



Ministry of Health Consolidated Analytics Services

Title Hospitalizations with Select D56 & D57 Diagnosis Codes

Completion Date 2021-04-29

Client CFR 2021-11477 - P. Frederick Records/NRR

Program Area

Question being asked

Copy of hospital admission or discharge data for the ICD-10-CA diagnostic codes below for each hospital in the province of BC between 2015 and 2019: The number of admissions (counts) or discharges (counts) recorded in each BC hospital, each year of the 2015-2019 period, for each of the ICD-10-CA codes listed below.

List of ICD-10-CA codes for this study: D56 Thalassemia (overarching indication), D56.1 Beta-thalassemia (incl. severe beta thal thalassemia - intermedia & major), D56.3 Thalassemia trait (incl. thal. (beta) minor), D56.9 Thalassemia, unspecified (incl. Mediterranean anemia with other haemoglobinopathy; mixed thalassemia with other haemoglobinopathy), D57 Sick Cell Disorders, D57.0 Sickle cell anemia with crisis (Hb-SS), D57.1 Sickle cell anemia without crisis (Hb-SS), D57.2 Double heterozygous sickling disorders (Hb-SC; Hb-SD; Hb-SE; sickle cell thalassemia), D57.3 Sickle cell trait (Hb-S trait; heterozygous hemoglobin S - Hb-AS)

(Date Range for Record Search: From 1/1/2015 To 12/31/2019)

Summary of Analysis

In consideration of the client's preferences for data aggregation, hospitalization counts for the listed ICD-10-CA codes were provided 1. by Health Authority (HA) across all calendar years (2015-2019) and 2. by calendar year across all Health Authorities. As well, case counts falling under ICD-10-CA diagnoses codes D56 and D57 were provided 3. by Health Authority and calendar year, and 4. by hospital across all calendar years.

In British Columbia (BC), a total of 1279 hospitalizations with a D56 (Thalassemia) diagnosis code and 635 hospitalizations with a D57 (Sickle-cell disorder) diagnosis were found from 2015-2019. BC hospitalizations with a D56 diagnosis code increased over the years analyzed, and cases with a specific D56.3 diagnosis code followed that trend. Of the specific D57 codes considered, case counts for D57.0 were generally the largest.

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PAS # 3000.2310 **Filename** CFR 2021-11477 - Hospitalizations with Select D56 & D57 Diagnosis Codes - 2015-2019

The information contained in this/these spreadsheet(s) is of a summary nature and may be released in its entirety (Cover Sheet and relevant Tabs) for the purpose for which it was provided. However, as it was prepared to address a specific question, other use or manipulation of the data is not permitted.

Hospitalizations with Select D56 & D57 Diagnosis Codes

Filename CFR 2021-11477 - Hospitalizations with Select D56 & D57 Diagnosis Codes - 2015-2019.xlsx

Data source 1 Discharge Abstract Data Base

Extract date 2021-04-29

Notes

- 1 Hospital discharge data for cases with any ICD-10-CA diagnosis codes (diagx1-diagx25) under the categories D56 (Thalassaemia) and D57 (Sickle-cell disorders) was extracted for BC hospitals based on discharge dates between January 1, 2015 and December 31, 2019. Specific hospitalization counts were included for each of the following ICD-10-CA diagnosis codes: D56.1, D56.3, D56.9, D57.0, D57.1, D57.2, D57.3.
- 2 Please note category D56 includes cases with any of the following ICD-10-CA codes: D56.0-D56.4, D56.8 & D56.9 and category D57 includes cases with any of the following ICD-10-CA codes: D57.0-D57.3 & D57.8. Individual counts were provided for a requested subset of these ICD-10-CA codes. Summing individual counts for specific diagnosis codes will not yield total counts of cases with those diagnosis codes nor match overall category counts as multiple diagnosis codes may occur in a single case and not all codes in each category were requested.
- 3 Extraction by discharge date is standard business practice and will exclude hospitalizations of patients discharged after December 31, 2019 even though the patient may have been admitted by this date.
- 4 Please note this is a workload report and only captures cases in BC hospitals (hosp <> 997). This excludes cases where a BC resident was treated at an out-of-province facility, but includes cases where an out-of-province resident was treated in BC.
- 5 Care levels included in this report are Acute Care, Rehabilitation, and Psychiatric (care_level in 'A', 'R', 'P'). Day Surgery cases were excluded.
- 6 This report excludes abortion related records (abortion is null and hosp not in (50, 51, 53))
- 7 A number of cells were suppressed due to small cell size (≤ 5). Suppressions are indicated follows:
 * denotes a primary suppression in that cell
 ** denotes a secondary suppression in that cell

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Hospitalizations with Select D56 & D57 Diagnosis Codes

Date range: 01/01/2015 to 12/31/2019

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Hospitalizations with D56 Diagnosis Codes by Health Authority				
Health Authority	D56†	D56.1	D56.3	D56.9
1 Interior	61	15	11	28
2 Fraser	626	87	246	101
3 Vancouver Coastal	204	31	57	60
4 Vancouver Island	59	8	14	24
5 Northern	12	7	*	
6 Provincial Health Services Authority	317	52	171	23
Total	1279	200	503	236

† This reflects hospitalizations with any of the following ICD-10-CA diagnosis codes: D56.0-D56.4, D56.8 & D56.9, but may not be equal to the sum of case counts for the individual diagnoses codes as multiple diagnosis codes may occur in a single case.

Hospitalizations with D57 Diagnosis Codes by Health Authority					
Health Authority	D57††	D57.0	D57.1	D57.2	D57.3
1 Interior	70	51	16		*
2 Fraser	188	134	29	7	18
3 Vancouver Coastal	172	144	24	8	*
4 Vancouver Island	77	58	**		*
5 Northern	25	22	*		*
6 Provincial Health Services Authority	103	56	28	14	7
Total	635	465	114	29	35

†† This reflects hospitalizations with any of the following ICD-10-CA diagnosis codes: D57.0-D57.3 & D57.8, but may not be equal to the sum of case counts for the individual diagnoses codes as multiple diagnosis codes may occur in a single case.

Hospitalizations with Select D56 & D57 Diagnosis Codes

Date range: 01/01/2015 to 12/31/2019

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Hospitalizations with D56 Diagnosis Codes by Calendar Year				
Calendar Year	D56†	D56.1	D56.3	D56.9
2015	171	31	47	57
2016	214	39	81	44
2017	242	39	108	48
2018	289	32	126	48
2019	363	59	141	39
Total	1279	200	503	236

† This reflects hospitalizations with any of the following ICD-10-CA diagnosis codes: D56.0-D56.4, D56.8 & D56.9, but may not be equal to the sum of case counts for the individual diagnoses codes as multiple diagnosis codes may occur in a single case.

Hospitalizations with D57 Diagnosis Codes by Calendar Year					
Calendar Year	D57††	D57.0	D57.1	D57.2	D57.3
2015	124	86	27	9	*
2016	128	94	23	7	*
2017	123	95	18	*	8
2018	118	86	20	*	11
2019	142	104	26	6	6
Total	635	465	114	29	35

†† This reflects hospitalizations with any of the following ICD-10-CA diagnosis codes: D57.0-D57.3 & D57.8, but may not be equal to the sum of case counts for the individual diagnoses codes as multiple diagnosis codes may occur in a single case.

Hospitalizations with Select D56 & D57 Diagnosis Codes

Date range: 01/01/2015 to 12/31/2019

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Hospitalizations with D56† Diagnosis Codes by Health Authority and Calendar Year						
Health Authority	2015	2016	2017	2018	2019	Total
1 Interior	12	15	**	**	**	61
2 Fraser	62	80	97	161	226	626
3 Vancouver Coastal	45	37	45	39	38	204
4 Vancouver Island	**	**	16	14	15	59
5 Northern	*	*	*	*	*	12
6 Provincial Health Services Authority	41	73	70	59	74	317
Total	171	214	242	289	363	1279

† This reflects hospitalizations with any of the following ICD-10-CA diagnosis codes: D56.0-D56.4, D56.8 & D56.9, but may not be equal to the sum of case counts for the individual diagnoses codes as multiple diagnosis codes may occur in a single case.

Hospitalizations with D57†† Diagnosis Codes by Health Authority and Calendar Year						
Health Authority	2015	2016	2017	2018	2019	Total
1 Interior	**	13	**	**	23	70
2 Fraser	30	37	42	36	43	188
3 Vancouver Coastal	32	32	36	34	38	172
4 Vancouver Island	19	15	**	18	**	77
5 Northern	*	8	*	*	*	25
6 Provincial Health Services Authority	24	23	20	13	23	103
Total	124	128	123	118	142	635

†† This reflects hospitalizations with any of the following ICD-10-CA diagnosis codes: D57.0-D57.3 & D57.8, but may not be equal to the sum of case counts for the individual diagnoses codes as multiple diagnosis codes may occur in a single case.

Hospitalizations with Select D56 & D57 Diagnosis Codes

Date range: 01/01/2015 to 12/31/2019

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Hospitalizations with D56 and D57 Diagnosis Codes by Hospital			
	Hospital	D56†	D57††
1 Interior	301 Vernon Jubilee Hospital	*	
	302 Kelowna General Hospital	14	44
	303 Penticton Regional Hospital	*	*
	401 Royal Inland Hospital	25	22
	402 Queen Victoria Hospital	*	
	406 Cariboo Memorial Hospital	*	*
	651 Kootenay Lake Hospital	*	
	654 Creston Valley Hospital	*	
	753 Elk Valley Hospital	*	
	756 East Kootenay Regional Hospital	*	*
	803 Boundary Hospital	*	
	Interior Total	61	70
2 Fraser	109 Royal Columbian Hospital	36	22
	115 Langley Memorial Hospital	23	*
	116 Surrey Memorial Hospital	467	92
	130 Burnaby Hospital	34	25
	131 Peace Arch District Hospital	16	*
	134 Delta Hospital	*	
	135 Queen's Park Hospital	*	
	136 Eagle Ridge Hospital and Health Care Centre	15	8
	601 Chilliwack General Hospital	*	*
	602 Mission Memorial Hospital	*	
	604 Ridge Meadows Hospital and Health Care Centre	*	
	609 Abbotsford Regional Hospital and Cancer Centre	22	32
	Fraser Total	626	188
3 Vancouver Coastal	101 Vancouver General Hospital	48	58
	102 St. Paul's Hospital	83	105
	106 Mount Saint Joseph Hospital	9	*
	111 Powell River General Hospital	*	
	112 Lions Gate Hospital	14	6
	113 Sechelt Hospital/shishalh Hospital	*	
	118 Holy Family Hospital	*	
	121 Richmond Hospital	41	*
	123 UBC Health Sciences Centre	*	*
	Vancouver Coastal Total	204	172
4 Vancouver Island	201 Royal Jubilee Hospital	*	8
	202 Victoria General Hospital	32	26
	203 Cowichan District Hospital	*	*
	217 Saanich Peninsula Hospital	*	*
	501 Nanaimo Regional General Hospital	11	35
	502 St. Joseph's General Hospital	*	*
	503 North Island Hospital, Comox Valley	*	*
	508 North Island Hospital, Campbell River and District	*	
	851 West Coast General Hospital	*	
	854 Tofino General Hospital		*
	Vancouver Island Total	59	77
5 Northern	701 Fort St. John General Hospital	*	*
	703 The University Hospital of Northern British Columbia	8	24
	704 Dawson Creek and District Hospital		*
	902 Prince Rupert Regional Hospital	*	*
	912 Mills Memorial Hospital	*	*
	Northern Total	12	25
6 PHSA	104 B.C. Women's Hospital	268	10
	105 B.C. Children's Hospital	33	93
	107 B.C. Cancer Agency	9	
	114 Sunny Hill Health Centre for Children	7	
	Provincial Health Services Authority Total	317	103
	British Columbia Total - All Health Authorities	1279	635

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