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 <p>Queensland Government Queensland Health</p>	<p>Bundaberg Health Service District Policy & Procedure Document</p>	<p>QHEPS No. 21907</p>
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Title:	Sentinel Events and Root Cause Analysis
Manual Name & No:	No. 2 - Leadership and Management
Section:	Section 2 – Risk Management
Policy Number: <small>Manual/Section/Number</small>	2.2.S1
Applicable to: All Staff Effective Date: 01 June 2004 Last Review Date: New Policy Next Review Date: 01 June 2007 Initiator: Director of Medical Services Authorised: <u>Original signed by Peter Leck</u> District Manager	Description The identification, investigation and monitoring of sentinel events together with the health care facility's response is an important tool in developing safe, patient care and improving the safety of health care for consumers.
Ratified: <u>Original signed by Dr. Darren Keating</u> Director of Medical Services <i>Originals kept in the District Quality and Decision Support Unit</i>	Definitions Sentinel event: An incident in which serious harm resulted to a person receiving healthcare. Root Cause Analysis: Root Cause is the most basic reason for an undesirable outcome, and Root Cause Analysis is a tool that enables us to learn as much as possible about what happened, why it happened and what can be done to prevent the same thing recurring in the future.
Replaces: New Policy	
References: <ul style="list-style-type: none"> • Department of Veterans Affairs, Veterans Affairs National Centre for Patient Safety Michigan, USA, February 2002 • The Clinicians Toolkit – for Improving Health Care – NSW Health 2001 • Sentinel Event Discussion Paper – QH Dec 2002 • QH Incident Management Policy – Draft – Oct 2003 	

Policy Statement

Sentinel events are rare and serious events that signal the need for prompt multidisciplinary investigation and action. All sentinel events will be subject to a root cause analysis, conducted in an environment of support and learning to ensure that the appropriate actions are taken to prevent future recurrence.

When a sentinel event occurs in a health care facility of Bundaberg Health Service District, it is necessary that the District Manager, Director of Medical Services and the Director of Nursing Services and relevant Director are made aware of the event. The event must be investigated and the cause(s) that initiated the event understood; and changes made in the organisational systems and process to reduce the probability of such an event occurring in the future.

Outcome

- A positive impact in improving patient care.
- Focus attention of facility that experienced sentinel event on understanding the causes underlying the event, and on making changes in the care delivery systems and processes to reduce the probability of such an event in the future.
- Improve safety of health care for consumers and maintain the confidence of the public in the care provided.

Evaluation Method

- Sentinel Event Risk Register maintained by the District Quality and Decision Support Unit
- A six monthly report on trends and analysis to the Leadership & Management Committee; which is then made available to Heads of Department.
- Policies & procedures changed due to investigation of sentinel events on an annual basis.

Procedure

The following events are defined as sentinel events in the Bundaberg Health Service District (as per Australian Council for Safety and Quality in Health Care).

1. Procedures involving the wrong patient or the wrong body part
2. Retained instruments or other material after surgery requiring re-operation or further surgical procedure
3. Haemolytic blood transfusion reaction resulting from ABO incompatibility
4. Medication error leading to the death of a patient reasonably believed to be due to incorrect administration of drugs
5. Infant discharge to wrong family
6. Maternal death or serious morbidity associated with labour or delivery
7. Intravascular gas embolism resulting in death or neurological damage
8. Suicide of a patient in an in-patient unit
9. Any serious and rare event

Upon identification of one of these events, immediate notification to one of the DM, DMS or DON must occur, preferably by the senior staff member involved in the incident. A verbal report should be received within 12hrs and a written notification within 48 hrs (see attachment A).

After this notification, immediate handling of the event is required. The designated executive member will be responsible for liaison with patient, family and staff in order to facilitate ongoing care; identify possible complaints and concerns and provide explanation of the investigation process. Liaison and notification of CZMU and Corporate Office Queensland Health will be required. Legal advice may also be required. (See Open Disclosure Policy 2.2.O1 for further information)

Upon notification of the sentinel event, an investigation and root cause analysis will be conducted. This investigation will be conducted by a team, headed by one of the executives noted above or by a senior staff member so duly appointed. The investigation will focus on systems and processes, not individual performance. It should encompass special causes in clinical process to common causes in organisational

process. The analysis should identify potential improvements in process or systems in order to decrease the likelihood of such events in the future. An action plan should be developed which identifies responsibility for implementation, mechanisms for oversight, time lines and strategies for measuring the effectiveness of the actions.

The report will be passed to the Leadership & Management Committee, in order that it undertakes the actions required in the facility to ensure the risk of a repeat event is reduced.

Goals of Root Cause Analysis

Root Cause

A root cause is the most fundamental reason an event has occurred

Contributing Factor

Contributing factors are additional reasons, not necessarily the most basic reason that an event has occurred

Root Cause Analysis (RCA)

Root Cause Analysis is a process for identifying the basic or contributing causal factors that underlie variations in performance associated with adverse events or close calls. RCAs have the following characteristics:

- The review is interdisciplinary in nature with involvement of those closest to the process.
- The analysis focuses primarily on systems and processes rather than individual performance.
- The analysis digs deeper by asking *what* and *why* until all aspects of the process are reviewed and all contributing factors are identified (progressing from looking at special causes to common causes).
- The analysis identifies changes that could be made in systems and processes through either redesign or development of new processes or systems that would improve performance and reduce the risk of event or close call recurrence.

The goal of a **Root Cause Analysis** is to find out

- ***What happened?***
- ***Why did it happen?***
- ***What do you do to prevent it from happening again?***

By addressing the immediate causes at a unit or clinical level, you will reduce the likelihood that the same incident will occur again. However, by addressing the underlying causes (i.e. root causes) this will reduce the likelihood of a similar incident occurring throughout the organisation.

Root Cause Analysis is a *tool* for identifying prevention strategies. It is a process that is part of the effort to build a *culture of safety* and move beyond the culture of blame.

In **Root Cause Analysis**, basic and contributing causes are discovered in a process similar to diagnosis of disease - with the goal always in mind of preventing recurrence.

Root Cause Analysis is

1. inter-disciplinary, involving experts from the frontline services
2. involving of those who are the most familiar with the situation
3. continually digging deeper by asking why, why, why at each level of cause and effect.
4. a process that identifies changes that need to be made to systems
5. a process that is as impartial as possible

To be thorough, a Root Cause Analysis must include:

1. determination of human & other factors,
2. determination of related processes and systems,
3. analysis of underlying cause and effect systems through a series of **why** questions,
4. identification of risks & their potential contributions, and
5. determination of potential improvement in processes or systems.

To be credible a Root Cause Analysis must:

1. include participation by the leadership of the organisation & those most closely involved in the processes & systems,
2. be internally consistent, and
3. include consideration of relevant literature.

Documentation

Sentinel Event Report Form (Appendix A)

Root Cause Analysis Report (Appendix B)

Appendix B

TRIGGERING QUESTIONS

(Adapted from the VA National Centre for Patient Safety Triage Questions)

Human Factors – Communication In this section address all questions	Yes	No
Was the patient correctly identified?	<input type="checkbox"/>	<input type="checkbox"/>
Was information from various patient assessments shared and used by members of the treatment team on a timely basis?	<input type="checkbox"/>	<input type="checkbox"/>
<i>If "No" – This could be a Root Cause/Contributing Factor</i>		
Did existing documentation provide a clear picture of the work-up, the treatment plan and the patient's response to treatment?	<input type="checkbox"/>	<input type="checkbox"/>
Assessments & Consultations	<input type="checkbox"/>	<input type="checkbox"/>
Orders & Treatment team notes	<input type="checkbox"/>	<input type="checkbox"/>
Progress notes	<input type="checkbox"/>	<input type="checkbox"/>
Medication administration record	<input type="checkbox"/>	<input type="checkbox"/>
X-ray & Pathology reports	<input type="checkbox"/>	<input type="checkbox"/>
<i>If "No" – This could be a Root Cause/Contributing Factor</i>		
Was communication between management/supervisors and front line staff adequate? Was it:	<input type="checkbox"/>	<input type="checkbox"/>
Accurate & Complete	<input type="checkbox"/>	<input type="checkbox"/>
Using standard vocabulary and no jargon & Unambiguous	<input type="checkbox"/>	<input type="checkbox"/>
<i>If "No" -- Describe how management/supervisors and front line communications are not adequate.</i>		
Was communication between front line team members adequate?	<input type="checkbox"/>	<input type="checkbox"/>
<i>If "No" -- Describe how communications between team members were not adequate</i>		
Were policies and procedures communicated adequately?	<input type="checkbox"/>	<input type="checkbox"/>
<i>If "No" -- Describe how policies and procedures were not communicated adequately.</i>		
<i>If this is an issue, see the questions.</i>		
Was the correct technical information adequately communicated 24 hours a day to the people who needed it?	<input type="checkbox"/>	<input type="checkbox"/>
<i>If "No" -- Describe how communication about technical information is not adequate.</i>		
Were there methods for monitoring adequacy of staff communication? Were there methods for:	<input type="checkbox"/>	<input type="checkbox"/>
Confirmation messages, Debriefs etc	<input type="checkbox"/>	<input type="checkbox"/>
<i>If "No" -- This could be a Root Cause/Contributing Factor.</i>		
Was the communication of potential risk factors free from obstacles?	<input type="checkbox"/>	<input type="checkbox"/>
<i>If "No" -- This could be a Root Cause/Contributing Factor.</i>		
Was there manufacturer's recall/alert/bulletin on file for equipment, medication, or transfusion related elements at the time of the event or close call?	<input type="checkbox"/>	<input type="checkbox"/>

