




Understanding & Managing Clinical Risk

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Learning objective

- **By end of this lecture you will be able to**
 - Understand how you can learn from errors.
 - Identify situational and personal factors that are associated with the increased risk of error.
 - Participate in analyses of adverse event and practice strategies to reduce errors.
 - Know how to apply risk-management principles in the workplace.
 - Know how to report risks or hazards in the workplace.
- 



Introduction

- **Risk management is routine in most industries and has traditionally been associated with limiting litigation costs**
 - **Usually associated with patients taking legal action against a health professional or hospital**
 - **To avoid problems, hospitals and health organizations use a variety of methods to manage risks**
 - **hospitals are potentially dangerous places for patients as well as medical workers**
 - **it's important to keep in mind that while there are a lot of potential hazards in hospitals,**
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Clinical risk management

Hazard

Risk

**Risk
management**

Clinical risk management

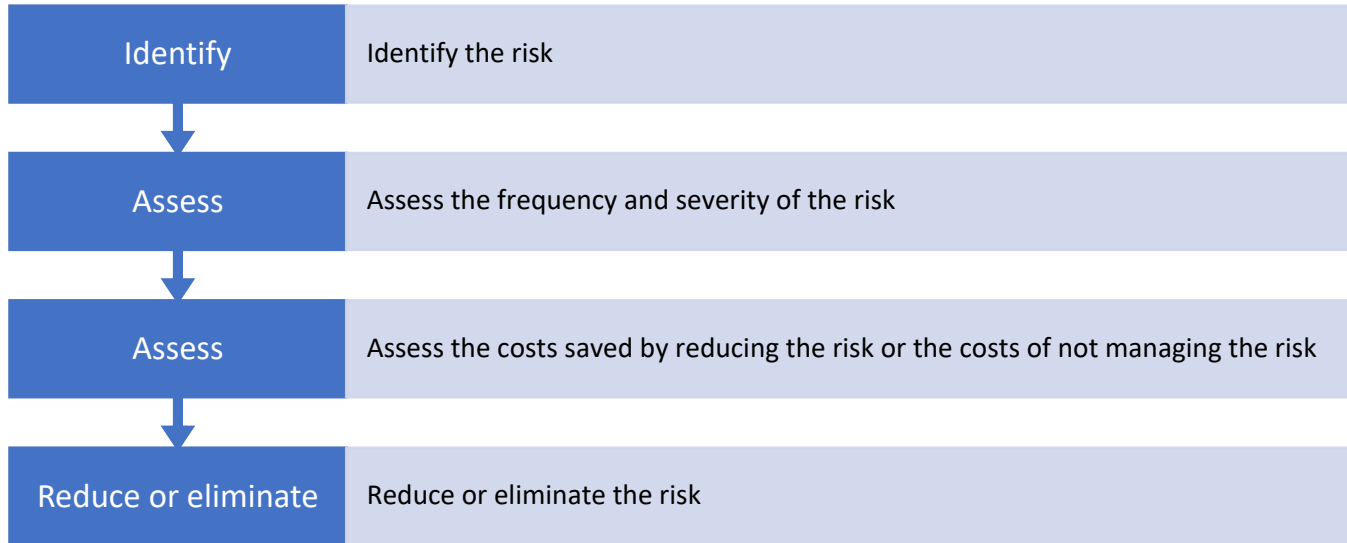
- **Hazard:** is any activity, situation or, substance that potential to cause harm, including ill health, injury, loss of product and/or damage to plant and property.
 - **Blood borne Pathogens**
 - **Hazardous Chemicals**
 - **Stress**
- **Risk:** is the probability that harm (illness or injury) will actually occur.
- **Risk Management:** Organizational effort to identify, assess, control and evaluate the risk to reduce harm to patient, visitors and staff and protect the organization from financial loss

Purpose of Risk Management

- Improve organizational and client safety
- Identify and minimize the risks and liability losses
- Protect the organization resources
- Support regulatory, accreditation compliance
- Creating and maintaining safe systems of care, designed to reduce adverse events and improve human performance

Process Used to Manage Clinical Risks

The following simple four process is commonly used to manage clinical risks:



Identify the risk

Use the following data as a sources for identification:

- Adverse event reports.
- Mortality and morbidities reports.
- Patient complaints reports.
- Assess the frequency and severity of the risk

Assess the frequency and severity of the risk

SAC (Severity Assessment Code) Score:

it is a matrix scoring system/ numerical scores are given to the severity and likelihood of risks and these scores are multiplied to get a rating for the risk

STEP 1 **Consequence Table** (For notification, consider the actual consequence or outcome using this table as a guide. The examples listed here are not exhaustive.)

		Serious	Major	Moderate	Minor	Minimum
CLINICAL CONSEQUENCE	Patient	<p>Patients with Death unrelated to the natural course of the illness and differing from the immediate expected outcome of the patient management or:</p> <ul style="list-style-type: none"> ■ Suspected suicide¹ ■ Suspected homicide² <p>or any of the following:</p> <p>The National Sentinel Events</p> <ul style="list-style-type: none"> ■ Procedures involving the wrong patient or body part ■ Suspected suicide in hospital ■ Retained instruments ■ Unintended material requiring surgical removal ■ Medication error involving the death of a patient ■ Intravascular gas embolism ■ Haemolytic blood transfusion ■ Maternal death associated with labour and delivery ■ Infant discharged to the wrong family 	<p>Patients suffering a Major permanent loss of function (sensory, motor, physiologic or psychologic) unrelated to the natural course of the illness and differing from the expected outcome of patient management or any of the following:</p> <ul style="list-style-type: none"> ■ Suffering significant disfigurement as a result of the incident ■ Patient at significant risk due to being absent against medical advice ■ Threatened or actual physical or verbal assault of patient requiring external or police intervention 	<p>Patients with Permanent reduction in bodily functioning (sensory, motor, physiologic, or psychologic) unrelated to the natural course of the illness and differing from the expected outcome of patient management or any of the following:</p> <ul style="list-style-type: none"> ■ Increased length of stay as a result of the incident ■ Surgical intervention required as a result of the incident 	<p>Patients requiring Increased level of care including:</p> <ul style="list-style-type: none"> ■ Review and evaluation ■ Additional investigations ■ Referral to another clinician 	<p>Patients with No injury or increased level of care or length of stay</p>
	Staff	<p>Death of staff member related to work incident or suicide, or hospitalisation of 3 or more staff</p>	<p>Permanent injury to staff member, hospitalisation of 2 staff, or lost time or restricted duty or illness for 2 or more staff or pending or actual WorkCover prosecution, or threatened or actual physical or verbal assault of staff requiring external or police intervention</p>	<p>Medical expenses, lost time or restricted duties or injury / illness for 1 or more staff</p>	<p>First aid treatment only with no lost time or restricted duties</p>	<p>No injury or review required</p>
	Visitors	<p>Death of visitor or hospitalisation of 3 or more visitors</p>	<p>Hospitalisation of up to 2 visitors related to the incident / injury or pending or actual WorkCover prosecution</p>	<p>Medical expenses incurred or treatment of up to 2 visitors not requiring hospitalisation</p>	<p>Evaluation and treatment with no expenses</p>	<p>No treatment required or refused treatment</p>
	Services	<p>Complete loss of service or output</p>	<p>Major loss of agency / service to users</p>	<p>Disruption to users due to agency problems</p>	<p>Reduced efficiency or disruption to agency working</p>	<p>Services: No loss of service</p>
	Financial	<p>Loss of assets replacement value due to damage, fire etc > \$1M, loss of cash/investments/assets due to fraud, overpayment or theft >\$100K or WorkCover claims > \$100K</p>	<p>Loss of assets replacement value due to damage, fire etc \$100K-\$1M, loss of cash/investments/assets due to fraud, overpayment or theft \$10K-\$100K or WorkCover claims \$50K-\$100K</p>	<p>Loss of assets replacement value due to damage, fire etc \$50K to \$100K or loss of cash/investments/assets due to fraud, overpayment or theft to \$10K</p>	<p>Loss of assets replacement value due to damage, fire etc to \$50K</p>	<p>No financial loss</p>
Environmental	<p>Toxic release off-site with detrimental effect. Fire requiring evacuation</p>	<p>Off-site release with no detrimental effects or fire that grows larger than an incipient stage</p>	<p>Off-site release contained with outside assistance or fire incipient stage or less</p>	<p>Off-site release contained without outside assistance</p>	<p>Nuisance releases</p>	

STEP 2 Likelihood Table

Probability Categories	Definition
Frequent	Is expected to occur again either immediately or within a short period of time (likely to occur most weeks or months)
Likely	Will probably occur in most circumstances (several times a year)
Possible	Possibly will recur – might occur at some time (may happen every 1 to 2 years)
Unlikely	Possibly will recur – could occur at some time in 2 to 5 years
Rare	Unlikely to recur – may occur only in exceptional circumstances (may happen every 5 to 30 years)

STEP 3 SAC Matrix

		CONSEQUENCE				
		Serious	Major	Moderate	Minor	Minimum
LIKELIHOOD	Frequent	1	1	2	3	3
	Likely	1	1	2	3	4
	Possible	1	2	2	3	4
	Unlikely	1	2	3	4	4
	Rare	2	3	3	4	4

Reduce or eliminate the risk

STEP 4 Action Required Table

Action Required

1

Extreme risk – immediate action required – Reportable Incident Brief (RIB) for all SAC 1 incidents must be forwarded to the DoH within 24 hours. A Privileged Root Cause Analysis (RCA) investigation must be undertaken for all Clinical SAC 1 incidents with a report being submitted to the DoH.

2

High risk – need to notify senior management. Detailed investigation required. Ongoing monitoring of trended aggregated incident data may also identify and prioritise issues requiring a practice improvement project.

3

Medium risk – management responsibility must be specified – Aggregate data then undertake a practice improvement project. **Exception** – all financial losses must be reported to senior management.

4

Low risk – manage by routine procedures – Aggregate data then undertake a practice improvement project.

NB – An incident that rates a SAC 2, 3 or 4 should only be reported to the DoH if there is the potential for media interest or requires direct notification under existing DoH legislative reporting requirements or NSW DoH Policy Directive.

Group Work (Case 1)

- Whilst providing routine care nursing staff were showering a patient in the shower room on the ward. The patient was seated in a chair being washed when he slid off the chair and hit his face, hip and shoulder. The doctor examined the patient at 7:55 am and x-rays were ordered. No fractures were noted. The patient returned to the ward where neurological checks were initiated according to policy and reported as normal.

Group Work (Case 2)

- A patient in the ICU developed cardiac arrhythmias but the monitor failed to trigger the alarm. The arrhythmia was observed by two nurses. As the patient was determined to be NFR, he was not resuscitated.

Group Work (Case 3)

- A patient was admitted to hospital following a massive stroke. Whilst routine pressure care was being provided, a nurse noted a tourniquet had been left on the patient's arm. The tourniquet was removed immediately; the hand was noted to be deep purple. On subsequent examination the patient's arm and hand returned to normal appearance – it was warm and dry with good capillary return.

Activities Commonly Used to Manage Clinical Risk

**Incident
monitoring**

**Sentinel
events**

**Fitness-to-
practice
requirements**

**Patient
complaint**

Activities Commonly Used to Manage Clinical Risk

- **Incident monitoring:**

- **An incident:** as an event or circumstance that could have or did lead to unintended and/or unnecessary harm to a person and/or a complaint, loss or damage.
- **Incident monitoring:** refers to mechanisms for identifying, processing, analyzing and reporting incidents with a view to preventing their reoccurrence
- The key to an effective reporting system is for staff to routinely report incidents and near misses.

Table B.6.1. Types of issues identified by incident monitoring

Type of incident	% of reports ^a
Falls	29
Injuries other than falls (e.g. burns, pressure injuries, physical assault, self-harm)	13
Medication errors (e.g. omission, overdose, underdose, wrong route, wrong medication)	12
Clinical process problems (e.g. wrong diagnosis, inappropriate treatment, poor care)	10
Equipment problems (e.g. unavailable, inappropriate, poor design, misuse, failure, malfunction)	8
Documentation problems (e.g. inadequate, incorrect, incomplete, out-of-date, unclear)	8
Hazardous environment (e.g. contamination, inadequate cleaning or sterilization)	7
Inadequate resources (e.g. staff absent, unavailable, inexperienced, poor orientation)	5
Logistical problems (e.g. problems with admission, treatment, transport, response to an emergency)	4
Administrative problems (e.g. inadequate supervision, lack of resource, poor management decisions)	2
Infusion problems (e.g. omission, wrong rate)	1
Infrastructure problems (e.g. power failure, insufficient beds)	1
Nutrition problems (e.g. fed when fasting, wrong food, food contaminated, problems when ordering)	1
Colloid or blood product problems (e.g. omission, underdose, overdose, storage problems)	1
Oxygen problems (e.g. omission, overdose, underdose, premature cessation, failure of supply)	1

^a An incident may be assigned to more than one category.

Source: Runciman B, Merry A, Walton M. *Safety and ethics in health care: a guide to getting it right*, 2007 [3].

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Activities Commonly Used to Manage Clinical Risk

- **Sentinel events:**

- Is usually unexpected and involving a patient death or serious physical or psychological injury to a patient
 - e.g. surgery on the wrong patient or body site, incompatible blood transfusion.
- Many health-care facilities have mandated the reporting of these types of events because of the significant risks associated with their repetition

Activities Commonly Used to Manage Clinical Risk

- The role of complaints in improving care
 - **A complaint** : is defined as an expression of dissatisfaction by a patient, family member with the provided health care.
 - Complaints often highlight problems that need addressing, such as poor communication or suboptimal decision making.
 - Communication problems are common causes of complaints, as are problems with treatment and diagnosis.

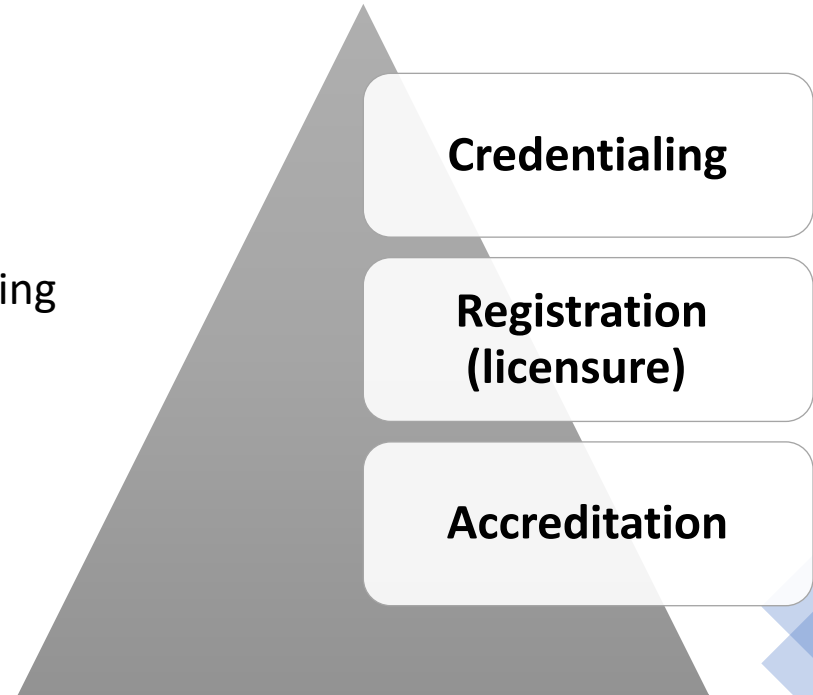
Benefits of complaints

- Assist the maintenance of high standards;
- Reduce the frequency of litigation;
- Help maintain trust in the profession;
- Encourage self-assessment;
- Protect the public.

Activities Commonly Used to Manage Clinical Risk

- **Fitness-to-practice requirements**

- Accountability
- Competency of healthcare professionals.
- Are they practicing beyond their level of experience and skill? Are they unwell, suffering from stress or illness



Credentialing

- The process of assessing and conferring approval on a person's suitability to provide specific consumer/patient care and treatment services, within defined limits, based on an individual's licence, education, training, experience, and competence.

Registration (licensure)

- Registration of health-care practitioners with a government authority, to protect the health and safety of the public through mechanisms designed to ensure that health practitioners are fit to practice.
- E.g. Saudi Commission for Health Specialties
- Proper registration/licensure is an important part of the credentialing and accreditation processes

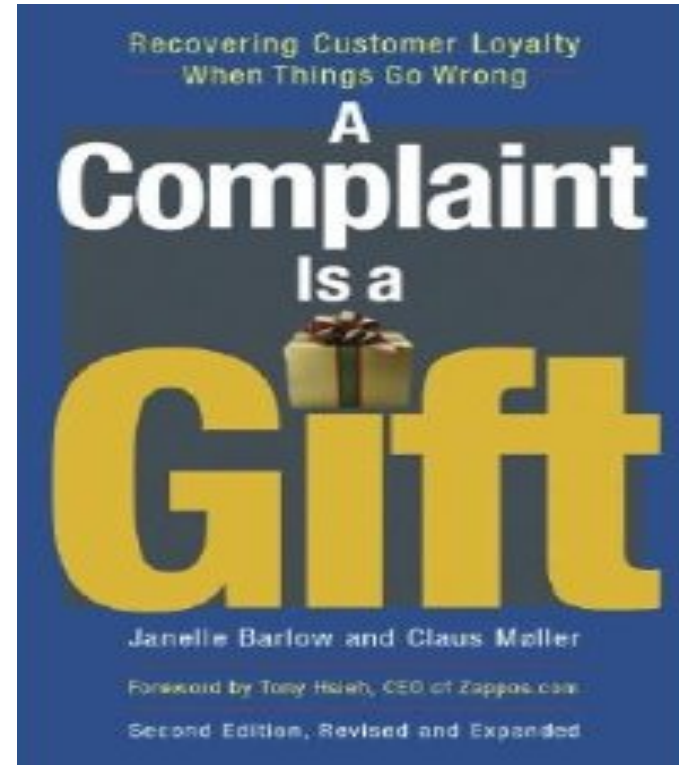
Accreditation

- Is a formal process to ensure delivery of safe, high-quality health care based on standards and processes devised and developed by health-care professionals for health-care services.
- National Accreditation Program: CBAHI
- International Accreditation Program: Joint commission (US), Accreditation Canada(Canada)

Personal Strategies for Managing Risk and Reduce Errors



Personal Strategies for Managing Risk and Reduce Errors



Summary

- Health-care professionals are responsible for the treatment, care and clinical outcomes of their patients.
- Personal accountability is important, as any person in the chain might expose a patient to risk.
- One way for professionals to help prevent adverse events is to identify areas prone to errors.
- The proactive intervention of a systems approach for minimizing the opportunities for errors can prevent adverse events.
- Individuals can also work to maintain a safe clinical working environment by looking after their own health and responding appropriately to concerns from patients and colleagues.



Thank
You!