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Self-Injury Incidents in CSC Institutions Over a Thirty-Month Period
Arthur Gordon, Ph.D.  Health Services
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December 2010

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### **Executive Summary**

**Key words:** self-injurious behaviour; self harm; offender mental health; offender suicide.

Between April 1, 2006, and September 30, 2008, 1,230 self-injury incidents were reported in the Offender Management System (OMS), a national database that contains information on all federal offenders, and/or in the Situation Reports (SITREP), which are daily reports designed to keep senior managers abreast of significant incidents across CSC. Descriptions of the incidents based on these sources were examined. The following are the main findings:

- The number of self-injury incidents across Correctional Service of Canada (CSC) that were reported increased by 73% during the 30-month study period from 197 incidents (between April and September, 2006) to 341 incidents (April September 2008). The pattern of change is similar whether the data are based on SITREP alone or the more complete dataset (OMS-SITREP) used in this study. The data do not, however, determine what factors drove this increase. The number of self harming incidents may be due to an actual increase in self injurious behaviour related possibly related to a changing offender profile, or to greater staff awareness and changes to reporting standards that occurred within CSC during this time period, or, indeed, other factors.
- Women offenders were proportionately more likely than male offenders to engage in self-injurious behaviours. Women were more likely than men to self-injure more than once.
- The number of self-injury incidents among Aboriginal offenders was greater than would be expected based on their population in the institutions.
- The five treatment centres and the maximum/multi-security institutions had the most self-injury incidents, the most offenders who self-injured, and the most offenders who self-injured repeatedly.
- Male offenders tended to self-injure by slashing or overdosing, while women offenders showed higher use of ligatures or head-banging.
- Ninety percent of self-injury incidents resulted in no or minor injury to the offender.
- Sixty-seven percent of offenders self-injured only once during the study period. While a similar percentage of men and women offenders engaged in self-injury more than once, women who repeatedly self-injured had more such incidents than did men.
- Twenty-six of the 1,230 self-injury incidents resulted in death. However, 77% of the inmates who died had no previous documented incidents of self-injury during their incarceration

suggesting that self-injury appears to be a distinct phenomenon that should be studied independently of attempted suicide.

Based on the results of this report, it can be concluded that data extraction through OMS
queries is not sufficient to provide an accurate measure of self-injurious incidents due largely
to variability in how such incidents are coded in OMS. Creating a field in OMS that would
indicate whether an incident involved self-injury would provide a more efficient and reliable
measure of self-injury. In addition, future research should focus on the psychological and
behavioural characteristics of self-injuring offenders to better inform prevention,
management and treatment options.

# **Table of Contents**

Acknowledgements	ii
Executive Summary	iii
Table of Contents	v
List of Tables	vi
List of Figures	vii
List of Appendices	viii
Introduction	1
Method	4
Results	8
Total Self-Injury Incidents	8
Number of self-injury incidents by gender	8
Number of self-injury incidents by race	9
Number of self-injury incidents by institution	10
National incidents	12
Incidents across CSC regions	13
Incidents by gender	14
Nature of Self-Injuring Acts	14
Self-injuring behaviours	14
Discovering the incident	16
Degree of harm inflicted	17
Offenders Who Engage in Multiple Incidents	
Incidents resulting in death	20
Discussion	21
Is OMS Sufficient to Identify Self-Injury?	21
Location of Incidents	22
Degree of Harm	23
Self-Injury and Suicide	24
Impact of Self-Injury Incidents on Staff	24
Future Directions	25
References	27
Appendices	28

# **List of Tables**

Table 1 Coded Variables from OMS Including Definitions and Coding Descriptions	6
Table 2 Self-Injury Incidents As Reported in OMS-SITREP	8
Table 3 Distribution of Self-Injury Incidents by Region and Gender	9
Table 4 Institutional Self-Injury Incidents by Race	. 10
Table 5 Self-Injury Incidents by Institution Type Over a 30-Month Period	. 11
Table 6 Change in Number of Self-injury Incidents Over Time by Region (OMS-SITREP data)	13
Table 7 Method of Self-Injury Incidents As Reported by SITREP and OMS-SITREP	. 15
Table 8 Methods of Self-injury in Men and Women	. 16
Table 9 How the Self-injury Incident Was Reported	. 17
Table 10 Degree of Harm Caused by Self-injury Acts	. 17
Table 11 Distribution of Incidents – Data from OMS-SITREP	. 19

# **List of Figures**

Figure 1. Reported self-injury incidents over a 30-month period.	12
Figure 2. Offenders involved in self-injurious behaviour over a 30-month period	13
Figure 3. Reported self-injury incidents in women's institutions	14

# **List of Appendices**

Appendix A: Methodology for Tracking Self-injury Incidents in CSC	. 28
Appendix B: Self Injury Incidents by Institution	. 34

#### Introduction

Improving the Correctional Service of Canada's (CSC's) capacity to address the mental health needs of offenders has been a priority for the Service for several years. Addressing the mental health needs of offenders creates safer institutions and enhances successful reintegration, which contributes to public safety. CSC is required to provide health care services directly to its offenders, and is legislatively mandated to do so through the *Corrections and Conditional Release Act (CCRA 1992, c.20 (Revised 1996))* which states that:

- 86 (1) The Service shall provide every inmate with
- (a) essential health care, and
- (b) reasonable access to non-essential mental health care that will contribute to the inmate's rehabilitation and successful reintegration into the community.

Recently, significant gains have been made in strengthening the continuum of mental health care for offenders through the implementation of a more comprehensive mental health screening process, building the capacity in regular institutions to respond to mental health needs, and improving mental health training for mental health and correctional staff working in both the institutions and the community. Despite these gains, improving the management and treatment of offenders who engage in self-injurious behaviour (SIB) continues to be a challenge that CSC is committed to addressing.

The safety and well-being of offenders under CSC jurisdiction is paramount. Moreover, dealing with self-injuring individuals is extremely stressful for staff and can equally have psychological effects on other offenders who witness or hear of such actions. The impact is significantly greater when individual offenders engage in repeated acts of self-injury, as staff must remain vigilant, working toward ensuring that the next act will be interrupted in time for a safe resolution.

An earlier study (Gordon & Laishes, 2009) analyzed incidents of self-injury reported in the Situation Reports (SITREP) over a 30-month period. That study concluded that self-injury appeared to be a growing problem across CSC, that women were relatively more likely to self-injure than men, that men and women engage in different types of self-injurious acts, and that acts of self-injury, even among those offenders who self-injured repeatedly, did not seem related to suicide attempts. A significant limitation to this study was that only those incidents identified

in SITREPs were considered. These reports are issued daily and are designed to keep senior managers abreast of significant incidents across CSC. To that end, National Headquarters staff review all reports submitted by regional duty officers on a daily basis and prepare and disseminate a summary of these incidents. Given that there are over 17,000 reportable incidents in CSC each year, the SITREP report cannot hope to capture more than a sampling of the most significant events. Therefore, it was recognized that using data drawn solely from SITREP concerning the incidence and nature of self-injurious events may not provide completely accurate information about self-injury in CSC.

The Offender Management System (OMS), a database that captures all relevant information on offenders throughout their sentence, may be a better source of data. All reportable incidents lead to a situation report being entered in OMS. These situation reports provide more detail about the incidents than can be captured in a SITREP summary. Moreover, OMS is a searchable database so that relevant incidents can be identified more easily through queries. In short, the OMS is a more robust and complete source of information about individual offenders and incidents.

Consistent with a growing consensus in the literature, in this study SIB will refer to acts that cause or have the potential to cause, immediate physical harm. Thus, behaviours such as slashing that cause immediate damage are included in this definition, as well as behaviours such as the use of a ligature that is apprehended quickly that does not cause any immediate harm but has the clear potential to do so. Behaviours that can cause harm but only over extended periods (e.g., history of substance abuse) are not considered to be SIB. This definition of SIB does not assume that the self-injurious acts were carried out in order to end life (i.e., suicide), nor does it exclude the possibility that a self-injurious act was suicidal in intent (for a more detailed discussion, see Power and Brown (2010), which provides an excellent review of the literature, discussing definitional issues).

One common form of SIB, namely drug overdose, deserves additional comment. Despite CSC's concerted efforts to eliminate drugs from its prisons, some inmates obtain and use street drugs. Other inmates may obtain quantities of prescription drugs, either from other offenders or by accumulating their own prescriptions. While overdosing on such drugs may well lead to immediate harm, it is clear that many offenders ingest drugs in order to "get high" rather than to cause injury, and that any harm caused may be accidental. Some may argue that acts motivated

by such hedonistic interest should not be equated with acts clearly designed to injure (e.g., slashing). Unfortunately, establishing the motivation for drug-related incidents is beyond the scope of this study. Moreover, our definition of self-injury relates to potential harm (which a drug overdose implies) rather than intent. To that end, the present study treated all overdose situations as self-injurious, while recognizing that the motivation behind many of these acts may have been to create pleasure rather than damage.

The present study sought to replicate and extend the review by Gordon and Laishes (2009) by drawing data on self harming incidents from the OMS. Retaining the same 30-month study period as used previously allows for direct comparisons between the results provided by the two data sources. This report reviews OMS files on self injury incidents, providing details about the self-injurious actions, degree of harm caused, and staff response.

#### Method

#### Procedure

Data extraction for the present study involved a number of steps after it became clear that simply conducting a query for self-injury incidents in the Offender Management System (OMS) would not accurately identify all relevant incidents. A full description and discussion of these steps is included in Appendix A.

All incidents in CSC are documented in OMS and each is labelled with a category according to the nature of the incident. As a first step, an OMS query was executed for the period April 1, 2006 through September 30, 2008 using the categories most likely to be relevant to self-injury. These categories included self-inflicted injury, overdose interrupted, suicide, death (overdose, unknown causes, other<sup>1</sup>), and medical emergency. In addition, two word strings (self harm\*, auto-mutilation) were included in the query to identify relevant incidents through their description in the incident synopsis. The query identified 1184 incidents.

Every query incident was reviewed manually to ensure that each described a valid self-injurious event. As is detailed in Appendix A, 113 incidents were eliminated from the data base because: a) they were duplicates of the same incident (n=37), b) they described medical emergencies that were unrelated to self-injury (n=32), c) they were categorized as "death" but were clearly not related to self-injury; some incidents were not even related to death<sup>2</sup> (n=15), and d) the incident category was relevant (e.g., self-inflicted injury), but the situation report did not provide any evidence that self-injury had occurred (n=29). Degree of harm was assessed based on the statements of the staff completing the reports. Those incidents where staff did not provide a clear statement that fit one of the categories of degree of harm were coded "not stated".

In order to capture incident-specific information from the earlier analysis of SITREP data, an attempt was made to merge cases from the two sources (i.e., SITREP and OMS). As a result, 159 incidents that had been described in SITREP but were not identified through the OMS query were added to the final database. The most common discrepancy between OMS- and SITREP-identified incidents was that the latter identified 139 cases that clearly described self-injury but had been categorized using labels not included in the OMS query. For example, OMS

<sup>&</sup>lt;sup>1</sup> Death by natural causes was excluded from the query

<sup>&</sup>lt;sup>2</sup> See Appendix A for a further discussion and examples.

labelled these incidents as a disciplinary incident (n=30), a cell extraction (n=21), a staff or inmate assault (n=14) or an "other" incident (n=62). Other OMS categories included minor disturbance, possess contraband or under the influence. Still other SITREP incidents that were added to the database did not have a corresponding OMS entry but were clearly relevant self-injury events.

Taken together, these steps resulted in a final database of 1,230 self-injurious incidents reported between April 1, 2006 and September 30, 2008. Because the final database was a combination of two data sources, the present paper will refer to the result as the OMS-SITREP database to distinguish it from data derived solely from SITREP.

Each incident was then coded on a number of variables. Some of this information was available directly from the OMS query (e.g., date and location of incident, race) while other information was extracted by reviewing the full OMS file (e.g., self-injuring acts, degree of injury). Table 1 identifies the variables coded including a definition and coding description.

Table 1

Coded Variables from OMS Including Definitions and Coding Descriptions

Variables	Definition	Coding Description
Offender's race	This information was based on self-reported information available in OMS	<ul> <li>Caucasian</li> <li>Aboriginal (including North American, Métis and Inuit)</li> <li>Other (including, Black, Hispanic, Arab, Latin American, SE Asian)</li> </ul>
Self-injury action	Up to two main acts of self-injury were coded for each incident. The first entry represented the act that appeared most prevalent or severe	<ul> <li>Slash (any deliberate cut to the body)</li> <li>Ligature (use of any form of material placed around the neck to impede air flow)</li> <li>Overdose (unauthorized use of prescription or non-prescription drugs)</li> <li>Banging (deliberately striking a body part (typically the head) against a solid object)</li> <li>Opening a wound (opening or attempting to open an existing wound (e.g., removing sutures) that typically had resulted from a previous self-injury incident)</li> <li>Threaten injury (a clear statement that the offender threatened self-injury but that the threatened action did not occur (usually because staff intervened))</li> <li>Swallow (ingesting a non-nutritive substance (e.g., bleach) or object (e.g., blades, battery, coat hanger))</li> <li>Insert object (placing an object (e.g., paper clips, glass, battery) into the body, not necessarily through a prior wound)</li> </ul>
Discovery of Incident	How staff became aware of the self-injury incident	<ul> <li>Reported by the self-injuring inmate</li> <li>Reported by another inmate</li> <li>Discovered by staff (typically during rounds)</li> <li>Not stated in the available documentation</li> </ul>

Table 1 Continued

Variables	Definition	Coding Description
Severity of Injury	The reported degree of injury sustained due to the incident <sup>3</sup>	<ul> <li>None (no evidence of any damage)</li> <li>Minor (a specific statement indicating damage was minor or not serious)</li> <li>Serious (a specific statement to this effect)</li> <li>Death</li> <li>Not stated (absence of sufficient information attesting to the degree of injury)</li> </ul>
Action Taken	Major actions taken because of the incident <sup>4</sup>	<ul> <li>Transport to outside hospital</li> <li>Placement in an observation cell</li> <li>Application of restraints</li> <li>Admission to a Regional Treatment Centre</li> <li>Referral to a psychologist (or other mental health staff)</li> <li>Return to the offender's cell</li> </ul>

<sup>&</sup>lt;sup>3</sup> While this variable was coded after a thorough search of available information in OMS, there is recognition that the Security Intelligence Officer typically prepared the incident report and that medical opinion may or may not have fully informed the categorization of injury.

As virtually all incidents involved assessment and/or treatment by institutional health care, such an event was not

included as a specific action.

#### **Results**

### **Total Self-Injury Incidents**

Over the 30-month study period, 1,230 self-injurious incidents were reported in OMS-SITREP. During the same period, SITREP alone reported 510 institutional self-injury incidents, or 41% of incidents identified by OMS-SITREP.

Table 2 summarizes the OMS-SITREP data by CSC region and includes the percentage of the total CSC institutional population housed in each region. The number of incidents per region is essentially equal. This was not expected given that regions differ widely in terms of their incarcerated population. In fact, compared to the percent of the institutional population in each region, there were significantly more self-injury incidents in the Atlantic ( $x^2(1) = 87.64$ , p<.0001) and Pacific regions ( $x^2(1) = 18.44$ , p<.0001), while Ontario ( $x^2(1) = 17.99$ , p<.0001) and Prairies ( $x^2(1) = 10.02$ , p<.0015) had fewer incidents than might be expected.

Table 2
Self-Injury Incidents As Reported in OMS-SITREP

Davisa	Number of	Percent of	Percent of
Region	Incidents	Incidents	CSC population <sup>5</sup>
Atlantic	249	20.2%	10%
Quebec	254	20.7%	24%
Ontario	249	20.2%	27%
Prairies	238	19.3%	24%
Pacific	240	19.5%	15%
Total	1230	-	-

## Number of self-injury incidents by gender

Table 3 shows the distribution of self harming incident per region broken down by gender. Although women offenders represent only 3.7% of the total CSC institutional population<sup>6</sup>, they accounted for 16.9% of reported self-injury incidents ( $x^2(1)=354$ , p<.0001). This overrepresentation of incidents by women offenders is most apparent in the Atlantic region which houses 12% of the women's population but had 22.1% of all self-injury incidents

<sup>&</sup>lt;sup>5</sup> Population data is taken from CSC's Corporate Reporting System, December 1, 2008

<sup>&</sup>lt;sup>6</sup> National data from CSC's Corporate Reporting System, extracted August, 2008.

involving women ( $x^2(1)=7.65$ , p=.0057). On the other hand, the 14% of women's self-injury incidents reported in the Prairie region is less than expected given that 27.1% of women offenders are housed in that region ( $x^2(1)=12.55$ , p=.0004). In other regions, women's self-injury incidents were consistent with the region's women offender population.

The overrepresentation of women offenders in the self injury results is reflected both in the number of offenders who self-injured as well as in the number of incidents of self- injury involving women. The 519 male offenders who self-injured one or more times during the study period represent a small percentage of the number of offenders who are incarcerated for at least a day over a year in CSC. For example, in 2008-2009 approximately 19,000 male offenders spent at least one day in federal custody. Over the same period, about 900 women spent at least one day in federal custody. This gender ratio is 20:1. The ratio of male offenders to women offenders who self injured over the period of the study is 519/54, a ratio of about 10:1. Clearly, women are over-represented among the self injurers.

Table 3

Distribution of Self-Injury Incidents by Region and Gender

Region _	Me	en	Wor	men
Region _	N	%*	n	%
Atlantic	203	19.9	46	22.1
Quebec	201	19.7	53	25.5
Ontario	206	20.2	43	20.7
Prairies	208	20.4	30	14.4
Pacific	204	20.0	36	17.3
Total	1022	-	208	-

<sup>\*</sup>Note: Percentage does not total 100% because of rounding error

### Number of self-injury incidents by race

While 19.7% of CSC's incarcerated population self-identify as Aboriginal<sup>7</sup>, 25.3% of the offenders who self-injured were of Aboriginal ancestry. Also, Aboriginal offenders initiated 26.5% of the self-injury incidents. It appears that Aboriginal offenders were more likely to have

9

<sup>&</sup>lt;sup>7</sup> Data from Corporate Reporting System, April 2009.

engaged in self-injurious acts during the study period than expected based on their representation in the prison population ( $x^2(1) = 6.66$ , p=.0098). However, on a regional basis, Aboriginal offenders were overrepresented in terms of self-injury only in Ontario ( $x^2(1) = 7.31$ , p=.0068) and, to a lesser extent, in Quebec ( $x^2(1) = 3.29$ , p=.069). Interestingly, offenders of other non-Caucasian races (e.g., Black, Hispanic, Asian), who make up 14.9% of CSC's institutional population, were relatively less likely to be involved in acts of self-injury ( $x^2(1) = 35.49$ , p<.0001), representing only 5.2% of self-injuring offenders.

Table 4

Institutional Self-Injury Incidents by Race

Race	Incid	lents	Offenders Involved in Self Injury		% of Prison Population	
	n	%	n	%	%	
Caucasian	853	69.3	398	69.5	65.4	
Aboriginal	326	26.5	145	25.3	19.7	
Other	51	4.1	30	5.2	14.9	
Total	1,230	-	573	-	-	

### Number of self-injury incidents by institution

Table 5 summarizes all self-injury incidents over the study period by the type of institution where these incidents took place. The number of self-injury incidents differed significantly across type of institution (F (4,52)=17.22; p<.0001). Post-hoc analyses showed that while treatment centres, maximum/multi-level security institutions and women's facilities did not differ statistically from each other in terms of the number of self-injury incidents; all three experienced significantly more incidents than did medium or minimum-security facilities<sup>8</sup>. Indeed several of the minimums did not have a single incident during the study period.

The types of institution also differed in terms of the number of self-injuring offenders they housed (F (4,52)=17.93, p<.0001) and the number of offenders who self-injured more than once (F (4,52)=13.56, p<.0001). Post-hoc analyses suggested that compared to medium security,

10

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<sup>&</sup>lt;sup>8</sup> Community Corrections Centres and Institute Philippe Pinel were excluded from these analyses

minimum security or women's facilities, treatment centres and maximum/multi security institutions housed significantly more self-injuring offenders and had more offenders who self-injured multiple times.

The fact that significantly more self-injury incidents occur in treatment centres, women's and maximum institutions is made more salient when considering that these facilities house a relatively smaller proportion of the CSC population. Table 5 also provides information on the average bed count for each type of facility. The results illustrate that even given their relatively smaller size, the maximums, treatment centres and the women's facilities have higher average numbers of incidents than the medium security facilities.

While the mean number of self-injury incidents differed across type of institution, it is noteworthy that all medium and higher-security-level institutions (with the exception of Okimaw Ochi Healing Lodge) experienced at least some such incidents. The number of incidents reported by each CSC institution is summarized in Appendix B. Dorchester Institution is noteworthy as it had 73 reported incidents, more than four times the average number of incidents reported by all other medium-security institutions. When combined with its co-located partner, the Shepody Healing Centre, the Dorchester complex accounted for 155 incidents or 12.6% of all institutional incidents nationally.

Table 5
Self-Injury Incidents by Institution Type Over a 30-Month Period

Type of Institution	Average number of self-injury incidents	Average number of offenders who self-injured	Average number of offenders who self-injured more than once	Mean # of beds per type of facility
Max/Multi <sup>a</sup>	42.6	26.3	7.0	336
Medium <sup>b</sup>	16.5	12.6	2.3	389
Minimum <sup>c</sup>	0.5	0.5	0.0	205
RTC d	55.4	24.0	9.8	140
Women's <sup>e</sup>	37.2	12.2	4.8	94

*Note.*  ${}^{a}$  n = 10.  ${}^{b}$  n = 20.  ${}^{c}$  n = 17.  ${}^{d}$  n = 5.  ${}^{e}$  n = 5.  ${}^{f}$  n = 57.

#### **National incidents**

Figure 1 shows the incidence of self-injury events by 6-month block over the 30-month period for both SITREP and OMS-SITREP reported incidents. Both data sources show a marked increase in reported incidents over the study period. While SITREP-reported incidents increased from 55 (April-September, 2006) to 169 (April-September, 2008), a 207% increase, data from OMS-SITREP showed incidents increasing from 197 to 341 (a 73% increase) over the same period. However, the trends shown by the two data sources were very similar and data from SITREP and OMS-SITREP correlated significantly over the 30-month period (r = 0.96, p=.009).

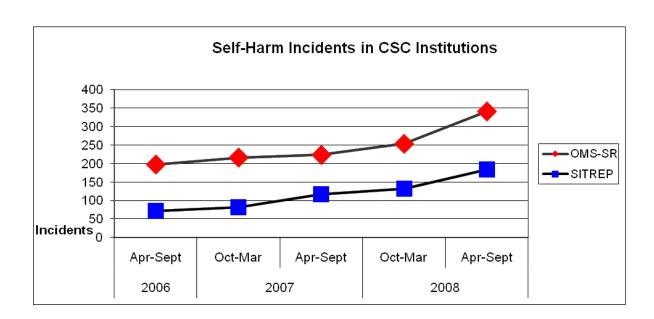


Figure 1. Reported self-injury incidents over a 30-month period.

Figure 2 provides another way of illustrating the change in the frequency of self injury over time. These results illustrate that while there is a sharp increase in the number of offenders in CSC involved in self injury during the last 6 month period of the study, this was entirely due to the increase in self injury among male offenders. The number of women offenders involved in self injury increased in the third 6-month period, but it flat-lined in the next two periods following that.

<sup>&</sup>lt;sup>9</sup> Analysis based on monthly data (which introduces considerably more variance) confirmed a high correlation between OMS-SITREP and SITREP data (r=.82, p<.0001).

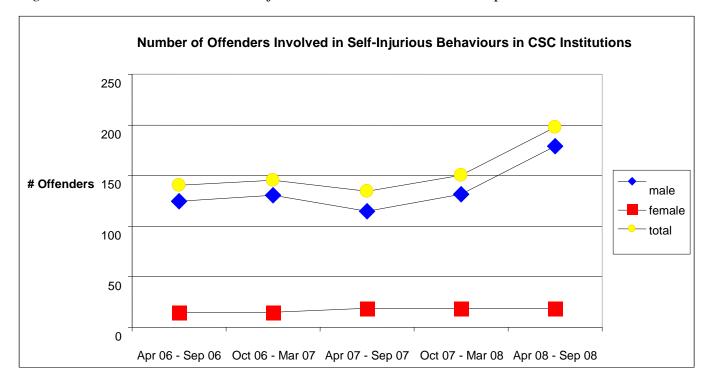


Figure 2. Offenders involved in self-injurious behaviour over a 30-month period.

## **Incidents across CSC regions.**

Reported incidents have increased in all regions. However, the number of incidents in the Quebec, Pacific and Ontario Regions appears to have increased more rapidly than in the Atlantic or Prairie regions. This trend is illustrated in Table 6.

Table 6

Change in Number of Self-injury Incidents Over Time by Region (OMS-SITREP data)

	Reported		
Region	n	n	% Change
	Sept-Mar 2006	Sept-Mar 2008	
Atlantic	47	63	34
Quebec	35	88	151
Ontario	34	62	82
Prairies	48	56	17
Pacific	33	72	118

Total 197 341	73
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### Incidents by gender

Figure 3 shows the number of self-injury incidents involving women offenders reported in SITREP and OMS-SITREP over the 30-month study period. Consistent with the men's data, the number of women's incidents increased over the study period. Based on the OMS-SITREP data, self-injury incidents by women increased by 138% over the period from 21 incidents between September and March 2006, to 50 incidents during the same period in 2008. As was the case with male offenders, the number of incidents involving women reported by OMS-SITREP and SITREP correlated very highly (r = 0.90; p=.035) indicating a similar rate of increase in both data sources.

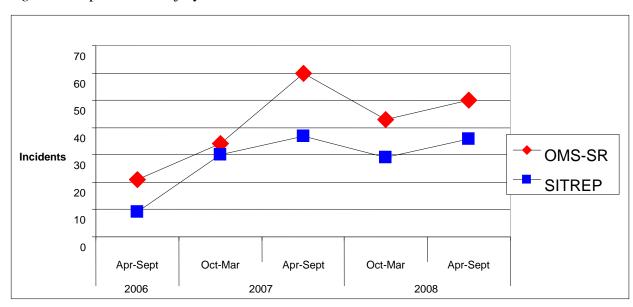


Figure 3. Reported self-injury incidents in women's institutions.

### **Nature of Self-Injuring Acts**

### **Self-injuring behaviours**

Table 7 summarizes the methods used to inflict self-injury in the incidents reported by SITREP versus those reported by OMS-SITREP. While more than half of the incidents reported in OMS-SITREP involved slashing, only 38% of the SITREP incidents involved this form of injury. On the other hand, a significantly greater proportion of SITREP-reported incidents

involved use of a ligature or overdose. As these latter acts might be seen as presenting greater imminent risk of damage, the results are consistent with SITREP giving greater weight to reporting higher-risk behaviour and incidents.

The OMS-SITREP data show that men and women offenders differed in terms of the methods of self-injury each employed (see Table 8). Women were more likely than men to employ ligatures and "banging" (typically head-banging), while men used slashing and overdose significantly more often than women. These gender patterns and differences are consistent with those found in SITREP reported incidents.

Table 7

Method of Self-Injury Incidents As Reported by SITREP and OMS-SITREP

Self-Injurious Acts	SIT	SITREP		OMS-SITREP	
	n	%	n	%	p
Slash	195	38.2	640	52.0	.001
Ligature	138	27.1	187	15.2	.000
Overdose	78	15.3	137	11.1	.043
Threaten Injury	25	4.9	91	7.4	ns
Banging	32	6.3	55	4.5	ns
Open Wound	13	2.5	43	3.5	ns
Other	29	5.7	77	6.3	ns
Total	510	-	1230	-	_

Table 8

Methods of Self-injury in Men and Women as Reported in OMS-SITREP

Self-Injury Acts	Men		Women		n
Sen-injury Acts	n	%	n	%	- <i>p</i>
Slash	573	56	67	32	.000
Ligature	111	11	76	37	.000
Overdose	126	12	11	5	.010
Banging	29	3	26	13	.000
Threaten	78	8	13	6	ns
Open Wound	38	4	5	2	ns
Insert Object	16	2	2	1	ns
Swallow Object	24	2	2	1	ns
Other	27	3	6	3	ns
Total	1022	-	208	-	

## **Discovering the incident**

The review of SITREP-reported incidents revealed that in 20% of cases, the self-injuring inmate self-reported the incident to staff, while staff discovered the incidents 60% of the time. The OMS-SITREP data provide a more complete picture of this dynamic. Based on this data source, the self-injuring inmate reported the incident 34% of the time, while another inmate (e.g., cellmate, neighbour) informed staff 6% of the time (see Table 9). However, this pattern differed by gender. Specifically, men were more likely than women to self-report the incident ( $x^2(1) = 9.08$ , p=.0026) while staff were more likely to discover women who were self-injuring ( $x^2(1) = 9.71$ , p=.0018).

Table 9
How the Self-injury Incident Was Reported

Reported by	Men		Women		Overall	
	n	%	n	%	N	%
Inmate	378	37	45	22	423	34
Other inmate	65	6	6	3	71	6
Staff	440	43	133	64	573	47
Not stated	139	14	24	12	163	13
Total	1022	-	208	-	1230	-

## Degree of harm inflicted

Because SITREP is typically prepared before the full situation report is filed in OMS, details of the incident in SITREP are often limited or incomplete. In particular, information about harm to the offender may not be immediately available. Indeed, 54% of the SITREP reports contained no injury-related information. During the OMS-SITREP data extraction, each offender's OMS file was reviewed to determine an estimate of harm based on comments of the staff reporting the incident. However, as noted earlier in the method section, the estimate of harm may (or may not) reflect medical opinion. Frequencies for the various levels of injury for OMS-SITREP incidents are summarized by gender in Table 10.

Table 10

Degree of Harm Caused by Self-injury Acts

Level of Harm	Me	en	Women		
Level of Harm	n	%	n	%	
None	228	22	78	38	
Minor	683	67	114	55	
Serious	63	6	6	3	
Death	25	3	1	0	
Not Stated	22	2	9	4	
Total	1022	-	208	-	

Approximately 90% of incidents involving both men and women resulted in either no or minor damage. Only 6% of incidents were deemed to result in serious bodily injury (i.e., permanent injury or death might have resulted without medical attention). While virtually all offenders received immediate access to institutional health care, the offender was also sent to a community hospital in 31% of cases, typically, according to the situation report, as a precautionary measure. Forty-one percent of offenders were confined to an observation cell or segregation following the incident, and 13% were sent to a treatment centre, typically after returning from outside hospital. Only 7% of cases noted the use of restraint equipment.

#### **Offenders Who Engage in Multiple Incidents**

Five hundred and seventy-three offenders initiated the 1230 self-injury incidents. On average, women (M incidents = 3.85; Mdn = 1) were involved in more self-injury incidents than were men (M incidents = 1.97; Mdn = 1) (U=1.96, p=.026). Sixty-seven percent of all offenders (n=385) self-injured only once during the study period while the remaining 188 offenders self-injured 845 times or, on average, 4.5 times each. A similar proportion of men (32%) and women (43%) were likely to self-injure more than once ( $x^2$ (1) = 0.939, ns), but those women who self-injured more than once did so more often (Mdn = 4.5 incidents) than did men (Mdn = 3.0 incidents) (U=2.86, p=.002). For example, among the women offenders, more than half of all the incidents reported over the 30 month period involved only 6 women. Table 11 provides a more detailed breakdown of frequency of self-injury incidents across male and female offenders.

Table 11

Distribution of Incidents – Data from OMS-SITREP

		Women			Men	
Number of incidents	n	% of offenders who self injured	% of self- injury incidents	n	% of offenders who self-injured	% of self- injury incidents
1	31	57.4	14.9	354	68.2	34.6
2	2	3.7	1.9	69	13.3	13.5
3	8	14.8	11.5	36	6.9	10.6
4	2	3.7	3.8	21	4.0	8.2
5	2	3.7	4.8	12	2.3	5.9
6	1	1.9	2.9	7	1.3	4.1
7	1	1.9	3.4	8	1.5	5.5
8	0	0.0	0.0	2	0.4	1.6
9	1	1.9	4.3	0	0.0	0.0
10	3	5.6	14.4	2	0.4	2.0
>10	3	5.6	38.0	8	1.5	14.1
Total	54	-	-	519	-	-

Several features of these data are noteworthy particularly as the two data sources (SITREP and OMS-SITREP) reveal a somewhat different picture. According to the OMS-SITREP data, the 188 offenders who self-injured more than once accounted for 845 incidents (or 69% of all incidents). According to SITREP data, repeated self-injurers accounted for only 47% of incidents. While SITREP identified 16% of men as repeat self-injurers, the OMS-SITREP data revealed that twice that percentage (32%) self-injured more than once during the study period  $(X^2(1) = 14.99, p=.0001)$ . Both data sources reported similar percentages of women who self-injured more than once (SITREP = 38%; OMS-SITREP = 43%). The nine women who self-injured the most frequently (i.e., six or more times) accounted for 63% of all women's incidents. The 27 men who self-injured six or more times accounted for a significantly smaller proportion (27%) of men's incidents  $(X^2(1) = 41.85, p<.0001)$ . A similar pattern emerged from the SITREP data.

The question of whether offenders who repeatedly self-injure might use different methods was examined. Offenders with more than one incident showed the same preference for slashing (55% of incidents) or use of a ligature (16%) as did the full sample. Moreover, the same gender differences noted earlier were equally true for repeat self-injurers. Namely, repeatedly self-injuring men engaged in more incidents of slashing (62% vs 30%) or overdose (7% vs 1%) than did women who self injured while women involved in multiple-incidents were more likely than their male counterparts to use ligatures (41% vs 9%) or engage in "banging" (14% vs3%). These same patterns emerged from the earlier analysis of the SITREP data.

## **Incidents resulting in death**

Twenty-six of the 1230 self-injury incidents (2%) resulted in death. Fifty-four percent of deaths (n=14) resulted from use of a ligature, 19% (n=5) followed an overdose and 12% (n=3) followed self-inflicted slashing. The cause of death in the remaining 4 cases is unknown.

Our previous analysis of the SITREP data indicated that only 24 of the 26 offenders who died did not have a prior reported self-injury incident during the study period. We extended this analysis by determining the number of self-injurious incidents at any time during the offender's current sentence (i.e., including prior to the present study period).

The current analysis found that 20 of the 26 (77%) inmates who died had no previous documented self-injury incidents throughout their incarceration. Three of the 26 had self-injured during the study period, while an additional three inmates had self-injured at an earlier time in their sentence. Moreover, while one inmate had self-injured 7 days prior to the death incident, the interval between the self-injury incident and death for the remaining five inmates ranged between 298 and 1975 days (M = 826 days; Mdn = 354 days).

Consistent with the earlier analysis of the SITREP data, it does not appear that there is a strong contiguous link between the self-injury incidents seen in prison and deliberate attempts to end life. However, staff must always be aware that death can occur even in the absence of suicidal intent. The risk appears to be greatest when the incident involves a ligature or overdose which, together, were implicated in 73% of the deaths.

#### Discussion

The present study sought to replicate and extend the results of Gordon and Laishes' (2009) analysis of self-injury incidents by focusing on incidents as reported in OMS. For the most part, the results of the two studies are highly similar. Both data sources demonstrate that the reported incidence of self-injurious incidents increased markedly over the 30-month study period. Notably, incidence data from SITREP correlated very significantly with data from OMS-SITREP suggesting that both data sources are identifying and describing similar trends.

For the most part, data from SITREP and OMS-SITREP led to similar conclusions about the nature of self-injurious actions. Analysis of both data sets showed that women offenders were involved in proportionately more incidents than men, and that men and women offenders differed in terms of the types of self-injurious actions they were likely to be involved in with men more frequently slashing and women using of a ligature. Also, both analyses described a small group of offenders, both men and women, who were responsible for a disproportionately high number of self-injury incidents.

The two data sources did yield somewhat different results on some dimensions. By considering a much broader range of incidents, the OMS-SITREP data suggested that self-injurious incidents were increasing more rapidly in some CSC regions (i.e., Quebec and Pacific), that slashing is a more common method of self-injury than had been assumed, and that relatively more incidents were reported to staff than by the self-injuring offender. OMS also proved a much richer data source to assess issues around discovery of incidents and degree of harm. In short, while SITREP can provide a reliable source of information about overall trends, the richness of OMS can provide more detail about the self-injury incidents themselves. However, it must be noted that some of the most relevant data came from manually reviewing each OMS file rather than from the OMS query.

## Is OMS Sufficient to Identify Self-Injury?

While OMS-SITREP clearly identified many more relevant self-injury incidents than did SITREP alone, it appears that OMS queries do not provide totally reliable, accurate and complete data. Almost 10% of the cases identified as relevant by the OMS query had to be eliminated, largely because an in-depth review of each incident revealed that the incidents were not related

to self-injury. An additional 159 legitimate incidents were identified through SITREP but were not identified through the OMS query. As is detailed in Appendix A, the major drawback to relying on OMS queries is that many self-injury incidents are labelled in categories that would not normally be associated with self-injury (e.g., disciplinary problem, cell extraction, assault on staff). Even though such categories are usually understandable and correct in the context of the incident, these categories would not likely be included in a search query for self-injurious incidents. One could include these apparently unrelated categories in a query and then manually delete those cases which were not relevant, but such a process would be extremely inefficient. A better solution would be to add a self-injury data field to OMS whereby each incident would be identified as involving some form of self-injury (or not). This additional variable would increase the likelihood that all relevant incidents could be identified through a single query, regardless of how the incident was categorized. While it is understood that adding fields to a database as complex as OMS is a major undertaking, being able to accurately track incidents as important as self-injury may well be worth the effort.

#### **Location of Incidents**

While almost all major men's and women's institutions experienced some self-injury incidents, such events were more likely to occur in treatment centres or maximum/multi-security institutions. Even at the same security level, some institutions experienced more incidents than others. Thus Kingston Penitentiary (93 incidents) and Kent Institution (83 incidents) had twice the self-injury incidents as the average for maximum security facilities (M = 42.6). Similarly, Shepody Healing Centre (82 incidents) and RPC - Prairies (72 incidents) had the most incidents of the treatment centres (overall M = 55.4 incidents). Only one medium security institution (Dorchester Institution) stood out as having many more incidents than its counterparts (73 incidents versus a mean of 18.2 for all mediums). Moreover, these same institutions tended to house a greater number of offenders who self-injured repeatedly (see Appendix B for details on all institutions).

It is not clear why some institutions experience relatively more self-injury incidents. It seems most likely that each region evolves a practice of housing self-injuring offenders in the one or two institutions that may be in a better position to manage them, if only because of past experience dealing with the behaviour. Such seems to be the case in the Atlantic region where

most offenders who self-injure tend to be sent to either Shepody Healing Centre or its co-located partner, Dorchester Institution. Minimum security institutions, possibly because of the vetting process for transfer to these facilities, are much less likely to house inmates with histories of self injury. In any case, the present data do identify those institutions that could currently benefit most from the resources necessary to manage this challenging population.

It is also not clear why so many self-injuring offenders are classified as maximum security. Certainly, repeated self-injury suggests the need for more stringent controls offered in maximum security institutions. It remains to be seen whether other aspects of these offenders' behaviour (e.g., violence toward others, high risk and high needs profiles) also warrant that classification. Again, the Atlantic region stands apart as many of the self-injuring offenders seem to be located at Dorchester Institution, a medium-security institution, rather than at the maximum security Atlantic Institution.

One could argue that the increased confinement and reduced social contact of a maximum security environment is not well suited to offenders who are displaying self-injurious behaviour (Konrad et al., 2007). In fact, the close confinement (including frequent segregation status) that many self-injuring offenders experience may actually increase the likelihood of further self-injury (Dear, 2006). Further research to address the impact of such environmental factors on incidence of self-injury would be useful and important in developing strategies about how self-injuring offenders should best be managed.

## **Degree of Harm**

The present data suggest that the vast majority (90%) of self-injurious incidents result in at worst, minor injury. While this finding is consistent with the conclusion that most self-injurious acts are not intended to end life, it would be a mistake to conclude that one could or should reduce vigilance. Some incidents (e.g., ligature) may result in no physical harm if apprehended quickly, but could be fatal if intervention occurs only moments later. For example, of the 172 apprehended ligature incidents, 159 (85%) resulted in minor or no harm. On the other hand, 54% of those self-injurious acts that resulted in death involved a ligature. Thus, relative lack of injury from use of ligature and other forms of self-injury (e.g., overdose, slashing) may be more due to the diligence and quick intervention of staff rather than the inherent risks in the act itself. Unfortunately, while 34% of incidents are reported to staff by the offender him/herself

thus ensuring rapid staff intervention, offenders who used a ligature self-reported only seven percent of the time, thus putting even more pressure on staff vigilance.

### **Self-Injury and Suicide**

The present results support and extend Gordon and Laishes' (2009) conclusion that most self-injurious acts do not seem to be designed to end life. A similar conclusion has been reached for self injurious behaviour in the broader community (Suyemoto, 1998). In the present case, 77% of the offenders whose incidents resulted in death had no previous self-injury incidents throughout their current incarceration. Of the six who had previously self-injured, two had only one previous incident, one had two incidents, and the most recent previous incident for five of the six was at least a year prior to the fatal incident. Again, these data should not be taken to minimize the seriousness of the problem of self-injury. Rather, the data suggest that self-injury may involve a very different set of dynamics, predictors and potential interventions than do suicidal behaviours.

## **Impact of Self-Injury Incidents on Staff**

As the number of self-injury incidents increases, so might the impact on staff who deal with these offenders, particularly those who self-injure repeatedly. There appears to be little research on the impact on staff of dealing with self-injury, but a recent study suggests the psychological impact may be significant (Marzano, & Adler, 2007). As was noted earlier, some forms of self-injury can be particularly lethal if not apprehended quickly. In the absence of effective tools to prevent such incidents, front-line staff must be constantly vigilant waiting for the next incident, hoping their intervention will be timely.

CSC has a well-established Critical Incident Stress Management (CISM) program that helps staff deal with a wide variety of stressful incidents. During the present study, we reviewed 593 self-injury incidents to determine if CISM had been offered to staff. In only 4% of cases was there a clear affirmative attestation. This result should not be taken to imply that CISM was not offered in 96% of cases. Rather, the situation report may have simply not made reference to such activity even if it had occurred. However, it is possible that self-injury is sufficiently common that it may not be seen as a critical incident requiring CISM intervention. Moreover, one might question whether CISM is always the most relevant intervention, or whether other approaches

may better help staff deal with these highly stressful situations. CSC's Mental Health Branch is currently developing strategies to ensure that interdisciplinary treatment and management plans are in place for higher-risk self-injuring offenders. Having all staff use similar approaches in managing these offenders, along with the support of dealing with such offenders as part of a team, may help ameliorate the impact of these incidents on staff. Given the crucial role that front-line staff play in limiting damage from self-injury, it is essential that they be given the support and skills necessary to optimize their performance. This is also an area were additional research would be helpful in determining approaches to improve CSC's response to this important discussion.

#### **Future Directions**

The present study replicates Gordon and Laishes (2009) in demonstrating an increased number of self-injurious incidents across CSC over a recent 30-month time period. These studies have not addressed the possible reasons underlying this increase. It may be as simple as increased or improved reporting of such incidents over time. Alternatively, it is recognized that the nature of the CSC population has shifted over time to younger offenders serving shorter sentences. It is possible that some feature of the changing population correlates with increased likelihood of self-injury. In fact, self-injury is typically associated with younger perpetrators (Cutter, Jaffe & Segal, 2008). It is also possible that there may be more tension in institutions and more vulnerable offenders may be self-injuring to either cope with the stress or seek to escape it. Such a dynamic has been described in the literature (Dear, 2006), but it is not clear what the source of such systemic tension might be. Unfortunately, the present study does not have data that speak to these or other possible reasons for the increased rates of self-injury. It is important for research to address the issue as the results may suggest systemic approaches to ameliorate the problem.

There are also many questions that research could address to understand the self-injuring offender and the dynamics of such acts in prison. Determining what motivates self-injury should help define appropriate intervention strategies. It is far from clear that the offenders who self-injured during the present study period represent a homogeneous group. Do those who self-injure infrequently do so for different reasons then those offenders who repeatedly self-injure? Do CSC's current interventions (e.g., psychological services) with infrequent self-injurers contribute

to their low rate of self-injury? Research should determine also the offender's mental health and cognitive status. Clinical experience suggests that many repetitive male self-injurers tend to be cognitively impaired, suggesting that treatment may have to address specific learning impediments. Unfortunately, there is relatively little research on self-injury adult prison populations (Power & Brown, 2010) but CSC researchers have several relevant studies underway.

The Correctional Service of Canada, like many correctional jurisdictions, is facing a significant challenge to address self-injurious behaviour in its prisons. While research is needed to better inform management and treatment strategies, the reality of prisons is that one cannot always wait for research before intervening. To that end, the Mental Health Branch of CSC is developing a multifaceted strategy that will include 1) developing a systematic approach to respond to each case of self-injury which may include developing clinical management plans for those deemed to be at a higher risk for continued self-injury, 2) developing regional resources to assist institutions in developing treatment plans and management strategies, 3) piloting a formal treatment program for the highest frequency self-injurers, 4) studying the impact of intervening with self-injury on both operational and clinical staff and developing appropriate strategies to minimize impact, and 5) continuing to promote and provide relevant research activities to help inform the preceding steps.

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#### **Appendices**

# Appendix A: Methodology for Tracking Self-injury Incidents in CSC

One important component of a more comprehensive strategy to manage self harm in institutions is an efficient and reliable means to track such incidents over time. These data are necessary to describe the problem, suggest possible interventions, as well as measure the impact of such interventions over time. Indeed, in his 2007-08 annual report, the Correctional Investigator recommended that CSC "(e)stablish a consistent framework for recording and reporting attempted suicides, self-inflicted injuries and overdoses" A self-injury tracking system must provide quick, reliable and accurate data. The popular consensus seems to be that appropriately crafted OMS queries will meet these conditions. The present study evaluated this assumption by trying to identify all self-injury incidents in CSC institutions between April 1, 2006 and September 30, 2008.

# OMS query by incident type

An OMS query spanning the period April 1, 2006 through September 30, 2008 captured incidents that would most likely involve self-injury. The query included the following incident categories<sup>11</sup>:

- > Self-inflicted injury
- Overdose interrupted
- Suicide
- > Death (overdose, unknown causes, other)
- ➤ Medical emergency

This query yielded 1127 incidents. However, from our experience with SITREP data, we recognized that some self-injury incidents are assigned to categories that one would not immediately identify as being related to self-injury (e.g., cell extraction, other incidents, etc). To

<sup>10</sup> See http://www.oci-bec.gc.ca/rpt/annrpt/annrpt20072008-eng.aspx, Recommendation 4.

<sup>&</sup>lt;sup>11</sup> Thanks to Debra Coradazzo and Linda Fulton for their help writing the OMS query, and to Sarah Wootten and Nicholas McAlister for help reviewing and cleaning the incidents.

attempt to capture such incidents, we included the word strings "self harm\*" and "automutilation" as a search variable in the OMS query. This addition should identify those incidents that refer to self-injury in the incident synopsis regardless of the categorization of the incident.

This strategy did indeed identify an additional 57 self-injury incidents <sup>12</sup>. These additional incidents had been categorized in OMS as "disciplinary problem" (n=26) "other incident" (n=20), "cell extraction" (n=4), "assault staff" (n=3), "possession of contraband" (n=2), and "threaten staff" and "fire" (n= 1 each). In total then, the OMS query identified 1184 self-injury incidents.

### "Cleaning" the OMS data

The next step was to review each of the 1184 identified incidents to ensure that they were valid (i.e., each involved acts of self-injury). To that end, each incident synopsis and, where necessary, the OMS incident summary document, was reviewed to ensure that the incident did indeed involve an act of self-injury. As a result, 113 incidents (9.5% of the total) were eliminated from the data set for the following reasons.

- a) <u>Duplicate incidents</u>: When an incident involves more than one offender, the same incident information is logged into the OMS record of <u>all</u> involved offenders. Thus, if one offender self-injured, but two others were in some way involved (e.g., as bystanders), the self-injury incident would be recorded in OMS for all three offenders <sup>13</sup>. Moreover, the query would capture the same incident three times. We deleted 37 incidents because they were duplicates that did not involve an offender who self-injured.
- b) <u>Medical Emergency</u>: Although some incidents labelled as medical emergencies clearly involve self-injury, other medical emergencies may be unrelated. We eliminated 32 incidents that were unrelated to self-injury while retaining eight relevant incidents.
- c) <u>Death</u>: Although some self-injury incidents may well result in death, some OMS incidents categorized as "death" may not have involved self-injury. We eliminated 4 incidents because they were duplicate entries, 6 incidents because death was clearly related to an existing medical condition or natural causes, and 5 incidents because the events had nothing to do with

<sup>12</sup> Of course, it remains quite possible we missed self-harm incidents that had "non-conventional" categories and did not include the targeted word-string in their synopses.

29

<sup>&</sup>lt;sup>13</sup> As an example, the following is the synopsis for an incident labelled as "self injurious behaviour" for three offenders: "Inmate wanted to see psychology and slashed his arm because of being muscled on the range." On closer inspection, one offender actually self-harmed (and that incident was retained), while the other two offenders did not self-harm and their OMS entries were deleted from the database.

self-injury or death <sup>14</sup>.

d) <u>Mis-categorized Incidents</u>: In reviewing the incidents, it became clear that even if the incident category was very relevant (e.g., self-inflicted injury, suicide), the incident itself might be unrelated to self-injury. For example, the synopsis for an incident labelled as O.D. Interrupted read: "ION Scanner low reading for cocaine for Inmate XX's visitor. Open visit was permitted." Another "self-inflicted injury" incident reported that the "Inmate picked up a plastic chair and threw in the general direction of another inmate in the yard." In total, 29 such incidents were eliminated as being invalid reports of self-injury.

Based on this review, the self-injury database was reduced by 113 to 1071 incidents. That is, OMS-reported incidents proved invalid 9.5% of the time. Moreover, given the time required to review all 1184 incidents, the query approach did not prove an efficient means of identifying only legitimate self-injury incidents.

#### **Matching OMS and SITREP data**

Gordon and Laishes (2009) identified 510 institutional self-injury incidents reported in SITREP and captured considerable data on these events. As the same data was required for the analysis of cases extracted through the OMS query, we attempted to merge the SITREP cases with the 1071 OMS incidents, fully expecting that the OMS query would have captured all of the cases reported by SITREP. In fact, only 328 SITREP cases had an OMS-query match. Fully 182 self-injury incidents described in SITREP were not identified through the OMS query.

To understand this discrepancy, each unmatched SITREP incident was reviewed to determine why the OMS query had not captured it. This review revealed the following:

- a) <u>Inconsistent dates</u>: In 12 cases, the incident date reported by OMS and SITREP were different, but the incident itself appeared to be the same. <sup>15</sup> We adjusted the final database to ensure that each of these incidents was counted only once.
- b) No incident in OMS: In 13 cases, OMS showed no record of an incident of any sort at or around the date reported by SITREP. The reasons for these discrepancies are not immediately clear. In three cases, the offender was housed at Pinel Institute and it may be that these incidents did not get reported in OMS. Additionally, it is possible that the Regional Duty Officer reported these incidents to those creating SITREP, but OMS reports were never completed by the institution.

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<sup>&</sup>lt;sup>14</sup> For example, the synopsis of an incident categorized as "death-other", reads as follows: "inmate made an off-hand comment to staff as a serious charge was being delivered. The inmate stated, 'I don't like it here, I haven't decided if I want to go back to J unit or not'. He was not disrespectful to the staff but more toward the other inmates". There was no evidence that anyone died or self-injured in this incident.

<sup>&</sup>lt;sup>15</sup> As SITREP does not report the OMS incident number, it was impossible to match incidents directly. In most cases the SITREP and OMS dates differed by only 1-2 days and OMS listed no other incidents around the same time.

c) <u>Categorization issues</u>: The OMS query did not identify 139 cases listed in SITREP because the OMS report categorized the incident using a label that was not included in the query. Most commonly, these incidents were categorized in OMS as "other incident" (n=62), a "disciplinary incident" (n=30), a "cell extraction" (n=21), or a "staff" or "inmate assault" (n=14). Other categories included "minor disturbance", "possess contraband" or "under the influence".

Notwithstanding the OMS categories used, the behaviours described in these 139 incidents were all were legitimately self-injurious, involving acts such as slashing, head banging, use of ligature and overdose. Obviously, it would be very inefficient to write an OMS query to include categories such as "disciplinary" or "other" incident if one then had to eliminate manually the resulting irrelevant cases.

As a result of the SITREP/OMS reconciliation, 159 SITREP cases were added to those extracted through the OMS query to yield a final database of 1230 self-injury incidents between April 1, 2006 and September 30, 2008.

#### **Is the Final Database Complete?**

A major question remains: can we assume that the 1230 incidents identified by combining valid OMS-derived incidents with those identified through SITREP represents an accurate and complete count of self-injury incidents? While combining the data from OMS and SITREP clearly provides a more accurate measure than either source alone, we cannot assume that combining data from both sources successfully identified <u>all</u> relevant incidents. Clearly, SITREP is better at identifying those incidents that OMS does not categorize as being self-injury related (e.g., "other" incidents, "disciplinary" incidents). However, SITREP is also much more selective in reporting incidents. In the current situation, SITREP reported on only 41% of the total 1230 self-injury incidents. It remains possible that we have not captured those self-injury incidents that a) were not considered appropriate for reporting in SITREP but b) were categorized in such a way that the OMS query did not identify them. Short of manually reviewing every incident in all OMS categories (over 17,000 in 2008-09), the approach taken in the present study may represent a conservative, best estimate of self-injury incidents.

### Summary

We began this exercise by attempting to identify all self-injury incidents in CSC institutions over a 30-month period. Table A1 summarizes the steps taken and the impact on the number of incidents identified. Depending on which steps one adopted, the number of self-injury incidents in our target period could range between 1071 and 1230. Moreover, we added and/or deleted 329 incidents at various stages. While each step in this process seems necessary to derive

an accurate and valid estimate of self-injurious incidents, these steps clearly do not meet the criterion of providing a quick and easily obtained result. Unfortunately, the data also suggest that, while an OMS query provides an efficient means of extracting data, one cannot assume the data are completely accurate or valid. An ideal solution would combine the efficiency of an OMS query with the accuracy afforded by reviewing individual incidents, regardless of how they are categorized.

The main impediment to developing an appropriate self-injury tracking tool would seem to be the categories applied to such incidents, particularly in OMS. This problem has at least three aspects. First, staff may select an appropriate category to reflect self-injury (e.g., self-inflicted injury), but the incident itself may not be self-injury related. This problem may be resolved through training. But to the extent that it does occur (and it did over 30 times in the present project), one cannot rely on extracting OMS data based solely on incident type without reviewing each incident to ensure that it does in fact involve acts of self-injury.

Table A 1

Creating a Self-Injury Database

	Incidents	Total Valid
Steps in Identifying Self Harm Incidents	Added/(Deleted)	Incidents
Initial OMS query with likely categories	1127	1127
Include relevant word strings	57	1184
Eliminate duplicates and incidents not related to self-injury	(113)	1,071
Add SITREP incidents not identified by OMS query	159	1,230

A second concern is that the OMS category chosen may be appropriate to describe the self-injury incident, but the category is too broad and captures incidents unrelated to self-injury. A prime example of this is the "medical emergency" category defined as "An event which requires medical intervention, which is not attributable to assaultive behaviour and which normally requires outside treatment with or without hospitalization"<sup>16</sup>. By this definition, one could legitimately classify many self-injury incidents as "medical emergencies". However, many other events totally unrelated to self-injury (e.g., heart attack, seizure) might equally be classified as a medical emergency. Thus, one would need to review manually each incident identified by the OMS query to determine those actually related to self-injury.

The most common problem and impediment to an effective tracking tool is the use of

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<sup>&</sup>lt;sup>16</sup> See CD 568-1, Annex A

incident categories that appear to be unrelated to self-injury. The present study found numerous self-injury incidents categorized as "disciplinary", "cell extraction", "assault" or "other<sup>17</sup>". In most cases, the category chosen was appropriate to the incident. For example, the response to an offender's self-injuring behaviour may have required a cell extraction, or the offender may have assaulted staff as they tried to intervene. However, one would not likely include such categories in an OMS query to identify self-injury incidents. Moreover, self-injury is likely involved in very few cell extractions or staff assaults.

The recent (July 2008) reissuing of CD 568-1 including definitions of incident categories is not likely to address the concerns raised here and may, in fact, exacerbate the problem. Thus, the CD defines "self-inflicted injuries" as "The deliberate harm of oneself without the intent to commit suicide as determined by a mental health professional (i.e. Psychologist or Psychiatrist)". Similarly, the category "suicide attempt" also requires a mental health professional to make a determination of intent. The requirement that a mental health professional determine motivation and intent may discourage staff from using this category, particularly for offenders who engage in self-injuring behaviours frequently. If these categories are not readily available, staff may increasingly choose other categories that may or may not be related to self-injury (e.g., non-serious bodily injury). Thus, it appears that issues around categorizing incidents may continue to impede development of a quick and reliable method to track self-injury incidents.

#### **A Possible Solution**

The concerns described above could be addressed if OMS contained a searchable field that asked the question "Did this incident involve some form of self injury?" A 'yes" in this field would identify a self-injury incident independently of the category chosen to describe the incident. For example, this field could readily distinguish between relevant and irrelevant "medical emergencies" or "cell extractions". It would require very little additional work from staff inputting the data (but staff would have to check "no" for most incidents). Above all, this field would allow for determining the total number of self-injury incidents based on a one-variable query. That is, we would have a tracking system that is efficient, reliable and valid. It remains to be seen whether, from an OMS perspective, this solution is also feasible. However, the currently data network based on OMS clearly does not meet CSC's need for an efficient, reliable and effective self-injury tracking system.

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 $<sup>^{17}</sup>$  The most current revision (July 2008) of CD 568-1 does not define "other" as an incident category, (see Appendix A) but it continues to be used.

# Appendix B: Self Injury Incidents by Institution

Table B 1
Institutional Self-Injury Incidents (April 1/06 - September 30/08)

Institution	Region	Committee 1 area1	n	n	Offenders w
		Security level	Incidents	Offenders	multiple incidents
Atlantic	Atl	Max	24	19	4
Donnaconna	Que	Max	37	29	7
Port Cartier	Que	Max	49	26	10
Reg Recept - SHU	Que	Max	22	16	2
Kingston Pen	Ont	Max	93	60	16
Millhaven (+ Assess Unit)	Ont	Max	27	23	2
Edmonton	Pra	Max	56	32	11
Sask Pen	Pra	Multi	19	12	3
Kent	Pac	Max	83	34	11
Pacific/RRAC	Pac	Multi	16	12	4
Average Max/Multi			42.6	26.3	7.0
Springhill	Atl	Med	23	22	1
Dorchester	Atl	Med	73	35	15
Cowansville	Que	Med	18	16	2
Drummond	Que	Med	8	8	0
LaMacaza	Que	Med	4	4	0
Leclerc	Que	Med	13	12	1
Bath	Ont	Med	5	5	0
Beaver Creek	Ont	Med	3	1	1
Collins Bay	Ont	Med	2	2	0
Fenbrook	Ont	Med	6	5	1
Joyceville	Ont	Med	13	13	0
Warkworth	Ont	Med	27	19	5
Bowden	Pra	Med	18	14	2
Drumheller	Pra	Med	20	17	2
Grand Cache	Pra	Med	2	2	2
Okimaw Ohci Healing Ldge	Pra	Med	0	0	0
Stony Mtn	Pra	Med	36	26	6
Mastqui	Pac	Med	22	20	2
Mission	Pac	Med	16	14	2
Mountain	Pac	Med	21	16	5
Average Medium					
			16.5	12.6	2.3
Institution	Region	Security level	n	n	Offenders w

			Incidents	Offenders	multiple incidents
Westmorland	Atl	Min	1	1	0
Federal Training Cntr	Que	Min	4	4	0
Montée St Francois	Que	Min	0	0	0
Sainte-Anne-des-Plaines	Que	Min	0	0	0
Beaver Creek	Ont	Min	0	0	0
Frontenac	Ont	Min	1	1	0
Pittsburg	Ont	Min	0	0	0
Bowden Annex	Pra	Min	0	0	0
Drumheller Annex	Pra	Min	0	0	0
Grierson Centre	Pra	Min	0	0	0
Pê Sâkâstêw Centre	Pra	Min	0	0	0
Riverbend	Pra	Min	1	1	0
Rockwood	Pra	Min	0	0	0
Willow Cree Healing	Pra	Min	1	1	0
Ferndale	Pac	Min	0	0	0
Kwìkwèxwelhp	Pac	Min	0	0	0
William Head	Pac	Min	0	0	0
Average Minimum			0.5	0.5	0.0
Shepody Healing Ctr	Atl	Multi	82	22	13
CRSM & Archambault 18	Que	Multi	45	24	8
RTC (Ont)	Ont	Multi	30	16	6
RPC (Pra)	Pra	Multi	73	33	15
RTC (Pac)	Pac	Multi	47	25	7
Instit Phillippe Pinel	Que		3	2	1
Average Tx Centres			55.4	24.0	9.8
Nova	Atl	Multi	46	11	3
Joliette	Que	Multi	50	13	9
Grand Valley	Ont	Multi	43	15	4
Edmonton Inst - Women	Pra	Multi	11	9	1
Fraser Valley	Pac	Multi	36	13	7
Average Women's Inst			37.2	12.2	4.8

<sup>&</sup>lt;sup>18</sup> We determined that most self-injury incidents occurring in the CRSM were attributed to Archambault. Such incidents are listed here under CRSM and no data for Archambault is provided. On the other hand, it appears that incidents occurring in the equally co-located Shepody and Dorchester are reported separately as they are here.