242</b>	<b>12</b>	<b>27</b>	<b>114</b>	<b>59</b>	<b>446</b>	<b>214</b>

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.**

<sup>4</sup> Beds have the capacity for invasive monitoring, inotropic drugs and mechanical ventilation.

<sup>5</sup> Excludes beds in home-based settings.

<sup>6</sup> Includes beds for ages 17 - 24.

<sup>7</sup> Plan to increase to 48 beds in the future.

<sup>8</sup> Contracted beds and number of beds fluctuates.

<sup>9</sup> 14 beds: 5 child, 6 youth & 3 special care beds.

<sup>10</sup> 4 beds have the capacity for more intensive monitoring, up to and including continuous cardiorespiratory monitoring.

<sup>11</sup> Includes 1 detox bed.

<sup>12</sup> 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.