

2020

Top Healthcare Risks

Fifth Annual Report on a Shared Canadian System for Integrated Risk Management

Publication Note: With our Subscribers focused on managing the spread of COVID-19 in their communities, the release of this year's report was shifted from spring to fall 2020. In order to maintain the integrity of dates, we are still reporting on data up to the end of 2019. As such, there is no mention of COVID-19 in this report.

September 2020

Healthcare Insurance Reciprocal of Canada
[HIROC.com](https://www.hiroc.com)

4711 Yonge St., Suite 1600
Toronto, Ontario M2N 6K8
Tel: 1-800-465-7357
riskmanagement@hiroc.com

1200 Rothesay St.
Winnipeg, Manitoba R2G 1T7
Tel: 1-800-442-7751
westernregion@hiroc.com

Disclaimer/Terms of Use: This is a resource for quality assurance and risk management purposes and is not intended to provide legal or medical advice. Information contained in this report is derived from risks voluntarily reported to a shared database. Every effort has been made to ensure the information is accurate at time of publication.

Table of Contents

- Executive Summary 2
- Snapshot - Top Healthcare Risks: All Organizations 3
- Introduction 4
 - Integrated Risk Management 4
 - IRM program 4
 - IRM best practices 4
 - Risk Register uptake 4
 - Benefits 5
- Data Analysis Methodology 6
 - Methodology 6
 - Trend plots 6
 - Data privacy 6
- Top Healthcare Risks: All Organizations 7
 - Risks by strategic objective category 7
 - Risks by frequency 8
 - Risks by likelihood 9
 - Risks by impact 10
 - Risks by ranking 11
- Snapshot - Top Healthcare Risks: Acute Care 12
- Top Healthcare Risks: Acute Care 13
 - Risks by strategic objective category 13
 - Risks by frequency 14
 - Risks by likelihood 15
 - Risks by impact 16
 - Risks by ranking 17
- Snapshot - Top Healthcare Risks: Non-Acute Care 18
- Top Healthcare Risks: Non-Acute Care 19
 - Risks by strategic objective category 19
 - Risks by frequency 20
 - Risks by likelihood 21
 - Risks by impact 22
 - Risks by ranking 23
- Turning the Corner on Patient Safety 24
- References 25
- Glossary 26
- Appendices 27
 - Appendix A: IRM Best Practices 27
 - Appendix B: IRM Process 28
 - Appendix C: Risk Profiles 29
 - Appendix D: Common Risk Scoring Matrix 30
 - Appendix E: Guidance for Healthcare Boards 31
 - Appendix F: Risks by Frequency - All Organizations 32
 - Appendix G: Risks by Frequency - Acute Care 33
 - Appendix H: Risks by Frequency - Non-Acute Care 34

Executive Summary

HIROC's Integrated Risk Management (IRM) program, which includes the Risk Register application, is now in its fifth year. The program has seen widespread adoption, together with the development of a robust and expanding database of tracked risks of the Canadian healthcare system.

Since its launch in January 2015, 136 HIROC Subscribers have signed on to the Risk Register (available at no cost to all HIROC Subscribers), of which 73 organizations are from an acute-care setting, and 63 organizations are from the non-acute care setting. At the end of 2019, the Risk Register has helped HIROC Subscribers track 3,794 organizational risks.

This report supports HIROC Subscribers in advancing or starting their IRM journey, by aggregating five years' worth of Subscriber data and providing insight on how peer organizations are monitoring and measuring risks across Canada—new tracked risks and emerging themes. This report complements HIROC's Risk Ranking and Risk Assessment Checklists program—both based on claims reporting data—to support an organization's risk identification process to create a summary of the most significant risks. The Risk Register will continue to yield shared knowledge to improve the management of key risks and help in the achievement of strategic objectives across the healthcare system. Pan-Canadian results from the first five years of implementation are provided.

Highlights

The tracked risks on the Risk Register show an emphasis on risks related to patient safety and staff—*Care* and *Human Resources* risk categories account for 43% of tracked risks.

While there is a fair degree of consistency over the years in terms of which risks are being tracked across all organizations, there are noticeable shifts in the trends of the top 10 risks rated by likelihood and impact. About half of these tracked risks were not in the top 10 in the 2019 report and are new or re-entries to the top 10 this year, such as:



Physical space constraints is a new risk added in 2019 to the IRM taxonomy. It was part of the top 10 risks for likelihood and impact for acute care organizations, however, it was not a risk identified and tracked by non-acute care organizations.



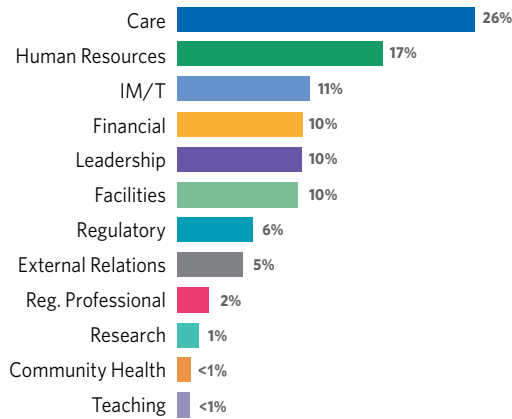
Birth trauma emerged as the top risk by impact for acute care organizations for the first time.



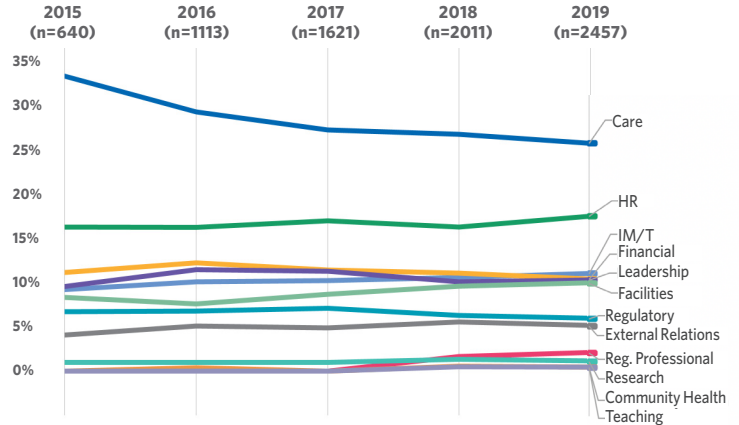
Supply shortages ranked first in the likelihood ranking for non-acute care organizations for the first time.

Top Healthcare Risks: All Organizations

Distribution of Risk Register 2019 tracked risks by strategic objective category



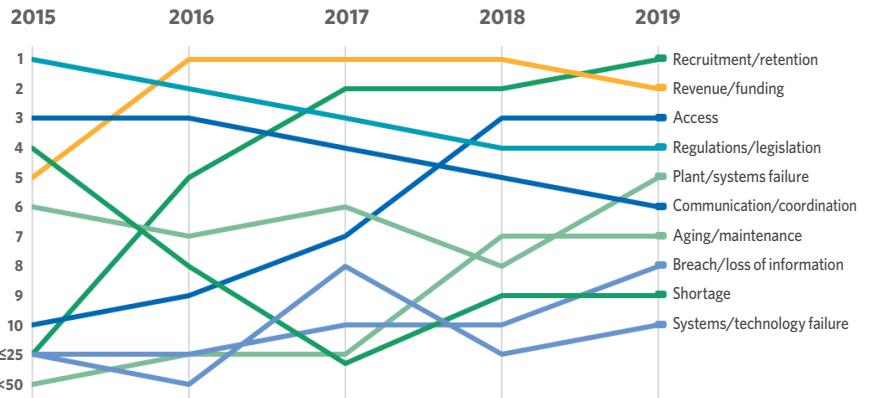
Five-year trend of distribution of Risk Register tracked risks by strategic objective category



Top 10 Risk Register 2019 tracked risks by frequency

| # | Category | Risk |
|----|-------------------|----------------------------|
| 1 | HR | Recruitment/retention |
| 2 | Financial | Revenue/funding |
| 3 | Care | Access |
| 4 | Reg. Professional | Regulations/legislation |
| 5 | Facilities | Plant/systems failure |
| 6 | Care | Communication/coordination |
| 7 | Facilities | Aging/maintenance |
| 8 | IM/T | Breach/loss of information |
| 9 | HR | Shortage |
| 10 | IM/T | Systems/technology failure |

Trend of top 10 ranking by frequency of Risk Register tracked risks



Top 10 Risk Register 2019 tracked risks by likelihood

| # | Category | Risk |
|----|------------|-----------------------------|
| 1 | Care | Acuity |
| 2 | Facilities | Physical space constraints |
| 3 | HR | Psychological injuries |
| 4 | IM/T | Biomedical technology needs |
| 5 | Care | Access |
| 6 | HR | Benefits/overtime |
| 7 | HR | Recruitment/retention |
| 8 | Care | Supply shortages |
| 9 | Leadership | Politics |
| 10 | Research | Funding (research) |

Top 10 Risk Register 2019 tracked risks by impact

| # | Category | Risk |
|----|------------|-----------------------------|
| 1 | Care | Birth trauma |
| 2 | Care | Abduction |
| 3 | Care | Death by suicide/self-harm |
| 4 | Care | Diagnostic errors |
| 5 | IM/T | Biomedical technology needs |
| 6 | Facilities | Physical space constraints |
| 7 | Care | Discharge/transitions |
| 8 | Care | Pressure injuries |
| 9 | Financial | Revenue/funding |
| 10 | Care | Acuity |

Top 10 Risk Register 2019 tracked risks by rating

| # | Category | Risk |
|----|------------|-----------------------------|
| 1 | Care | Acuity |
| 2 | IM/T | Biomedical technology needs |
| 3 | Facilities | Physical space constraints |
| 4 | Care | Birth trauma |
| 5 | HR | Psychological injuries |
| 6 | Care | Diagnostic errors |
| 7 | Care | Access |
| 8 | Financial | Revenue/funding |
| 9 | HR | Recruitment/retention |
| 10 | Care | Discharge/transitions |

Introduction

Integrated Risk Management

Management and oversight of key organizational risks is a critical function for healthcare leaders and governing boards. Leadership teams must be proactive to identify and manage risks versus being reactive, considering the frequent accounts of unintended patient and staff harm, as well as other disruptions leading to financial, reputational, and facility losses (e.g. aging buildings, systems failures). Consequences of ineffective management of risks range from underperformance to catastrophic failures (Caldwell, 2012). Safety monitoring is critical and does not receive sufficient recognition (Vincent, Burnett, & Carthey, 2013) in healthcare organizations. Empowering, and devolving responsibility for the development and monitoring of safety metrics is essential (Vincent, Burnett, & Carthey, 2013) to build the presence of safety within an organization. Integrated Risk Management (IRM) provides a framework for prioritizing very different types of risks from across an organization. The goal is to create a concise summary of the most significant risks and to identify whether further work is required to bring these risks to acceptable levels (Stevens, Willcox, & Borovoy, 2019).

IRM program

HIROC brought together a national steering committee of leading healthcare organizations across sectors to co-create a standardized, evidence-based, effective, and efficient approach to IRM. Our IRM program promotes alignment to best practices and facilitates collation of risk management information from multiple healthcare organizations across the country. The primary goal of the program is to accelerate IRM in Canadian healthcare organizations and support the effective management and monitoring of risks. The key components of our IRM program include:

1. Evidence-based best practice guide and resources
2. Common taxonomy of key risks in healthcare organizations
3. Shared, electronic application (Risk Register)

IRM best practices

For the past five years, the following IRM implementation recommendations have stood out:

1. Create investment with board risk governance and senior leadership ownership
2. Prioritize risks to patients and staff
3. Align risks to strategic objectives wherever possible
4. Keep it simple

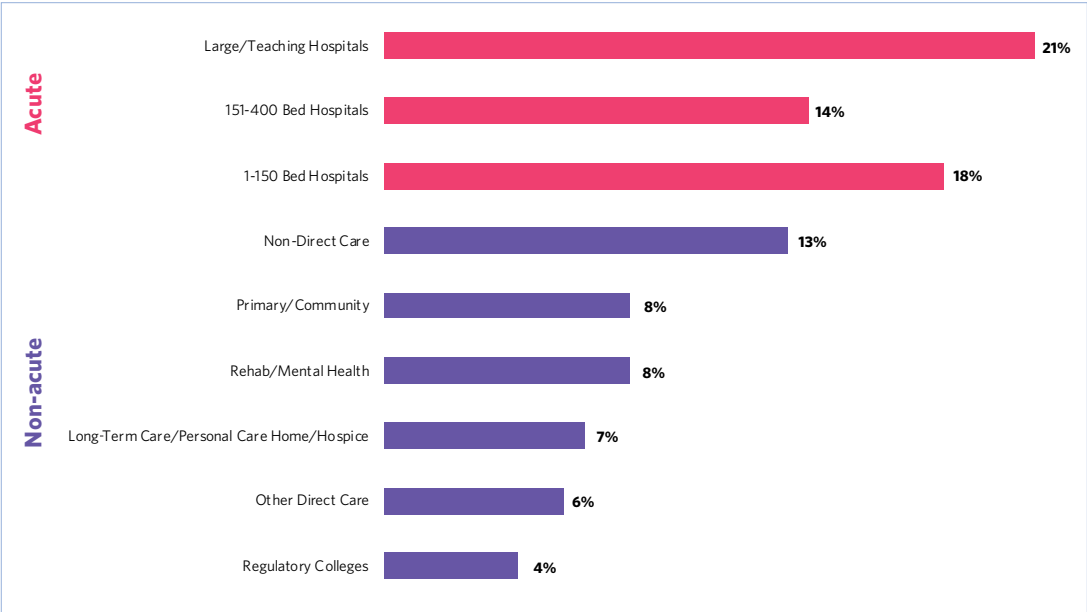
Appendix A – IRM Best Practices, expands on these four key recommendations.

Risk Register uptake

Since its launch in January 2015, 136 organizations have signed on to the Risk Register, of which 73 organizations are from an acute-care setting, and 63 organizations are from the non-acute care setting. At the end of 2019, 3,794 risks were entered into the Risk Register, on average 18 risks per organization.

Introduction

Figure 1. Risk Register active participants by peer group (n=136)



Benefits

The use of the Risk Register application reduces the cost and risks of maintaining self-grown solutions (e.g. traditional spreadsheet applications). It provides for standardization across an organization on classifications of risks. HIROC maintains, administers the use of, and safeguards the data of the Risk Register application at no additional cost to its Subscribers, as well as provides support and guidance on the use and implementation of the application and IRM methodologies.

Appendix B outlines our standardized on-boarding and implementation process.

One of the key benefits of the Risk Register is the collection and analysis of risk management information from across Canada. To further advance the sharing of collective knowledge amongst healthcare organizations, HIROC aggregates and summarizes—for the top tracked risks—the key controls, mitigation strategies, and monitoring activities inputted by Risk Register participants as Risk Profiles (see **Appendix C** for a list of all Risk Profiles available at www.HIROC.com).

Data Analysis Methodology

Methodology

Risk Register participants assess risks using likelihood and impact, following a common scoring matrix (**Appendix D**). The data analysis in this report aggregates all tracked open risks until December 2019 using these two parameters, as well as frequency of occurrence, and risk rating. In this report, the analysis includes ranking trends of the top 10 tracked open risks by all four parameters—likelihood, impact, frequency, and risk rating—over the past five years.

The *frequency* ranking is based on how often a risk is tracked in the Risk Register, i.e. number of entries. The *likelihood* and *impact* rankings are based on the average of the assigned scores in the registry. Similarly, the *rating* ranking is based on the average of the multiplication of *likelihood* and *impact* scores across entries. *Likelihood*, *impact*, and *rating* rankings compare risks against other risks, without accounting for the frequency of each risk.

Ranking position for a particular risk is determined by its calculated score, and how it compares to the scores of other risks. As such, a change in ranking positions for a risk may occur due to other risk scores changing. For example, we may observe a risk dropping from first to fifth in the likelihood ranking with no change to their likelihood score. Additionally, the closing of risks—excluded from the analysis—has an effect on the calculated scores and rankings.

Trend plots

These plots illustrate the ranking history of the 2019 top 10 risks for each parameter. To have an accurate representation of trends over time the actual ranking value for each year of a particular risk is included. To optimize readability, not all ranking values on the vertical axis are shown. As such, rankings 11 and above are grouped together into four groups:

- ≤25 - ranks between 11 and 25
- ≤50 - ranks between 26 and 50
- ≤75 - ranks between 51 and 75
- >75 - ranks greater than 75

Appendix F, **Appendix G**, and **Appendix H** present all open risks tracked in the Risk Register for all organizations, acute care organizations, and non-acute care organizations. Risks are listed by frequency of occurrence within each risk category.

Data privacy

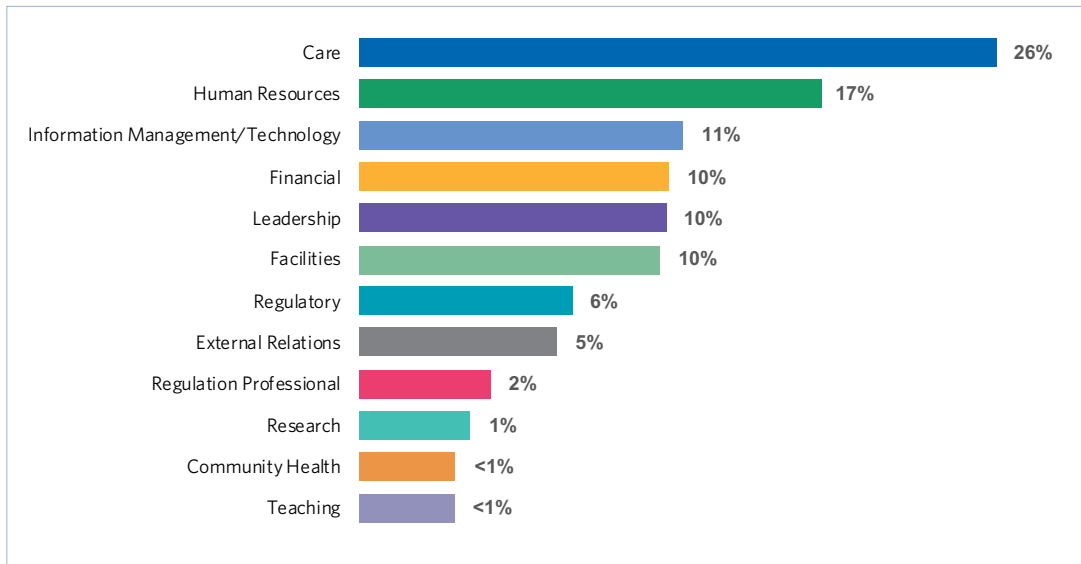
All data is aggregated and anonymized prior to publication. To address confidentiality and privacy, risks submitted by less than five organizations or tracked less than five times in the database were excluded from the data analysis.

Top Healthcare Risks: All Organizations

Risks by *strategic objective category*

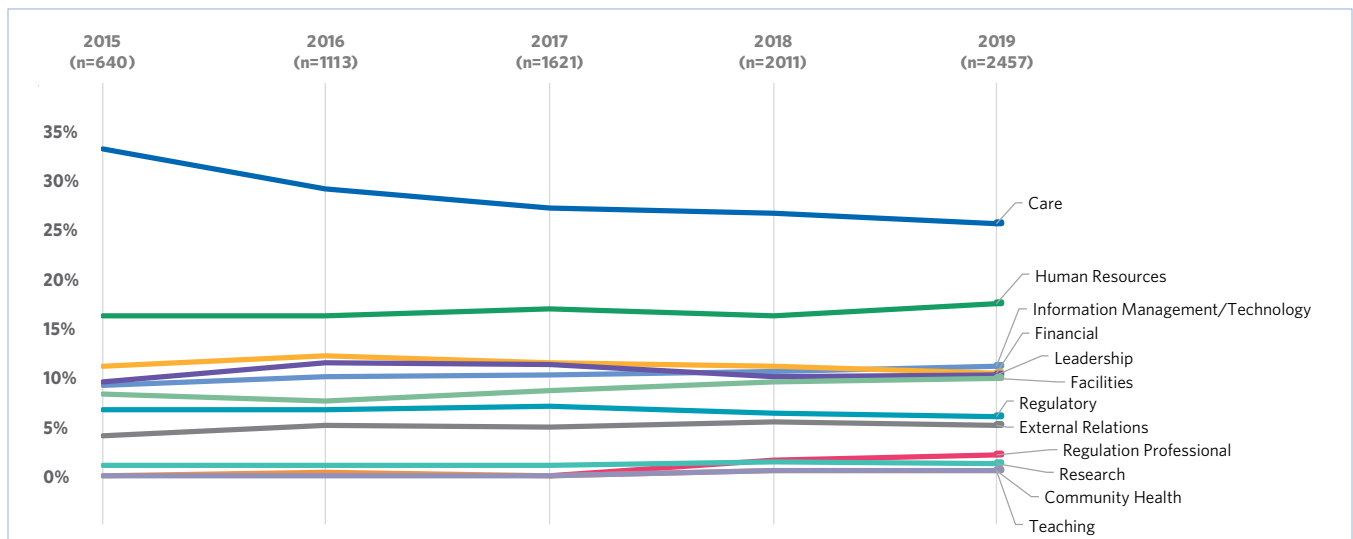
Eighty-four per cent of tracked risks across all 136 participating organizations can be clustered into two main groups: risks related 1) to people, and 2) to organizational infrastructure. *Care* and *Human Resources* risks account for 43% of tracked open risks in the system. The following 41% of risks belong to either *Information Management/Technology*, *Financial*, *Leadership*, or *Facilities* risk categories.

Figure 2. Distribution of Risk Register tracked risks by *strategic objective category*



The ranking of risk categories are consistent over the past five years. There has been a decrease in the proportion of risks tracked under the *Care* risk category from 33% in 2015 to 26% in 2019. *Human Resources* tracked risks have increased over the last two years. There have been slight shifts in ranking of *Information Management/Technology*, *Financial*, and *Leadership* risk categories.

Figure 3. Trend of distribution of Risk Register tracked risks by *strategic objective category*



Top Healthcare Risks: All Organizations

Risks by frequency

Over the last three years, there has been limited change on which open risks are the most tracked in the Risk Register. We continue to see nine most frequent risks from 2018 in the 2019 top risks. The top four risks based on frequency for 2019 remain as in 2018: *recruitment/retention*, *revenue/funding*, *access*, and *regulations/legislation*.

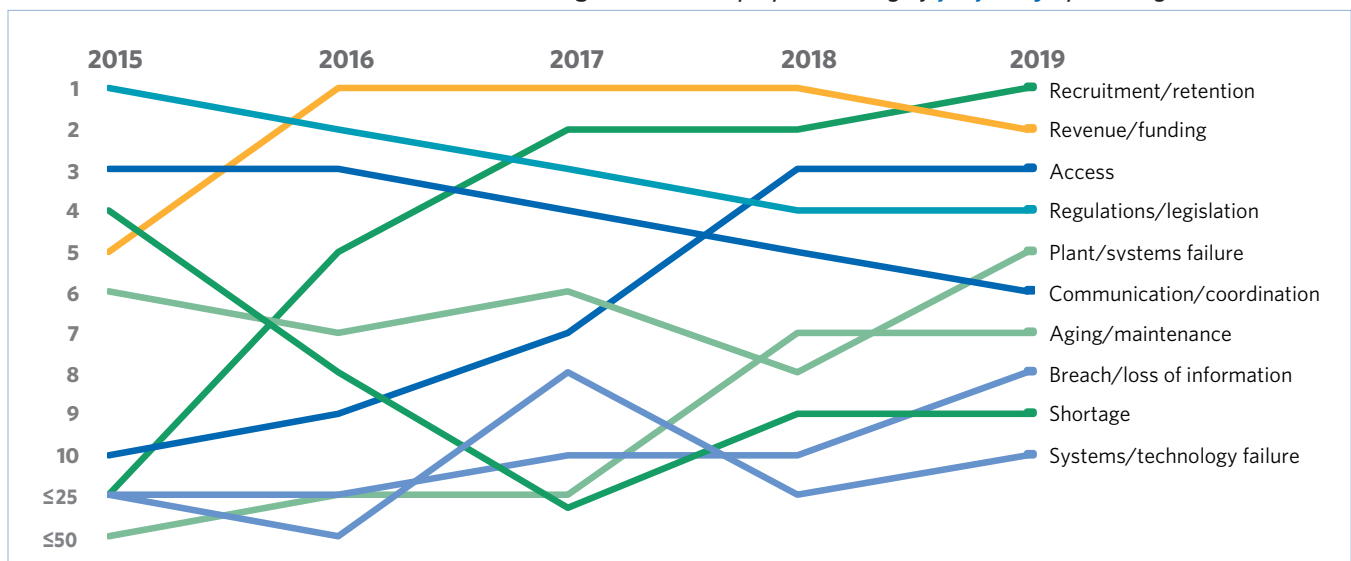
There appears to have been a change in focus for two *Human Resources* tracked risks: *recruitment/retention* and *staff shortage*. *Access* risks also show an upward trend over the last five years. *Revenue/funding* continues to be a frequently-tracked risk.

Appendix F provides a summary of all open risks tracked in the Risk Register for all organizations. Risks are listed by frequency of occurrence within each risk category.

Table 1. Top 10 Risk Register 2019 tracked risk by frequency

| Rank | Category | Risk |
|------|-------------------------|----------------------------|
| 1 | HR | Recruitment/retention |
| 2 | Financial | Revenue/funding |
| 3 | Care | Access |
| 4 | Regulation Professional | Regulations/legislation |
| 5 | Facilities | Plant/systems failure |
| 6 | Care | Communication/coordination |
| 7 | Facilities | Aging/maintenance |
| 8 | IM/T | Breach/loss of information |
| 9 | HR | Shortage |
| 10 | IM/T | Systems/technology failure |

Figure 4. Trend of top 10 ranking by frequency of Risk Register tracked risks



Top Healthcare Risks: All Organizations

Risks by *likelihood*

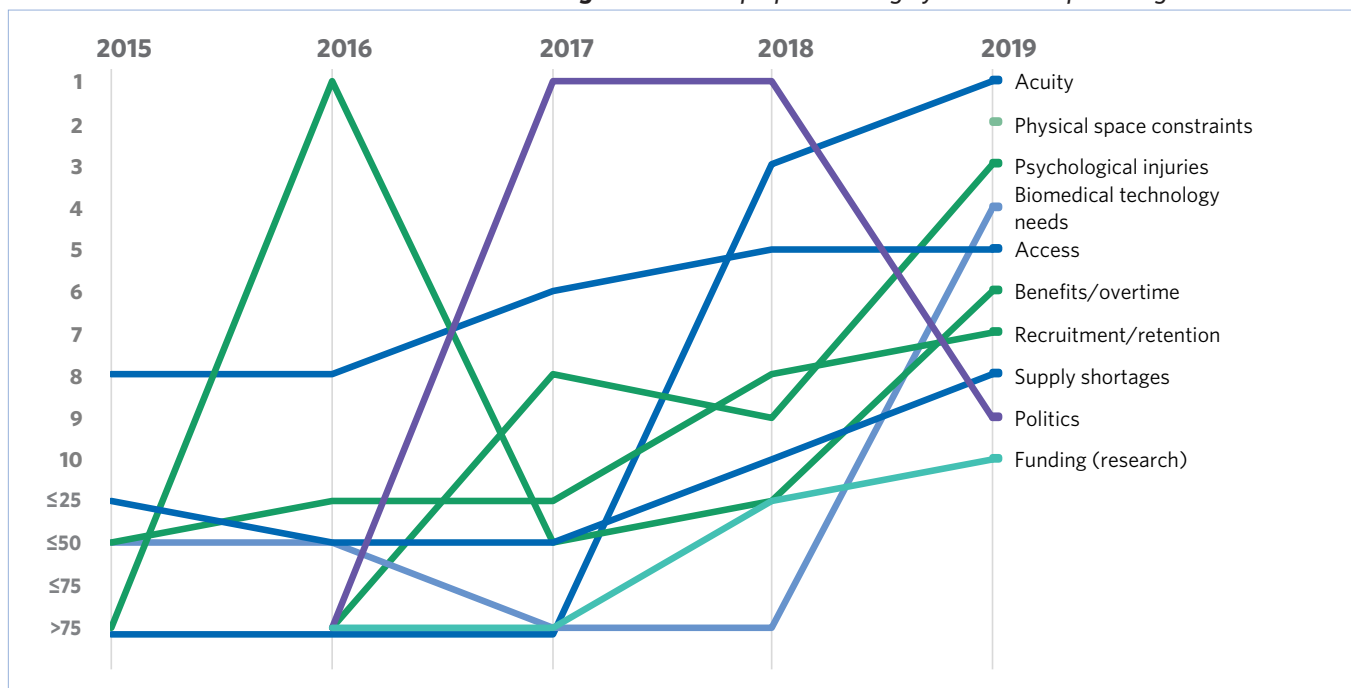
We observed movement in the top 10 ranking by likelihood over the last year. Four top risks from 2018—*length of stay*, *leadership-alignment acute/non-acute*, *patient falls*, and *discharge/transitions*—were replaced with *Care* risks from six risks in 2018 to three in 2019.

Acuity has had an upward trend over the last couple of years, ranking first based on likelihood score in 2019. *Physical space constraints* was added to the taxonomy in 2019 and ranked second. Three *Human Resources* risks ranked higher compared to 2018, particularly *psychological injuries* and *benefits/overtime* risks.

Table 2. Top 10 Risk Register 2019 tracked risk by *likelihood*

| Rank | Category | Risk |
|------|------------|-----------------------------|
| 1 | Care | Acuity |
| 2 | Facilities | Physical space constraints |
| 3 | HR | Psychological injuries |
| 4 | IM/T | Biomedical technology needs |
| 5 | Care | Access |
| 6 | HR | Benefits/overtime |
| 7 | HR | Recruitment/retention |
| 8 | Care | Supply shortages |
| 9 | Leadership | Politics |
| 10 | Research | Funding (research) |

Figure 5. Trend of top 10 ranking by *likelihood* of Risk Register tracked risks



Top Healthcare Risks: All Organizations

Risks by *impact*

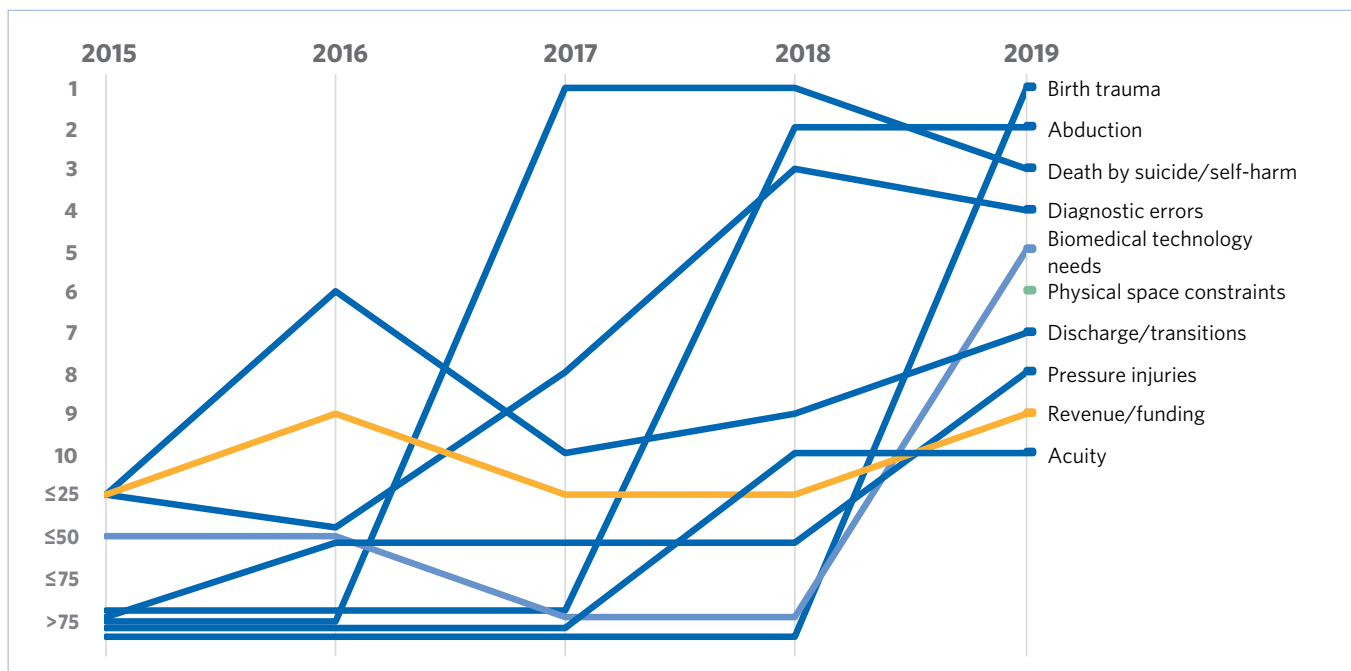
We also observed movement on the top 10 risks by impact compared to the previous years. Five risks from the previous year were replaced—*multi-incident*, *patient falls*, *biomedical technology failure*, *breach/loss of information*, and *access*.

Although risks ranked in the top 10 have changed year-to-year, *Care* risks are predominant in the top 10 ranking for the last three years (seven risks in 2017, eight risks in 2018), and continue to lead the top 10 ranking in 2019 (seven risks in 2019). This year's top four risks are all related to *Care*, with two related to maternal/neonate risks. This is in alignment with our most significant reported claims.

Table 3. Top 10 Risk Register 2019 tracked risk by *impact*

| Rank | Category | Risk |
|------|------------|-----------------------------|
| 1 | Care | Birth trauma |
| 2 | Care | Abduction |
| 3 | Care | Death by suicide/self-harm |
| 4 | Care | Diagnostic errors |
| 5 | IM/T | Biomedical technology needs |
| 6 | Facilities | Physical space constraints |
| 7 | Care | Discharge/transitions |
| 8 | Care | Pressure injuries |
| 9 | Financial | Revenue/funding |
| 10 | Care | Acuity |

Figure 6. Trend of top 10 ranking by *impact* of Risk Register tracked risks



Top Healthcare Risks: All Organizations

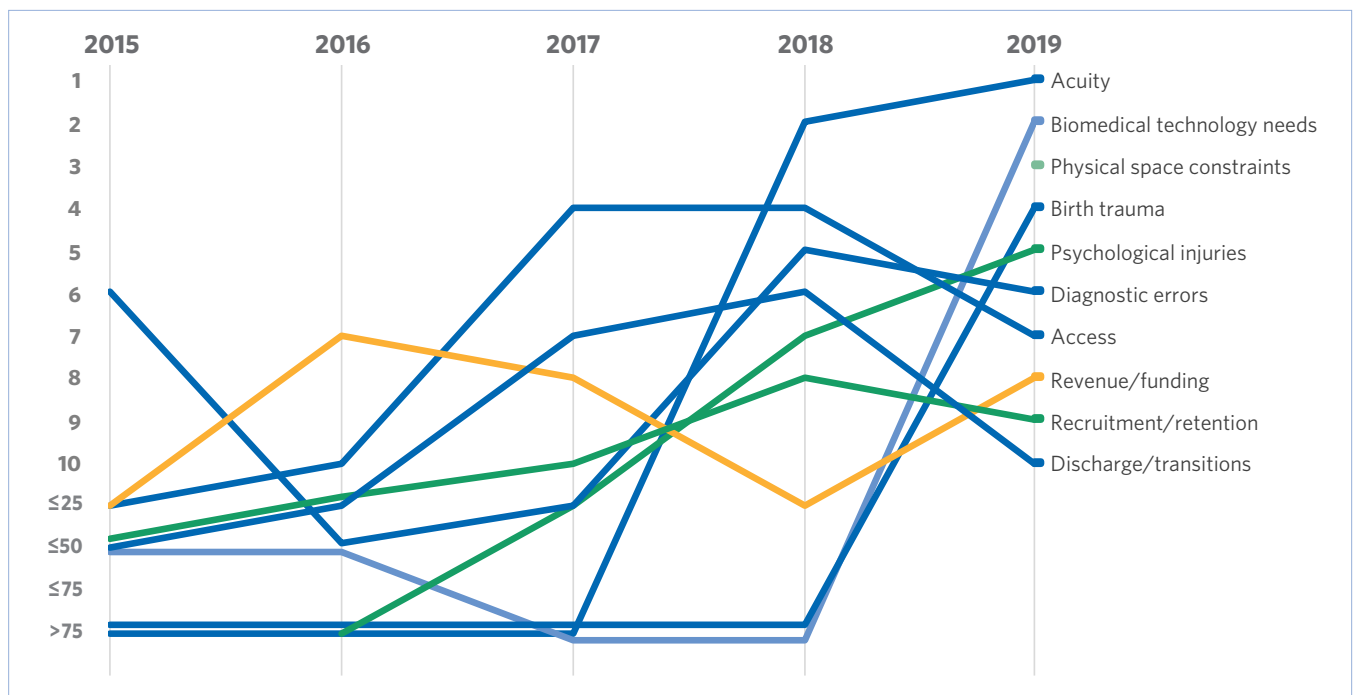
Risks by *rating*

Movement on the likelihood and impact rankings affects the rating ranking. As such, several of the top 10 risks from previous years have been displaced, explaining the introduction of *biomedical technology needs*, *physical space constraints*, and *birth trauma* to the top 10 by rating.

Table 4. Top 10 Risk Register 2019 tracked risk by *rating*

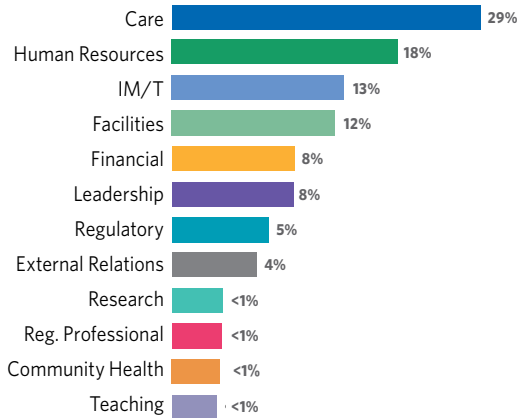
| Rank | Category | Risk |
|------|------------|-----------------------------|
| 1 | Care | Acuity |
| 2 | IM/T | Biomedical technology needs |
| 3 | Facilities | Physical space constraints |
| 4 | Care | Birth trauma |
| 5 | HR | Psychological injuries |
| 6 | Care | Diagnostic errors |
| 7 | Care | Access |
| 8 | Financial | Revenue/funding |
| 9 | HR | Recruitment/retention |
| 10 | Care | Discharge/transitions |

Figure 7. Trend of top 10 ranking by *rating* of Risk Register tracked risks

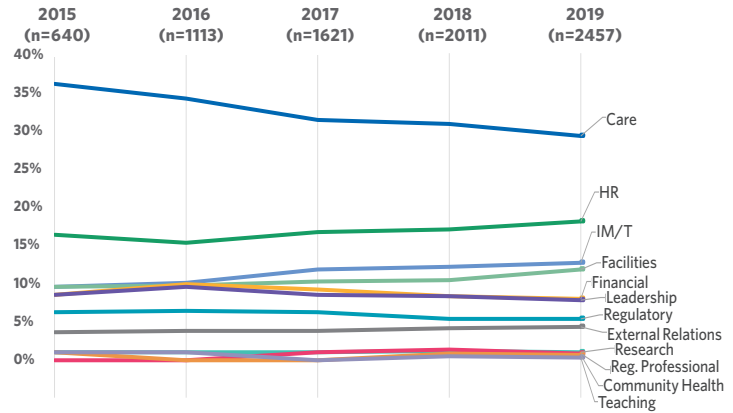


Top Healthcare Risks: Acute Care

Distribution of Risk Register 2019 tracked risks by strategic objective category



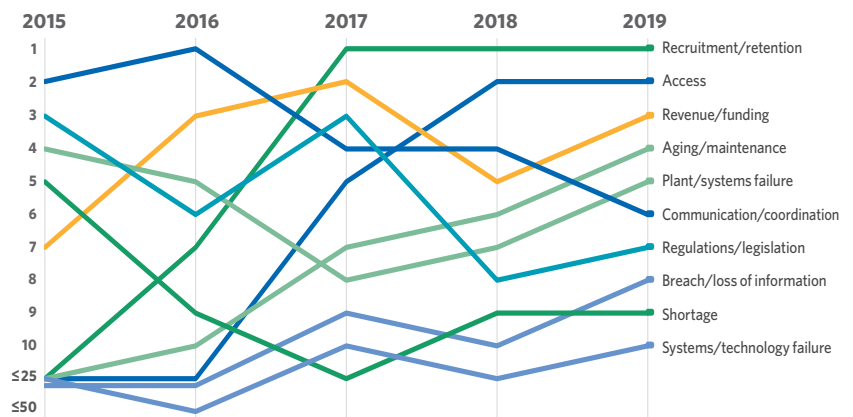
Five-year trend of distribution of Risk Register tracked risks by strategic objective category



Top 10 Risk Register 2019 tracked risks by frequency

| # | Category | Risk |
|----|-------------------|----------------------------|
| 1 | HR | Recruitment/retention |
| 2 | Care | Access |
| 3 | Financial | Revenue/funding |
| 4 | Facilities | Aging/maintenance |
| 5 | Facilities | Plant/systems failure |
| 6 | Care | Communication/coordination |
| 7 | Reg. Professional | Regulations/legislation |
| 8 | IM/T | Breach/loss of information |
| 9 | HR | Shortage |
| 10 | IM/T | Systems/technology failure |

Trend of top 10 ranking by frequency of Risk Register tracked risks



Top 10 Risk Register 2019 tracked risks by likelihood

| # | Category | Risk |
|----|------------|----------------------------|
| 1 | HR | Psychological injuries |
| 2 | Financial | Costs |
| 3 | HR | Benefits/overtime |
| 4 | Care | Acuity |
| 5 | HR | Physical injuries |
| 6 | Facilities | Physical space constraints |
| 7 | HR | Recruitment/retention |
| 8 | HR | Violence/disruptive |
| 9 | Care | Access |
| 10 | HR | Engagement |

Top 10 Risk Register 2019 tracked risks by impact

| # | Category | Risk |
|----|------------|-----------------------------|
| 1 | Care | Birth trauma |
| 2 | Care | Death by suicide/self-harm |
| 3 | Care | Wrong patient/site |
| 4 | Care | Diagnostic errors |
| 5 | IM/T | Biomedical technology needs |
| 6 | Financial | Revenue/funding |
| 7 | HR | Psychological injuries |
| 8 | Facilities | Physical space constraints |
| 9 | Care | Monitoring |
| 10 | Care | Discharge/transitions |

Top 10 Risk Register 2019 tracked risks by rating

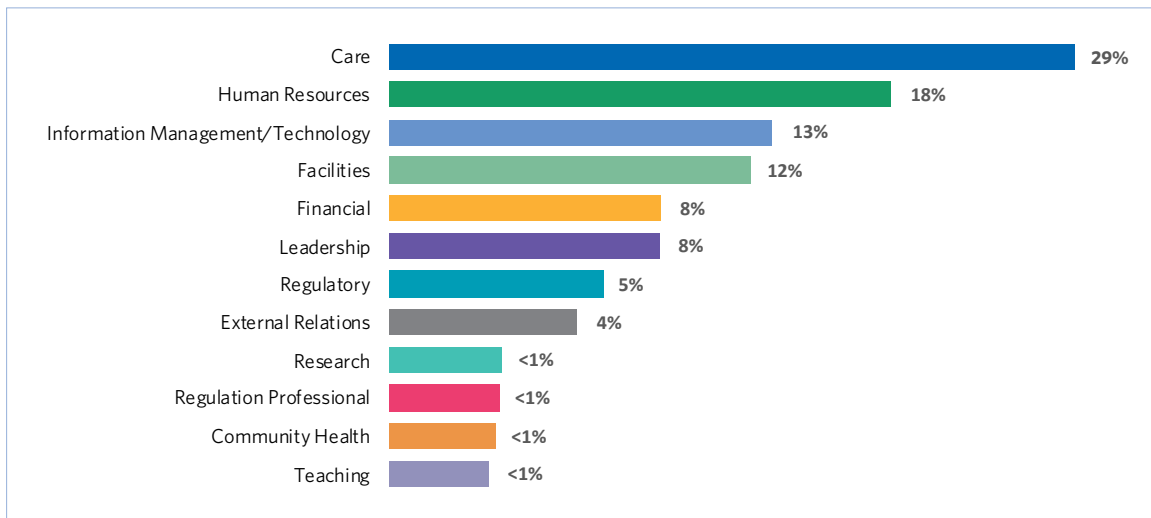
| # | Category | Risk |
|----|------------|-----------------------------|
| 1 | HR | Psychological injuries |
| 2 | Financial | Costs |
| 3 | Care | Acuity |
| 4 | Facilities | Physical space constraints |
| 5 | Financial | Revenue/funding |
| 6 | IM/T | Biomedical technology needs |
| 7 | Care | Birth trauma |
| 8 | Care | Access |
| 9 | HR | Recruitment/retention |
| 10 | Care | Diagnostic errors |

Top Healthcare Risks: Acute Care

Risks by *strategic objective category*

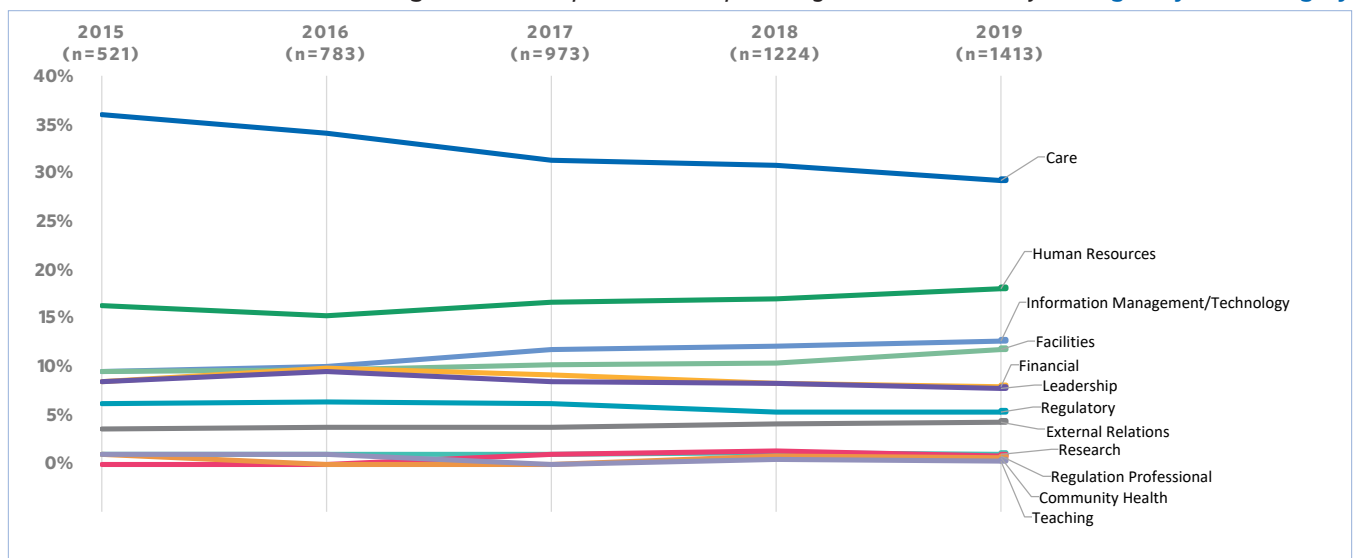
Eighty-eight per cent of tracked risks across acute care organizations can be clustered into two main groups: risks related 1) to people, and 2) to organizational infrastructure. *Care* and *Human Resources* related risks are predominant and account for 47% of tracked open risks in the system. The following 41% of risks belong to either *Information Management/Technology*, *Facilities*, *Financial* or *Leadership* risk categories.

Figure 8. Distribution of Risk Register tracked risks by *strategic objective category*



The ranking of risk categories has been consistent over the last five years. There has been a decrease in the proportion of risks tracked under the *Care* risk category from 36% in 2015 to 29% in 2019. *Human Resources*, *Information Management/Technology* and *Facilities* tracked risks have slightly increased over the last four years.

Figure 9. Trend of distribution of Risk Register tracked risks by *strategic objective category*



Top Healthcare Risks: Acute Care

Risks by *frequency*

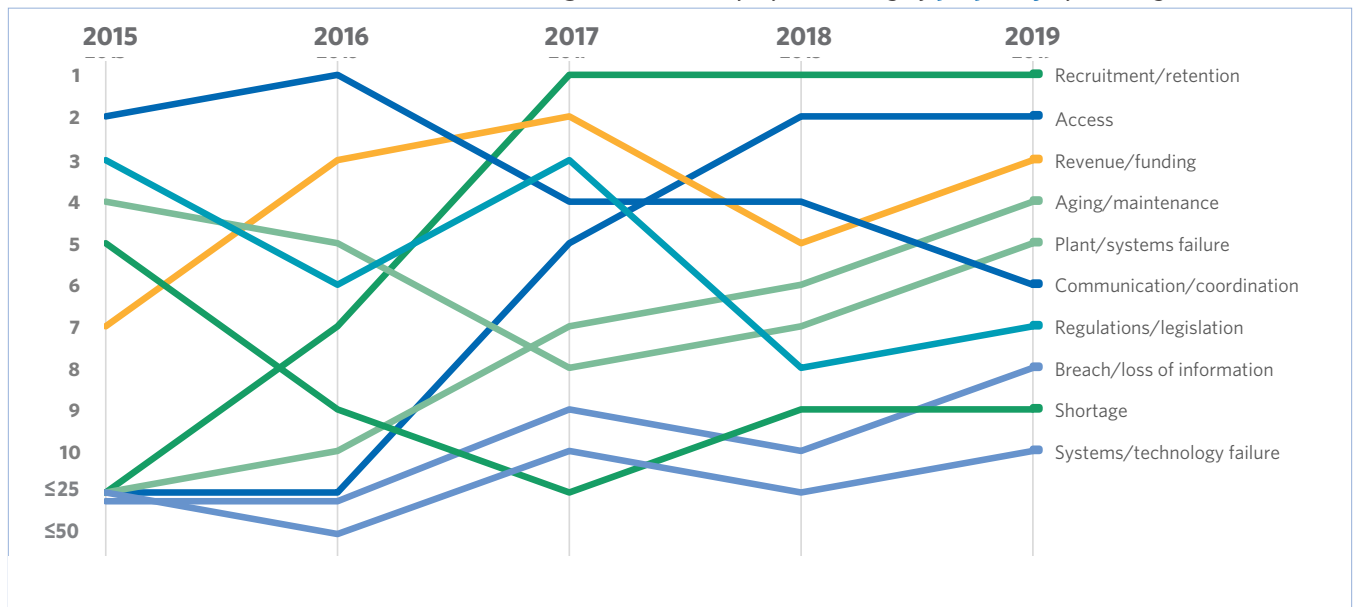
Over the last three years, there has been minimal change on which risks are the most tracked in the Risk Register. We continue to see eight risks from 2017 in the 2018 and 2019 top risks. *Recruitment/retention* has been the most frequently tracked risk over the last three years.

Appendix G provides a summary of all open risks tracked in the Risk Register for acute care organizations. Risks are listed by frequency of occurrence within each risk category.

Table 5. Trend of top 10 ranking by *frequency* of Risk Register tracked risks

| Rank | Category | Risk |
|------|-------------------------|----------------------------|
| 1 | HR | Recruitment/retention |
| 2 | Care | Access |
| 3 | Financial | Revenue/funding |
| 4 | Facilities | Aging/maintenance |
| 5 | Facilities | Plant/systems failure |
| 6 | Care | Communication/coordination |
| 7 | Regulation Professional | Regulations/legislation |
| 8 | IM/T | Breach/loss of information |
| 9 | HR | Shortage |
| 10 | IM/T | Systems/technology failure |

Figure 10. Trend of top 10 ranking by *frequency* of Risk Register tracked risks



Top Healthcare Risks: Acute Care

Risks by *likelihood*

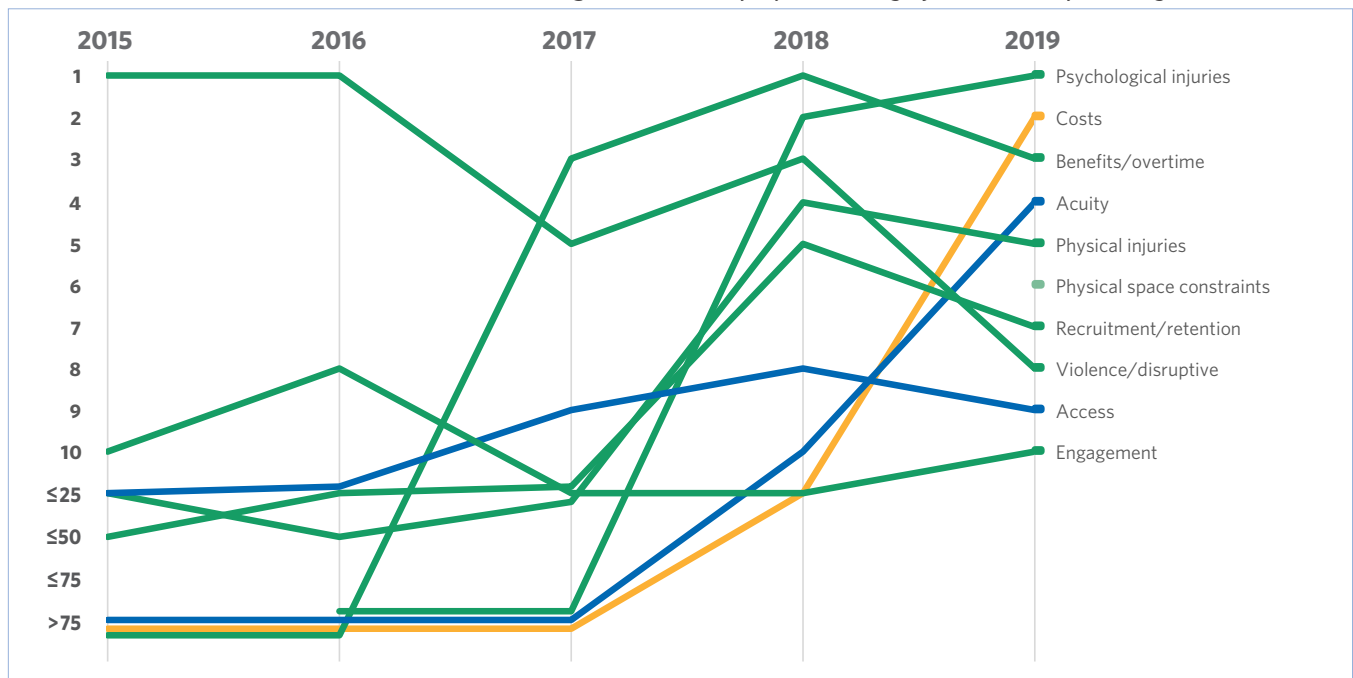
We observed some slight movement in the top 10 ranking by likelihood over the last year. Three risks from 2018 were displaced—*patient falls, building project/construction, and revenue/funding*.

Human Resources risks are predominant in the top 10 ranking for the last two years (top five risks in 2018, and six in 2019). *Psychological injuries, costs, and acuity* risks had upward movement in the likelihood ranking over the last two years. *Violence/disruptive* risks, presented over the last five years, have had a downward likelihood ranking since 2016.

Table 6. Trend of top 10 ranking by *likelihood* of Risk Register tracked risks

| Rank | Category | Risk |
|------|------------|----------------------------|
| 1 | HR | Psychological injuries |
| 2 | Financial | Costs |
| 3 | HR | Benefits/overtime |
| 4 | Care | Acuity |
| 5 | HR | Physical injuries |
| 6 | Facilities | Physical space constraints |
| 7 | HR | Recruitment/retention |
| 8 | HR | Violence/disruptive |
| 9 | Care | Access |
| 10 | HR | Engagement |

Figure 11. Trend of top 10 ranking by *likelihood* of Risk Register tracked risks



Top Healthcare Risks: Acute Care

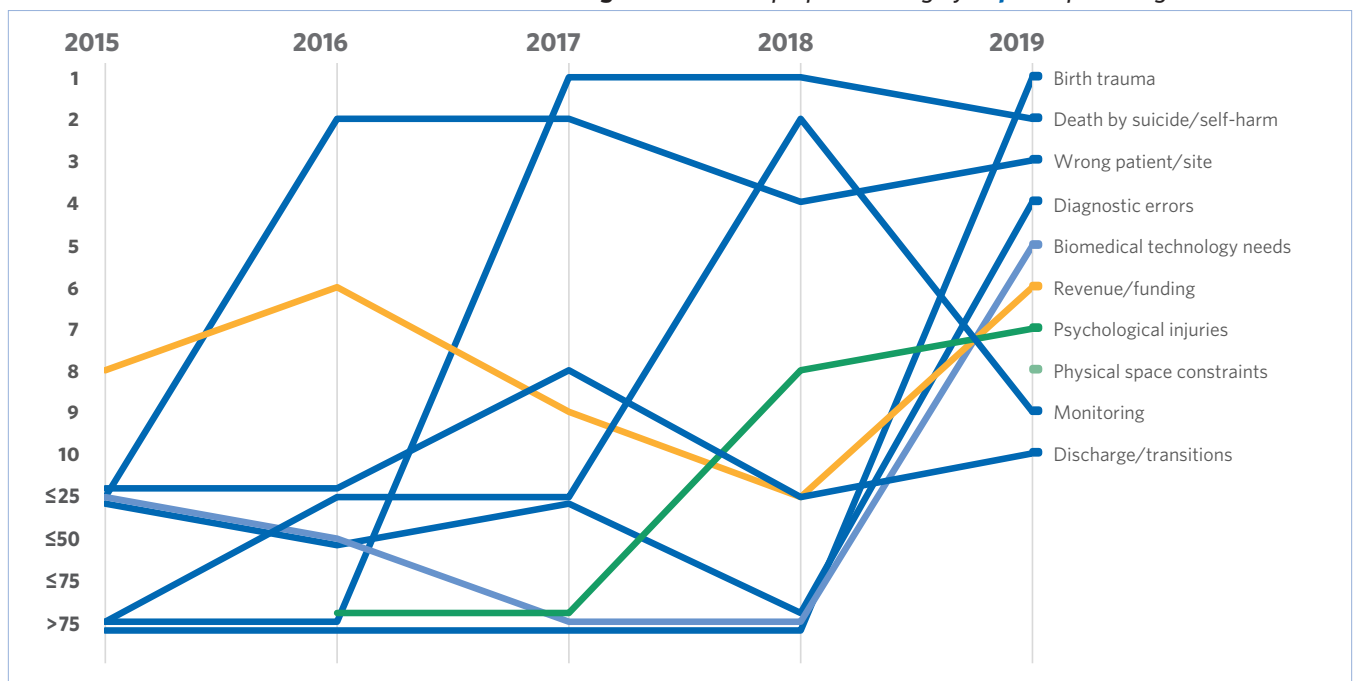
Risks by *impact*

This year there has been a shift in which risks ranked within the top 10 by impact compared to 2018. Six risks from 2018 were displaced: *experience/relations*, *information gaps*, *hazardous materials*, *patient falls*, *strategic projects*, and *access*. Care risks were predominant in the top four ranks for the last two years—for a total of six risks in both the 2018 and 2019 top 10 rankings. The top risk in 2019 is related to maternal/neonate.

Table 7. Trend of top 10 ranking by *impact* of Risk Register tracked risks

| Rank | Category | Risk |
|------|------------|-----------------------------|
| 1 | Care | Birth trauma |
| 2 | Care | Death by suicide/self-harm |
| 3 | Care | Wrong patient/site |
| 4 | Care | Diagnostic errors |
| 5 | IM/T | Biomedical technology needs |
| 6 | Financial | Revenue/funding |
| 7 | HR | Psychological injuries |
| 8 | Facilities | Physical space constraints |
| 9 | Care | Monitoring |
| 10 | Care | Discharge/transitions |

Figure 12. Trend of top 10 ranking by *impact* of Risk Register tracked risks



Top Healthcare Risks: Acute Care

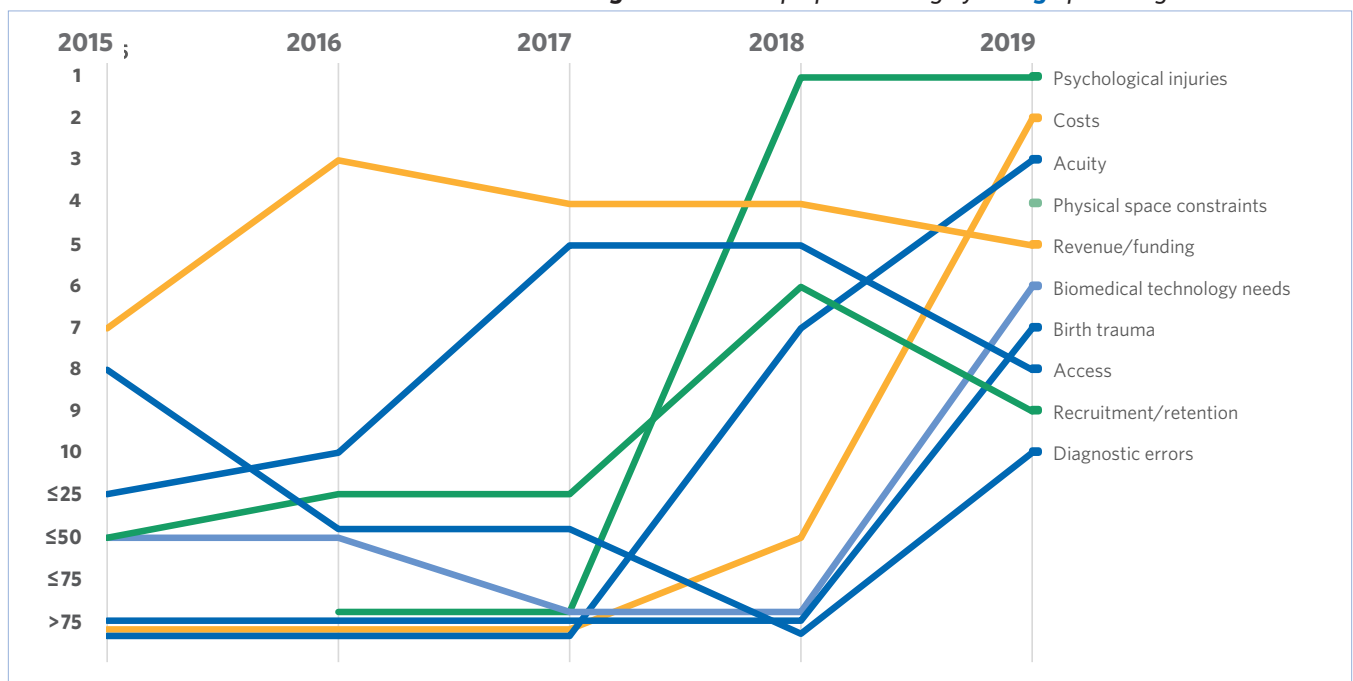
Risks by rating

Movement on the likelihood and impact rankings affects the rating ranking. As such, several of the top 10 risks from previous years have been displaced, explaining the introduction of costs, physical space constraints, biomedical technology needs, birth trauma, and diagnostic errors to the top 10 ranking by rating.

Table 8. Trend of top 10 ranking by **rating** of Risk Register tracked risks

| Rank | Category | Risk |
|------|------------|-----------------------------|
| 1 | HR | Psychological injuries |
| 2 | Financial | Costs |
| 3 | Care | Acuity |
| 4 | Facilities | Physical space constraints |
| 5 | Financial | Revenue/funding |
| 6 | IM/T | Biomedical technology needs |
| 7 | Care | Birth trauma |
| 8 | Care | Access |
| 9 | HR | Recruitment/retention |
| 10 | Care | Diagnostic errors |

Figure 13. Trend of top 10 ranking by **rating** of Risk Register tracked risks

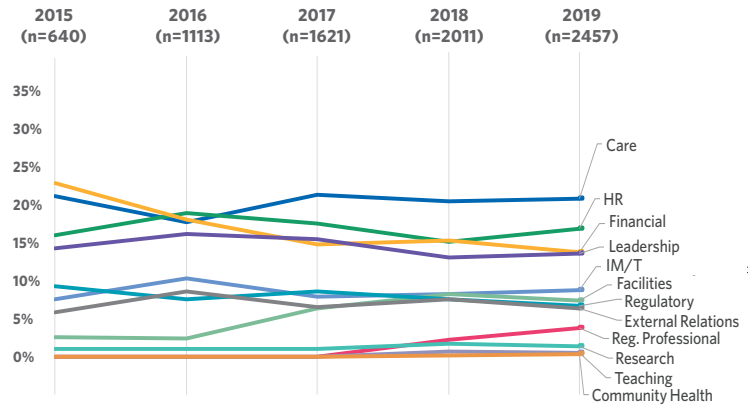


Top Healthcare Risks: Non-Acute Care

Distribution of Risk Register 2019 tracked risks by strategic objective category



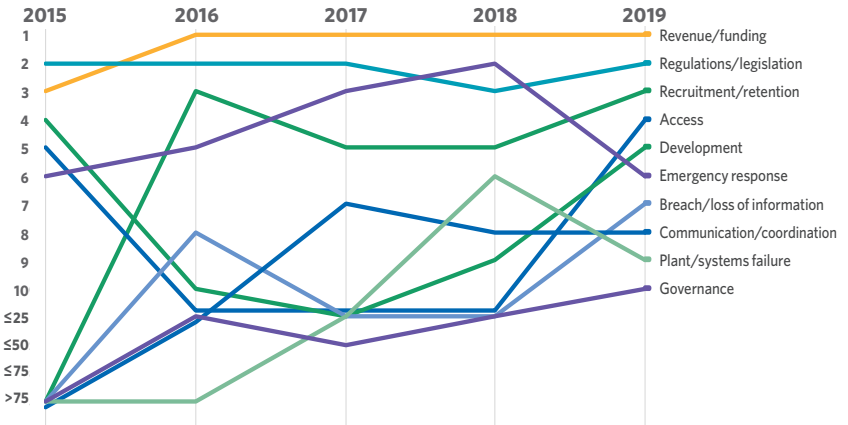
Five-year trend of distribution of Risk Register tracked risks by strategic objective category



Top 10 Risk Register 2019 tracked risks by frequency

| # | Category | Risk |
|----|------------|----------------------------|
| 1 | Financial | Revenue/funding |
| 2 | Regulatory | Regulations/legislation |
| 3 | HR | Recruitment/retention |
| 4 | Care | Access |
| 5 | HR | Development |
| 6 | Leadership | Emergency response |
| 7 | IM/T | Breach/loss of information |
| 8 | Care | Communication/coordination |
| 9 | Facilities | Plant/systems failure |
| 10 | Leadership | Governance |

Trend of top 10 ranking by frequency of Risk Register tracked risks



Top 10 Risk Register 2019 tracked risks by likelihood

| # | Category | Risk |
|----|------------|------------------------|
| 1 | Care | Supply shortages |
| 2 | Care | Access |
| 3 | Leadership | Change management |
| 4 | Care | Complaints management |
| 5 | Leadership | Politics |
| 6 | Care | Patient falls |
| 7 | Leadership | Information gaps |
| 8 | HR | Recruitment/retention |
| 9 | HR | Psychological injuries |
| 10 | Financial | Revenue/funding |

Top 10 Risk Register 2019 tracked risks by impact

| # | Category | Risk |
|----|----------------|----------------------------|
| 1 | IM/T | Breach/loss of information |
| 2 | Leadership | Culture |
| 3 | Financial | Revenue/funding |
| 4 | IM/T | Records management |
| 5 | IM/T | Systems reliability |
| 6 | Ext. Relations | Donor relations |
| 7 | HR | Psychological injuries |
| 8 | Care | Experience/relations |
| 9 | Care | Security/assault |
| 10 | Facilities | Aging/maintenance |

Top 10 Risk Register 2019 tracked risks by rating

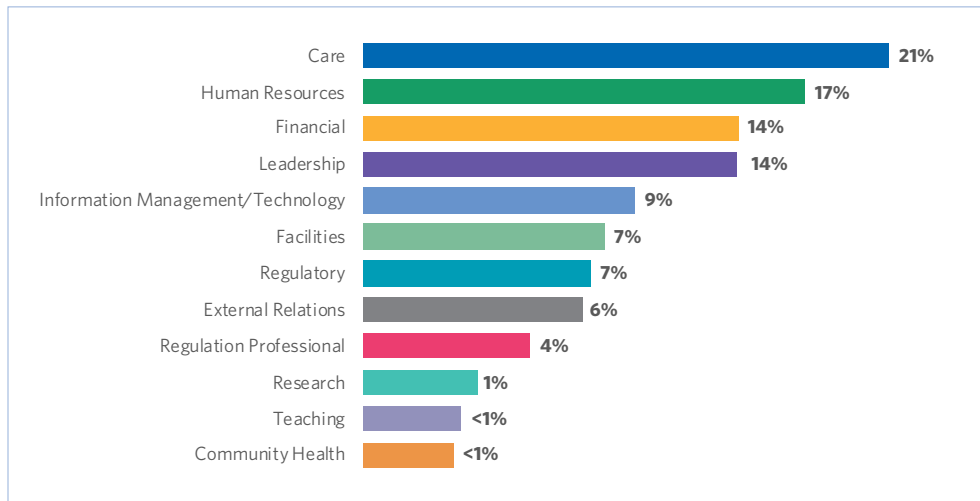
| # | Category | Risk |
|----|------------|------------------------|
| 1 | Financial | Revenue/funding |
| 2 | Care | Complaints management |
| 3 | Care | Access |
| 4 | Leadership | Change management |
| 5 | Leadership | Politics |
| 6 | HR | Psychological injuries |
| 7 | Care | Supply shortages |
| 8 | HR | Recruitment/retention |
| 9 | IM/T | Systems reliability |
| 10 | Care | Patient falls |

Top Healthcare Risks: Non-Acute Care

Risks by *strategic objective category*

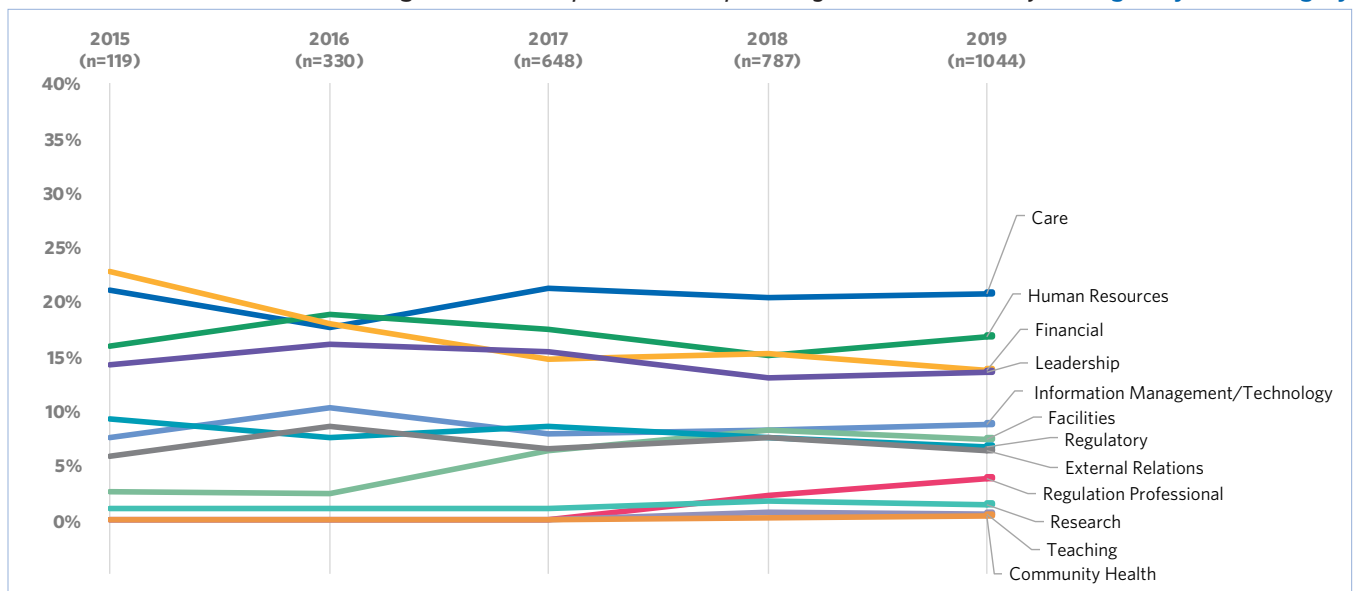
Eighty-two per cent of tracked risks across non-acute care organizations can be clustered into two main groups: risks related 1) to people, and 2) to organizational infrastructure. *Care* and *Human Resources* risks account for 38% of tracked open risks in the Risk Register. The following 44% of risks belong to either *Financial*, *Leadership*, *Information Management/Technology*, or *Facilities* risk categories.

Figure 14. Distribution of Risk Register tracked risks by *strategic objective category*



There have been some slight shifts in the ranking of risk categories over the last five years. The proportions of *Care*, *Human Resources*, and *Leadership* risks remain fairly consistent. There has been a decrease in the proportion of risks tracked under the *Financial* risk category from 23% in 2015 to 14% in 2019.

Figure 15. Trend of distribution of Risk Register tracked risks by *strategic objective category*



Top Healthcare Risks: Non-Acute Care

Risks by *frequency*

We observed some change in the top 10 ranking by frequency over the last year. Three risks from 2018 were displaced—*infection control*, *physical injuries*, and *community relations*.

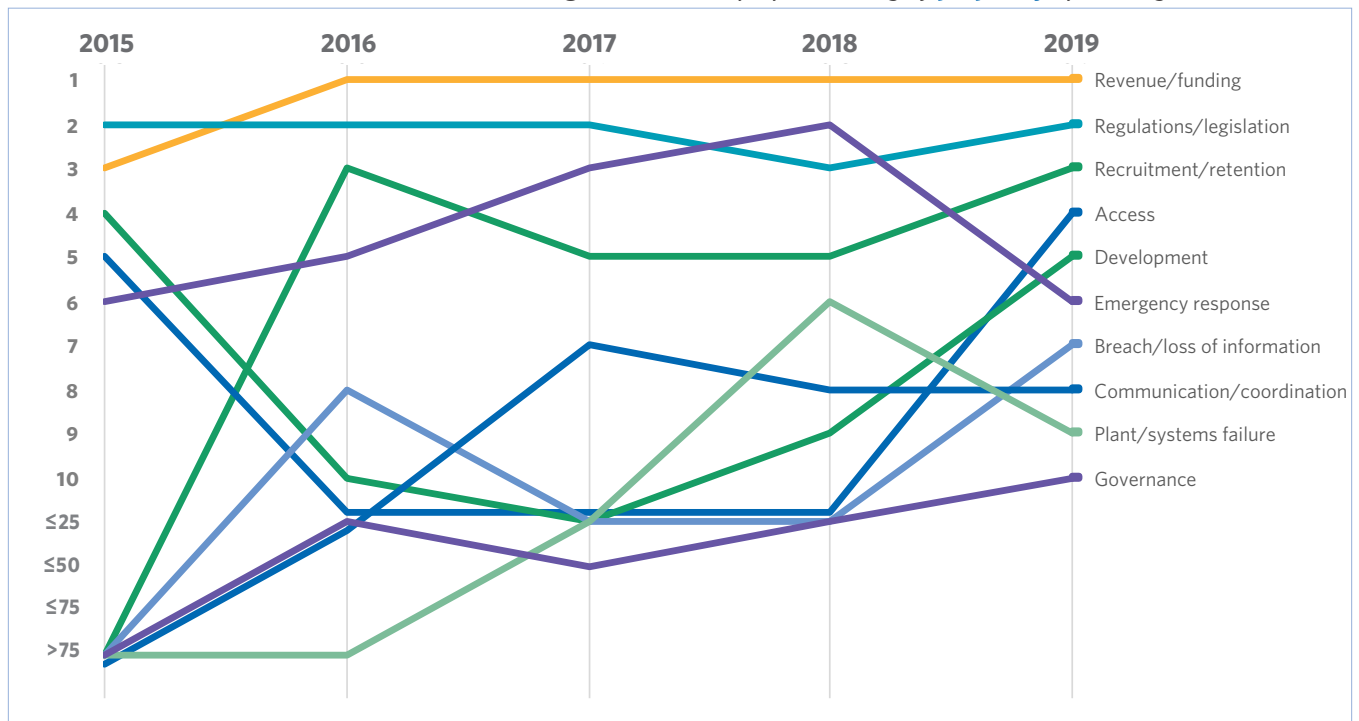
Overall, *revenue/funding* and *regulations/legislation* risks continue to be the most-frequently tracked risks, as they have ranked in the top three ranks over the last five years.

Appendix H provides a summary of all open risks tracked in the Risk Register for non-acute care organizations. Risks are listed by frequency of occurrence within each risk category.

Table 9. Trend of top 10 ranking by *frequency* of Risk Register tracked risks

| Rank | Category | Risk |
|------|------------|----------------------------|
| 1 | Financial | Revenue/funding |
| 2 | Regulatory | Regulations/legislation |
| 3 | HR | Recruitment/retention |
| 4 | Care | Access |
| 5 | HR | Development |
| 6 | Leadership | Emergency response |
| 7 | IM/T | Breach/loss of information |
| 8 | Care | Communication/coordination |
| 9 | Facilities | Plant/systems failure |
| 10 | Leadership | Governance |

Figure 16. Trend of top 10 ranking by *frequency* of Risk Register tracked risks



Top Healthcare Risks: Non-Acute Care

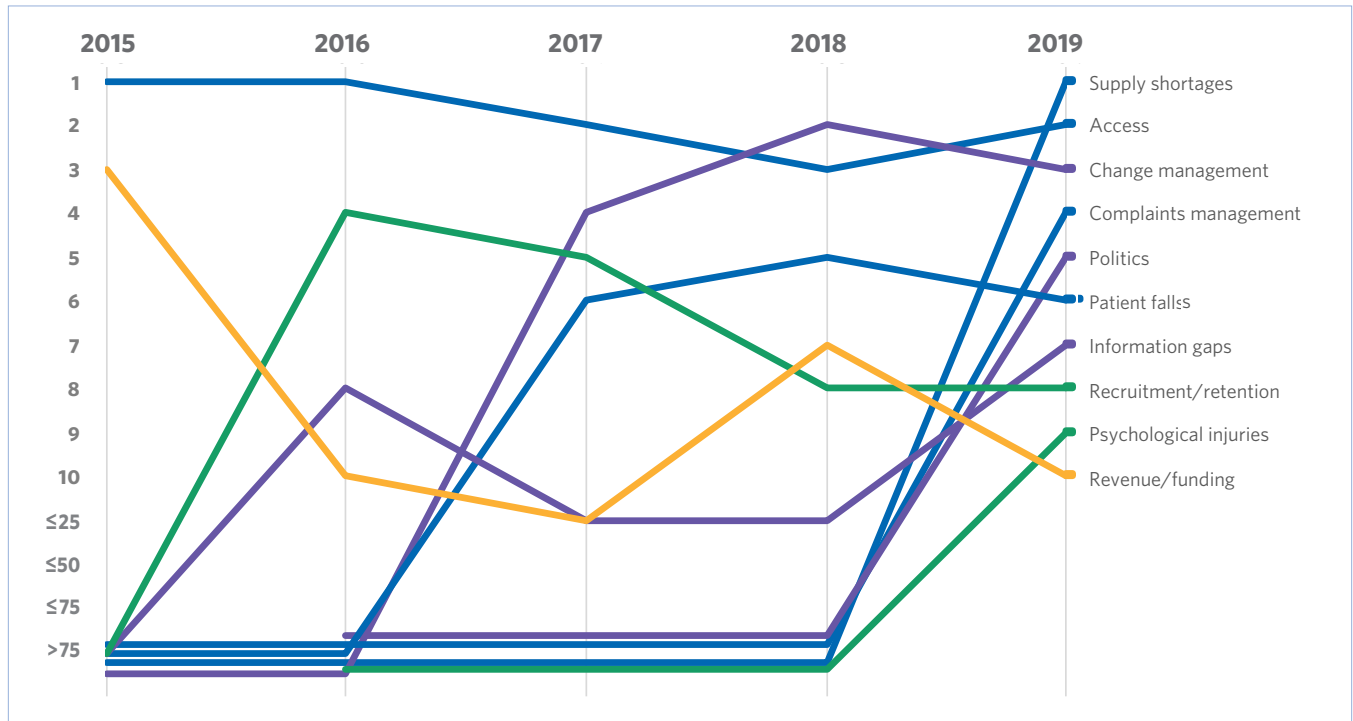
Risks by *likelihood*

Compared to 2018, we observed movement in the top 10 ranking by likelihood this year. Five risks from 2018 were displaced—*partner relations*, *diagnostic errors*, *government relations*, *community relations*, and *shortage*. *Supply shortages* risks had an upward trend over the last year, ranking first in likelihood this year. Over the last five years, even though *access* risks have had a downward trend, they continue to be a predominant risk by likelihood, ranking second this year.

Table 10. Trend of top 10 ranking by *likelihood* of Risk Register tracked risks

| Rank | Category | Risk |
|------|------------|------------------------|
| 1 | Care | Supply shortages |
| 2 | Care | Access |
| 3 | Leadership | Change management |
| 4 | Care | Complaints management |
| 5 | Leadership | Politics |
| 6 | Care | Patient falls |
| 7 | Leadership | Information gaps |
| 8 | HR | Recruitment/retention |
| 9 | HR | Psychological injuries |
| 10 | Financial | Revenue/funding |

Figure 17. Trend of top 10 ranking by *likelihood* of Risk Register tracked risks



Top Healthcare Risks: Non-Acute Care

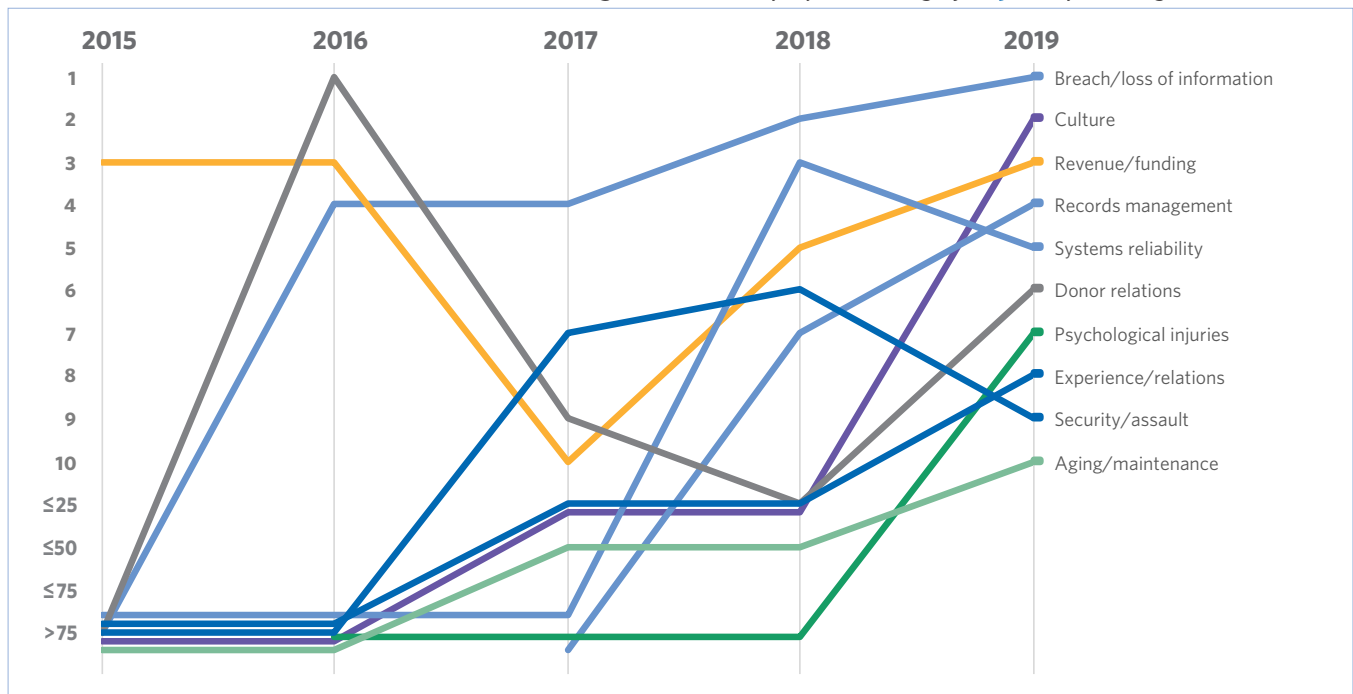
Risks by *impact*

We also observed movement in the top 10 risks by impact compared to the previous years. Five risks from 2018 were displaced—*diagnostic errors, QA of clinical/medical practice, access, strategic projects, and general adverse events*. Risks related to *breach/loss of information* and *revenue/funding* have had an upward trend over the last three years, ranking first and third based on impact score this year.

Table 11. Trend of top 10 ranking by *impact* of Risk Register tracked risks

| Rank | Category | Risk |
|------|--------------------|----------------------------|
| 1 | IM/T | Breach/loss of information |
| 2 | Leadership | Culture |
| 3 | Financial | Revenue/funding |
| 4 | IM/T | Records management |
| 5 | IM/T | Systems reliability |
| 6 | External Relations | Donor relations |
| 7 | HR | Psychological injuries |
| 8 | Care | Experience/relations |
| 9 | Care | Security/assault |
| 10 | Facilities | Aging/maintenance |

Figure 18. Trend of top 10 ranking by *impact* of Risk Register tracked risks



Top Healthcare Risks: Non-Acute Care

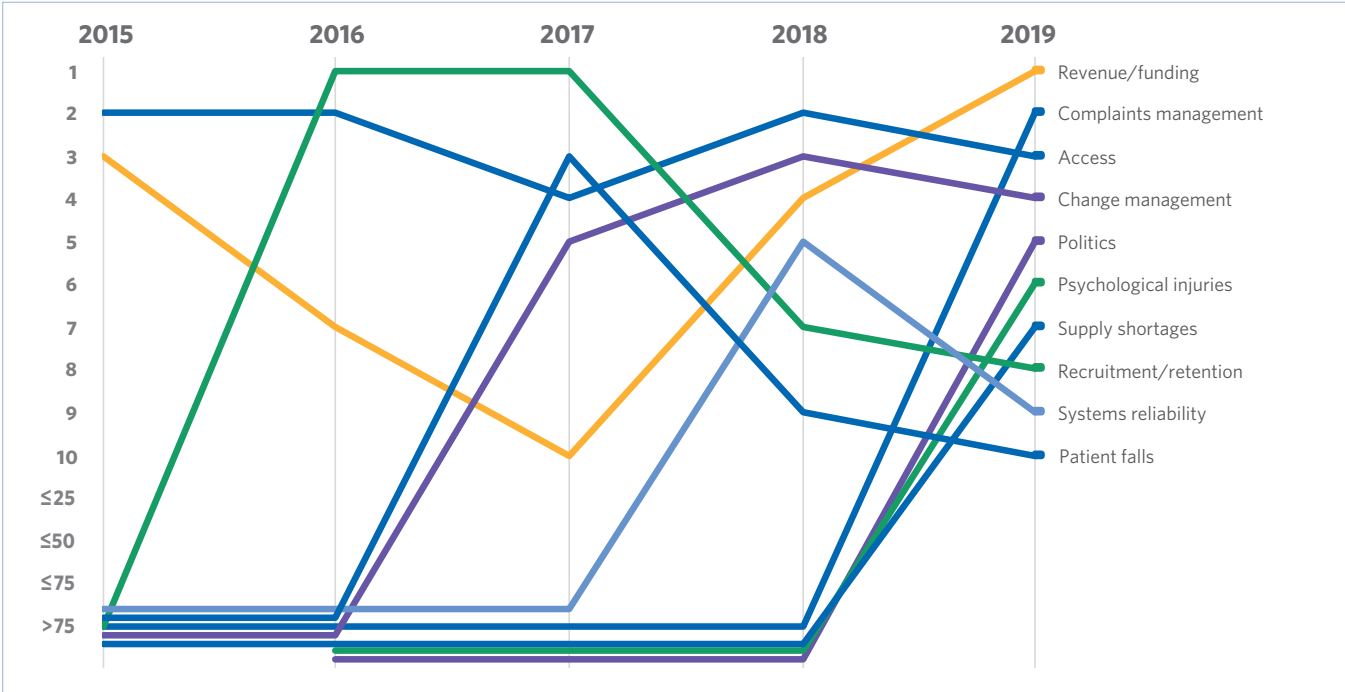
Risks by rating

Movement on the likelihood and impact rankings affects the rating ranking. As such, several of the top 10 risks from previous years have been displaced, explaining the introduction of *complaints management*, *politics*, *psychological injuries*, *supply shortages*, and *systems reliability* risks to the top 10 ranking by rating.

Table 12. Trend of top 10 ranking by **rating** of Risk Register tracked risks

| Rank | Category | Risk |
|------|------------|------------------------|
| 1 | Financial | Revenue/funding |
| 2 | Care | Complaints management |
| 3 | Care | Access |
| 4 | Leadership | Change management |
| 5 | Leadership | Politics |
| 6 | HR | Psychological injuries |
| 7 | Care | Supply shortages |
| 8 | HR | Recruitment/retention |
| 9 | IM/T | Systems reliability |
| 10 | Care | Patient falls |

Figure 19. Trend of top 10 ranking by **rating** of Risk Register tracked risks



Turning the Corner on Patient Safety

Over the years, the IRM program and shared Risk Register application have spread at scale, including progression of a Canadian database. This allows for aggregate analysis of key risks healthcare providers are facing. The Top Healthcare Risks 2020 Report offers a unique lens on what healthcare organizations are concerned with across the Canadian healthcare system, and aims to provide insights and share knowledge to continually improve risk management practices.

How can this report help you advance your IRM program?

- ✓ This information can facilitate the conversation with your senior team and board to advance your IRM program. The analysis of aggregate data, which reveals top risks by frequency, and by average ratings of likelihood and impact can assist in risk identification. Consider significant risks in your own organization and the most important risks in healthcare—the risk of harm to patients and staff—while maintaining a balanced appreciation of other key areas.
- ✓ Review this report with your safety, risk, patient safety, and quality teams to build awareness of common risks. The information in this report is meant to help you systematically identify and assess key risks within your own organizations while developing mitigation strategies.
- ✓ Identify areas of opportunity in your own IRM program.

Creating investment through committed conversations on safety may foster meaningful and regional benchmarking between peer organizations and further refinement of the data by geographic location for additional comparisons. Evaluating the linkage of Risk Register data with other data sources, such as the HIROC claims database, is another area for HIROC to explore to further refine and evaluate the impact of risks.

The Risk Register application will continue to yield valuable insights and share knowledge to improve the management of key risks. Learnings gleaned from the Risk Register will assist in the achievement of strategic objectives across the healthcare system—particularly the objective of ensuring high-quality and safe care for all.

References

Caldwell, J. (2012). *Risk Oversight and Governance: A Framework for Board Oversight of Enterprise Risk*.

Health Canada. (2009, 4 29). *Risk versus Hazard*. Retrieved from <https://www.canada.ca/en/health-canada/services/environmental-workplace-health/reports-publications/occupational-health-safety/whmis-quick-facts-risk-versus-hazard-health-canada-2008.html>

Mikes, A., & Kaplan, R. (2014). *Towards a Contingency Theory of Enterprise Risk Management*.

NHS. (2008). *A risk matrix for risk managers*. NHS, National Patient Safety Agency, London.

Stevens, P., Willcox, J., & Borovoy, L. (2019, 4 1). Integrated (Enterprise) Risk Management in Canadian Healthcare Organizations: Common Barriers and a Shared Solution for Effective and Efficient Implementation in Canada. *Healthcare quarterly (Toronto, Ont.)*, 22(1), 48-53.

Treasury Board of Canada Secretariat. (2016, 5 12). *Guide to Integrated Risk Management*. Retrieved from Treasury Board of Canada Secretariat: <https://www.canada.ca/en/treasury-board-secretariat/corporate/risk-management/guide-integrated-risk-management.html#toc1>

Vincent, C., Burnett, S., & Carthey, J. (2013). *The measurement and monitoring of safety*. The Health Foundation.

Glossary

| | |
|---|---|
| Acute-care organizations | Refers to hospitals, including large/teaching hospitals and regional health authorities. |
| All organizations | Includes both acute care and non-acute care organizations. |
| Closed risk | Risk status in the Risk Register is resolved or inactive. |
| Frequency | The number of times a particular risk has been entered into the Risk Register by organizations. The highest frequency risks are those with the highest count or prevalence in the system. |
| Likelihood | The probability of an event occurring. The Risk Register allows for risks entered into the system to be assessed on a five-point likelihood/probability scale, with five being the highest (See Appendix D for Common Risk Scoring Matrix and likelihood scale). Average likelihood scores are used for aggregate analysis of risks in the Top Healthcare Risks report. |
| Impact | The consequences and losses that could result if a risk were to be realized (e.g. patient harm, service interruption, financial costs). The Risk Register allows for risks to be assessed on a five-point impact/severity scale, with five being the highest (See Appendix D for Common Risk Scoring Matrix and likelihood scale). Average impact scores are used for aggregate analysis of risks in the Top Healthcare Risks report. |
| Integrated Risk Management (IRM) | Integrated Risk Management (IRM) is defined as “a continuous, proactive, and systematic process to understand, manage, <i>prioritize</i> * and communicate risk from an organization-wide perspective in a cohesive and consistent manner. It is about supporting strategic decision-making that contributes to the achievement of an organization’s overall objectives.” (Treasury Board of Canada Secretariat, 2016), *added by HIROC |
| Non-acute care organizations | Refers to primary/community health centers, long-term care, hospices, rehab centers, mental health, and organizations that do not provide direct patient care. |
| Open risk | Risk status in the Risk Register is active or under initial review. |
| Rating | The overall risk rating is generated in the Risk Register system as the multiplication of likelihood and impact scores, with a total of 25 being the highest score. |
| Risk | The possibility of loss or injury. (Merriam-Webster, 2017) The terms risk and hazard are not interchangeable. A hazard is a source of potential damage or harm (e.g. water on the floor), while a risk is the potential that harm will occur if exposure to the hazard occurs (e.g. visitor fall). (Health Canada, 2009) A risk is the “chance or possibility of danger, loss, or injury. For health services organizations, this can relate to the health and well-being of clients, staff and the public, property, reputation, environment, organizational functioning, financial stability, market share and other things of value.” (Accreditation Canada, 2009) |
| Risk category | Concise list of key risks related/aligned to a common set of strategic objectives. |
| Risk register | Online record and tool providing a high-level summary of the risks to the organization, including information related to risk lead, risk ratings, and key controls. |
| Trend | Long-term pattern that is currently evolving. |

Appendices

Appendix A: IRM Best Practices

1 Ensure board and senior leader ownership

Boards must take an active and direct role in IRM (Caldwell, 2012), asking probing questions of management about key risks (Stevens, Willcox, & Borovoy, 2019). (See **Appendix E** for a HIROC resource describing the questions boards should ask senior leaders about risk). There must also be visible ownership of risks by senior leaders, ensuring accountability and resources for effective risk management.

2 Focus on risks to key strategic objectives

Evidence shows that in healthcare, there is no dichotomy between risks that are strategic and those that are operational. Rather, *strategic risks* are risks that if left unchecked, could negatively impact achievement of *strategic objectives*, including risks in *operational* areas such as patient harm, staff harm, loss of resources or services. Operational events such as the high-profile death of a patient because of an adverse event or fraud by a key staff member can quickly impact strategic risks. In the Canadian healthcare system, there is alignment around a common set of strategic objectives (see examples in Table 13. Strategic objectives risk categories) and risks related to these objectives are largely known.

3 Keep it simple

In complex human-based systems (such as healthcare), some important risks are hard to quantify and risk assessments by individuals and groups are inherently biased (Mikes & Kaplan, 2014). Organizations that have been successful in implementing IRM, simplify processes, iterate, and start with a few key risks and actions to improve these.

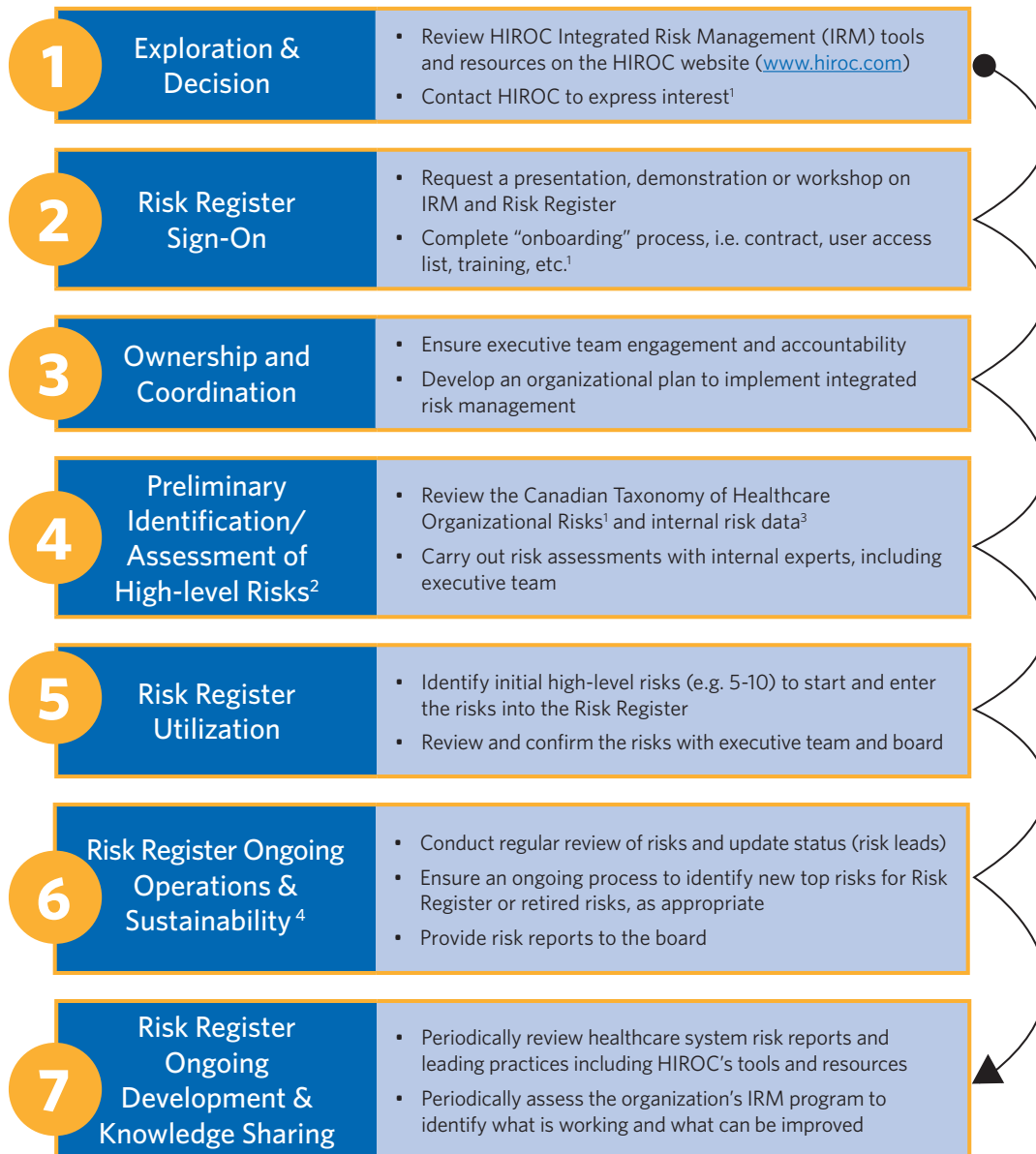
Table 13. Strategic objectives risk categories

| RISK CATEGORIES | Sample strategic objective statement |
|-----------------------------------|--|
| Care | Deliver safe, high-quality care |
| Community Health | Develop effective health promotion and prevention programs |
| External Relations | Listen to the needs of our community |
| Facilities | Strategically invest in facilities |
| Financial | Maintain strong financial performance |
| Human Resources | Provide a safe and engaging work environment for staff and physicians |
| Information Management/Technology | Use technology to improve quality, safety and continuity of care |
| Leadership | Establish a culture that focuses on learning, collaboration, and improvement |
| Regulation-Professional | Maintain good professional practice standards |
| Regulatory | Achieve exemplary accreditation standing |
| Research | Develop new knowledge and innovations |
| Teaching | Educate healthcare providers on meeting the future needs of the community |

Appendix B: IRM Process



Integrated Risk Management Program Simplified/Evidence-Based Implementation Process



¹Contact >> riskapplications@hiroc.com regarding these resources/steps.

²Organizations should focus on major, organizational risks requiring attention of senior team.

³E.g. Accreditation reports, aggregated incident reports, Risk Assessment Checklists results/claims.

⁴Goal of program is not perfection but to improve risk awareness, exploration and reporting.

Date last reviewed: January 2019
© 2020 HIROC. For quality assurance purposes.

Available at HIROC.com



Appendices

Appendix C: Risk Profiles

Risk Profiles contain information entered by HIROC Subscribers in the Risk Register with the aim of sharing best practices amongst healthcare organizations. Below is the list of Risk Profiles developed to date, ordered by risk categories.

Care

- Access
- Adverse events (general)
- Communication/coordination
- Diagnostic errors
- Discharge/transitions
- Infection control
- Medication
- Monitoring
- Patient falls
- Security/assault
- Supply shortages
- Wrong patient/site

Human Resources

- Development
- Staff engagement
- Physical injuries
- Psychological injuries
- Recruitment/retention
- Shortage
- Workplace violence/disruptive behaviour

Financial

- Costs
- Fraud
- Inefficiencies
- Revenue/funding

Leadership

- Change management
- Emergency response
- Governance
- Strategic projects
- Strategy alignment

Information Management/Technology

- Breach/loss of information
- Systems/technology failure
- Systems/technology needs

Facilities

- Aging/maintenance
- Building project/construction
- Plant/systems failure

Regulatory

- Accreditation
- Privacy
- Regulations/legislation

External Relations

- Community relations

Appendices

Appendix D: Common Risk Scoring Matrix

Adapted from 'A risk matrix for risk managers', National Patient Safety Agency, NHS, UK 2008 (NHS, 2008)

LIKELIHOOD SCALE

| Category | Very Low | Low | Medium | High | Very High |
|-------------------|-----------------------------------|---|--------------------------------------|-------------------------------------|--|
| Broad descriptors | • Will probably never occur/recur | • Do not expect it to happen/recur but it is possible | • Might happen or recur occasionally | • Will probably happen/recur | • Will undoubtedly happen/recur, possibly frequently |
| Time-frame | • Not expected to occur for years | • Expected to occur at least annually | • Expected to occur at least monthly | • Expected to occur at least weekly | • Expect to occur at least daily |
| Probability | • <0.1% | • 0.1-1% | • 1-10% | • 10-50% | • >50% |

POTENTIAL IMPACT SCALE

| Dimension | Very Low | Low | Medium | High | Very High |
|--|--|--|---|--|--|
| Physical/psychological harm | <ul style="list-style-type: none"> Minimal harm, no/minimal intervention or treatment No time off work | <ul style="list-style-type: none"> Minor harm or illness, minor intervention Time off work for <3 days Increase in LOS by 1-3 days | <ul style="list-style-type: none"> Moderate harm, professional intervention Time off work for 4-14 days Increase in LOS by 4-15 days Small number of patients | <ul style="list-style-type: none"> Major harm leading to long-term incapacity/disability Time off work for >14 days Increase in LOS by >15 days Mismanagement of patient care with long-term effects | <ul style="list-style-type: none"> Incident may lead to death Multiple permanent instances of harm, irreversible health effects Large number of patients |
| Disengaged staff/physicians | <ul style="list-style-type: none"> Low level of internal grievances | <ul style="list-style-type: none"> Grievances occurring but not in large numbers | <ul style="list-style-type: none"> Grievances show an increasing pattern Low staff morale | <ul style="list-style-type: none"> Grievances are increasing and more pervasive Very low staff morale | <ul style="list-style-type: none"> Grievances preoccupy the organization, arbitration and external review Loss of several key staff |
| Financial loss | <ul style="list-style-type: none"> Small loss | <ul style="list-style-type: none"> 1% of budget | <ul style="list-style-type: none"> 1-2% of budget | <ul style="list-style-type: none"> 2-5% of budget | <ul style="list-style-type: none"> >5% of budget |
| Reputation with stakeholders (including: community, donor, media, gov't, public, partners) | <ul style="list-style-type: none"> Rumours Potential stakeholder concern | <ul style="list-style-type: none"> Local media coverage (short-term) Elements of stakeholder expectation not being met | <ul style="list-style-type: none"> Local media coverage (sustained) Short-term reduction in stakeholder confidence | <ul style="list-style-type: none"> National media coverage (short-term) Potential for political involvement Longer-term reduction in stakeholder confidence | <ul style="list-style-type: none"> National media coverage (sustained) Political intervention Sr. leader termination Long-term reduction in stakeholder confidence |
| Service/business interruption | <ul style="list-style-type: none"> Interruption of >1 hour | <ul style="list-style-type: none"> Interruption of >8 hours | <ul style="list-style-type: none"> Interruption of >1 day | <ul style="list-style-type: none"> Interruption of >1 week | <ul style="list-style-type: none"> Permanent loss of service or facility |
| Compliance | <ul style="list-style-type: none"> Minor non-compliance statutory duty | <ul style="list-style-type: none"> Single failure to meet external standards or follow protocol Recommendations to comply with external agency | <ul style="list-style-type: none"> Repeated failures to meet external standards Orders issued, report required by external agency | <ul style="list-style-type: none"> Multiple statutory breaches /non-compliance with external standards Prolonged inspection, significant findings Prosecution initiated for non-compliance | <ul style="list-style-type: none"> Gross failure to meet standards Maximum fines Criminal code violation Impact on affiliation agreements |
| Business objectives/projects | <ul style="list-style-type: none"> Insignificant schedule delay | <ul style="list-style-type: none"> Minor schedule delay Small number of objectives not met | <ul style="list-style-type: none"> Moderate schedule delay Some objectives not met | <ul style="list-style-type: none"> Significant schedule delay Key objectives not met | <ul style="list-style-type: none"> Initiative not implemented Key objectives not met |

Appendix E: Guidance for Healthcare Boards



21 Questions

Guidance for healthcare boards on what they should ask senior leaders about risk.

Drawing on strong ethical and evidence-based principles, HIROC, in collaboration with Subscribers, has developed guiding questions to help boards of healthcare organizations carry out a critical governance function – the oversight of key organizational risks.

Strategic context

- 1 What are the organization’s vision and strategic objectives and do they reflect the core mandate of delivering high quality, safe care?

Board education

- 2 How does the board get the knowledge and experience necessary to oversee risk management in a healthcare organization?

Risk culture

- 3 What is the board doing to encourage speaking up across the organization about potential risks and unsafe practices?

Risk management program

- 4 What is the organization’s policy/ plan/framework for identifying, assessing and managing key risks?
- 5 How do senior leaders demonstrate ownership for key risks?

Key risks (patients & staff)

- 6 What are the most significant risks related to care?
- 7 What are the themes/trends arising from patient complaints?
- 8 What are the most significant risks related to human resources?

Key risks (other)

- 9 What are the most significant risks related to finances?
- 10 What are the most significant risks related to leadership?
- 11 What are the most significant risks related to external relations?
- 12 What are the most significant risks related to information management/ technology?
- 13 What are the most significant risks related to facilities/infrastructure?
- 14 What are the most significant risks related to regulatory compliance?
- 15 What are other significant risks (e.g. research, education)?

Risk management

- 16 How are decisions made on additional controls or actions required to manage key risks?

Risk prioritization

- 17 How do senior leaders determine top organizational risks and which risks to report to the board?

Risk reporting

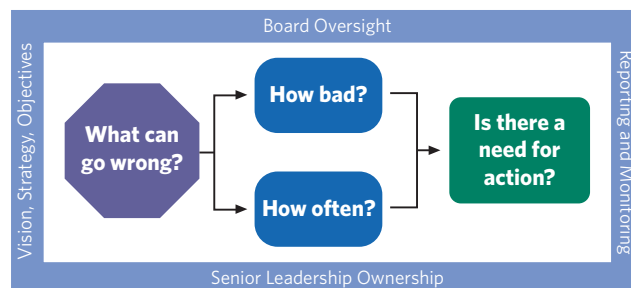
- 18 What records are kept for key risks and how do these roll-up into regular, effective reports for management and the board?

Crisis response

- 19 How does the organization plan for, respond to and learn from crises?

Assurance and evaluation

- 20 How is the board assured that controls for key risks are working?
- 21 How is the organization’s risk management program evaluated?



A simplified risk management framework

Appendices

Appendix F: Risks by Frequency - All Organizations

Below are all risks entered in the Risk Register to date for all organizations. They are sorted by most frequently cited within each category. See the “Taxonomy of Healthcare Organizational Risks” for full list of key risks and longer descriptions.

| Risks by frequency - All Organizations | | |
|--|--|--|
| Care | Financial | Facilities |
| 1 Access | 1 Revenue/funding | 1 Plant/systems failure |
| 2 Communication/coordination | 2 Costs | 2 Aging/maintenance |
| 3 Medication | 3 Inefficiencies | 3 Building access |
| 4 Infection control | 4 Fraud | 4 Building project/construction |
| 5 Adverse events (AE) | 5 Contracts | 5 Property damage |
| 6 Security/assault | 6 Reporting | 6 Hazardous materials |
| 7 Patient Falls | 7 Procurement | 7 Physical space constraints |
| 8 Monitoring | 8 Fines/liabilities | 8 Visitor falls |
| 9 Laboratory/radiology | 9 Investments | |
| 10 Supply shortages | 10 Supply chain | Regulatory |
| 11 Discharge/transitions | | 1 Regulations/legislation |
| 12 Experience/relations | Leadership | 2 Accreditation |
| 13 Wrong patient/site | 1 Emergency response | 3 Credentialing |
| 14 Pressure injuries | 2 Governance | 4 Performance agreements |
| 15 Care/consent conflicts | 3 Strategy alignment | External Relations |
| 16 Complaints management | 4 Change management | 1 Community relations |
| 17 Acuity | 5 Succession | 2 Partner relations |
| 18 Diagnostic errors | 6 Strategic projects | 3 Media relations |
| 19 Death by suicide/self-harm | 7 Information gaps | 4 Government relations |
| 20 Elopement/unauthorized absence | 8 Culture | 5 Donor relations |
| 21 Multi-incident | 9 Mergers | Regulation - Professional |
| 22 Support services | 10 Politics | 1 Privacy |
| 23 Abduction | 11 Alignment acute/non-acute | 2 Facility accreditation/quality review |
| 24 Birth trauma | 12 New program/technology | 3 Quality assurance of clinical/medical practice |
| 25 Contracted services monitoring | 13 Conflict of interest | 4 Complaints/resolution |
| 26 Length of stay | Information Management/Technology | 5 Registration/licensure |
| 27 Pain management | 1 Breach/loss of information | Teaching |
| 28 Patient victimization | 2 Systems/technology failure | 1 Student experience |
| 29 Restraints/entanglement/entrapment | 3 Systems/technology needs | 2 Contracts (teaching) |
| 30 Retained foreign objects | 4 Systems reliability | 3 Student performance |
| 31 Readmissions | 5 Records management | 4 Accreditation (teaching) |
| Human Resources | 6 Systems project | Research |
| 1 Recruitment/retention | 7 Systems integration | 1 Funding (research) |
| 2 Shortage | 8 Technology use | 2 Adverse events (research subjects) |
| 3 Development | 9 Biomedical technology needs | 3 Ethics |
| 4 Physical injuries | 10 Biomedical technology failure | 4 Contracts (research) |
| 5 Violence/disruptive | 11 Systems reliability | 5 Intellectual property |
| 6 Engagement | 12 Systems/technology support | 6 Inspections (research) |
| 7 Labour relations | | Community Health |
| 8 Scope of practice | | 1 Demographics |
| 9 Psychological injuries | | 2 Emergency medical services |
| 10 Benefits/overtime | | 3 Primary care |
| 11 Agency issues | | 4 Chronic disease management |
| 12 Rights | | |
| 13 Wrongful dismissal | | |

Appendices

Appendix G: Risks by Frequency – Acute Care

Below are all risks entered in the Risk Register to date for acute care organizations. They are sorted by most frequently cited within each category. See the “Taxonomy of Healthcare Organizational Risks” for full list of key risks and longer descriptions.

| Risks by frequency - Acute Care | | |
|---------------------------------------|--|--|
| Care | Financial | Facilities |
| 1 Access | 1 Revenue/funding | 1 Aging/maintenance |
| 2 Communication/coordination | 2 Inefficiencies | 2 Plant/systems failure |
| 3 Medication | 3 Costs | 3 Building project/construction |
| 4 Adverse events (AE) | 4 Procurement | 4 Building access |
| 5 Patient Falls | 5 Fraud | 5 Property damage |
| 6 Security/assault | 6 Fines/liabilities | 6 Physical space constraints |
| 7 Infection control | 7 Reporting | 7 Hazardous materials |
| 8 Monitoring | 8 Contracts | 8 Visitor falls |
| 9 Discharge/transitions | 9 Investments | |
| 10 Laboratory/radiology | 10 Supply chain | Regulatory |
| 11 Pressure injuries | | 1 Regulations/legislation |
| 12 Supply shortages | Leadership | 2 Accreditation |
| 13 Care/consent conflicts | 1 Change management | 3 Credentialing |
| 14 Wrong patient/site | 2 Emergency response | 4 Performance agreements |
| 15 Experience/relations | 3 Culture | |
| 16 Acuity | 4 Strategic projects | External Relations |
| 17 Death by suicide/self-harm | 5 Strategy alignment | 1 Community relations |
| 18 Complaints management | 6 Succession | 2 Partner relations |
| 19 Birth trauma | 7 Mergers | 3 Government relations |
| 20 Diagnostic errors | 8 Information gaps | 4 Media relations |
| 21 Elopement/unauthorized absence | 9 Governance | 5 Donor relations |
| 22 Length of stay | 10 New program/technology | Regulation – Professional |
| 23 Multi-incident | 11 Politics | 1 Privacy |
| 24 Pain management | 12 Conflict of interest | 2 Quality assurance of clinical/medical practice |
| 25 Retained foreign objects | | 3 Facility accreditation/ quality review |
| 26 Abduction | Information Management/Technology | 4 Complaints/resolution |
| 27 Patient victimization | 1 Breach/loss of information | 5 Registration/licensure |
| 28 Restraints/entanglement/entrapment | 2 Systems/technology failure | |
| 29 Support services | 3 Systems/technology needs | Teaching |
| 30 Contracted services monitoring | 4 Systems reliability | 1 Student experience |
| 31 Readmissions | 5 Systems project | 2 Contracts (teaching) |
| | 6 Technology use | |
| Human Resources | 7 Biomedical technology needs | Research |
| 1 Recruitment/retention | 8 Systems integration | 1 Funding (research) |
| 2 Shortage | 9 Records management | 2 Adverse events (research subjects) |
| 3 Violence/disruptive | 10 Biomedical technology failure | 3 Contracts (research) |
| 4 Physical injuries | 11 Systems reliability | 4 Ethics |
| 5 Engagement | 12 Systems/technology support | 5 Inspections (research) |
| 6 Development | | 6 Intellectual property |
| 7 Labour relations | | |
| 8 Psychological injuries | | Community Health |
| 9 Scope of practice | | 1 Demographics |
| 10 Benefits/overtime | | 2 Primary care |
| 11 Agency issues | | 3 Chronic disease management |
| 12 Wrongful dismissal | | 4 Emergency medical services |
| 13 Rights | | |

Appendices

Appendix H: Risks by Frequency - Non-Acute Care

Below are all risks entered in the Risk Register to date for non-acute care organizations. They are sorted by most frequently cited within each category. See the “Taxonomy of Healthcare Organizational Risks” for full list of key risks and longer descriptions.

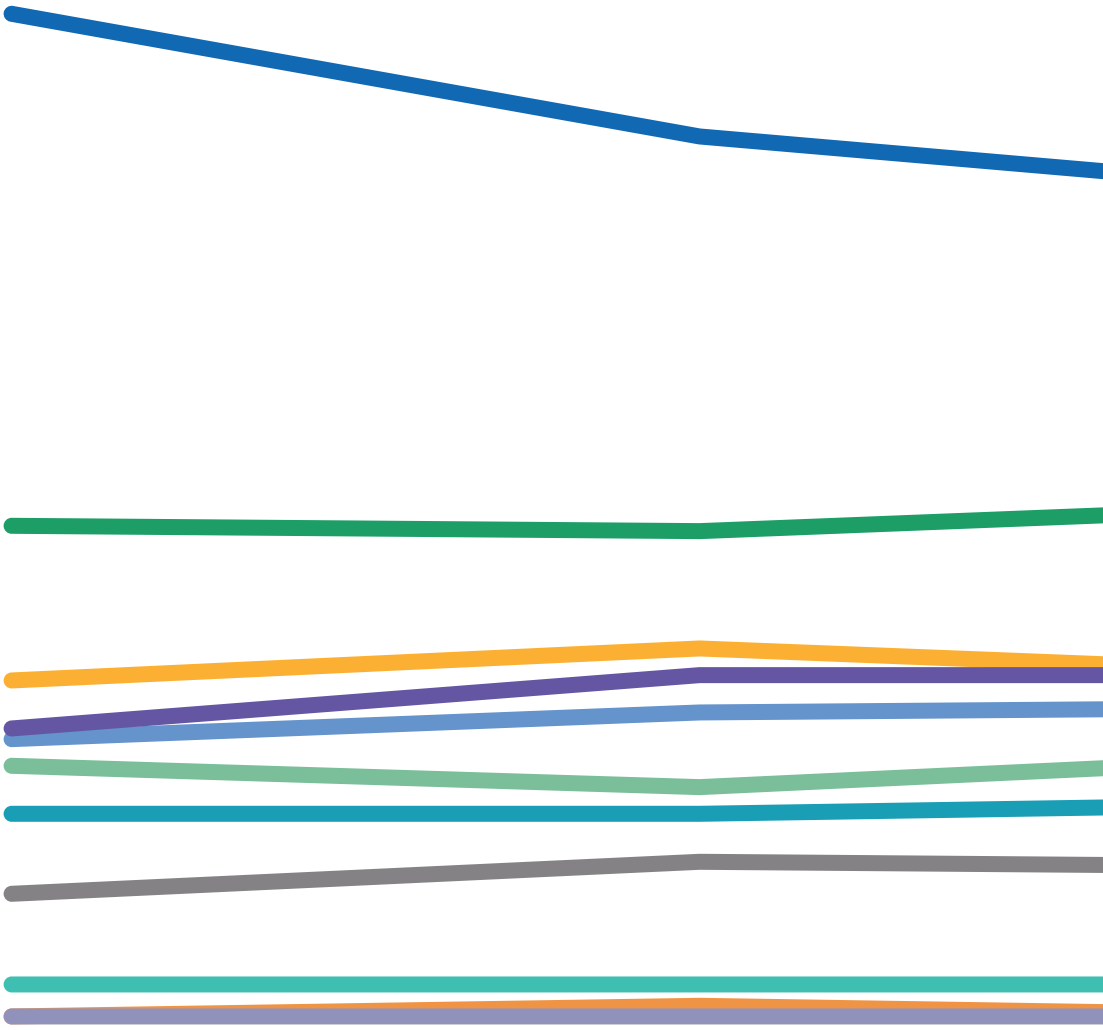
| Risks by frequency - Non-Acute Care | | |
|---------------------------------------|--|--|
| Care | Financial | Facilities |
| 1 Access | 1 Revenue/funding | 1 Plant/systems failure |
| 2 Communication/coordination | 2 Costs | 2 Aging/maintenance |
| 3 Infection control | 3 Contracts | 3 Hazardous materials |
| 4 Medication | 4 Fraud | 4 Building access |
| 5 Adverse events (AE) | 5 Reporting | 5 Property damage |
| 6 Laboratory/radiology | 6 Inefficiencies | 6 Building project/construction |
| 7 Monitoring | 7 Fines/liabilities | 7 Physical space constraints |
| 8 Experience/relations | 8 Procurement | 8 Visitor falls |
| 9 Security/assault | 9 Investments | Regulatory |
| 10 Supply shortages | 10 Supply chain | 1 Regulations/legislation |
| 11 Wrong patient/site | Leadership | 2 Accreditation |
| 12 Patient Falls | 1 Emergency response | 3 Performance agreements |
| 13 Complaints management | 2 Governance | 4 Credentialing |
| 14 Diagnostic errors | 3 Strategy alignment | External Relations |
| 15 Care/consent conflicts | 4 Information gaps | 1 Community relations |
| 16 Elopement/unauthorized absence | 5 Succession | 2 Partner relations |
| 17 Contracted services monitoring | 6 Strategic projects | 3 Media relations |
| 18 Discharge/transitions | 7 Change management | 4 Donor relations |
| 19 Death by suicide/self-harm | 8 Culture | 5 Government relations |
| 20 Support services | 9 Mergers | Regulation - Professional |
| 21 Abduction | 10 Politics | 1 Facility accreditation/ quality review |
| 22 Acuity | 11 Alignment acute/non-acute | 2 Privacy |
| 23 Multi-incident | Information Management/Technology | 3 Complaints / resolution |
| 24 Patient victimization | 1 Breach/loss of information | 4 Quality assurance of clinical/medical practice |
| 25 Pressure injuries | 2 Systems/technology failure | 5 Registration/licensure |
| 26 Restraints/entanglement/entrapment | 3 Systems/technology needs | Teaching |
| Human Resources | 4 Records management | 1 Student performance |
| 1 Recruitment/retention | 5 Systems reliability | 2 Accreditation (teaching) |
| 2 Development | 6 Systems integration | 3 Contracts (teaching) |
| 3 Physical injuries | 7 Systems project | 4 Student experience |
| 4 Shortage | 8 Technology use | Research |
| 5 Labour relations | | 1 Funding (research) |
| 6 Engagement | | 2 Adverse events (research subjects) |
| 7 Violence/disruptive | | 3 Ethics |
| 8 Scope of practice | | 4 Contracts (research) |
| 9 Psychological injuries | | 5 Intellectual property |
| 10 Rights | | Community Health |
| 11 Wrongful dismissal | | 1 Demographics |
| 12 Agency issues | | 2 Emergency medical services |
| 13 Benefits/overtime | | |

HIROC is Canada's leading provider of healthcare liability insurance. As a not-for-profit, we partner with our Subscribers to provide innovative insurance and risk management solutions that help them reduce risk, prevent losses and improve patient safety.

Acknowledgement

We are grateful for the contributions of our Subscribers and the dedicated members of the Healthcare Safety and Risk Management Committee.





HIROC'S
INTEGRATED RISK
MANAGEMENT PROGRAM | **R**

4711 Yonge Street, Suite 1600
Toronto, ON M2N 6K8
Tel: 416-733-2773
Fax: 416-733-2438
Toll-Free: 1-800-465-7357
Fax: 1-800-668-6277

1200 Rothesay Street
Winnipeg, MB R2G 1T7
Tel: 204-943-4125
Fax: 204-949-0250
Toll-Free: 1-800-442-7751

