

SETTING  
THE STAGE

# MENTAL HEALTH SERVICES FOR CHILDREN AND YOUTH

July 2019

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

**CHILD HEALTH BC**   
LEAD BENEFACITOR  
**save on foods**

# Mental Health & Substance Use Services for Children and Youth: Setting the Stage for Tiers Development

## Contents

1.0	Providers of MH & SU Services for Children and Youth .....	2
2.0	Utilization of Hospital-based Services by Children and Youth for MH & SU Reasons.....	3
2.1	ED Service Utilization.....	4
2.1.1	ED Visits for MH & SU Reasons.....	5
2.1.2	ED Admissions to Hospital for MH and SU Reasons .....	7
2.2	Inpatient Utilization.....	8
2.2.1	Inpatient Discharges for MH & SU Reasons.....	8
3.0	References .....	11
	Appendix 1: Map of MCFD Child & Youth Mental Health Teams in BC.....	12
	Appendix 2: ED Visits for MH & SU Reasons by Hospital.....	13
	Appendix 3: ED Visits for MH & SU Reasons by ED Tier of Service & Type of Presenting Complaint .	16
	Appendix 4: ED Admissions to Hospital for MH or SU Reasons.....	17
	Appendix 5: Inpatient Discharges for MH & SU Reasons by Hospital, Age of Child and Most Responsible Physician.....	18
	Appendix 6: Map of Inpatient Discharges for MH & SU Reasons.....	22
	Appendix 7: HA Operated Pediatric Inpatient Beds in BC (includes MH & SU beds) .....	23

### HOW TO CITE THE MENTAL HEALTH SERVICES FOR CHILDREN AND YOUTH MODULE:

We encourage you to share these documents with others & 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. *Mental Health Services for Children and Youth*. Vancouver, BC: Child Health BC, July 2019.

Child Health BC acknowledges the principle authors, Olsen A, O’Donnell M, Davidson J, Thomas-Peter K, Williams, J & the contributions of the following groups: MH Module Development Advisory Group, Provincial MH Module Development Working Group, Task-Specific Working Groups, Provincial MH & Substance Use Working Group, the Child Health BC Steering Committee and the Executive Directors in the Ministry of Child & Family Development. We would also like to thank Keli Anderson from FamilySmart for her valuable input. Appendix 1 lists the participants on each group.

## Mental Health & Substance Use Services for Children and Youth: Setting the Stage for Tiers Development

The Tiers of Service modules for Mental Health (MH) and Substance Use (SU) Services for Children and Youth are made up of three components:

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

### 1.0 Providers of MH & SU Services for Children and Youth

Mental health and substance use services for children and youth are provided by psychiatrists (mainly child and adolescent psychiatrists), mental health clinicians (which may include psychologists, social workers, clinical counselors, nurses), psychologists, counsellors, addiction specialists and pediatricians, in partnership with family physicians (FPs), nurse practitioners (NPs), nurses, allied health, Indigenous providers and other members of the health care team. Children/youth and parents are also considered important members of the team and this assumption is relevant throughout this document.

#### Child & Adolescent Psychiatrists

A child and adolescent psychiatrist is a physician who specializes in the diagnosis and the treatment of disorders of thinking, feeling and/or behavior affecting children, adolescents, and their families. It is recognized by the Royal College of Physicians and Surgeons (RCPS) as a sub-specialty of psychiatry. Based on a recent survey (35% response rate), BC has approximately 65-85 child and adolescent psychiatrists, with the highest number of approximately 42 (about 56%) located in Vancouver (including BC Children’s Hospital), and lowest number in the Northern Health Authority. Most are practicing in urban settings (primarily in the Lower Mainland) in community mental health, hospitals and/or private practice. The ratio of child & adolescent psychiatrists per child/adolescent in BC is 1:12,000 (the recommended ratio as per the Canadian Psychiatric Association is 1:3,800). See Table 1.

**Table 1: BC Child & Adolescent Psychiatrists Distribution by Health Authority**

HA	Child & Adolescent Psychiatrists (+/- RCPS Exam <sup>1</sup> ) (estimated)	General Psychiatrist Whose Practice (10-30%) includes Children & Youth (estimated)	Population, Children/Youth	Children/Youth Ages 0 - 18.9 Yrs	
				# Child & Adolescent Psychiatrist (CAP) per Child/Youth	# CAP + General Psychiatrists per Child/Youth
Interior Health	6	15	132,760	1:22,127	1:6,322
Fraser Health	11	21	368,985	1:33,544	1:11,531
Vancouver Coastal	25	21	194,761	1:6,283	1:2,823
PHSA - BCCH	17	6			
Island Health	10	6	132,197	1:13,220	1:8,262
Northern Health	1	9	67,780	1:16,945	1:16,945
<b>Total BC</b>	<b>70</b>	<b>78</b>	<b>896,483</b>	<b>1:12,281</b>	<b>1:5,937</b>

Source: Estimates extrapolated from Davidson, J. Child and Adolescent Psychiatrist Survey Results, 2016.

<sup>1</sup> Those who identify as having child & adolescent psychiatry training which includes those who have subspecialty training in child & adolescent psychiatry.

### **Mental Health Clinicians**

Clinicians in mental health have degrees in Social Work, Counseling Psychology, Child & Youth Care or Nursing with a specialized focus (continuing education and experience) in mental health and substance use. Psychologists are also included as mental health clinicians. Clinicians may be accessed privately, in hospitals or assessment/treatment centres, or through community services such as a Child & Youth Mental Health Team. Children and youth with mental health issues are primarily seen and have their care managed by a mental health clinician, who may consult with a child psychiatrist, pediatrician or multi-disciplinary team as needed. Mental Health Clinicians also have the capacity to provide care to children, youth and their families who have concurrent substance use issues. Mental health clinicians are trained in a variety of therapeutic modalities in order to engage and improve health and resiliency of children, youth and their families.

See Appendix 1 for a map of the locations of Ministry of Child and Family Development (MCFD) Child & Youth Mental Health Teams in BC.

### **Addictions Specialists & Counselors**

An addiction specialist is a physician and/or a psychiatrist, who has demonstrated by education, experience, and examination the requisite knowledge and skills to provide prevention, screening, intervention and treatment for substance use and addiction. Addictions counselors may have completed college or university training, in addition to a certificate in addictions and related experience in the field. Children, youth and their families experiencing substance use issues are primarily seen in their community, and have their care managed by an addictions counselor, who may consult with an addictions specialist, psychiatrist, pediatrician, or multi-disciplinary team as needed.

### **Pediatricians and Family Physicians**

There are an estimated 175 general pediatricians, 5,852 family medicine physicians and 315 nurse practitioners in BC, many of whom provide care to children and youth with mental health and substance use issues. Refer to the medical module for details.

## **2.0 Utilization of Hospital-based Services by Children and Youth for MH & SU Reasons**

This section provides provincial-level data on the utilization of hospital-based services by children and youth for MH & SU reasons. Data is for children and youth aged 0 - 18.9 unless otherwise stated.

Data is available for children and youth utilizing BC's Emergency Departments (EDs) and inpatient services. Unfortunately no comparable provincial-level data exists for community-based MH & SU services (including services provided by the Ministry of Child and Family Development) or hospital ambulatory services.

Data sources used for this section include:

1. ED data:
  - a. Health Authorities Management Information System (HAMIS) reporting tool
    - Provides numbers of visits for the 109 hospitals in BC providing ED care. Data which breaks down the number of visits by age or other variables is not available.
  - b. National Ambulatory Care Reporting System (NACRS).
    - Provides detailed information about ED visits for all participating hospitals (e.g., age and type of presenting complaint).
    - NACRS data is available for 29 sites in BC. In 2017/18, these 29 sites represented 27% of the 109 EDs in BC and 67% of the total ED visits to BC hospitals.
    - NACRS participating sites include: 2/60 of the T1 EDs, 11/29 of the T2 EDs, 13/17 of the T3 EDs and 1/1 for each of the T4, T5 and T6 EDs (total 29 EDs).
2. Inpatient data:
  - The Discharge Abstract Database (DAD) reporting tool is utilized by all hospitals in BC to report inpatient discharges.

Highlights of the data are provided in the next section. Detailed data and a visual representation (map) are available in Appendices 2 - 6. Appendix 7 provides a list of hospitals with HA operated designated pediatric beds (including MH & SU beds).

## 2.1 ED Service Utilization

The presenting complaints listed below were utilized to capture "mental health and substance use" ED visits. The list was extracted from the presenting complaint field in the Canadian ED Information System Presenting Complaint List (v.5.0, April 2017):

### Mental Health (351-400)

- Depression/suicidal/deliberate self-harm
- Anxiety/situational crisis
- Hallucinations/delusions
- Insomnia
- Violent/homicidal behaviour
- Social problem
- Bizarre behaviour
- Concern for patient's welfare
- Pediatric disruptive behaviour

### Gastrointestinal (251–300)

- Anorexia\*

### Substance Misuse (751–800)

- Substance misuse/intoxication
- Overdose ingestion
- Substance withdrawal

\*Could be GI, mental health or other reasons. There is no "eating disorder" category.

## 2.1.1 ED Visits for MH & SU Reasons

### 2.1.1.2 Total ED Visits, Pediatric ED Visits & Pediatric MH & SU ED Visits (all hospitals)

In 2017/18, there were approximately 2.42 million visits to EDs in B.C. hospitals (HAMIS data). Percentages from the 2017/18 NACRS data were applied to the 2017/18 BC ED visit data to help understand the utilization of EDs by children and youth ages 0 – 18.9, including children and youth presenting with MH or SU complaints.

The HAMIS/NACRS data suggests:

- There are an estimated 428,735 pediatric visits (children and youth ages 0 - 18.9 years) to BC EDs each year (~1,175 visits per day). This represents 18% of total ED visits.
- There are an estimated 18,654 pediatric visits each year that present with a MH or SU complaint (51 visits per day). This represents 4% of total pediatric ED visits (<1% of total ED visits).
- Of the pediatric visits with MH & SU complaints, two-thirds presented with a MH complaint.
- See Table 2 for HA level data and Appendix 2 for hospital-level data.

**Table 2: Total ED Visits, Pediatric ED Visits (estimates) & Pediatric MH & SU ED Visits (estimates), All Hospitals, 2017/18**

HA	Total ED & Pediatric ED Visits			Pediatric MH & SU ED Visits			
	ED Visits (Pediatrics & Adult)	Est Pediatric ED Visits	% Ped ED Visits/Total Visits	Est Ped MH ED Visits	Est Ped SU ED Visits	Est Ped MH&SU ED Visits	% MH&SU ED Visits/Total Ped Visits
IHA	510,248	88,898	17%	3,016	1,266	4,283	5%
FHA	731,384	137,270	19%	3,570	1,712	5,282	4%
VCH	446,671	41,674	10%	1,279	680	1,958	5%
Is H	409,111	63,480	16%	2,072	977	3,049	5%
NHA	274,140	48,928	18%	1,854	752	2,606	5%
PHSA	48,951	48,485	99%	1175	301	1,476	3%
<b>Total</b>	<b>2,420,505</b>	<b>428,735</b>	<b>18%</b>	<b>12,966</b>	<b>5,688</b>	<b>18,654</b>	<b>4%</b>

Notes re Table 2:

1. Total ED visits (adults, youth & children) were based on 2017/18 HAMIS data.
2. Estimated pediatric ED visits were based on 2017/18 NACRS data for sites where NACRS data was available. Where NACRS data was not available, the provincial average for pediatric ED/total ED visits was utilized (excludes “outlier sites” as listed in Appendix 2).
3. Estimated pediatric MH & SU ED visits were based on 2017/18 NACRS data for sites where NACRS data was available. Where NACRS data was not available, the provincial averages for pediatric MH/pediatric ED visits, pediatric SU/pediatric ED visits and pediatric MH&SU visits/pediatric ED visits were utilized (excludes “outlier sites” as listed in Appendix 2).

### 2.1.1.3 ED Visits by Children and Youth with a MH or SU Complaint by Age (NACRS reporting hospitals)

Nearly half (49%) of children and youth presenting to the ED with a MH or SU complaint were aged 16 - 18.9 years. 16% of children and youth are in this age group.

The lowest proportion (7%) of children and youth presenting to the ED with a MH or SU complaint were aged 0 - 5.9 years (2% of MH visits and 18% of SU visits). 31% of children and youth are in this age group.

**Table 3: ED Visits by Children and Youth with a MH or SU Complaint by Age, NACRS Reporting Hospitals, 2017/18**

Age	BC Population		Pediatric ED Visits		Ped MH Visits			Ped SU Visits			Total Ped MH&SU Visits		
	#	%	#	% by Age	#	% Ped ED Visits	% Ped MH ED Visits	#	% Ped ED Visits	% Ped SU ED Visits	#	% Ped ED Visits	% Ped MH&SU ED Visits
0 - 5.9	278,981	31%	128,829	44%	188	<1%	2%	713	<1%	18%	901	<1%	7%
6 - 11.9	191,508	32%	66,106	23%	1,007	2%	11%	68	0%	2%	1,075	2%	8%
12 - 16.9	148,687	21%	46,682	16%	3,493	7%	39%	1128	2%	29%	4,621	10%	36%
17 - 18.9	285,815	16%	48,124	17%	4,371	9%	48%	1,965	4%	51%	6,336	13%	49%
<b>Total</b>	<b>904,991</b>	<b>100%</b>	<b>289,741</b>	<b>100%</b>	<b>9,059</b>	<b>3%</b>	<b>100%</b>	<b>3,874</b>	<b>1%</b>	<b>100%</b>	<b>12,933</b>	<b>4%</b>	<b>100%</b>

### 2.1.1.4 ED Visits by Children and Youth with a MH or SU Complaint by Complaint Type (NACRS reporting hospitals)

The most common type of MH & SU complaint was depression/suicidal/deliberate self-harm (44%). Another 39% were for reasons of overdose and substance misuse/intoxication.

**Table 4: ED Visits by Children and Youth with a MH & SU Complaint, Ages 0 - 18.9 Yrs, NACRS Reporting Hospitals, 2015/16**

Presenting Complaint	Ped ED Visits	% MH&SU/ Total Ped ED Visits
Depression/suicidal/deliberate self-harm	5,647	44%
Overdose ingestion	2,091	16%
Substance misuse/intoxication	1,665	13%
Anxiety/situational crisis	1,217	9%
Bizarre behaviour	585	5%
Pediatric disruptive behaviour	443	3%
Violent/homicidal behaviour	427	3%
Concern for patient's welfare	346	3%
Hallucinations/delusions	213	2%
Social problem	112	1%
Anorexia	79	1%
Substance withdrawal	65	1%
Insomnia	43	0%
<b>Grand Total</b>	<b>12,933</b>	<b>100%</b>

### 2.1.1.5 ED Visits by Children and Youth with a MH or SU Complaint by ED Tier of Service (NACRS reporting hospitals)

The proportion of children and youth presenting with a MH or SU complaint was highest at the T1 EDs (n=2) and lowest at the T6 ED. The percentage at the other tiers was relatively similar.

**Table 5: Proportion of ED Visits by Children and Youth with a MH or SU Complaint by ED Tier of Service, Ages 0 - 18.9 Yrs, NACRS Reporting Hospitals, 2017/18**

Tier	# Sites	Ped ED Visits		Ped MH Visits			Ped SU Visits			Total Ped MH/SU Visits		
		#	Avg Per Site	#	Avg Per Site	% Ped ED Visits	#	Avg Per Site	% Ped ED Visits	#	Avg Per Site	% Ped ED Visits
T1	2	3,508	1,754	178	89	5.1%	161	81	4.6%	339	170	9.7%
T2	11	57,720	5,247	1,473	134	2.6%	952	87	1.6%	2,425	220	4.2%
T3	13	119,292	9,176	4,294	330	3.6%	1,760	135	1.5%	6,054	466	5.1%
T4	1	14,133	14,133	687	687	4.9%	265	265	1.9%	952	952	6.7%
T5	1	46,603	46,603	1,252	1252	2.7%	435	435	0.9%	1,687	1,687	3.6%
T6	1	48,485	48,485	1,175	1175	2.4%	301	301	0.6%	1,476	1,476	3.0%
<b>Total</b>	<b>29</b>	<b>289,741</b>	<b>9,991</b>	<b>9,059</b>	<b>312</b>	<b>3.1%</b>	<b>3,874</b>	<b>134</b>	<b>1.3%</b>	<b>12,933</b>	<b>446</b>	<b>4.5%</b>

See Appendix 3 for a listing of ED visits for MH & SU reasons by ED Tier of Service and type of presenting complaint.

## 2.1.2 ED Admissions to Hospital for MH and SU Reasons

### 2.1.2.1 ED Admissions to Hospital for MH & SU Reasons (NACRS reporting hospitals)

~23% of children and youth who presented with a MH or SU complaint were admitted to hospital. This compares to an average of 5% for children and youth presenting with all types of conditions.

A higher percentage of children and youth presenting with a MH complaint were admitted to hospital than with a SU complaint (26% vs 17%).

**Table 6: Pediatric ED Admissions & Pediatric MH & SU Admissions, Ages 0 - 18.9 Yrs, NACRS Reporting Hospitals, 2017/18**

HA	Pediatric Visits/Admissions			Pediatric MH Visits/Admissions			Pediatric SU Visits/Admissions			Pediatric MH&SU Visits/Admissions		
	# Visits	# Admissions	% Admitted	# Visits	# Admissions	% Admitted	# Visits	# Admissions	% Admitted	# Visits	# Admissions	% Admitted
IHA	25,536	1,546	6%	1,014	379	37%	392	104	27%	1,406	483	34%
FHA	137,270	4,889	4%	3,570	959	27%	1,712	267	16%	5,282	1,226	23%
VCH	26,709	991	4%	806	214	27%	473	51	11%	1,279	265	21%
Is H	43,224	2,396	6%	1,917	397	21%	802	126	16%	2,719	523	19%
NHA	8,517	401	5%	577	173	30%	194	48	25%	771	221	29%
PHSA	48,485	3,499	7%	1,175	240	20%	301	55	18%	1,476	295	20%
<b>Total</b>	<b>289,741</b>	<b>13,722</b>	<b>5%</b>	<b>9,059</b>	<b>2,362</b>	<b>26%</b>	<b>3,874</b>	<b>651</b>	<b>17%</b>	<b>12,933</b>	<b>3,013</b>	<b>23%</b>

### 2.1.2.2 ED Admissions to Hospital for MH & SU Reasons by Age (NACRS reporting hospitals)

Admissions from ED for MH & SU reasons were most common in youth aged 12 - 15.9 and 16 - 18.9. Admissions for MH & SU reasons accounted for 46% and 51% of all pediatric ED admissions in these age groups. See Appendix 4 for hospital-level data.

Table 7: Proportion of Admissions via ED with MH & SU Presenting Complaint by Age Group

Age	Pediatric ED Admissions		Pediatric MH Admissions			Pediatric SU Admissions			Pediatric MH&SU Admissions		
	#	% Ped ED Admissions	#	% in Age Group	% Ped MH Admissions	#	% in Age Group	% Ped MH Admissions	#	% in Age Group	% Ped MH Admissions
0 to 5.9	5,680	41%	9	0%	0%	42	6%	1%	51	2%	1%
6 to 11.9	2,325	17%	154	7%	7%	7	1%	0%	161	5%	7%
12 to 16.9	2,696	20%	986	42%	37%	267	41%	10%	1,253	42%	46%
17 to 18.9	3,021	22%	1,213	51%	40%	335	51%	11%	1,548	51%	51%
<b>Grand Total</b>	<b>13,722</b>	<b>100%</b>	<b>2,362</b>	<b>100%</b>	<b>17%</b>	<b>651</b>	<b>100%</b>	<b>5%</b>	<b>3,013</b>	<b>100%</b>	<b>22%</b>

## 2.2 Inpatient Utilization

### 2.2.1 Inpatient Discharges for MH & SU Reasons

This section includes 2017/18 inpatient discharges in which a mental health condition was identified as the most responsible diagnosis - i.e., any ICD-10 code starting with "F". This includes the following:

Code	Description
F00-F09	Organic, including symptomatic, mental disorders.
F10-F19	Mental and behavioral disorders due to psychoactive substance abuse.
F20-F29	Schizophrenia, schizotypal and delusional disorders.
F30-F39	Mood (affective) disorders.
F40-F48	Neurotic, stress-related and somatoform disorders.
F50-F59	Behavioral syndromes associated with physiological disturbances and physical factors*
F60-F69	Disorders of adult personality and behavior
F70-F79	Mental retardation
F80-F89	Disorders of psychological development
F90-F98	Behavioral emotional disorders with onset usually occurring in childhood or adolescence
F99-F99	Unspecified mental disorder (F99)

\*Includes eating disorders, anorexia nervosa, atypical anorexia nervosa, bulimia nervosa, atypical bulimia nervosa, overeating associated with other psychological disturbances, vomiting associated with other psychological disturbances and other eating disorders (Pica, psychogenic loss of appetite).

Source: [https://www.cihi.ca/en/icd\\_10\\_ca\\_vol1\\_2009\\_en.pdf](https://www.cihi.ca/en/icd_10_ca_vol1_2009_en.pdf)

### 2.2.1.1 Inpatient Discharges with a MH Condition by Most Responsible Physician and Age

A MH condition was identified as the most responsible diagnosis for 4,049 inpatient discharges in 2017/18 (an average of 11 per day). A psychiatrist or pediatric psychiatrist was the most responsible physician (MRP) for 3,151 (78%) of these children and youth and a family physician or pediatrician for 754 (19%).

34% of discharges were youth aged 17 - 18.9 yrs (26% of children and youth are in this age group) and 58% were aged 12 - 16.9 yrs (12% of children and youth are in this age group).

**Table 8: Inpatient Discharges, Children and Youth with a MH Condition as the Most Responsible Diagnosis by MRP, Ages 0 - 18.9 Yrs, 2017/18**

Most Responsible Physician	MH Discharges				Total	% Total Pediatric MH & SU Discharges
	Age					
	0 - 5.9	6 - 11.9	12 - 16.9	17 - 18.9		
Psychiatry	1	104	1,381	1,123	2,609	64%
Pediatric Psychiatry	3	117	377	45	542	13%
Pediatrics	4	37	345	29	415	10%
Family Practice /General Practice		6	192	141	339	8%
Emergency Medicine			28	38	66	2%
Pediatric Neurology	2	14	21	2	39	1%
Adolescent Medicine		1	15	5	21	1%
Internal Medicine			1	7	8	0%
Critical Care Medicine		1	1	1	3	0%
Geriatric Medicine				2	2	0%
Neonatal-Perinatal Medicine			1		1	0%
Orthopedic Surgery		1			1	0%
Respirology				1	1	0%
Anesthesiology			1		1	0%
Cardiac Surgery				1	1	0%
<b>Grand Total</b>	<b>10</b>	<b>281</b>	<b>2,363</b>	<b>1,395</b>	<b>4,049</b>	<b>100%</b>
<b>% Total Discharges</b>	<b>&lt;1%</b>	<b>7%</b>	<b>58%</b>	<b>34%</b>	<b>100%</b>	
Population, 0 to 18.9 yrs	273,016	281,084	103,504	234,848	892,452	
<b>% Population, 0 to 18.9 yrs</b>	<b>31%</b>	<b>31%</b>	<b>12%</b>	<b>26%</b>	<b>100%</b>	

Details of inpatient discharges for MH & SU reasons by hospital, MRP and age of child is available in Appendix 5. Appendix 6 provides the distribution of inpatient discharges across BC in a map format.

### 2.2.1.2 Inpatient Discharges and Types of MH Conditions

Depressive episode, reaction to severe stress/adjustment disorders and other anxiety disorders were responsible for 49% of inpatient discharges. Depressive episodes were the most common.

Table 9: Inpatient Discharges, Children and Youth with a MH Condition by Type of Condition, Ages 0 - 18.9 Yrs, 2017/18

Most Responsible Diagnosis Category	Discharges		Days	
	#	%	#	%
Depressive episode	909	22%	5,718	17%
Reaction to severe stress, and adjustment disorders	757	19%	3,554	11%
Other anxiety disorders	320	8%	2,370	7%
Eating disorders	176	4%	4,482	13%
Unspecified nonorganic psychosis	167	4%	2,026	6%
Specific personality disorders	159	4%	1,035	3%
Bipolar affective disorder	149	4%	2,215	7%
Hyperkinetic disorders	140	3%	1,531	5%
Recurrent depressive disorder	127	3%	756	2%
Unspecified mood [affective] disorder	118	3%	563	2%
Mental and behavioural disorders due to use of alcohol	106	3%	263	1%
Pervasive developmental disorders	92	2%	1,301	4%
Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances	89	2%	468	1%
Mental and behavioural disorders due to use of cannabinoids	72	2%	461	1%
Conduct disorders	71	2%	331	1%
Schizophrenia	70	2%	1,646	5%

Most Responsible Diagnosis Category	Discharges		Days	
	#	%	#	%
Persistent mood [affective] disorders	52	1%	461	1%
Mental and behavioural disorders due to use of other stimulants, including caffeine	42	1%	252	1%
Obsessive-compulsive disorder	41	1%	685	2%
Emotional disorders with onset specific to childhood	35	1%	404	1%
Somatoform disorders	32	1%	148	0%
Other mood [affective] disorders	24	1%	197	1%
Schizoaffective disorders	24	1%	703	2%
Mental and behavioural disorders due to use of opioids	23	1%	175	1%
Mixed disorders of conduct and emotions	23	1%	96	0%
Disorders of social functioning with onset specific to childhood and adolescence	20	0%	146	0%
Other behavioural and emotional disorders with onset usually occurring in childhood and adolescence	19	0%	158	0%
Acute and transient psychotic disorders	18	0%	144	0%
Dissociative [conversion] disorders	17	0%	40	0%
Gender identity disorders	17	0%	43	0%
Other	140	3%	1,329	4%
<b>Total</b>	<b>4,049</b>	<b>100%</b>	<b>33,701</b>	<b>100%</b>

### 2.2.1.3 Inpatient Discharges by HA of Treating Hospital and HA of Child's Home Residence for Children and Youth with MH & SU Diagnoses

93% of children and youth with MH conditions were admitted to a hospital in their home HA. 88% of inpatient days were in a hospital within a child/youth's home HA.

The percentage of children and youth with MH conditions admitted to a hospital in their home HA ranged from 90% (FH) to 96% (Island Health). The percentage of inpatient days ranged from 80% (FH) to 98% (VCH).

36% of discharges and 29% of inpatient days were to a hospital in FH while 11% of discharges and 13% of inpatient days were to a hospital in NH. 11% of discharges and 22% of days were to C&W.

**Table 10: Inpatient Discharges, Children and Youth with a MH Condition by HA of Treating Hospital & HA of Child's Home Residence, Ages 0 - 18.9 Yrs, 2017/18**

HA of Treating Hospital	HA of Child's Home Residence					Total, excl Unkn	Unknown	Total	% Prov D/C'es
	IHA	FHA	VCHA	Isld HA	NHA				
Interior	865	2	1	2	7	877	10	887	22%
Fraser	8	1,289	24	3	1	1,325	17	1,342	33%
Vancouver Coastal	2	13	281	4	0	300	10	310	8%
PHSA (BCCH)	31	129	235	17	24	436	11	447	11%
Island Health	1	4	2	628	0	635	16	651	16%
Northern	1	1	0	2	405	409	3	412	10%
<b>Total</b>	<b>908</b>	<b>1,438</b>	<b>543</b>	<b>656</b>	<b>437</b>	<b>3,982</b>	<b>67</b>	<b>4,049</b>	<b>100%</b>
<b>% D/C'es in Home HA</b>	<b>95%</b>	<b>90%</b>	<b>95%</b>	<b>96%</b>	<b>93%</b>	<b>93%</b>			
% Prov D/C'es	23%	36%	14%	16%	11%	100%			
Pop'n, 0 to 18.9 Yrs	131,469	373,312	189,655	132,497	65,519	892,452			
% Pop'n, 0 to 18.9 Yrs	15%	42%	21%	15%	7%	100%			
<b>D/C'es/1,000 Children &amp; Youth</b>	<b>6.9</b>	<b>3.9</b>	<b>2.9</b>	<b>5.0</b>	<b>6.7</b>	<b>4.5</b>			

Note:

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

**Table 11: Inpatient Days, Children and Youth with a MH Condition by HA of Treating Hospital & HA of Child's Home Residence, Ages 0 - 18.9 Yrs, 2017/18**

HA of Treating Hospital	HA of Child's Home Residence					Total, excl Unkn	Unknown	Total	% Prov Days
	IHA	FHA	VCHA	Isld HA	NHA				
Interior	5,064	4	7	3	17	5,095	84	5,179	15%
Fraser	41	7,612	110	57	3	7,823	54	7,877	23%
Vancouver Coastal	18	131	2,171	9	0	2,329	76	2,405	7%
PHSA	606	1,742	3,579	732	586	7,245	167	7,412	22%
Island Health	1	5	2	6,841	0	6,849	74	6,923	21%
Northern	8	9	0	15	3,863	3,895	10	3,905	12%
<b>Total</b>	<b>5,738</b>	<b>9,503</b>	<b>5,869</b>	<b>7,657</b>	<b>4,469</b>	<b>33,236</b>	<b>465</b>	<b>33,701</b>	<b>100%</b>
<b>% Days in Home HA</b>	<b>88%</b>	<b>80%</b>	<b>98%</b>	<b>89%</b>	<b>86%</b>	<b>88%</b>			
% Prov Days	17%	29%	18%	23%	13%	100%			
Pop'n, 0 to 18.9 Yrs	131,469	373,312	189,655	132,497	65,519	892,452			
% Pop'n, 0 to 18.9 Yrs	15%	42%	21%	15%	7%	100%			
<b>Days/1,000 Children &amp; Youth</b>	<b>44</b>	<b>25</b>	<b>31</b>	<b>58</b>	<b>68</b>	<b>37</b>			

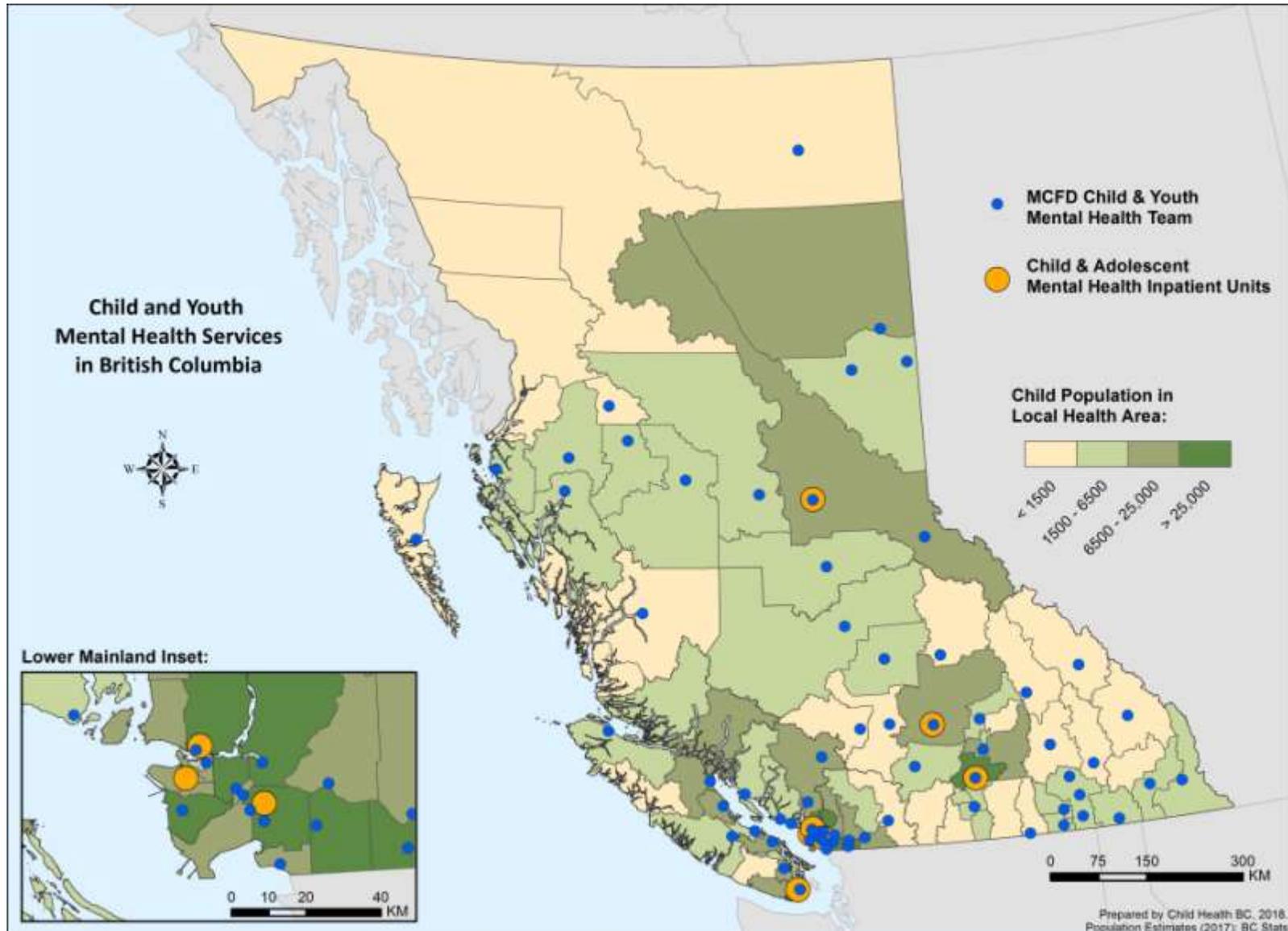
Note:

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

### 3.0 References

1. Health Authorities Management Information System (HAMIS) reporting tool, Ministry of Health, 2017/18.
2. National Ambulatory Care Reporting System (NACRS), Canadian Institute for Health Information (CIHI), 2017/18.
3. Discharge Abstract Database (DAD) reporting tool, Canadian Institute for Health Information (CIHI), 2017/18.

## Appendix 1: Map of MCFD Child & Youth Mental Health Teams & Inpatient Units in BC



## Appendix 2: ED Visits for MH & SU Reasons by Hospital

- Includes children and youth ages 0 - 18.9 years.
- Total ED visits (adults, youth & children) were based on 2017/18 HAMIS data.
- Estimated pediatric ED visits were based on 2017/18 NACRS data for sites where NACRS data was available. Where NACRS data was not available, the provincial average for pediatric ED/total ED visits was utilized (excludes "outlier sites" as listed below).
- Estimated pediatric MH & SU ED visits were based on 2017/18 NACRS data for sites where NACRS data was available. Where NACRS data was not available, the provincial averages for pediatric MH/pediatric ED visits, pediatric SU/pediatric ED visits and pediatric MH&SU visits/pediatric ED visits were utilized (excludes "outlier sites" as listed below).
- "Outlier sites" excluded from the calculation of provincial averages were Vancouver General, St Paul's, Mt St Joseph's, Royal Jubilee and BC Children's Hospitals.
- Grey highlight = no inpatient beds; Yellow highlight = NACRS reporting site.

HSDA	Hosp Name	Total & Pediatric ED Visits			Pediatric MH & SU ED Visits			
		ED Visits (Pediatrics & Adult)	Est Pediatric ED Visits	% Ped ED Visits/Total Visits	Est Ped MH ED Visits	Est Ped SU ED Visits	Est Ped MH&SU ED Visits	% MH&SU ED Visits/Total Ped Visits
<b>Interior Health Authority</b>								
East Kootenay	Golden & District Hospital	8,407	1,500	18%	47	21	68	5%
	Creston Valley Hospital	16,303	2,909	18%	92	40	132	5%
	Elk Valley Hospital	12,113	2,161	18%	68	30	98	5%
	Sparwood Health Centre	5,081	906	18%	29	13	41	5%
	Invermere & District Hospital	11,031	1,968	18%	62	27	89	5%
	East Kootenay Regional Hospital	23,095	4,120	18%	130	57	187	5%
	Elkford Health Centre	1,586	283	18%	9	4	13	5%
Kootenay Boundary	Kootenay Lake Hospital	13,363	2,384	18%	75	33	108	5%
	Slocan Community Health Centre	2,203	393	18%	12	5	18	5%
	Victorian Comm Health Centre of Kaslo	1,506	269	18%	8	4	12	5%
	Arrow Lakes Hospital	5,178	924	18%	29	13	42	5%
	Edgewood Health Centre	2,420	432	18%	14	6	20	5%
	Kootenay Boundary Regional Hospital	15,522	2,769	18%	88	38	126	5%
	Boundary Hospital	13,741	2,452	18%	77	34	111	5%
Okanagan	Castlegar & District Health Centre	10,528	1,878	18%	59	26	85	5%
	Vernon Jubilee Hospital	49,814	8,887	18%	281	123	403	5%
	Kelowna General Hospital	82,884	12,660	15%	575	213	788	6%
	Penticton Regional Hospital	37,841	6,751	18%	213	93	306	5%
	Princeton General Hospital	7,293	1,301	18%	41	18	59	5%
	South Okanagan General Hospital	18,060	3,222	18%	102	44	146	5%
Thompson Cariboo Shuswap	South Similkameen Health Centre	2,722	486	18%	15	7	22	5%
	Royal Inland Hospital	72,216	12,876	18%	439	179	618	5%
	Queen Victoria Hospital	8,972	1,601	18%	51	22	73	5%
	Nicola Valley Hospital & Health Centre	14,013	2,500	18%	79	35	114	5%
	Shuswap Lake General Hospital	20,997	3,746	18%	118	52	170	5%
	St. Bartholomew's Health Centre	2,100	375	18%	12	5	17	5%
	Cariboo Memorial Hospital	19,747	3,523	18%	111	49	160	5%
	Ashcroft & District General Hospital	2,066	369	18%	12	5	17	5%
	Blue River Health Centre	283	50	18%	2	1	2	5%
	Alexis Creek Health Centre	1,338	239	18%	8	3	11	5%
	Lillooet Hospital & Health Centre	6,232	1,112	18%	35	15	50	5%
	Dr. Helmcken Memorial Hospital	3,445	615	18%	19	8	28	5%
	Logan Lake Health Centre	0	0	-	0	0	0	-
	Barriere Health Centre	1,699	303	18%	10	4	14	5%
	Chase & District Health Centre	4,337	774	18%	24	11	35	5%
100 Mile District General Hospital	12,112	2,161	18%	68	30	98	5%	
<b>Total, IHA</b>		<b>510,248</b>	<b>88,898</b>	<b>17%</b>	<b>3,016</b>	<b>1,266</b>	<b>4,283</b>	<b>5%</b>

HSDA	Hosp Name	Total & Pediatric ED Visits			Pediatric MH & SU ED Visits			
		ED Visits (Pediatrics & Adult)	Est Pediatric ED Visits	% Ped ED Visits/Total Visits	Est Ped MH ED Visits	Est Ped SU ED Visits	Est Ped MH&SU ED Visits	% MH&SU ED Visits/Total Ped Visits
<b>Fraser Health Authority</b>								
Fraser East	Chilliwack General Hospital	61,701	10,875	18%	307	156	463	4%
	Mission Memorial Hospital	22,626	3,733	16%	66	61	127	3%
	Fraser Canyon Hospital	10,239	1,746	17%	26	23	49	3%
	Abbotsford Regional Hospital	77,389	15,407	20%	551	176	727	5%
Fraser North	Royal Columbian Hospital	77,457	11,735	15%	459	149	608	5%
	Burnaby Hospital	84,001	10,478	12%	193	182	375	4%
	Eagle Ridge Hospital & Health Care Centre	52,850	9,314	18%	72	130	202	2%
	Ridge Meadows Hospital	43,419	8,511	20%	256	117	373	4%
Fraser South	Langley Memorial Hospital	47,759	7,455	16%	238	141	379	5%
	Surrey Memorial Hospital	167,461	46,603	28%	1252	435	1687	4%
	Peace Arch District Hospital	52,261	7,390	14%	115	82	197	3%
	Delta Hospital	34,221	4,023	12%	35	60	95	2%
<b>Total, FHA</b>		731,384	137,270	19%	3,570	1,712	5,282	4%
<b>Vancouver Coastal Health Authority</b>								
North Shore / Coast Garibaldi	Powell River General Hospital	18,708	3,338	18%	105	46	152	5%
	Lions Gate Hospital	64,572	10,005	15%	402	131	533	5%
	St. Mary's Hospital, Sechelt	16,819	3,001	18%	95	41	136	5%
	Squamish General Hospital	15,587	2,781	18%	88	38	126	5%
	Pemberton Health Centre	5,448	972	18%	31	13	44	5%
	Whistler Health Centre	21,154	3,774	18%	119	52	171	5%
	R.W. Large Memorial Hospital	3,384	604	18%	19	8	27	5%
	Bella Coola General Hospital	2,780	496	18%	16	7	23	5%
Richmond Vancouver	Richmond Hospital	57,676	8,080	14%	152	69	221	3%
	Vancouver General Hospital	97,547	1,913	2%	178	157	335	18%
	St. Paul's Hospital (Providence)	88,686	2,120	2%	62	107	169	8%
	Mount Saint Joseph's (Providence)	32,422	1,595	5%	0	4	4	0%
	U.B.C. Health Sciences Centre	21,888	2,996	14%	12	5	17	1%
<b>Total, VCH</b>		446,671	41,674	10%	1,279	680	1,958	5%
<b>Island Health Authority</b>								
Central Van Island	Cowichan District Hospital	33,575	5,443	16%	189	88	277	5%
	Nanaimo Regional General Hospital	66,208	9,289	14%	384	173	557	6%
	Chemainus Health Care Centre	6,570	1,172	18%	37	16	53	5%
	Ladysmith Community Health Centre	15,417	2,751	18%	87	38	125	5%
	West Coast General Hospital	24,853	4,434	18%	140	61	201	5%
	Tofino General Hospital	6,265	1,118	18%	35	15	51	5%
	Oceanside Health Centre	25,761	4,596	18%	145	63	209	5%
	Bamfield Health Centre	1,168	208	18%	7	3	9	5%
North Van Island	St. Joseph's General Hospital	14,027	-					
	North Island Hospital, Comox Valley	14,380	4,294	30%	181	70	251	6%
	Cormorant Island Health Centre	1,495	267	18%	8	4	12	5%
	North Island Hosp, Campbell River & Dist	24,937	3,518	14%	148	69	217	6%
	Port Hardy Hospital	8,680	1,549	18%	49	21	70	5%
	Port McNeill & District Hospital	4,227	754	18%	24	10	34	5%
	Kyuquot Health Centre	1303	232	18%	7	3	11	5%
	Port Alice Hospital	827	148	18%	5	2	7	5%
	Gold River Health Centre	3,239	578	18%	18	8	26	5%
Tahsis Health Centre	2,695	481	18%	15	7	22	5%	
South Van Island	Royal Jubilee Hospital	59,373	3,621	6%	313	103	416	11%
	Victoria General Hospital	60,489	14,133	23%	687	265	952	7%
	Lady Minto/Gulf Islands Hospital	11,037	1,969	18%	62	27	89	5%
	Saanich Peninsula Hospital	22,585	2,926	13%	15	34	49	2%
<b>Total, Isld HA</b>		409,111	63,480	16%	2,072	977	3,049	5%

HSDA	Hosp Name	Total & Pediatric ED Visits			Pediatric MH & SU ED Visits			
		ED Visits (Pediatrics & Adult)	Est Pediatric ED Visits	% Ped ED Visits/Total Visits	Est Ped MH ED Visits	Est Ped SU ED Visits	Est Ped MH&SU ED Visits	% MH&SU ED Visits/Total Ped Visits
<b>Northern Health Authority</b>					0	0	0	
Northeast	Fort St. John General Hospital	27,310	4,872	18%	154	67	221	5%
	Dawson Creek & District Hospital	19,370	3,456	18%	109	48	157	5%
	Fort Nelson General Hospital	6,717	1,198	18%	38	17	54	5%
	Chetwynd General Hospital	7,435	1,326	18%	42	18	60	5%
	Tumbler Ridge Health Centre	2,944	525	18%	17	7	24	5%
	Hudson's Hope Gething Health Centre	228	41	18%	1	1	2	5%
Northern Interior	St. John Hospital	10,714	1,911	18%	60	26	87	5%
	The University Hosp of Northern BC	47,630	8,517	18%	577	194	771	9%
	GR Baker Memorial Hospital	17,276	3,082	18%	97	43	140	5%
	Lakes District Hospital & Health Centre	11,950	2,132	18%	67	29	97	5%
	McBride & District Hospital	1,825	326	18%	10	4	15	5%
	Mackenzie & District Hospital	6,163	1,100	18%	35	15	50	5%
	Stuart Lake Hospital	6,044	1,078	18%	34	15	49	5%
	Valemount Health Centre	3,497	624	18%	20	9	28	5%
	Fraser Lake Health Centre	5,316	948	18%	30	13	43	5%
Northwest	Stikine Health Centre	1,055	188	18%	6	3	9	5%
	Wrinch Memorial Hospital	7,972	1,422	18%	45	20	65	5%
	Prince Rupert Regional Hospital	21,949	3,916	18%	124	54	178	5%
	Bulkley Valley District Hospital	14,812	2,643	18%	84	36	120	5%
	Queen Charlotte Islands General Hospital	3,006	536	18%	17	7	24	5%
	Houston Health Centre	5,487	979	18%	31	14	44	5%
	Stewart General Hospital	1,386	247	18%	8	3	11	5%
	Mills Memorial Hospital	26,611	4,748	18%	150	66	216	5%
	Atlin Health Centre	2,881	514	18%	16	7	23	5%
	Kitimat General Hospital	11,200	1,998	18%	63	28	91	5%
	Northern Haida Gwaii Hospital	3,362	600	18%	19	8	27	5%
<b>Total, NHA</b>		274,140	48,928	18%	1,854	752	2,606	5%
<b>PHSA</b>	BC Children's Hospital	48,951	48,485	99%	1175	301	1476	3%
<b>Total, PHSA</b>		48,951	48,485	99%	1175	301	1476	3%
<b>GRAND TOTAL</b>		2,420,505	428,735	18%	12,966	5,688	18,654	4%

### Appendix 3: ED Visits for MH & SU Reasons by ED Tier of Service & Type of Presenting Complaint

- NACRS (CIHI Portal), 2017/18 data.
- Includes children and youth ages 0 - 18.9 years.
- Includes hospitals participating in NACRS only (29 hospitals).

Tier/ Presenting Complaint	Visits	% Visits for Tier
<b>T1 ED</b>	<b>339</b>	<b>100%</b>
Substance misuse/intoxication	124	37%
Depression/suicidal/deliberate self-harm	112	33%
Overdose ingestion	35	10%
Anxiety/situational crisis	27	8%
Bizarre behaviour	22	6%
Hallucinations/delusions	7	2%
Violent/homicidal behaviour	6	2%
Substance withdrawal	2	1%
Social problem	2	1%
Anorexia	1	0%
Insomnia	1	0%
<b>T2 ED</b>	<b>2,425</b>	<b>100%</b>
Depression/suicidal/deliberate self-harm	846	35%
Overdose ingestion	508	21%
Substance misuse/intoxication	426	18%
Anxiety/situational crisis	289	12%
Bizarre behaviour	93	4%
Concern for patient's welfare	70	3%
Violent/homicidal behaviour	54	2%
Hallucinations/delusions	40	2%
Pediatric disruptive behaviour	37	2%
Anorexia	18	1%
Substance withdrawal	18	1%
Social problem	15	1%
Insomnia	11	0%
<b>T3 ED</b>	<b>6,054</b>	<b>100%</b>
Depression/suicidal/deliberate self-harm	2,832	47%
Overdose ingestion	930	15%
Substance misuse/intoxication	750	12%
Anxiety/situational crisis	600	10%
Bizarre behaviour	292	5%
Violent/homicidal behaviour	198	3%
Concern for patient's welfare	146	2%
Pediatric disruptive behaviour	101	2%
Hallucinations/delusions	92	2%
Social problem	35	1%
Anorexia	35	1%
Substance withdrawal	27	0%
Insomnia	16	0%

Tier/ Presenting Complaint	Visits	% Visits for Tier
<b>T4 ED</b>	<b>952</b>	<b>100%</b>
Depression/suicidal/deliberate self-harm	420	44%
Substance misuse/intoxication	143	15%
Overdose ingestion	117	12%
Anxiety/situational crisis	87	9%
Pediatric disruptive behaviour	55	6%
Violent/homicidal behaviour	37	4%
Concern for patient's welfare	33	3%
Bizarre behaviour	18	2%
Hallucinations/delusions	15	2%
Social problem	12	1%
Insomnia	6	1%
Substance withdrawal	5	1%
Anorexia	4	0%
<b>T5 ED</b>	<b>1,687</b>	<b>100%</b>
Depression/suicidal/deliberate self-harm	809	48%
Overdose ingestion	302	18%
Violent/homicidal behaviour	123	7%
Substance misuse/intoxication	122	7%
Bizarre behaviour	110	7%
Anxiety/situational crisis	106	6%
Hallucinations/delusions	31	2%
Pediatric disruptive behaviour	27	2%
Social problem	27	2%
Concern for patient's welfare	14	1%
Substance withdrawal	11	1%
Insomnia	4	0%
Anorexia	1	0%
<b>T6 ED</b>	<b>1,476</b>	<b>100%</b>
Depression/suicidal/deliberate self-harm	628	43%
Pediatric disruptive behaviour	223	15%
Overdose ingestion	199	13%
Anxiety/situational crisis	108	7%
Substance misuse/intoxication	100	7%
Concern for patient's welfare	83	6%
Bizarre behaviour	50	3%
Hallucinations/delusions	28	2%
Social problem	21	1%
Anorexia	20	1%
Violent/homicidal behaviour	9	1%
Insomnia	5	0%
Substance withdrawal	2	0%
<b>Grand Total</b>	<b>12,933</b>	-

## Appendix 4: ED Admissions to Hospital for MH or SU Reasons

Children and youth ages 0 - 18.9 yrs

Source: NACRS, 2017/18

Health Authority/Site	ED Pediatric Admissions	ED MH Admissions		ED SU Admissions		ED MH&SU Admissions	
		#	% MH/Peds Admissions	#	% SU/Peds Admissions	#	% MH&SU/Peds Admissions
<b>Interior Health</b>	<b>1,546</b>	<b>379</b>	<b>25%</b>	<b>104</b>	<b>7%</b>	<b>483</b>	<b>31%</b>
Kelowna General Hospital	879	226	26%	68		294	33%
Royal Inland Hospital	667	153	23%	36	5%	189	28%
<b>Fraser Health</b>	<b>4,889</b>	<b>959</b>	<b>20%</b>	<b>267</b>	<b>5%</b>	<b>1,226</b>	<b>25%</b>
Abbotsford Regional Hospital	1,164	264	23%	50	4%	314	27%
Burnaby Hospital	177	57	32%	28	16%	85	48%
Chilliwack General Hospital	99	61	62%	14	14%	75	76%
Delta Hospital	74	9	12%	13	18%	22	30%
Eagle Ridge Hospital	154	19	12%	9	6%	28	18%
Fraser Canyon Hospital	2	0	0%	0	0%	0	0%
Langley Memorial Hospital	480	85	18%	37	8%	122	25%
Mission Memorial Hospital	32	2	6%	5	16%	7	22%
Peace Arch Hospital	57	22	39%	6	11%	28	49%
Ridge Meadows Hospital	136	60	44%	11	8%	71	52%
Royal Columbian Hospital	682	142	21%	25	4%	167	24%
Surrey Memorial Hospital	1,832	238	13%	69	4%	307	17%
<b>Vancouver Coastal Health</b>	<b>991</b>	<b>214</b>	<b>22%</b>	<b>51</b>	<b>5%</b>	<b>265</b>	<b>27%</b>
Lions Gate Hospital	450	100	22%	18	4%	118	26%
Mount Saint Joseph Hospital	7	0	0%	0	0%	0	0%
St. Paul's Hospital	36	14	39%	0	0%	14	39%
The Richmond Hospital	318	50	16%	18	6%	68	21%
UBC Hospital	1	0	0%	0		0	0%
Vancouver General Hospital	179	50	28%	15	8%	65	36%
<b>Island Health</b>	<b>2,396</b>	<b>397</b>	<b>17%</b>	<b>126</b>	<b>5%</b>	<b>523</b>	<b>22%</b>
Cowichan District Hospital	218	32	15%	14	6%	46	21%
Nanaimo Regional General Hospital	454	59	13%	18	4%	77	17%
Royal Jubilee Hospital	95	54	57%	11	12%	65	68%
Saanich Peninsula Hospital	6	0	0%	0	0%	0	0%
The North Island Hospital - Campbell River	111	7	6%	6	5%	13	12%
The North Island Hospital - Comox Valley	143	16	11%	9	6%	25	17%
Victoria General Hospital	1,369	229	17%	68	5%	297	22%
<b>Northern Health</b>	<b>401</b>	<b>173</b>	<b>43%</b>	<b>48</b>	<b>12%</b>	<b>221</b>	<b>55%</b>
University Hospital of Northern BC	401	173	43%	48	12%	221	55%
<b>Provincial Health Services Authority</b>	<b>3,499</b>	<b>240</b>	<b>7%</b>	<b>55</b>	<b>2%</b>	<b>295</b>	<b>8%</b>
BC Children's Hospital	3,499	240	7%	55	2%	295	8%
<b>Total</b>	<b>13,722</b>	<b>2,362</b>	<b>17%</b>	<b>651</b>	<b>5%</b>	<b>3,013</b>	<b>22%</b>

## Appendix 5: Inpatient Discharges for MH & SU Reasons by Hospital, Age of Child and Most Responsible Physician

Children and youth ages 0 - 18.9 years old

Source: 2017/18 data, Discharge Abstract Database (DAD)

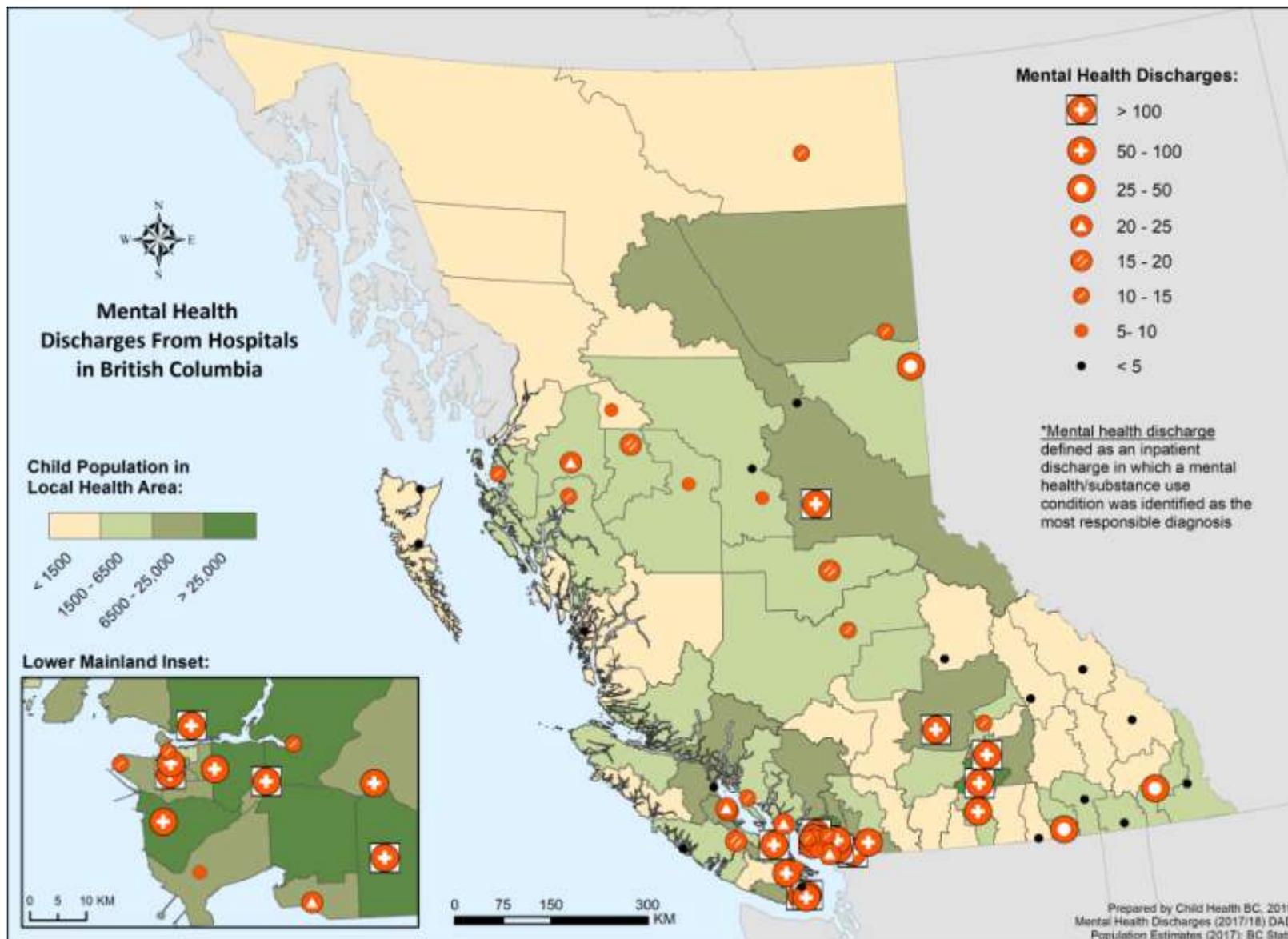
HA / Facility / Most Responsible Physician	Inpatient Discharges					Inpatient Days
	Age of Child					
	0 to 5.99	6 to 11.99	12 to 16.99	17 to 18.99	Grand Total	
<b>Interior Health Authority</b>		<b>39</b>	<b>548</b>	<b>300</b>	<b>887</b>	<b>5,179</b>
<b>Boundary Hospital</b>				<b>1</b>	<b>1</b>	<b>4</b>
Family Practice / General Practice Medicine				1	1	4
Cariboo Memorial Hospital		1	6	5	12	20
Family Practice / General Practice Medicine		1	6	4	11	18
Other				1	1	2
<b>Creston Valley Hospital</b>			<b>2</b>	<b>1</b>	<b>3</b>	<b>6</b>
Family Practice / General Practice Medicine			2	1	3	6
<b>Dr. Helmcken Memorial Hospital</b>				<b>1</b>	<b>1</b>	<b>1</b>
Family Practice / General Practice Medicine				1	1	1
<b>East Kootenay Regional Hospital</b>			<b>14</b>	<b>12</b>	<b>26</b>	<b>136</b>
Psychiatry			9	8	17	74
General Pediatrics			4	3	7	58
Family Practice / General Practice Medicine			1		1	3
Other				1	1	1
<b>Elk Valley Hospital</b>			<b>2</b>		<b>2</b>	<b>4</b>
Family Practice / General Practice Medicine			2		2	4
<b>Golden and District Hospital</b>			<b>2</b>		<b>2</b>	<b>3</b>
Family Practice / General Practice Medicine			2		2	3
<b>Invermere and District Hospital</b>				<b>1</b>	<b>1</b>	<b>2</b>
Family Practice / General Practice Medicine				1	1	2
<b>Kelowna General Hospital</b>		<b>23</b>	<b>210</b>	<b>103</b>	<b>336</b>	<b>2,924</b>
Psychiatry		20	184	90	294	2,560
General Pediatrics		3	26	9	38	354
Family Practice / General Practice Medicine				3	3	9
Other				1	1	1
<b>Kootenay Boundary Regional Hospital</b>			<b>16</b>	<b>20</b>	<b>36</b>	<b>172</b>
Psychiatry			1	10	11	56
General Pediatrics			10		10	43
Family Practice / General Practice Medicine			5	10	15	73
<b>Kootenay Lake Hospital</b>			<b>3</b>	<b>2</b>	<b>5</b>	<b>11</b>
Family Practice / General Practice Medicine			3	2	5	11
<b>Penticton Regional Hospital</b>		<b>2</b>	<b>57</b>	<b>30</b>	<b>89</b>	<b>438</b>
Psychiatry			9	21	30	231
General Pediatrics		2	46	8	56	203
Family Practice / General Practice Medicine			2	1	3	4
<b>Queen Victoria Hospital</b>			<b>1</b>		<b>1</b>	<b>1</b>
Family Practice / General Practice Medicine			1		1	1
<b>Royal Inland Hospital</b>		<b>4</b>	<b>150</b>	<b>64</b>	<b>218</b>	<b>840</b>
Psychiatry		4	139	59	202	737
General Pediatrics			11	1	12	78
Family Practice / General Practice Medicine				2	2	23
Other				2	2	2
<b>Shuswap Lake General Hospital</b>			<b>8</b>	<b>3</b>	<b>11</b>	<b>13</b>
Family Practice / General Practice Medicine			7	3	10	12

HA / Facility / Most Responsible Physician	Inpatient Discharges					Inpatient Days
	Age of Child					
	0 to 5.99	6 to 11.99	12 to 16.99	17 to 18.99	Grand Total	
Other			1		1	1
<b>Vernon Jubilee Hospital</b>		9	77	57	143	604
Psychiatry		8	74	54	136	579
General Pediatrics		1	2		3	12
Family Practice / General Practice Medicine			1	3	4	13
<b>Fraser Health Authority</b>	1	61	764	516	1,342	7,877
<b>Abbotsford Regional Hospital and Cancer Centre</b>	1	20	179	130	330	1,345
Psychiatry		20	161	128	309	1,131
General Pediatrics	1		17		18	152
Family Practice / General Practice Medicine			1	2	3	62
<b>Burnaby Hospital</b>		1	22	43	66	226
Psychiatry		1	22	41	64	212
Other				2	2	14
<b>Chilliwack General Hospital</b>			35	36	71	175
Psychiatry			35	36	71	175
<b>Delta Hospital</b>			4	3	7	7
Family Practice / General Practice Medicine			2	3	5	5
Other			2		2	2
<b>Eagle Ridge Hospital</b>			6	5	11	11
Family Practice / General Practice Medicine			1	1	2	2
Other			5	4	9	9
<b>Langley Memorial Hospital</b>		3	57	44	104	559
Psychiatry		3	52	40	95	424
General Pediatrics			5	2	7	131
Family Practice / General Practice Medicine				2	2	4
<b>Peace Arch District Hospital</b>			8	15	23	158
Psychiatry			7	12	19	154
Family Practice / General Practice Medicine				2	2	2
Other			1	1	2	2
<b>Ridge Meadows Hospital And Health Care Centre</b>		4	31	35	70	339
Psychiatry		4	30	31	65	326
General Pediatrics			1		1	1
Family Practice / General Practice Medicine				4	4	12
<b>Royal Columbian Hospital</b>		7	91	68	166	568
Psychiatry		5	75	63	143	435
General Pediatrics		2	11	1	14	113
Paediatric Medical Subspecialty			1		1	1
Family Practice / General Practice Medicine			3	3	6	10
Other			1	1	2	9
<b>Surrey Memorial Hospital</b>		26	331	137	494	4,489
Psychiatry		26	316	131	473	4,317
General Pediatrics			15		15	99
Family Practice / General Practice Medicine				5	5	66
Other				1	1	7
<b>Vancouver Coastal Health Authority</b>	1	6	133	170	310	2,405
<b>Lions Gate Hospital</b>	1	4	76	54	135	1,281
Psychiatry	1	3	69	54	127	1,192
General Pediatrics		1	7		8	89
<b>Powell River General Hospital</b>		1	8	2	11	57
Psychiatry			3	2	5	35
Family Practice / General Practice Medicine		1	5		6	22

HA / Facility / Most Responsible Physician	Inpatient Discharges					Inpatient Days
	Age of Child					
	0 to 5.99	6 to 11.99	12 to 16.99	17 to 18.99	Grand Total	
<b>R.W. Large Memorial Hospital</b>				<b>2</b>	<b>2</b>	<b>3</b>
Family Practice / General Practice Medicine				2	2	3
<b>Richmond Hospital</b>		<b>1</b>	<b>37</b>	<b>21</b>	<b>59</b>	<b>200</b>
Psychiatry		1	36	19	56	197
Family Practice / General Practice Medicine			1	2	3	3
<b>Sechelt Hospital</b>			<b>12</b>	<b>10</b>	<b>22</b>	<b>115</b>
Psychiatry			5	6	11	90
Family Practice / General Practice Medicine			7	4	11	25
<b>St. Paul's Hospital</b>				<b>12</b>	<b>12</b>	<b>150</b>
Psychiatry				12	12	150
<b>UBC Health Sciences Centre</b>				<b>12</b>	<b>12</b>	<b>183</b>
Psychiatry				12	12	183
<b>Vancouver General Hospital</b>				<b>57</b>	<b>57</b>	<b>416</b>
Psychiatry				56	56	407
Other				1	1	9
<b>Island Health Authority</b>	<b>2</b>	<b>64</b>	<b>373</b>	<b>212</b>	<b>651</b>	<b>6,923</b>
<b>Campbell River and District General Hospital</b>			<b>1</b>		<b>1</b>	<b>4</b>
Family Practice / General Practice Medicine			1		1	4
<b>Comox Valley Hospital</b>		<b>1</b>	<b>8</b>	<b>12</b>	<b>21</b>	<b>160</b>
Psychiatry			6	12	18	139
General Pediatrics		1	2		3	21
<b>Cowichan District Hospital</b>			<b>35</b>	<b>16</b>	<b>51</b>	<b>310</b>
Psychiatry			5	10	15	112
General Pediatrics			4		4	41
Family Practice / General Practice Medicine			25	6	31	155
Other			1		1	2
<b>Lady Minto / Gulf Islands Hospital</b>			<b>4</b>	<b>5</b>	<b>9</b>	<b>47</b>
Psychiatry			1	2	3	19
Family Practice / General Practice Medicine			3	3	6	28
<b>Nanaimo Regional General Hospital</b>	<b>1</b>	<b>5</b>	<b>65</b>	<b>56</b>	<b>127</b>	<b>717</b>
Psychiatry			24	19	43	455
General Pediatrics	1	5	18	2	26	201
Family Practice / General Practice Medicine			5	3	8	8
Other			18	32	50	53
<b>Queen Alexandra Centre for Children's Health</b>		<b>35</b>	<b>70</b>	<b>4</b>	<b>109</b>	<b>3,142</b>
Psychiatry		35	70	4	109	3,142
<b>Royal Jubilee Hospital</b>			<b>2</b>	<b>93</b>	<b>95</b>	<b>804</b>
Psychiatry				86	86	761
Family Practice / General Practice Medicine				4	4	7
Other			2	3	5	36
<b>Saanich Peninsula Hospital</b>				<b>1</b>	<b>1</b>	<b>1</b>
Family Practice / General Practice Medicine				1	1	1
<b>St. Joseph's General Hospital</b>		<b>1</b>	<b>6</b>	<b>11</b>	<b>18</b>	<b>182</b>
Psychiatry			3	10	13	172
Family Practice / General Practice Medicine		1	3	1	5	10
<b>Tofino General Hospital</b>			<b>2</b>		<b>2</b>	<b>2</b>
Family Practice / General Practice Medicine			2		2	2
<b>Victoria General Hospital</b>	<b>1</b>	<b>21</b>	<b>177</b>	<b>1</b>	<b>200</b>	<b>1,478</b>
Psychiatry		2	29		31	134
General Pediatrics	1	18	147		166	1,335
Family Practice / General Practice Medicine			1	1	2	7
Other		1			1	2

HA / Facility / Most Responsible Physician	Inpatient Discharges					Inpatient Days
	Age of Child					
	0 to 5.99	6 to 11.99	12 to 16.99	17 to 18.99	Grand Total	
<b>West Coast General Hospital</b>		<b>1</b>	<b>3</b>	<b>13</b>	<b>17</b>	<b>76</b>
Psychiatry			3	13	16	75
General Pediatrics		1			1	1
<b>Northern Health Authority</b>		<b>12</b>	<b>239</b>	<b>161</b>	<b>412</b>	<b>3,905</b>
<b>Bulkley Valley District Hospital</b>			<b>13</b>	<b>4</b>	<b>17</b>	<b>82</b>
Family Practice / General Practice Medicine			13	4	17	82
<b>Burns Lake and District Hospital</b>			<b>2</b>	<b>5</b>	<b>7</b>	<b>16</b>
Family Practice / General Practice Medicine			2	5	7	16
<b>Dawson Creek and District Hospital</b>			<b>5</b>	<b>23</b>	<b>28</b>	<b>286</b>
Psychiatry			1	22	23	277
Family Practice / General Practice Medicine			4	1	5	9
<b>Fort Nelson General Hospital</b>			<b>9</b>	<b>6</b>	<b>15</b>	<b>58</b>
Family Practice / General Practice Medicine			9	6	15	58
<b>Fort St. John General Hospital</b>		<b>1</b>	<b>7</b>	<b>7</b>	<b>15</b>	<b>36</b>
Psychiatry			3	1	4	5
Family Practice / General Practice Medicine		1	4	6	11	31
<b>G.R. Baker Memorial Hospital</b>			<b>9</b>	<b>10</b>	<b>19</b>	<b>101</b>
Psychiatry			3	5	8	52
Family Practice / General Practice Medicine			6	5	11	49
<b>Kitimat General Hospital</b>			<b>9</b>	<b>5</b>	<b>14</b>	<b>44</b>
Family Practice / General Practice Medicine			9	5	14	44
<b>Mackenzie And District Hospital</b>			<b>1</b>		<b>1</b>	<b>21</b>
Family Practice / General Practice Medicine			1		1	21
<b>Masset Hospital</b>				<b>1</b>	<b>1</b>	<b>7</b>
Family Practice / General Practice Medicine				1	1	7
<b>Mills Memorial Hospital</b>		<b>1</b>	<b>12</b>	<b>11</b>	<b>24</b>	<b>127</b>
General Pediatrics			1	2	3	21
Family Practice / General Practice Medicine		1	11	9	21	106
<b>Prince George Regional Hospital</b>		<b>10</b>	<b>148</b>	<b>75</b>	<b>233</b>	<b>2,999</b>
Psychiatry		9	128	71	208	2,896
General Pediatrics			3		3	49
Family Practice / General Practice Medicine		1	17	4	22	54
<b>Prince Rupert Regional Hospital</b>			<b>9</b>	<b>4</b>	<b>13</b>	<b>58</b>
Family Practice / General Practice Medicine			9	4	13	58
<b>Queen Charlotte Islands General Hospital</b>			<b>1</b>	<b>1</b>	<b>2</b>	<b>3</b>
Family Practice / General Practice Medicine			1	1	2	3
<b>St. John's Hospital</b>			<b>7</b>	<b>4</b>	<b>11</b>	<b>23</b>
Family Practice / General Practice Medicine			7	4	11	23
<b>Stuart Lake Hospital</b>			<b>2</b>		<b>2</b>	<b>4</b>
Family Practice / General Practice Medicine			2		2	4
<b>Wrinch Memorial Hospital</b>			<b>5</b>	<b>5</b>	<b>10</b>	<b>40</b>
Family Practice / General Practice Medicine			5	5	10	40
<b>Provincial Health Services Authority</b>	<b>6</b>	<b>99</b>	<b>306</b>	<b>36</b>	<b>447</b>	<b>7,412</b>
<b>B.C. Children's Hospital</b>	<b>6</b>	<b>99</b>	<b>306</b>	<b>36</b>	<b>447</b>	<b>7,412</b>
Psychiatry	3	80	255	28	366	6,640
General Pediatrics	1	3	15	1	20	74
Paediatric Medical Subspecialty	2	15	36	7	60	697
Other		1			1	1
<b>Grand Total</b>	<b>10</b>	<b>281</b>	<b>2,363</b>	<b>1,395</b>	<b>4,049</b>	<b>33,701</b>
<b>% Total Discharges</b>	<b>0%</b>	<b>7%</b>	<b>58%</b>	<b>34%</b>	<b>100%</b>	

## Appendix 6: Map of Inpatient Discharges for MH & SU Reasons



## Appendix 7: HA Operated Pediatric Inpatient Beds in BC (includes MH & SU beds)

HA	Hospital	General Pediatric Beds	Pediatric Observati on Beds	Ped ICU Beds <sup>2</sup>	Child & Youth MH Beds	Youth SU Beds <sup>3</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
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>4</sup>
	Burnaby							8
	Creekside Withdrawal Management Centre					6	6	
	Last Door Recovery Centre					10 <sup>5</sup>	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	16		5			21	22
	Cowichan District (Duncan)	4					4	
	Campbell River	1					1	
	Ledger House				14 <sup>6</sup>		14	
NHA	University Hospital of Northern B.C.	12 <sup>7</sup>			6 <sup>8</sup>		18	9
	Nechako Centre					8 <sup>9</sup>		
PHSA	B.C. Children's Hospital	97		22	54 <sup>10</sup>		173	
	BC Women's							60
	Ashnola (Keremeos)					22 <sup>11</sup>	22	
<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, 2012/13.

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

<sup>2</sup> Beds have the capacity for invasive monitoring, inotropic drugs and mechanical ventilation.

<sup>3</sup> Excludes beds in home-based settings.

<sup>4</sup> Plan to increase to 48 beds in the future.

<sup>5</sup> Contracted beds and number of beds fluctuates.

<sup>6</sup> 14 beds: 5 child, 6 youth & 3 special care (assessment/stabilization) beds.

<sup>7</sup> 4 beds have the capacity for more intensive monitoring, up to and including continuous cardiorespiratory monitoring.

<sup>8</sup> 2 beds for planned admissions and 4 for crisis stabilization.

<sup>9</sup> Includes 1 detox bed.

<sup>10</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.

<sup>11</sup> Includes beds for ages 17 - 24.