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Additional Emergency Department (ED)  
Mental Health Compass Analyses for  
Alberta Health Services Zone: South

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# Additional Emergency Department (ED) Mental Health Compass Analyses for Alberta Health Services Zone: SOUTH

## Emergency Department Visits by Children and Youth Aged 0 to 17 Years, 2002-2008

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## 1. 2008-2011 update

The 2008-2011 dataset has been created by Alberta Health but has not been released for analysis.

## 2. Mental health Emergency Department (ED) visits in each sub-regional health authority (subRHA)

We created a table of frequency (n) and percentage (%) of ED mental health visits by RHA and subRHA in South Zone for each fiscal year and all years combined.

**Table 1**

RHA	SubRHA	02/03	%	03/04	%	04/05	%	05/06	%	06/07	%	07/08	%	All	%
R1 Chinook Regional Health Authority	n	217		228		265		221		279		293		1503	
	R101 Crowsnest Pincher Creek	34	15.7	27	11.8	40	15.1	34	15.4	47	16.8	44	15.0	226	15.0
	R102 Ft McLeod Cardston	47	21.7	53	23.2	68	25.7	50	22.6	64	22.9	72	24.6	354	23.6
	R103 Lethbridge	84	38.7	90	39.5	110	41.5	91	41.2	101	36.2	120	41.0	596	39.7
	R104 Picture Butte Raymond Milk R	35	16.1	39	17.1	26	9.8	23	10.4	33	11.8	26	8.9	182	12.1
	R105 Vauxhall Taber	17	7.8	19	8.3	21	7.9	23	10.4	34	12.2	31	10.6	145	9.6
R2 Palliser Health Region	n	139		149		169		180		161		189		987	
	R201 Palliser North and Central	92	66.2	105	70.5	107	63.3	132	73.3	96	59.6	146	77.2	678	68.7
	R202 Palliser West	47	33.8	44	29.5	62	36.7	48	26.7	65	40.4	43	22.8	309	31.3

*Interpretation:* There was an overall increase in the number of ED mental health visits from 2002 to 2008 in the Palliser North and Central region. Of particular interest was Brooks, which is part of the Palliser West region. The number of ED mental health visits fluctuated every other year from 2002 to 2008 in Brooks.

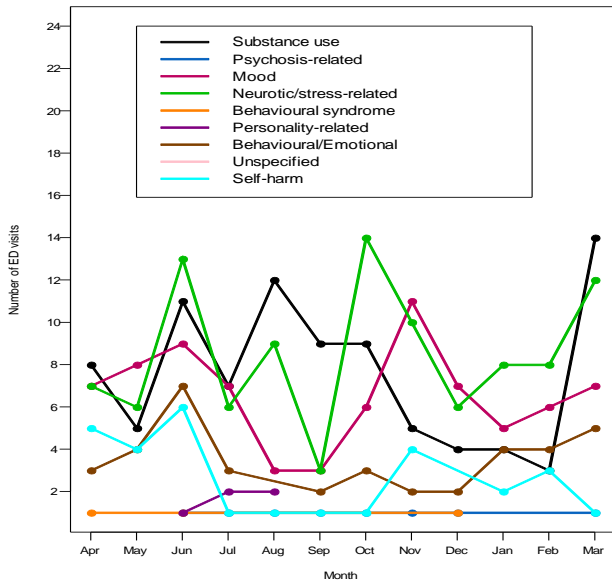
## 3. Time and month of presentation by type of mental health diagnosis

### Month of presentation

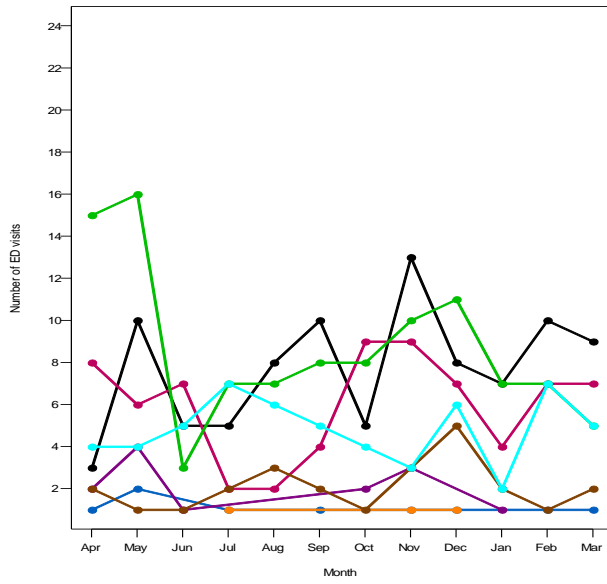
The plots on the following page show ED mental health visits by month and diagnosis for each fiscal year separately for South Zone. Note that for fiscal years 2002/2003, 2003/2004, and 2005/2006, no ED visits were reported with the diagnosis “unspecified diagnosis”. For fiscal year 2004/2005, less than six ED visits were reported with the diagnosis “behavioral syndrome”. Table 2 in the Appendix provides a tabular display of the frequency (n) and percentage (%) of ED mental health visits by month and diagnosis for each fiscal year and all years combined for South Zone.

*Interpretation:* In South Zone, the largest number of ED mental health visits in April was for neurotic/stress-related disorders.

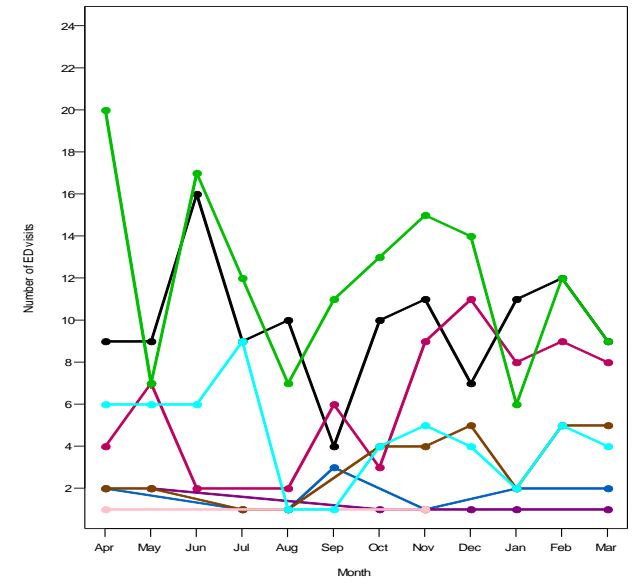
ED visit by month and diagnosis for fiscal year 2002/2003



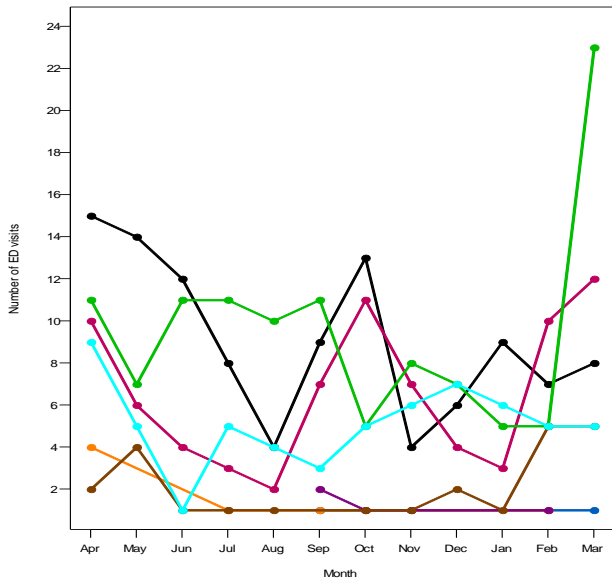
ED visit by month and diagnosis for fiscal year 2003/2004



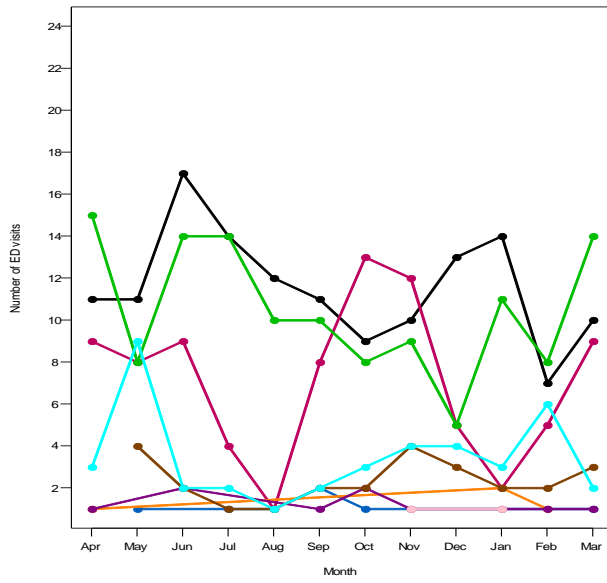
ED visit by month and diagnosis for fiscal year 2004/2005



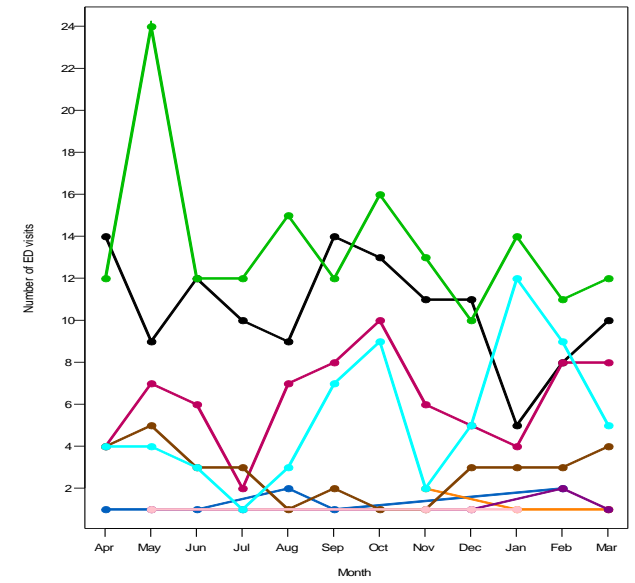
ED visit by month and diagnosis for fiscal year 2005/2006



ED visit by month and diagnosis for fiscal year 2006/2007



ED visit by month and diagnosis for fiscal year 2007/2008



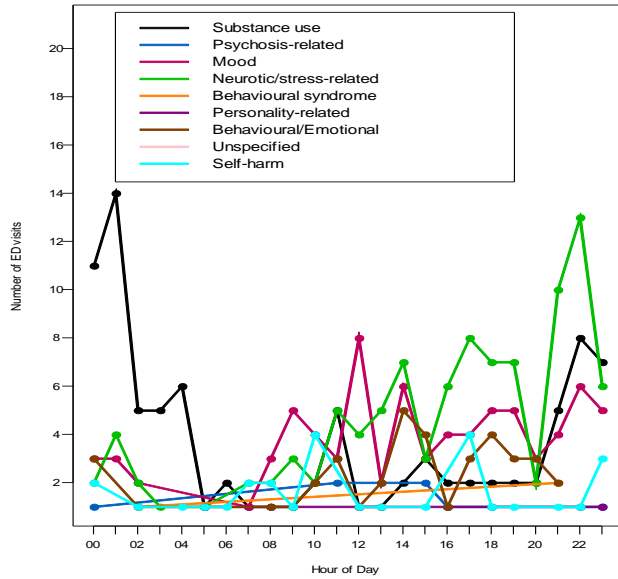
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### Time of presentation

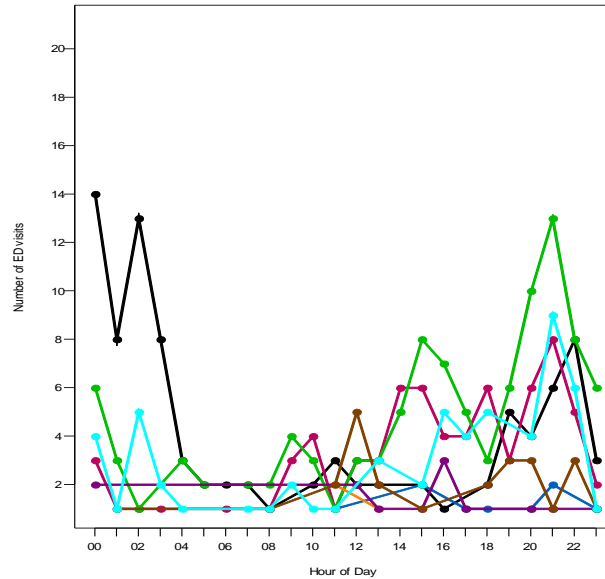
The plots on the following page show ED mental health visits by hour of the day and diagnosis for each fiscal year separately for South Zone. Note that for fiscal years 2002/2003, 2003/2004, and 2005/2006, no ED visits were reported with the diagnosis “unspecified diagnosis”. For fiscal year 2004/2005, less than six ED visits were reported with the diagnosis “behavioral syndrome”. Table 3 of the Appendix provides the frequency (n) and percentage (%) of ED mental health visits by hour of the day and diagnosis for each fiscal year and all years combined for South Zone.

*Interpretation:* In South Zone, the ED visits which dominated during early hours of the day were for mental and behavioural disorders due to substance use (from 0:00 a.m. to 4:00 a.m.), and there was an overall increase in the number of ED visits for neurotic/stress related disorders after 4:00 a.m.

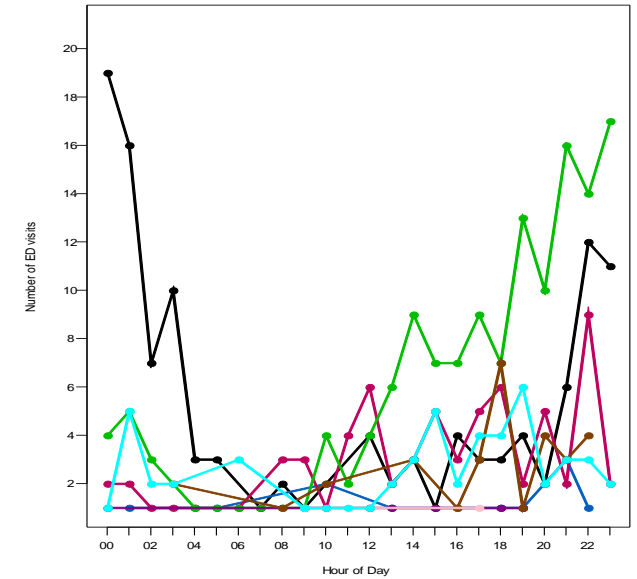
ED visit by hour and diagnosis for fiscal year 2002/2003



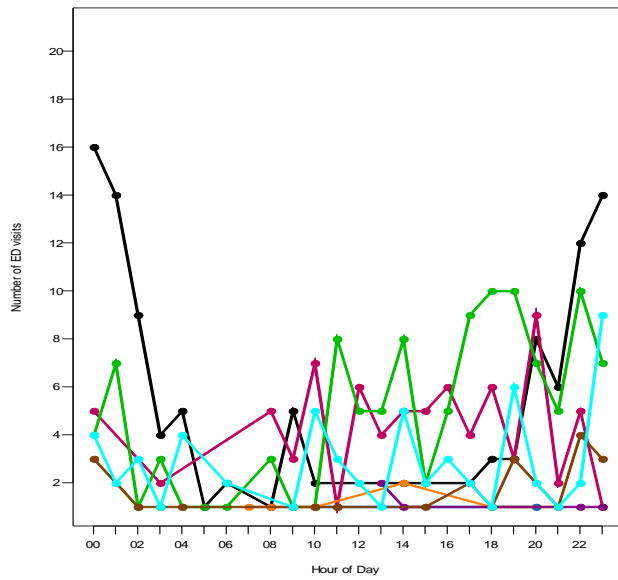
ED visit by hour and diagnosis for fiscal year 2003/2004



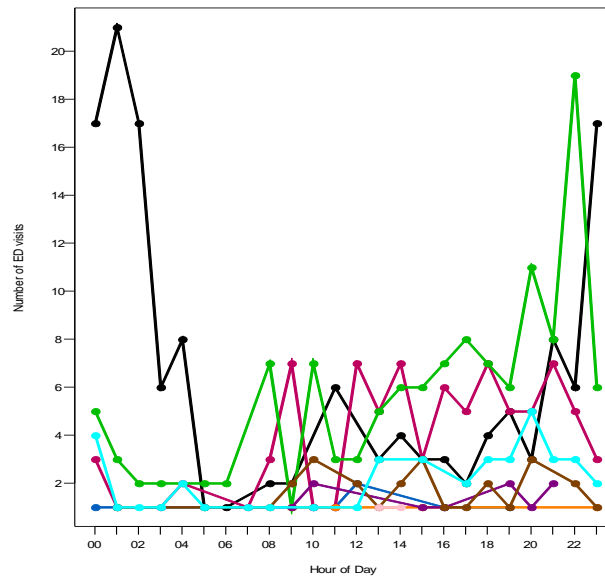
ED visit by hour and diagnosis for fiscal year 2004/2005



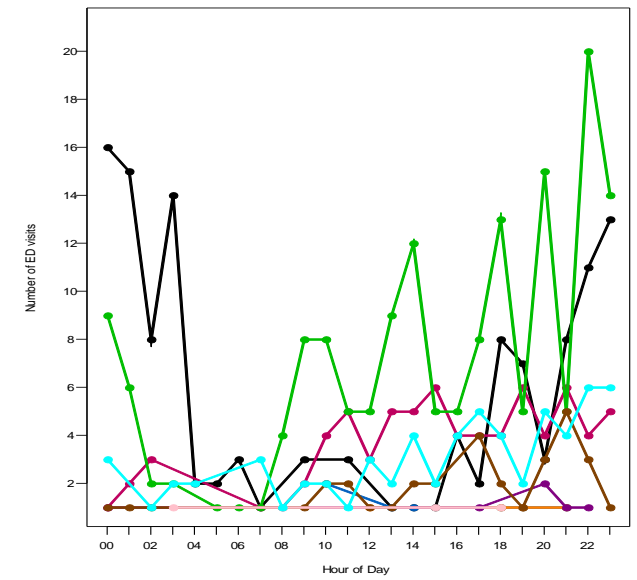
ED visit by hour and diagnosis for fiscal year 2005/2006



ED visit by hour and diagnosis for fiscal year 2006/2007



ED visit by hour and diagnosis for fiscal year 2007/2008



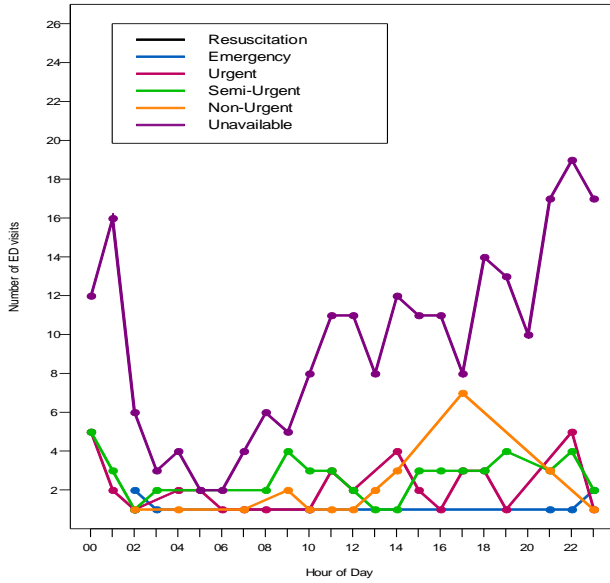
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#### 4. Triage score (level of acuity) by time of day

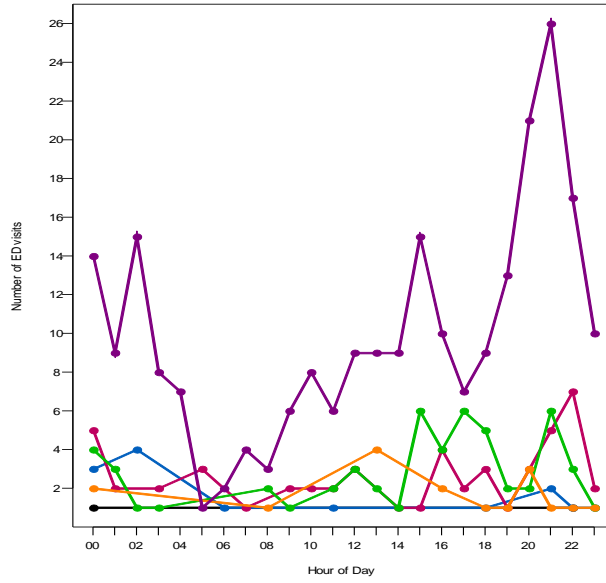
The plots on the following page show ED mental health visits by hour of the day and triage level for each fiscal year separately for South Zone.

*Interpretation:* Ignoring the acuity level of ED visit that was unavailable, the acuity levels which dominated during early hours of the day in South Zone were urgent and semi-urgent.

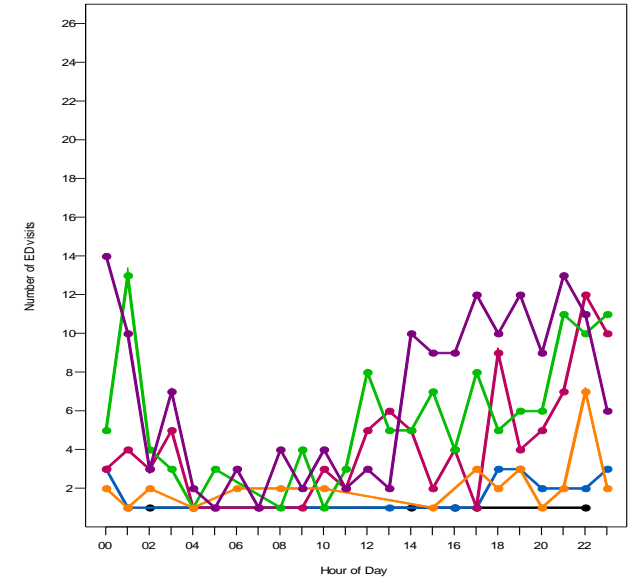
ED visit by hour and triage level for fiscal year 2002/2003



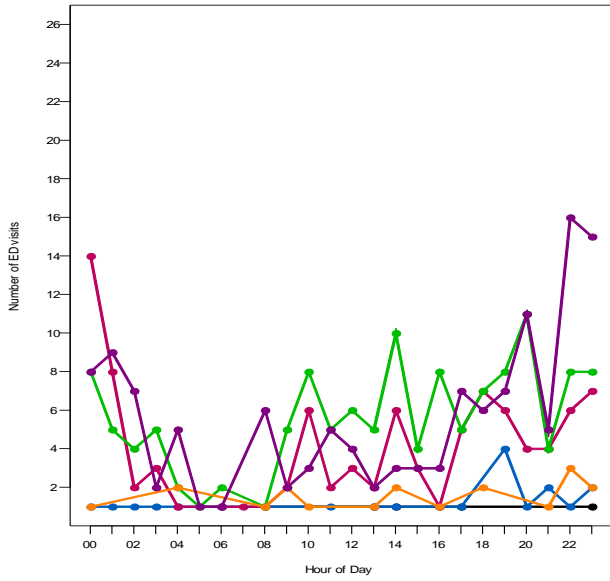
ED visit by hour and triage level for fiscal year 2003/2004



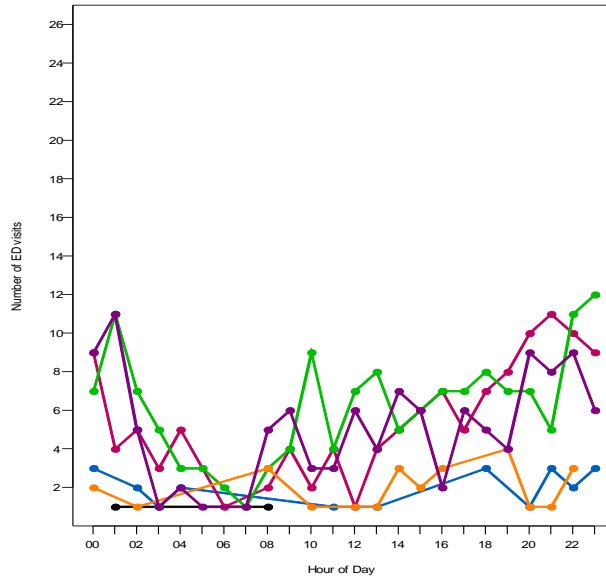
ED visit by hour and triage level for fiscal year 2004/2005



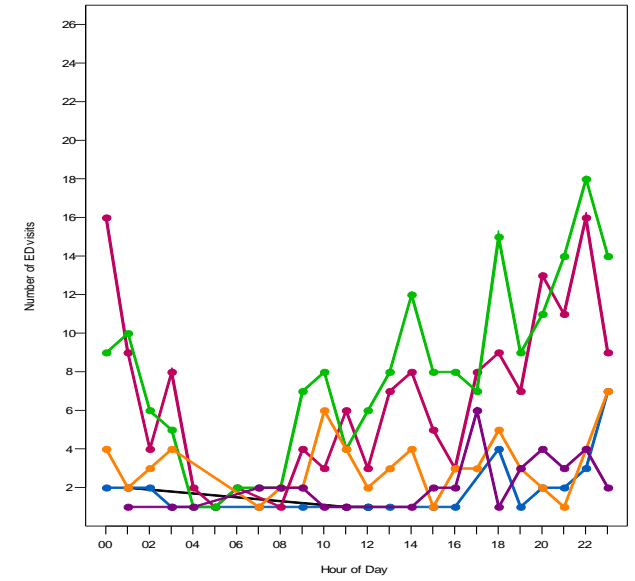
ED visit by hour and triage level for fiscal year 2005/2006



ED visit by hour and triage level for fiscal year 2006/2007



ED visit by hour and triage level for fiscal year 2007/2008





## 5. Where children are coming from for an ED visit (geographic distance)

The data file contained two geographic aspects: location of residence of patient and location of ED facility. These data were available at the sub-Regional Health Authority (subRHA) and recoded to correspond to RHA and Zone. To show the geographic distance, we created three tables of frequency (n) and percentage (%) of the ED mental health visits by:

- Residence Zone of South and facility Zones for each fiscal year and all years combined (Table 4);
- Residence RHA in South Zone and facility RHA in all Zones for each fiscal year and all years combined (Table 5);
- Residence subRHA in South Zone and facility subRHA in all Zones for each fiscal year and all years combined (Table 6).

Note that we excluded ED visits where the patient had an unknown health region of residence. In Table 6, we only included those rows that have counts greater than five in at least one year.

*Interpretation:* In Table 4, 92% of the children from South Zone visited an ED located in their own Zone. In Table 5, 91.6% of the children from Chinook RHA visited an ED located in their own RHA, and 88.8% of the children from Palliser health region also visited an ED located in their own RHA. In Table 6, 74.3% of the children from Crowsnest Pincher Creek subRHA, 52.8% of the children from Ft McLeod Cardston subRHA, 84.6% of the children from Lethbridge subRHA, 39% of the children from Picture Butte Raymond Milk R subRHA, 64.1% of the children from Vauxhall Taber subRHA, 87.5% of the children from Palliser North and Central subRHA, and 83.2% of the children from Palliser West subRHA visited an ED located in their own subRHA.

**Table 4**

Residence Zone	Facility Zone	02/03	%	03/04	%	04/05	%	05/06	%	06/07	%	07/08	%	All	%
South	n	356		377		434		401		440		482		2490	
	Calgary	6	1.7	11	2.9	18	4.1	25	6.2	19	4.3	17	3.5	96	3.9
	Central	-	-	7	1.9	-	-	-	-	-	-	10	2.1	39	1.6
	Edmonton	7	2.0	-	-	12	2.8	6	1.5	13	3.0	-	-	48	1.9
	North	-	-	-	-	-	-	-	-	-	-	-	-	17	0.7
	South	335	94.1	349	92.6	396	91.2	365	91.0	399	90.7	446	92.5	2290	92.0
	Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Low counts (1 to 5) or other counts (and corresponding %) are replaced by '-' for patient confidentiality.

**Table 5**

Residence RHA	Facility RHA	02/03	%	03/04	%	04/05	%	05/06	%	06/07	%	07/08	%	All	%
<b>R1 Chinook Regional Health Authority (RHA)</b>	n	217		228		265		221		279		293		1503	
	R1 Chinook Regional Health Authority	205	94.5	208	91.2	239	90.2	202	91.4	252	90.3	270	92.2	1376	91.6
	R2 Palliser Health Region	-	-	-	-	-	-	-	-	-	-	-	-	14	0.9
	R3 Calgary Health Region	-	-	-	-	8	3.0	12	5.4	12	4.3	10	3.4	53	3.5
	R4 David Thompson Regional Health Authority	-	-	-	-	-	-	-	-	-	-	-	-	18	1.2
	R5 East Central Health	-	-	0	0	0	0	0	0	0	0	0	0	-	-
	R6 Capital Health	-	-	-	-	11	4.2	-	-	8	2.9	-	-	32	2.1
	R7 Aspen Regional Health Authority	0	0	-	-	-	-	-	-	0	0	-	-	6	0.4
	R8 Peace Country Health	0	0	-	-	-	-	0	0	-	-	0	0	-	-
	R9 Northern Lights Health Region	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>R2 Palliser Health Region</b>	n	139		149		169		180		161		189		987	
	R1 Chinook Regional Health Authority	-	-	6	4.0	-	-	-	-	-	-	6	3.2	24	2.4
	R2 Palliser Health Region	126	90.6	132	88.6	153	90.5	159	88.3	141	87.6	165	87.3	876	88.8
	R3 Calgary Health Region	-	-	-	-	10	5.9	13	7.2	7	4.3	7	3.7	43	4.4
	R4 David Thompson Regional Health Authority	-	-	-	-	-	-	-	-	-	-	-	-	20	2.0
	R5 East Central Health	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	R6 Capital Health	-	-	-	-	-	-	-	-	-	-	-	-	16	1.6
	R7 Aspen Regional Health Authority	-	-	-	-	0	0	0	0	0	0	-	-	6	0.6
	R8 Peace Country Health	-	-	0	0	0	0	0	0	0	0	0	0	-	-
	R9 Northern Lights Health Region	-	-	0	0	0	0	0	0	0	0	0	0	-	-
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Low counts (1 to 5) or other counts (and corresponding %) are replaced by ‘-’ for patient confidentiality.

**Table 6**

Residence subRHA	Facility subRHA	02/03	%	03/04	%	04/05	%	05/06	%	06/07	%	07/08	%	All	%
<b>R101 Crowsnest Pincher Creek</b>	n	34		27		40		34		47		44		226	
	R101 Crowsnest Pincher Creek	28	82.4	21	77.8	36	90.0	27	79.4	30	63.8	26	59.1	168	74.3
	R102 Ft McLeod Cardston	0	0	-	-	-	-	0	0	-	-	6	13.6	10	4.4
	R103 Lethbridge	-	-	-	-	-	-	-	-	-	-	9	20.5	24	10.6
<b>R102 Ft McLeod Cardston</b>	n	47		53		68		50		64		72		354	
	R102 Ft McLeod Cardston	24	51.1	27	50.9	39	57.4	30	60.0	31	48.4	36	50.0	187	52.8
	R103 Lethbridge	19	40.4	22	41.5	18	26.5	12	24.0	24	37.5	23	31.9	118	33.3
<b>R103 Lethbridge</b>	n	84		90		110		91		101		120		596	
	R102 Ft McLeod Cardston	0	0	-	-	-	-	-	-	-	-	6	5.0	19	3.2
	R103 Lethbridge	73	86.9	72	80.0	89	80.9	78	85.7	85	84.2	107	89.2	504	84.6
<b>R104 Picture Butte Raymond Milk R</b>	n	35		39		26		23		33		26		182	
	R103 Lethbridge	20	57.1	24	61.5	10	38.5	11	47.8	19	57.6	11	42.3	95	52.2
	R104 Picture Butte Raymond Milk R	15	42.9	11	28.2	12	46.2	9	39.1	13	39.4	11	42.3	71	39.0
<b>R105 Vauxhall Taber</b>	n	17		19		21		23		34		31		145	
	R103 Lethbridge	-	-	-	-	-	-	-	-	-	-	8	25.8	29	20.0
	R105 Vauxhall Taber	10	58.8	10	52.6	10	47.6	19	82.6	26	76.5	18	58.1	93	64.1
<b>R201 Palliser North and Central</b>	n	92		105		107		132		96		146		678	
	R201 Palliser North and Central	81	88.0	88	83.8	98	91.6	114	86.4	85	88.5	127	87.0	593	87.5
	R312 Calgary Mount Royal	0	0	0	0	0	0	6	4.5	0	0	-	-	8	1.2
<b>R202 Palliser West</b>	n	47		44		62		48		65		43		309	
	R202 Palliser West	39	83.0	40	90.9	50	80.6	40	83.3	52	80.0	36	83.7	257	83.2
	R308 Calgary Bowness	-	-	0	0	6	9.7	-	-	-	-	-	-	16	5.2

Counts between 1 and 5 (and corresponding %) are replaced by ‘-’ for patient confidentiality.

## 6. Type of substance misuse and self-harm presentations

We created two tables of frequency (n) and percentage (%) of ED mental health visits by:

- Types of substance use (F10,F11,...., F19) for each fiscal year and all years combined for South Zone (Table 7);
- Types of self-harm (T71,X60-X69,X70-X84, Other, NA) within 10 ambulatory care diagnostic fields (Dx01, Dx02, ..., Dx10) for each fiscal year and all years combined for South Zone (Table 8).

Table 7 follows below and Table 8 is provided in the Appendix. Note that no ED visits had diagnoses F16 (Mental and behavioural disorders due to hallucinogens use) or F17 (Mental and behavioural disorders due to tobacco use). In Table 8, ED visits where the main diagnosis was Asphyxiation occurred only in 2004/2005, 2005/2006 and 2006/2007, but the number of visits was very few in each fiscal year (between 1 and 5).

**Table 7**

Diagnosis	02/03	%	03/04	%	04/05	%	05/06	%	06/07	%	07/08	%	All	%
n	91		93		117		109		139		126		675	
F10 Mental and behavioural disorders due to alcohol use	73	80.2	72	77.4	103	88.0	88	80.7	115	82.7	103	81.7	554	82.1
F11 Mental and behavioural disorders due to opioids use	-	-	-	-	0	0	0	0	0	0	-	-	-	-
F12 Mental and behavioural disorders due to cannabinoids use	-	-	6	6.5	-	-	6	5.5	7	5.0	7	5.6	30	4.4
F13 Mental and behavioural disorders due to sedatives/hypnotics use	-	-	0	0	0	0	0	0	0	0	-	-	-	-
F14 Mental and behavioural disorders due to cocaine use	-	-	-	-	9	7.7	8	7.3	-	-	-	-	31	4.6
F15 Mental and behavioural disorders due to other stimulants use	-	-	-	-	-	-	0	0	-	-	-	-	7	1.0
F18 Mental and behavioural disorders due to volatile solvents use	0	0	-	-	0	0	0	0	0	0	0	0	-	-
F19 Mental and behavioural disorders due to multiple drug use and other psychoactive	7	7.7	8	8.6	-	-	7	6.4	10	7.2	11	8.7	45	6.7

Low counts (1 to 5) or other counts (and corresponding %) are replaced by '-' for patient confidentiality.

*Interpretation:* In Table 7, the number of ED visits for mental and behavioural disorders due to alcohol use fluctuated every other year from 2002 to 2008.

## 7. Mental health visit trends by Aboriginal children in each Zone

We created a table of frequency (n) and percentage (%) of ED mental health visits for Aboriginal children by Zone for each fiscal year and all years combined. The column percentage (col%) provides the percent of ED visits among all Zones for the year. The row percentage (row%) provides the percent of ED visits for each year for a particular Zone.

**Table 9**

	Zone	02/03	col%	row%	03/04	col%	row%	04/05	col%	row%	05/06	col%	row%	06/07	col%	row%	07/08	col%	row%	All	col%
Aboriginal	n	581			627			725			740			791			766			4230	
	Calgary	69	11.9	13.5	72	11.5	14.1	82	11.3	16.0	98	13.2	19.2	91	11.5	17.8	99	12.9	19.4	511	12.1
	Central	96	16.5	14.3	109	17.4	16.3	112	15.4	16.7	141	19.1	21.1	109	13.8	16.3	102	13.3	15.2	669	15.8
	Edmonton	158	27.2	15.3	168	26.8	16.3	154	21.2	14.9	175	23.6	16.9	190	24.0	18.4	188	24.5	18.2	1033	24.4
	North	207	35.6	13.3	208	33.2	13.4	289	39.9	18.6	253	34.2	16.2	315	39.8	20.2	285	37.2	18.3	1557	36.8
	South	51	8.8	11.1	70	11.2	15.2	88	12.1	19.1	73	9.9	15.9	86	10.9	18.7	92	12.0	20.0	460	10.9

*Interpretation:* The number of ED mental health visits for Aboriginal children in South Zone was the smallest in fiscal year 2002/2003, and the largest in fiscal year 2007/2008.

## 8. Substance misuse, self-harm and Aboriginal children presentations in each subRHA

We created two tables of frequency (n) and percentage (%) of ED mental health visits for:

- Substance use and self-harm diagnoses by subRHA for each fiscal year and all years combined for South Zone (Table 10);
- Aboriginal children in each subRHA for each fiscal year and all years combined for South Zone (Table 11).

*Interpretation:* The highest ED mental health visit frequencies for mental and behavioural disorders due to substance use and self-harm were both in Palliser North and Central region, and the lowest ED mental health visit frequencies were both in Picture Butte Raymond Milk R region. The highest ED mental health visit frequency for Aboriginal children was in Ft McLeod Cardston region, and the lowest frequencies were in the Vauxhall Taber and Palliser North and Central regions.

**Table 10**

Diagnosis	SubRHA	02/03	%	03/04	%	04/05	%	05/06	%	06/07	%	07/08	%	All	%
Substance use	n	91		93		117		109		139		126		675	
	R101 Crowsnest Pincher Creek	-	-	-	-	7	6.0	10	9.2	13	9.4	13	10.3	54	8.0
	R102 Ft McLeod Cardston	13	14.3	20	21.5	21	17.9	18	16.5	25	18.0	24	19.0	121	17.9
	R103 Lethbridge	20	22.0	22	23.7	28	23.9	21	19.3	25	18.0	34	27.0	150	22.2
	R104 Picture Butte Raymond Milk R	8	8.8	-	-	-	-	-	-	7	5.0	-	-	34	5.0
	R105 Vauxhall Taber	-	-	-	-	-	-	-	-	15	10.8	-	-	36	5.3
	R201 Palliser North and Central	27	29.7	26	28.0	30	25.6	39	35.8	35	25.2	37	29.4	194	28.7
	R202 Palliser West	11	12.1	13	14.0	23	19.7	10	9.2	19	13.7	10	7.9	86	12.7
Self-harm	n	29		58		53		61		41		64		306	
	R101 Crowsnest Pincher Creek	-	-	7	12.1	10	18.9	8	13.1	14	34.1	-	-	46	15.0
	R102 Ft McLeod Cardston	-	-	9	15.5	8	15.1	9	14.8	-	-	16	25.0	51	16.7
	R103 Lethbridge	-	-	-	-	10	18.9	13	21.3	6	14.6	12	18.8	48	15.7
	R104 Picture Butte Raymond Milk R	0	0	-	-	-	-	-	-	-	-	-	-	10	3.3
	R105 Vauxhall Taber	0	0	6	10.3	-	-	-	-	-	-	-	-	14	4.6
	R201 Palliser North and Central	16	55.2	20	34.5	17	32.1	20	32.8	6	14.6	24	37.5	103	33.7
	R202 Palliser West	9	31.0	7	12.1	-	-	7	11.5	-	-	-	-	34	11.1

Low counts (1 to 5) or other counts (and corresponding %) are replaced by '-' for patient confidentiality.

**Table 11**

	SubRHA	02/03	%	03/04	%	04/05	%	05/06	%	06/07	%	07/08	%	All	%
Aboriginal	n	51		70		88		73		86		92		460	
	R101 Crowsnest Pincher Creek	-	-	13	18.6	13	14.8	15	20.5	16	18.6	-	-	85	18.5
	R102 Ft McLeod Cardston	23	45.1	40	57.1	52	59.1	37	50.7	47	54.7	49	53.3	248	53.9
	R103 Lethbridge	14	27.5	13	18.6	17	19.3	15	20.5	17	19.8	24	26.1	100	21.7
	R104 Picture Butte Raymond Milk R	0	0	0	0	-	-	-	-	-	-	0	0	10	2.2
	R105 Vauxhall Taber	-	-	-	-	0	0	0	0	0	0	0	0	-	-
	R201 Palliser North and Central	-	-	-	-	-	-	-	-	-	-	0	0	-	-
	R202 Palliser West	-	-	0	0	-	-	-	-	-	-	-	-	7	1.5

Low counts (1 to 5) or other counts (and corresponding %) are replaced by '-' for patient confidentiality.

## 9. Number of transfers in each subRHA

We created a table of frequency (n) and percentage (%) of ED mental health visits to illustrate whether children were transferred from the ED to other facilities in subRHAs for each fiscal year and all years combined for South Zone.

**Table 12**

	SubRHA	02/03	%	03/04	%	04/05	%	05/06	%	06/07	%	07/08	%	All	%
<b>Transferred</b>	n	6		9		18		9		12		11		65	
	R101 Crowsnest Pincher Creek	0	0	-	-	-	-	0	0	-	-	-	-	14	21.5
	R102 Ft McLeod Cardston	0	0	-	-	-	-	-	-	-	-	-	-	14	21.5
	R103 Lethbridge	0	0	-	-	-	-	-	-	-	-	-	-	-	-
	R104 Picture Butte Raymond Milk R	-	-	-	-	0	0	-	-	0	0	0	0	-	-
	R105 Vauxhall Taber	-	-	0	0	-	-	-	-	-	-	-	-	9	13.8
	R201 Palliser North and Central	-	-	0	0	-	-	-	-	0	0	-	-	8	12.3
	R202 Palliser West	-	-	-	-	-	-	-	-	-	-	0	0	10	15.4

Counts between 1 and 5 (and corresponding %) are replaced by '-' for patient confidentiality.

*Interpretation:* There were no ED mental health visit transfers in the Crowsnest Pincher Creek region in fiscal years 2002/2003 and 2005/2006, and the number of presentations in other fiscal years was very few.

## 10. Type of physician follow-up visits (post-ED visit) in each Zone

We created a table of frequency (n) and percentage (%) of follow-up visits by Zone and specialty.

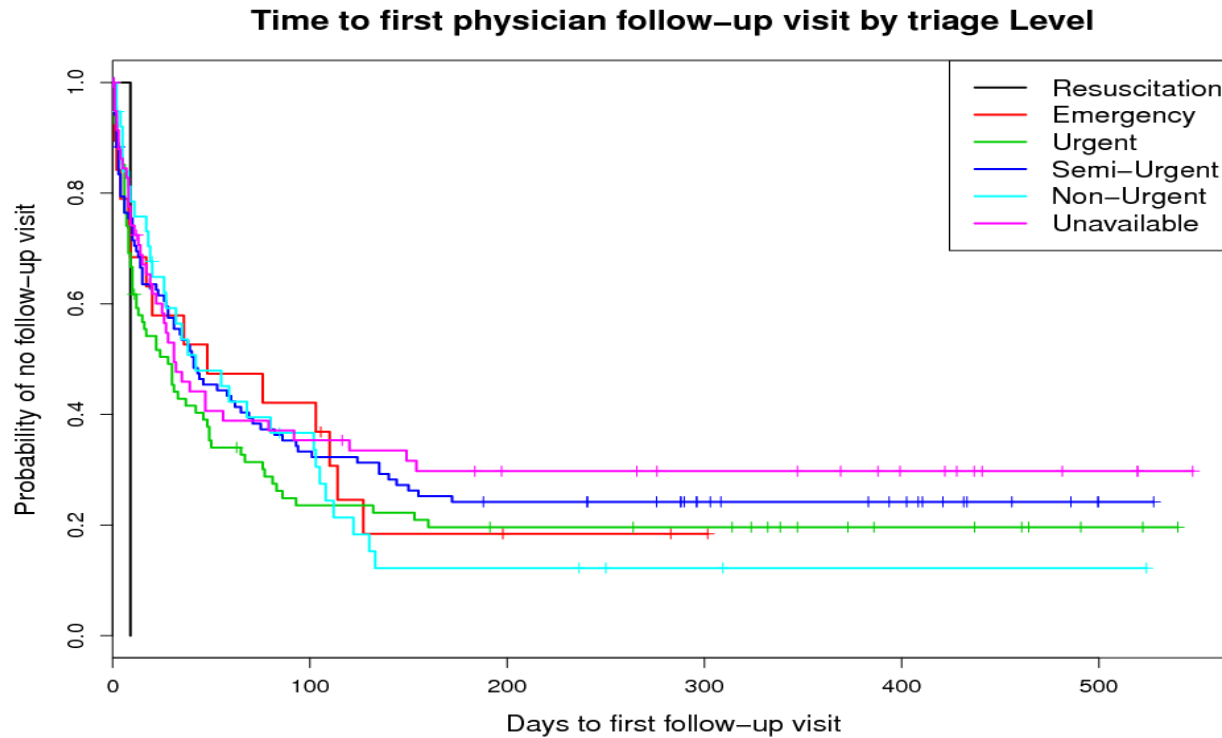
**Table 13**

Zone	GP	%	PED	%	PSYC	%	Other	%	Missing	%
n	1657		140		457		224		959	
Calgary	424	25.6	75	53.6	123	26.9	62	27.7	269	28.1
Central	310	18.7	11	7.9	53	11.6	24	10.7	142	14.8
Edmonton	343	20.7	34	24.3	186	40.7	83	37.1	274	28.6
North	417	25.2	9	6.4	60	13.1	37	16.5	196	20.4
South	163	9.8	11	7.9	35	7.7	18	8.0	78	8.1

*Interpretation:* In South Zone, the number of follow-up visits to general practitioners was the largest, and to pediatricians was the smallest.

## 11. Triage score (level of acuity) at ED index visit (first ED visit) by physician follow-up visit

We plotted time to first physician follow-up visit by triage level for South Zone.



The Kaplan-Meier (K-M) curve shown in the graph is the probability that the event of interest occurs after a given time. At 0 days, 100% of patients did not have a follow-up visit with a physician after their ED visit.

*Interpretation:* Except for children with an ED triage of non-urgent, more urgent ED visits in South Zone were more likely to have physician follow-up visit within 180 days.

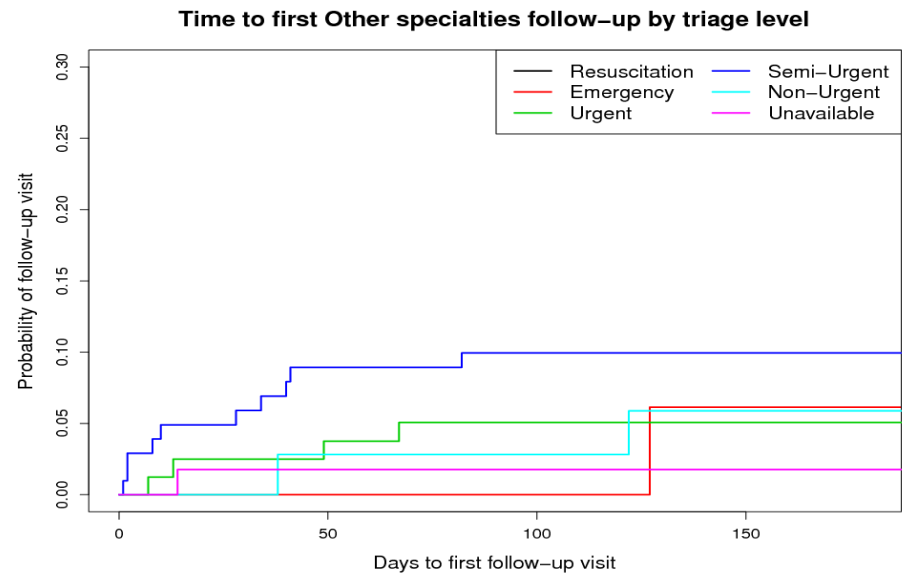
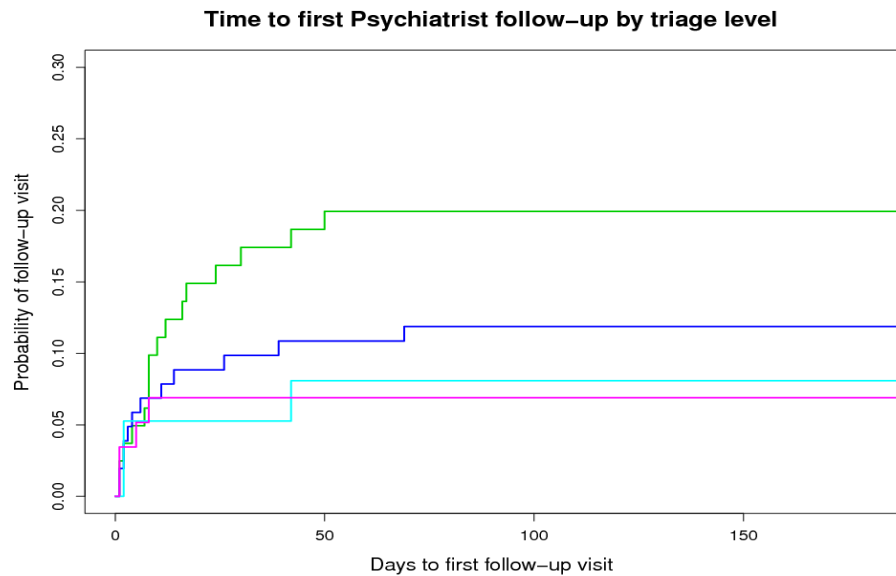
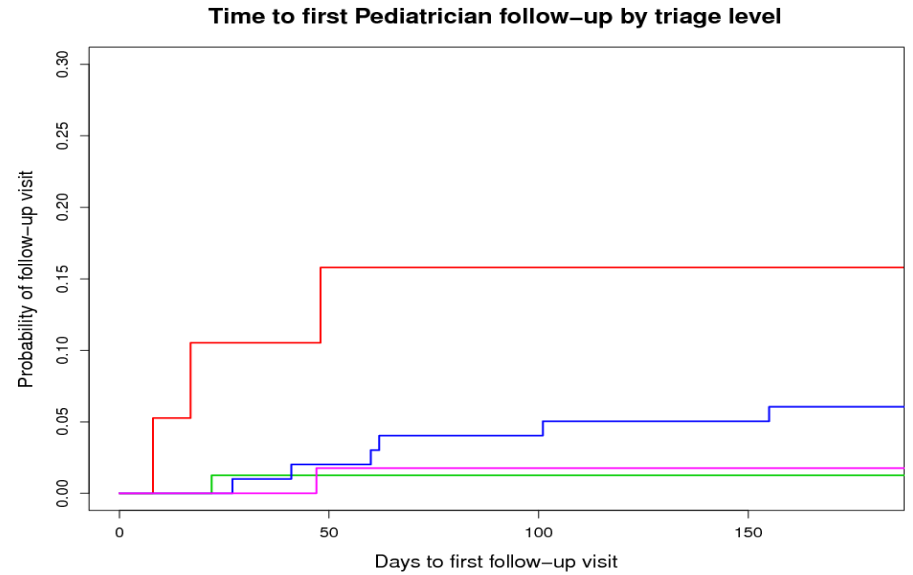
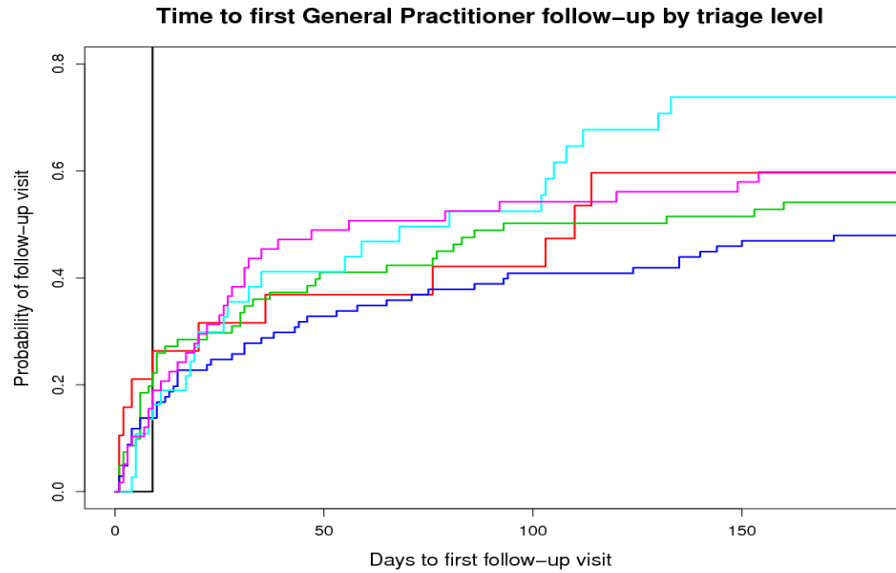


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## 12. Triage score (level of acuity) at ED index visit (first ED visit) by time to physician follow-up and type

We plotted time to first physician follow-up visit by triage level for each specialty for South Zone. The curves shown in these following graphs are the probabilities that the event of interest occurs before a given time. For some triage levels, patients did not have any follow-up with physicians of certain specialities.

*Interpretation:* Among the four physician types, children in South Zone were most likely to follow up to general practitioners within 150 days after their first ED visits (probabilities between 0.4 and 0.8).



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### **13. Disclaimer**

This study is based in part on data provided by Alberta Health. The interpretation and conclusions contained herein are those of the researchers and do not necessarily represent the views of the Government of Alberta. Neither the Government nor Alberta Health expresses any opinion in relation to this study.

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## Appendix

Mental health diagnostic codes table and additional lengthy tables are provided in this Appendix.

**Table: Diagnostic ICD-10-CA codes for the case definition of mental health.**

Short Title	Code	Classification
Substance use	F10.x, ..., F19.x	Mental and behavioural disorders due to psychoactive substance use
Psychosis-related	F20.x, ..., F29.x	Schizophrenia, schizotypal and delusional disorders
Mood	F30.x, ..., F34.x, F38.x, F39.x	Mood disorders
Neurotic/stress-related	F40.x, ..., F43.x	Neurotic, stress-related and somatoform disorders
Behavioural syndrome	F50.x, F55.x, F59.x	Behavioural syndromes associated with physiological disturbances and physical factors
Personality-related	F60.x, ..., F69.x	Disorders of adult personality and behaviour
Behavioural/Emotional	F90.x, ..., F94.x	Behavioural/emotional disorders
Unspecified	F99	Unspecified mental disorder
Self-harm	T71, X60, ..., X84	Intentional self-harm

**Table 2: Frequency (n) and percentage (%) of ED visits for South Zone by month of year and diagnosis for each fiscal year separately and all years combined.**

Month	Diagnosis	02/03	%	03/04	%	04/05	%	05/06	%	06/07	%	07/08	%	All	%
<b>Apr</b>	n	31		35		44		51		40		39		240	
	Substance use	-	-	-	-	9	20.5	15	29.4	11	27.5	14	35.9	60	25.0
	Psychosis-related	0	0	-	-	-	-	0	0	0	0	-	-	-	-
	Mood	7	22.6	8	22.9	-	-	10	19.6	9	22.5	-	-	42	17.5
	Neurotic/stress-related	7	22.6	15	42.9	20	45.5	11	21.6	15	37.5	12	30.8	80	33.3
	Behavioural syndrome	-	-	0	0	0	0	-	-	-	-	0	0	6	2.5
	Personality-related	0	0	-	-	0	0	0	0	-	-	0	0	-	-
	Behavioural/Emotional	-	-	-	-	-	-	-	-	0	0	-	-	13	5.4
	Unspecified	0	0	0	0	-	-	0	0	0	0	0	0	-	-
Self-harm	-	-	-	-	6	13.6	9	17.6	-	-	-	-	31	12.9	
<b>May</b>	n	27		43		33		36		41		51		231	
	Substance use	-	-	10	23.3	9	27.3	14	38.9	11	26.8	-	-	58	25.1
	Psychosis-related	0	0	-	-	0	0	0	0	-	-	0	0	-	-
	Mood	8	29.6	6	14.0	7	21.2	6	16.7	8	19.5	7	13.7	42	18.2
	Neurotic/stress-related	6	22.2	16	37.2	7	21.2	7	19.4	8	19.5	24	47.1	68	29.4
	Behavioural syndrome	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Personality-related	0	0	-	-	-	-	0	0	0	0	-	-	7	3.0
	Behavioural/Emotional	-	-	-	-	-	-	-	-	-	-	-	-	20	8.7
	Unspecified	0	0	0	0	0	0	0	0	0	0	-	-	-	-
Self-harm	-	-	-	-	6	18.2	-	-	9	22.0	-	-	32	13.9	
<b>Jun</b>	n	49		22		41		29		46		37		224	
	Substance use	-	-	-	-	16	39.0	12	41.4	17	37.0	12	32.4	73	32.6
	Psychosis-related	-	-	0	0	0	0	0	0	0	0	-	-	-	-
	Mood	9	18.4	7	31.8	-	-	-	-	9	19.6	6	16.2	37	16.5
	Neurotic/stress-related	13	26.5	-	-	17	41.5	-	-	14	30.4	12	32.4	70	31.2
	Behavioural syndrome	-	-	0	0	0	0	0	0	0	0	0	0	-	-
	Personality-related	-	-	-	-	0	0	0	0	-	-	0	0	-	-
	Behavioural/Emotional	7	14.3	-	-	0	0	-	-	-	-	-	-	14	6.2
	Unspecified	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Self-harm	6	12.2	-	-	-	-	-	-	-	-	-	-	23	10.3	
<b>Jul</b>	n	27		25		32		29		36		29		178	
	Substance use	-	-	-	-	9	28.1	8	27.6	14	38.9	10	34.5	53	29.8
	Psychosis-related	-	-	-	-	-	-	0	0	-	-	0	0	-	-
	Mood	7	25.9	-	-	0	0	-	-	-	-	-	-	18	10.1

Month	Diagnosis	02/03	%	03/04	%	04/05	%	05/06	%	06/07	%	07/08	%	All	%
	Neurotic/stress-related	6	22.2	7	28.0	12	37.5	11	37.9	14	38.9	12	41.4	62	34.8
	Behavioural syndrome	0	0	-	-	0	0	-	-	0	0	0	0	-	-
	Personality-related	-	-	0	0	0	0	0	0	0	0	-	-	-	-
	Behavioural/Emotional	-	-	-	-	-	-	-	-	-	-	-	-	11	6.2
	Unspecified	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Self-harm	-	-	7	28.0	9	28.1	-	-	-	-	-	-	25	14.0
<b>Aug</b>	n	28		26		22		21		26		37		160	
	Substance use	12	42.9	-	-	10	45.5	-	-	12	46.2	9	24.3	55	34.4
	Psychosis-related	-	-	0	0	-	-	0	0	-	-	-	-	-	-
	Mood	-	-	-	-	-	-	-	-	-	-	7	18.9	17	10.6
	Neurotic/stress-related	9	32.1	7	26.9	7	31.8	10	47.6	10	38.5	15	40.5	58	36.2
	Behavioural syndrome	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Personality-related	-	-	0	0	0	0	0	0	0	0	0	0	-	-
	Behavioural/Emotional	0	0	-	-	-	-	-	-	-	-	-	-	7	4.4
	Unspecified	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Self-harm	-	-	6	23.1	-	-	-	-	-	-	-	-	16	10.0	
<b>Sep</b>	n	19		30		25		34		36		44		188	
	Substance use	9	47.4	10	33.3	-	-	-	-	11	30.6	14	31.8	57	30.3
	Psychosis-related	-	-	-	-	-	-	-	-	-	-	-	-	9	4.8
	Mood	-	-	-	-	6	24.0	7	20.6	8	22.2	8	18.2	36	19.1
	Neurotic/stress-related	-	-	-	-	11	44.0	11	32.4	10	27.8	12	27.3	55	29.3
	Behavioural syndrome	0	0	0	0	0	0	-	-	0	0	0	0	-	-
	Personality-related	0	0	0	0	0	0	-	-	-	-	0	0	-	-
	Behavioural/Emotional	-	-	-	-	0	0	0	0	-	-	-	-	8	4.3
	Unspecified	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Self-harm	-	-	-	-	-	-	-	-	-	-	7	15.9	19	10.1	
<b>Oct</b>	n	34		29		35		36		38		49		221	
	Substance use	9	26.5	-	-	10	28.6	13	36.1	-	-	13	26.5	59	26.7
	Psychosis-related	-	-	0	0	0	0	0	0	-	-	0	0	-	-
	Mood	-	-	9	31.0	-	-	11	30.6	13	34.2	10	20.4	52	23.5
	Neurotic/stress-related	14	41.2	8	27.6	13	37.1	-	-	-	-	16	32.7	64	29.0
	Behavioural syndrome	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Personality-related	0	0	-	-	-	-	-	-	-	-	0	0	-	-
	Behavioural/Emotional	-	-	-	-	-	-	-	-	-	-	-	-	12	5.4
	Unspecified	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Month	Diagnosis	02/03	%	03/04	%	04/05	%	05/06	%	06/07	%	07/08	%	All	%	
Nov	Self-harm	-	-	-	-	-	-	-	-	-	-	-	-	26	11.8	
	n	33		43		47		27		41		36		227		
	Substance use	-	-	13	30.2	11	23.4	-	-	10	24.4	11	30.6	54	23.8	
	Psychosis-related	-	-	-	-	-	-	0	0	0	0	0	0	-	-	
	Mood	11	33.3	9	20.9	9	19.1	7	25.9	12	29.3	6	16.7	54	23.8	
	Neurotic/stress-related	10	30.3	10	23.3	15	31.9	8	29.6	9	22.0	13	36.1	65	28.6	
	Behavioural syndrome	0	0	-	-	-	-	0	0	0	0	-	-	-	-	
	Personality-related	0	0	-	-	0	0	-	-	-	-	0	0	-	-	
	Behavioural/Emotional	-	-	-	-	-	-	-	-	-	-	-	-	-	15	6.6
	Unspecified	0	0	0	0	-	-	0	0	-	-	-	-	-	-	
Dec	Self-harm	-	-	-	-	-	-	6	22.2	-	-	-	-	24	10.6	
	n	21		39		42		26		30		36		194		
	Substance use	-	-	8	20.5	7	16.7	-	-	13	43.3	11	30.6	49	25.3	
	Psychosis-related	-	-	-	-	0	0	0	0	0	0	0	0	-	-	
	Mood	7	33.3	7	17.9	11	26.2	-	-	-	-	-	-	39	20.1	
	Neurotic/stress-related	-	-	11	28.2	14	33.3	7	26.9	-	-	10	27.8	53	27.3	
	Behavioural syndrome	-	-	-	-	0	0	0	0	0	0	0	0	-	-	
	Personality-related	0	0	0	0	-	-	0	0	0	0	-	-	-	-	
	Behavioural/Emotional	-	-	-	-	-	-	-	-	-	-	-	-	-	20	10.3
	Unspecified	0	0	0	0	0	0	0	0	0	0	-	-	-	-	
Jan	Self-harm	0	0	6	15.4	-	-	7	26.9	-	-	-	-	26	13.4	
	n	23		23		32		24		36		40		178		
	Substance use	-	-	7	30.4	11	34.4	9	37.5	14	38.9	-	-	50	28.1	
	Psychosis-related	0	0	0	0	-	-	0	0	0	0	0	0	-	-	
	Mood	-	-	-	-	8	25.0	-	-	-	-	-	-	26	14.6	
	Neurotic/stress-related	8	34.8	7	30.4	-	-	-	-	11	30.6	14	35.0	51	28.7	
	Behavioural syndrome	0	0	0	0	0	0	0	0	-	-	-	-	-	-	
	Personality-related	0	0	-	-	-	-	0	0	-	-	0	0	-	-	
	Behavioural/Emotional	-	-	-	-	-	-	-	-	-	-	-	-	-	14	7.9
	Unspecified	0	0	0	0	0	0	0	0	-	-	-	-	-	-	
Feb	Self-harm	-	-	-	-	-	-	6	25.0	-	-	12	30.0	27	15.2	
	n	24		33		43		34		30		43		207		
	Substance use	-	-	10	30.3	12	27.9	-	-	7	23.3	8	18.6	47	22.7	
	Psychosis-related	0	0	-	-	0	0	0	0	0	0	-	-	-	-	
Mood	-	-	7	21.2	9	20.9	10	29.4	-	-	8	18.6	45	21.7		

Month	Diagnosis	02/03	%	03/04	%	04/05	%	05/06	%	06/07	%	07/08	%	All	%
	Neurotic/stress-related	8	33.3	-	-	12	27.9	-	-	8	26.7	11	25.6	51	24.6
	Behavioural syndrome	0	0	0	0	0	0	-	-	-	-	0	0	-	-
	Personality-related	0	0	0	0	0	0	-	-	-	-	-	-	-	-
	Behavioural/Emotional	-	-	-	-	-	-	-	-	-	-	-	-	20	9.7
	Unspecified	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Self-harm	-	-	7	21.2	-	-	-	-	6	20.0	9	20.9	35	16.9
<b>Mar</b>	n	40		29		38		54		40		41		242	
	Substance use	14	35.0	9	31.0	9	23.7	8	14.8	10	25.0	10	24.4	60	24.8
	Psychosis-related	-	-	-	-	-	-	-	-	-	-	0	0	6	2.5
	Mood	7	17.5	7	24.1	8	21.1	12	22.2	9	22.5	8	19.5	51	21.1
	Neurotic/stress-related	12	30.0	-	-	-	-	23	42.6	14	35.0	12	29.3	75	31.0
	Behavioural syndrome	0	0	0	0	0	0	0	0	0	0	-	-	-	-
	Personality-related	0	0	0	0	-	-	0	0	-	-	-	-	-	-
	Behavioural/Emotional	-	-	-	-	-	-	-	-	-	-	-	-	24	9.9
	Unspecified	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Self-harm	-	-	-	-	-	-	-	-	-	-	-	-	22	9.1

Low counts (1 to 5) or other counts (and corresponding %) are replaced by '-' for patient confidentiality.



**Table 3: Frequency (n) and percentage (%) of ED visits for South Zone by hour of day and diagnosis for each fiscal year separately and all years combined.**

Hour	Diagnosis	02/03	%	03/04	%	04/05	%	05/06	%	06/07	%	07/08	%	All	%
<b>00:00-00:59</b>	n	22		29		27		32		30		31		171	
	Substance use	11	50.0	14	48.3	19	70.4	16	50.0	17	56.7	16	51.6	93	54.4
	Psychosis-related	-	-	0	0	0	0	0	0	-	-	0	0	-	-
	Mood	-	-	-	-	-	-	-	-	-	-	-	-	17	9.9
	Neurotic/stress-related	-	-	6	20.7	-	-	-	-	-	-	9	29.0	30	17.5
	Behavioural syndrome	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Personality-related	0	0	-	-	-	-	0	0	0	0	-	-	-	-
	Behavioural/Emotional	-	-	0	0	0	0	-	-	0	0	-	-	7	4.1
	Unspecified	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Self-harm	-	-	-	-	-	-	-	-	-	-	-	-	18	10.5	
<b>01:00-01:59</b>	n	21		14		29		23		27		24		138	
	Substance use	14	66.7	8	57.1	16	55.2	14	60.9	21	77.8	15	62.5	88	63.8
	Psychosis-related	0	0	0	0	-	-	0	0	0	0	0	0	-	-
	Mood	-	-	-	-	-	-	0	0	-	-	-	-	9	6.5
	Neurotic/stress-related	-	-	-	-	-	-	-	-	-	-	6	25.0	28	20.3
	Behavioural syndrome	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Personality-related	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Behavioural/Emotional	0	0	-	-	0	0	0	0	-	-	-	-	-	-
	Unspecified	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Self-harm	0	0	-	-	-	-	-	-	-	-	0	0	9	6.5	
<b>02:00-02:59</b>	n	12		20		13		14		20		15		94	
	Substance use	-	-	13	65.0	-	-	9	64.3	17	85.0	8	53.3	59	62.8
	Psychosis-related	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Mood	-	-	-	-	-	-	0	0	0	0	-	-	7	7.4
	Neurotic/stress-related	-	-	-	-	-	-	-	-	-	-	-	-	11	11.7
	Behavioural syndrome	-	-	0	0	0	0	0	0	0	0	0	0	-	-
	Personality-related	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Behavioural/Emotional	-	-	0	0	0	0	-	-	0	0	-	-	-	-
	Unspecified	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Self-harm	-	-	-	-	-	-	-	-	-	-	-	-	13	13.8	
<b>03:00-03:59</b>	n	6		11		15		11		10		19		72	
	Substance use	-	-	8	72.7	10	66.7	-	-	6	60.0	14	73.7	47	65.3
	Psychosis-related	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Mood	0	0	-	-	-	-	-	-	-	-	0	0	-	-

Hour	Diagnosis	02/03	%	03/04	%	04/05	%	05/06	%	06/07	%	07/08	%	All	%
	Neurotic/stress-related	-	-	0	0	0	0	-	-	-	-	-	-	8	11.1
	Behavioural syndrome	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Personality-related	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Behavioural/Emotional	0	0	0	0	-	-	-	-	0	0	0	0	-	-
	Unspecified	0	0	0	0	0	0	0	0	0	0	-	-	-	-
	Self-harm	0	0	-	-	-	-	-	-	-	-	-	-	8	11.1
<b>04:00-04:59</b>	n	7		7		-		11		12		-		46	
	Substance use	-	-	-	-	-	-	-	-	8	66.7	-	-	27	58.7
	Psychosis-related	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Mood	0	0	0	0	-	-	0	0	-	-	0	0	-	-
	Neurotic/stress-related	0	0	-	-	-	-	-	-	0	0	0	0	-	-
	Behavioural syndrome	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Personality-related	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Behavioural/Emotional	0	0	0	0	0	0	-	-	0	0	0	0	-	-
	Unspecified	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Self-harm	-	-	-	-	0	0	-	-	-	-	-	-	10	21.7	
<b>05:00-05:59</b>	n	-		-		-		-		-		-		22	
	Substance use	-	-	-	-	-	-	-	-	-	-	-	-	10	45.5
	Psychosis-related	0	0	0	0	-	-	0	0	0	0	0	0	-	-
	Mood	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Neurotic/stress-related	-	-	-	-	-	-	-	-	-	-	-	-	8	36.4
	Behavioural syndrome	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Personality-related	-	-	0	0	0	0	0	0	0	0	0	0	-	-
	Behavioural/Emotional	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unspecified	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Self-harm	-	-	0	0	0	0	0	0	-	-	0	0	-	-	
<b>06:00-06:59</b>	n	-		-		-		-		-		-		23	
	Substance use	-	-	-	-	0	0	-	-	-	-	-	-	10	43.5
	Psychosis-related	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Mood	0	0	-	-	-	-	0	0	0	0	0	0	-	-
	Neurotic/stress-related	0	0	0	0	-	-	-	-	-	-	-	-	-	-
	Behavioural syndrome	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Personality-related	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Behavioural/Emotional	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unspecified	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Hour	Diagnosis	02/03	%	03/04	%	04/05	%	05/06	%	06/07	%	07/08	%	All	%
07:00-07:59	Self-harm	-	-	0	0	-	-	-	-	0	0	0	0	6	26.1
	n	6		-		-		-		-		6		22	
	Substance use	-	-	-	-	-	-	0	0	0	0	-	-	-	-
	Psychosis-related	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Mood	-	-	0	0	0	0	0	0	-	-	-	-	-	-
	Neurotic/stress-related	-	-	-	-	-	-	0	0	0	0	-	-	6	27.3
	Behavioural syndrome	0	0	0	0	0	0	-	-	0	0	0	0	-	-
	Personality-related	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Behavioural/Emotional	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unspecified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:00-08:59	Self-harm	-	-	-	-	0	0	0	0	-	-	-	-	7	31.8
	n	9		6		7		10		14		7		53	
	Substance use	-	-	-	-	-	-	-	-	-	-	0	0	7	13.2
	Psychosis-related	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Mood	-	-	-	-	-	-	-	-	-	-	-	-	16	30.2
	Neurotic/stress-related	-	-	-	-	-	-	-	-	7	50.0	-	-	19	35.8
	Behavioural syndrome	0	0	0	0	0	0	-	-	0	0	0	0	-	-
	Personality-related	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Behavioural/Emotional	-	-	-	-	-	-	0	0	-	-	0	0	-	-
Unspecified	0	0	0	0	0	0	0	0	0	0	-	-	-	-	
09:00-09:59	Self-harm	-	-	-	-	0	0	0	0	-	-	-	-	-	-
	n	11		9		7		11		14		16		68	
	Substance use	-	-	0	0	-	-	-	-	-	-	-	-	12	17.6
	Psychosis-related	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Mood	-	-	-	-	-	-	-	-	7	50.0	-	-	23	33.8
	Neurotic/stress-related	-	-	-	-	-	-	-	-	-	-	8	50.0	18	26.5
	Behavioural syndrome	0	0	0	0	0	0	0	0	-	-	0	0	-	-
	Personality-related	0	0	0	0	0	0	0	0	-	-	0	0	-	-
	Behavioural/Emotional	-	-	0	0	0	0	-	-	-	-	-	-	-	-
Unspecified	0	0	0	0	-	-	0	0	0	0	0	0	-	-	
10:00-10:59	Self-harm	-	-	-	-	-	-	-	-	0	0	-	-	7	10.3
	n	14		10		10		18		15		18		85	
	Substance use	-	-	-	-	0	0	-	-	0	0	0	0	6	7.1
	Psychosis-related	0	0	0	0	-	-	-	-	-	-	-	-	6	7.1
Mood	-	-	-	-	-	-	7	38.9	-	-	-	-	21	24.7	

Hour	Diagnosis	02/03	%	03/04	%	04/05	%	05/06	%	06/07	%	07/08	%	All	%
	Neurotic/stress-related	-	-	-	-	-	-	-	-	7	46.7	8	44.4	25	29.4
	Behavioural syndrome	0	0	0	0	0	0	-	-	0	0	0	0	-	-
	Personality-related	0	0	0	0	0	0	0	0	-	-	0	0	-	-
	Behavioural/Emotional	-	-	0	0	-	-	-	-	-	-	-	-	10	11.8
	Unspecified	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Self-harm	-	-	-	-	-	-	-	-	-	-	-	-	14	16.5
<b>11:00-11:59</b>	n	18		11		7		13		12		16		77	
	Substance use	-	-	-	-	0	0	0	0	6	50.0	-	-	17	22.1
	Psychosis-related	-	-	-	-	0	0	0	0	-	-	0	0	-	-
	Mood	-	-	-	-	-	-	-	-	-	-	-	-	15	19.5
	Neurotic/stress-related	-	-	-	-	-	-	8	61.5	-	-	-	-	24	31.2
	Behavioural syndrome	0	0	-	-	0	0	0	0	-	-	0	0	-	-
	Personality-related	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Behavioural/Emotional	-	-	-	-	0	0	-	-	0	0	-	-	8	10.4
	Unspecified	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Self-harm	0	0	-	-	-	-	-	-	0	0	-	-	6	7.8	
<b>12:00-12:59</b>	n	16		15		16		13		15		13		88	
	Substance use	-	-	-	-	-	-	0	0	0	0	0	0	7	8.0
	Psychosis-related	0	0	0	0	0	0	0	0	-	-	0	0	-	-
	Mood	8	50.0	-	-	6	37.5	6	46.2	7	46.7	-	-	33	37.5
	Neurotic/stress-related	-	-	-	-	-	-	-	-	-	-	-	-	24	27.3
	Behavioural syndrome	0	0	0	0	0	0	0	0	0	0	-	-	-	-
	Personality-related	-	-	-	-	-	-	0	0	0	0	0	0	-	-
	Behavioural/Emotional	-	-	-	-	0	0	0	0	-	-	-	-	9	10.2
	Unspecified	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Self-harm	-	-	0	0	-	-	-	-	-	-	-	-	8	9.1	
<b>13:00-13:59</b>	n	11		15		14		12		18		19		89	
	Substance use	-	-	-	-	-	-	0	0	-	-	-	-	9	10.1
	Psychosis-related	0	0	0	0	-	-	0	0	0	0	-	-	-	-
	Mood	-	-	-	-	-	-	-	-	-	-	-	-	21	23.6
	Neurotic/stress-related	-	-	-	-	6	42.9	-	-	-	-	9	47.4	33	37.1
	Behavioural syndrome	0	0	-	-	0	0	0	0	0	0	0	0	-	-
	Personality-related	0	0	-	-	-	-	-	-	0	0	0	0	-	-
	Behavioural/Emotional	-	-	-	-	0	0	0	0	-	-	-	-	6	6.7
	Unspecified	0	0	0	0	0	0	0	0	-	-	0	0	-	-

Hour	Diagnosis	02/03	%	03/04	%	04/05	%	05/06	%	06/07	%	07/08	%	All	%
14:00-14:59	Self-harm	-	-	-	-	-	-	-	-	-	-	-	-	12	13.5
	n	20		11		21		23		20		25		120	
	Substance use	-	-	0	0	-	-	-	-	-	-	-	-	12	10.0
	Psychosis-related	0	0	0	0	0	0	0	0	0	0	-	-	-	-
	Mood	6	30.0	-	-	-	-	-	-	7	35.0	-	-	32	26.7
	Neurotic/stress-related	7	35.0	-	-	9	42.9	8	34.8	-	-	12	48.0	47	39.2
	Behavioural syndrome	0	0	0	0	0	0	-	-	0	0	0	0	-	-
	Personality-related	0	0	0	0	0	0	-	-	0	0	0	0	-	-
	Behavioural/Emotional	-	-	0	0	-	-	0	0	-	-	-	-	12	10.0
	Unspecified	0	0	0	0	0	0	0	0	-	-	0	0	-	-
15:00-15:59	Self-harm	0	0	0	0	-	-	-	-	0	0	-	-	12	10.0
	n	16		22		19		10		20		17		104	
	Substance use	-	-	-	-	-	-	0	0	-	-	-	-	10	9.6
	Psychosis-related	-	-	-	-	0	0	0	0	0	0	0	0	-	-
	Mood	-	-	6	27.3	-	-	-	-	-	-	6	35.3	28	26.9
	Neurotic/stress-related	-	-	8	36.4	7	36.8	-	-	6	30.0	-	-	31	29.8
	Behavioural syndrome	0	0	0	0	0	0	0	0	-	-	0	0	-	-
	Personality-related	0	0	-	-	-	-	0	0	-	-	0	0	-	-
	Behavioural/Emotional	-	-	-	-	0	0	-	-	-	-	-	-	11	10.6
	Unspecified	0	0	0	0	0	0	0	0	0	0	-	-	-	-
16:00-16:59	Self-harm	-	-	-	-	-	-	-	-	-	-	-	-	15	14.4
	n	15		20		19		14		19		17		104	
	Substance use	-	-	-	-	-	-	0	0	-	-	-	-	14	13.5
	Psychosis-related	-	-	0	0	-	-	0	0	-	-	0	0	-	-
	Mood	-	-	-	-	-	-	6	42.9	6	31.6	-	-	27	26.0
	Neurotic/stress-related	6	40.0	7	35.0	7	36.8	-	-	7	36.8	-	-	37	35.6
	Behavioural syndrome	0	0	0	0	-	-	0	0	0	0	0	0	-	-
	Personality-related	-	-	-	-	0	0	0	0	-	-	0	0	-	-
	Behavioural/Emotional	-	-	0	0	-	-	0	0	-	-	0	0	-	-
	Unspecified	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:00-17:59	Self-harm	0	0	-	-	-	-	-	-	0	0	-	-	14	13.5
	n	21		15		25		19		18		24		122	
	Substance use	-	-	0	0	-	-	-	-	-	-	-	-	11	9.0
	Psychosis-related	0	0	-	-	0	0	0	0	0	0	0	0	-	-
Mood	-	-	-	-	-	-	-	-	-	-	-	-	26	21.3	

Hour	Diagnosis	02/03	%	03/04	%	04/05	%	05/06	%	06/07	%	07/08	%	All	%
	Neurotic/stress-related	8	38.1	-	-	9	36.0	9	47.4	8	44.4	-	-	47	38.5
	Behavioural syndrome	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Personality-related	0	0	-	-	0	0	0	0	0	0	-	-	-	-
	Behavioural/Emotional	-	-	0	0	-	-	-	-	-	-	-	-	13	10.7
	Unspecified	0	0	0	0	-	-	0	0	0	0	0	0	-	-
	Self-harm	-	-	-	-	-	-	-	-	-	-	-	-	21	17.2
<b>18:00-18:59</b>	n	20		19		29		22		23		34		147	
	Substance use	-	-	-	-	-	-	-	-	-	-	8	23.5	22	15.0
	Psychosis-related	-	-	-	-	-	-	0	0	0	0	-	-	-	-
	Mood	-	-	6	31.6	6	20.7	6	27.3	7	30.4	-	-	34	23.1
	Neurotic/stress-related	7	35.0	-	-	-	-	10	45.5	7	30.4	13	38.2	47	32.0
	Behavioural syndrome	0	0	0	0	0	0	-	-	0	0	-	-	-	-
	Personality-related	0	0	0	0	-	-	0	0	0	0	0	0	-	-
	Behavioural/Emotional	-	-	-	-	7	24.1	-	-	-	-	-	-	18	12.2
	Unspecified	0	0	0	0	0	0	0	0	0	0	-	-	-	-
Self-harm	-	-	-	-	-	-	-	-	-	-	-	-	18	12.2	
<b>19:00-19:59</b>	n	18		17		28		25		23		23		134	
	Substance use	-	-	-	-	-	-	-	-	-	-	7	30.4	26	19.4
	Psychosis-related	0	0	0	0	-	-	0	0	-	-	-	-	-	-
	Mood	-	-	-	-	-	-	-	-	-	-	6	26.1	24	17.9
	Neurotic/stress-related	7	38.9	6	35.3	13	46.4	10	40.0	-	-	-	-	47	35.1
	Behavioural syndrome	0	0	0	0	0	0	0	0	0	0	-	-	-	-
	Personality-related	0	0	0	0	-	-	0	0	-	-	0	0	-	-
	Behavioural/Emotional	-	-	-	-	-	-	-	-	-	-	-	-	12	9.0
	Unspecified	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Self-harm	-	-	0	0	6	21.4	6	24.0	-	-	-	-	18	13.4	
<b>20:00-20:59</b>	n	10		29		23		27		28		32		149	
	Substance use	-	-	-	-	-	-	8	29.6	-	-	-	-	22	14.8
	Psychosis-related	0	0	-	-	0	0	-	-	0	0	0	0	-	-
	Mood	-	-	6	20.7	-	-	9	33.3	-	-	-	-	32	21.5
	Neurotic/stress-related	-	-	10	34.5	10	43.5	-	-	11	39.3	15	46.9	55	36.9
	Behavioural syndrome	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Personality-related	0	0	-	-	0	0	0	0	-	-	-	-	-	-
	Behavioural/Emotional	-	-	-	-	-	-	0	0	-	-	-	-	16	10.7
	Unspecified	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Hour	Diagnosis	02/03	%	03/04	%	04/05	%	05/06	%	06/07	%	07/08	%	All	%
21:00-21:59	Self-harm	0	0	-	-	-	-	-	-	-	-	-	-	18	12.1
	n	24		40		33		16		28		31		172	
	Substance use	-	-	-	-	6	18.2	6	37.5	8	28.6	8	25.8	39	22.7
	Psychosis-related	0	0	-	-	-	-	0	0	0	0	-	-	6	3.5
	Mood	-	-	8	20.0	-	-	-	-	7	25.0	6	19.4	29	16.9
	Neurotic/stress-related	10	41.7	13	32.5	16	48.5	-	-	8	28.6	-	-	57	33.1
	Behavioural syndrome	-	-	0	0	0	0	-	-	0	0	-	-	-	-
	Personality-related	0	0	-	-	0	0	0	0	-	-	-	-	-	-
	Behavioural/Emotional	-	-	-	-	-	-	-	-	0	0	-	-	12	7.0
Unspecified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22:00-22:59	Self-harm	-	-	9	22.5	-	-	-	-	-	-	-	-	21	12.2
	n	29		30		43		34		35		45		216	
	Substance use	8	27.6	8	26.7	12	27.9	12	35.3	6	17.1	11	24.4	57	26.4
	Psychosis-related	0	0	0	0	-	-	0	0	0	0	0	0	-	-
	Mood	6	20.7	-	-	9	20.9	-	-	-	-	-	-	34	15.7
	Neurotic/stress-related	13	44.8	8	26.7	14	32.6	10	29.4	19	54.3	20	44.4	84	38.9
	Behavioural syndrome	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Personality-related	-	-	0	0	0	0	-	-	0	0	-	-	-	-
	Behavioural/Emotional	0	0	-	-	-	-	-	-	-	-	-	-	16	7.4
Unspecified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23:00-23:59	Self-harm	-	-	6	20.0	-	-	-	-	-	-	6	13.3	21	9.7
	n	23		15		32		35		30		39		174	
	Substance use	-	-	-	-	11	34.4	14	40.0	17	56.7	13	33.3	65	37.4
	Psychosis-related	-	-	-	-	0	0	0	0	0	0	0	0	-	-
	Mood	-	-	-	-	-	-	-	-	-	-	-	-	18	10.3
	Neurotic/stress-related	6	26.1	6	40.0	17	53.1	7	20.0	6	20.0	14	35.9	56	32.2
	Behavioural syndrome	0	0	0	0	0	0	0	0	-	-	0	0	-	-
	Personality-related	-	-	-	-	0	0	-	-	0	0	0	0	-	-
	Behavioural/Emotional	0	0	-	-	0	0	-	-	-	-	-	-	6	3.4
Unspecified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Self-harm	-	-	-	-	-	-	9	25.7	-	-	6	15.4	23	13.2	

Low counts (1 to 5) or other counts (and corresponding %) are replaced by '-' for patient confidentiality.

**Table 8: Frequency (n) and percentage (%) of ED visits for South Zone by types of self-harm within 10 ambulatory care diagnostic fields for each fiscal year separately and all years combined.**

Code	Diagnosis	02/03	%	03/04	%	04/05	%	05/06	%	06/07	%	07/08	%	All	%
<b>Dx01</b>	n	29		58		53		61		41		64		306	
	Other	29	100.0	58	100.0	-	-	-	-	-	-	64	100.0	-	-
	T71 Asphyxiation	0	0	0	0	-	-	-	-	-	-	0	0	-	-
	X60-X69 Intentional self-poisoning	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	X70-X84 Intentional self-harm by specific means	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Dx02</b>	n	29		58		53		61		41		64		306	
	Other	-	-	17	29.3	-	-	18	29.5	11	26.8	19	29.7	-	-
	T71 Asphyxiation	0	0	0	0	-	-	0	0	0	0	0	0	-	-
	X60-X69 Intentional self-poisoning	-	-	23	39.7	21	39.6	19	31.1	-	-	21	32.8	104	34.0
	X70-X84 Intentional self-harm by specific means	14	48.3	18	31.0	20	37.7	24	39.3	15	36.6	24	37.5	115	37.6
	Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Dx03</b>	n	29		58		53		61		41		64		306	
	Other	24	82.8	44	75.9	43	81.1	45	73.8	34	82.9	46	71.9	236	77.1
	T71 Asphyxiation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	X60-X69 Intentional self-poisoning	-	-	6	10.3	-	-	-	-	-	-	8	12.5	-	-
	X70-X84 Intentional self-harm by specific means	-	-	8	13.8	-	-	12	19.7	-	-	10	15.6	42	13.7
	Missing	0	0	0	0	0	0	-	-	0	0	0	0	-	-
<b>Dx04</b>	n	29		58		53		61		41		64		306	
	Other	-	-	25	43.1	20	37.7	28	45.9	-	-	27	42.2	126	41.2
	T71 Asphyxiation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	X60-X69 Intentional self-poisoning	-	-	-	-	8	15.1	-	-	6	14.6	-	-	-	-
	X70-X84 Intentional self-harm by specific means	0	0	-	-	0	0	-	-	0	0	-	-	-	-
	Missing	17	58.6	26	44.8	25	47.2	24	39.3	18	43.9	30	46.9	140	45.8
<b>Dx05</b>	n	29		58		53		61		41		64		306	
	Other	-	-	-	-	-	-	-	-	8	19.5	13	20.3	71	23.2
	T71 Asphyxiation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	X60-X69 Intentional self-poisoning	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	X70-X84 Intentional self-harm by specific means	0	0	0	0	0	0	0	0	-	-	-	-	-	-
	Missing	21	72.4	41	70.7	38	71.7	42	68.9	29	70.7	48	75.0	219	71.6
<b>Dx06</b>	n	29		58		53		61		41		64		306	
	Other	-	-	9	15.5	7	13.2	-	-	-	-	-	-	37	12.1



Code	Diagnosis	02/03	%	03/04	%	04/05	%	05/06	%	06/07	%	07/08	%	All	%
	T71 Asphyxiation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	X60-X69 Intentional self-poisoning	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	X70-X84 Intentional self-harm by specific means	0	0	-	-	-	-	0	0	0	0	0	0	-	-
	Missing	24	82.8	47	81.0	44	83.0	51	83.6	34	82.9	57	89.1	257	84.0
<b>Dx07</b>	n	29		58		53		61		41		64		306	
	Other	-	-	-	-	-	-	-	-	-	-	-	-	14	4.6
	T71 Asphyxiation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	X60-X69 Intentional self-poisoning	-	-	0	0	0	0	0	0	0	0	-	-	-	-
	X70-X84 Intentional self-harm by specific means	0	0	0	0	-	-	0	0	0	0	0	0	-	-
	Missing	25	86.2	-	-	50	94.3	-	-	-	-	60	93.8	287	93.8
<b>Dx08</b>	n	29		58		53		61		41		64		306	
	Other	-	-	-	-	-	-	0	0	0	0	-	-	-	-
	T71 Asphyxiation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	X60-X69 Intentional self-poisoning	-	-	0	0	0	0	0	0	0	0	0	0	-	-
	X70-X84 Intentional self-harm by specific means	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Missing	26	89.7	-	-	-	-	61	100.0	41	100.0	-	-	298	97.4
<b>Dx09</b>	n	29		58		53		61		41		64		306	
	Other	-	-	-	-	0	0	0	0	0	0	0	0	-	-
	T71 Asphyxiation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	X60-X69 Intentional self-poisoning	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	X70-X84 Intentional self-harm by specific means	0	0	0	0	0	0	0	0	0	0	-	-	-	-
	Missing	-	-	-	-	53	100.0	61	100.0	41	100.0	-	-	302	98.7
<b>Dx10</b>	n	29		58		53		61		41		64		306	
	Other	0	0	0	0	0	0	0	0	0	0	-	-	-	-
	T71 Asphyxiation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	X60-X69 Intentional self-poisoning	-	-	0	0	0	0	0	0	0	0	0	0	-	-
	X70-X84 Intentional self-harm by specific means	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Missing	-	-	58	100.0	53	100.0	61	100.0	41	100.0	-	-	304	99.3

Low counts (1 to 5) or other counts (and corresponding %) are replaced by '-' for patient confidentiality.