Supplemental File 1: Summary of selected Caring Safely program process measures

Table 1: Organizational interventions process measures

Intervention	Process measures
Board training in	1-2 Trustees and 1-2 Executives attended each of six two-day sessions over
safety	three years
Leadership	Approximately 700 individuals trained over study period
Methods training	
Error Prevention	Fifty volunteer trainers trained approximately 9,000 staff over the study period,
training	which corresponds to approximately 90% of all staff in the organization
Safety Coach	Two-hour training reviewing expected safety behaviours and providing
program	strategies for effective coaching, and periodic ongoing meetings to develop
	volunteer peer coaches (approximately 600 trained during study period – more
	than 80% of safety coaches were nurses). Encounters documented via a
	REDCap survey (approximately 1400 coaching encounters tracked over study
	period). Information collected includes: type of coaching encounter (i.e., review
	a tool, point out use of a tool, or provide constructive feedback on how
	someone could have used a tool), location of the coaching encounter, and the
	professional group of the person being coached.
Cause Analysis	Seven senior leaders met weekly to review potential Serious Safety Events
	(SSEs), approximately 50 potential SSE cases reviewed per year, to assign the
	SSE designation to those meeting the criteria (5-20 per year), and to charter
	Root Cause Analysis teams. Proposed corrective actions were reviewed,
	approved, and tracked through to completion (average 40 per year).
Patient and Family	Approximately eight family advisors engaged across various activities (e.g.,
Engagement	Quality subcommittee of the Board of Directors, Executive Quality committee,
	Caring Safely steering committee, creation of patient story videos and
	participation in live events such as orientation and town halls).

Table 2: Harm data collection, Bundle implementation, and Audit process measures

Activity	Process measures
Central line associated	Outcomes data collection, bundle implementation, and regular
bloodstream infection (CLABSI)	bundle compliance audits* established across 12 clinical units
Surgical site infection	Outcomes data collection for selected procedures, bundle
	implementation, and regular bundle compliance audits*
	established for most surgical procedures.
Pressure Injury	Outcomes data collection, bundle implementation, and regular
	bundle compliance audits* established across 12 clinical units.
Catheter associated urinary	Outcomes data collection and bundle implementation in intensive
tract infection	care units.
Falls resulting in serious harm	Outcomes data collection, bundle implementation, and regular
	bundle compliance audits* established across 11 clinical units.
Peripheral intravenous catheter	Hospital-wide bundle implementation initiated close to end of
(IV) injuries	study period.

Unplanned extubations	Outcomes data collection and quality improvement work in
	progress across three intensive care units prior to study and
	throughout the study period (external prevention bundle became
	available toward end of study period).
Adverse drug events	Outcomes data collection and quality improvement work across
	multiple aspects of medication safety in progress prior to and
	throughout study period.
Serious employee harms	Outcomes data (Lost Time Injuries/Days Away and Transferred
	Injuries) collection initiated. Outcomes data collection established
	organization-wide, and implementation/audit of prevention
	practices for top three serious employee harms (Overexertion,
	Slips/Trips/Falls, and Patient Behavioural Events) in progress at end
	of study period
Patient serious safety events	Outcomes data collection and related quality improvement work in
	place throughout study period.

Table 3: Summary of early program goals and results

Three-year goals were established at start of Caring Safely implementation. Full program maturity expected in six to nine years based other collaborative hospital experience implementing the same program. Goals included adherence to HRO principles and harm reduction.

Early program goal

Early results

Serious patient safety events: Reduce the rate of serious safety events by two-thirds (12-month rolling average of serious safety events per 10,000 adjusted patient days).

Serious employee injury: Reduce the rate of serious employee injury (Lost Time Injuries/Days Away and Transferred Injuries 12-month rate) by 20%.

Hospital acquired conditions (HACs): Reduce the incidence of HACs significantly (with "significantly" meaning statistical process control chart centreline shifts).

20% reduction in serious employee injury from year 1 to year 3

30% reduction in serious employee injury from year 1 to year 3

30% reduction in serious employee injury from year 1 to year 3

30% reduction in serious employee injury from year 1 to year 3

30% reduction in serious employee injury from year 1 to year 3

injury from year 1 to year 3

30% reduction in serious employee injury from year 1 to year 3

injury from year 1 to year 3

30% reduction in serious employee injury from year 1 to year 3

^{*}Regular compliance audits of each type of harm ranged from a minimum of 20 per month hospital-wide to up to 200 per month hospital-wide for high-frequency harms like CLABSI. Audits were completed via direct observation and documentation review by a mix of Healthcare Acquired Condition (HAC) champions, educators, quality leaders, and peers. In practice, alternative terms were used for "compliance audits" by different teams, such as "observation," "education," and "coaching.