## South Africa







Establishing a National Patient Safety Incident Reporting and Learning System for public health facilities in South Africa

Presenter: Ronel Steinhöbel National Department of Health Directorate: Quality Assurance

For the Ministry of Health Maldives



### **Contents**



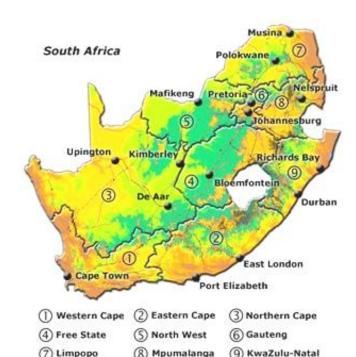
- Country background
- Definitions and Objectives
- Why develop a patient safety incident (PSI) reporting and learning system?
- Purpose of the PSI reporting and learning system
- How was the PSI reporting and learning system developed?
- What is reported
- Implementation of the PSI reporting and learning system
- Findings
- Way forward



### **National and geo-economics**



- Located at the southern tip of Africa
- National Health Act, No. 61 of 2003
- Ministry of Health sets policies, monitor implementation. Approval obtained through National Health Council
- 9 provinces (responsible for providing healthcare services, autonomous), sub divided into 52 Districts
- Population of 56 million 80% of population use public health services
- Total expenditure on Health as a % of Gross Domestic Product (GDP) = 8.8%
- 3 426 Primary Health Care facilities
- 422 hospitals
- 93% of population has access to a health facility within 5km (45 min walk) radius



### **Definition and Objectives**

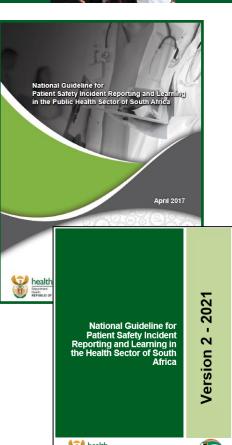


#### **Definition of a Patient Safety Incident (PSI)\*:**

PSI is an unplanned or unintended event or circumstance that could have resulted or did result in harm to a patient while in the care of a health facility. This event is thus not due to the underlying health condition or natural progression of disease. An incident can be a near miss, no harm incident or harmful incident (adverse event).

#### **Objectives:**

- To set up a national standardised patient safety incident reporting and learning system to give direction to the public health sector of South Africa regarding the management of PSIs.
- Data on the reporting of PSIs will be used to develop national action plan/framework to improve patient safety to ensure that all South Africans receive safe healthcare.



# Why develop a reporting and learning system?



#### First Guideline developed in 2017:

- No national uniform system to report patient safety incidents
  - number and type of PSIs not known improvement strategies?
- World Health Organization's (WHO) call that all countries should have a national system for PSI reporting and learning.
- Increasing cost of litigation cases in health sector Medico-Legal Summit hosted by the Minister of Health in March 2015. Recommended that a uniform National Reporting System be developed.
- Audits results from Office of Health Standards Compliance (Regulatory body): 35% compliance for management of PSIs.

#### Version two approved in 2021. Revision was prompted by two documents:

- 2020/21 Annual PSI report that included an analysis of the data reported on the National PSI RLS over a two-year period (2018/19 and 2019/20).
- WHO's Global Patient Safety Action Plan 2021-2030 contains core and advanced indicators that countries must report on.

# Purpose of the PSI reporting and learning



- Create a framework to guide the implementation of a PSI reporting system in the public health sector.
- Standardise the definitions, classification system, methodology for reporting, investigating and responses to PSIs.
- Ensure that statistical data on PSIs are readily available through the web-based information system for planning, decision making, prevent reoccurrence of PSIs (learning) to ensure that patient safety, quality of care and health outcomes of patients are improved Inform the development of national and provincial action plan/framework to improve patient safety.
- Ensure appropriate communication with patients who have been harmed due to a PSI, including an apology if indicated.

# How was the reporting and learning system developed?



End of 2015: Situational analysis conducted in 9 provinces

Jan 2016: First draft developed – request inputs from provinces

May 2016: Inputs reviewed - Finalised the National Guidelines for PSI Reporting and Learning for public health facilities

Jun to Sept 2016: Presented at various national committees for approval e.g. Managerial, District Health, Hospital, National Health Information System

Oct 2016: 1st presentation to Technical advisory Committee of the National Health Council – sent back to revise

March 2017: Approved by National Health Council

### What is reported



- Harmful incidents, no harm incidents and near misses
- Uniform Classification system according to WHO's Minimum Information

Model (MIM) for PSI reporting

Classification according to:

- ✓ Incident identification (patient (age& sex), time, location)
- ✓ Contributing factor\*
- ✓ Incident type\*
- ✓ Incident outcomes (patient & organization)\*
- ✓ Resulting actions
- ✓ Reporter
- Free text (Summary of PSI & Findings/ recommendations)

WHO provided technical assistance with development of the first guideline
 Better Health

Programme – Mott MacDonald (UK) assisted with the revision

<sup>\*</sup> WHO Conceptual framework for the international classification for patient safety

### What is reported (cont.)



Severity Assessment Code (SAC):

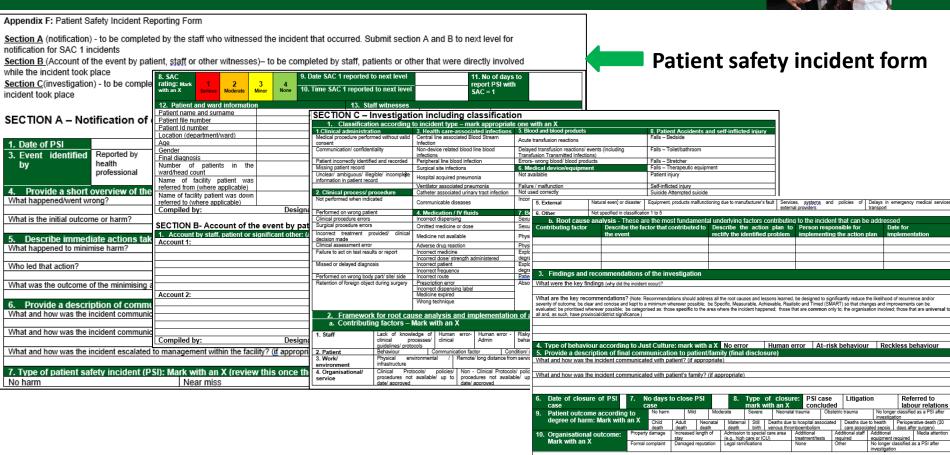


- Three indicators:
  - ✓ PSI closure rate
  - ✓ SAC 1 reported within 24-hour rate
  - ✓ PSI closure rate within 60 working days

### How is recording done



Date



Compiled by:

Designation:

# Implementation of the reporting and learning system

Designate a provincial PSI champion in each province

Nov and Dec 2017: Provincial workshops conducted to train staff

Implementation through national, provincial, district and facility Patient Safety

Committees

Implementation commenced on 1 April 2018 (beginning of financial year)



## Implementation through Patient Safety Committees Terms of Reference (TOR) for Provincial PS Committee



- Develop a provincial protocol/guideline.
- Monitor that facility/District office's standard operating procedure (SOP) are aligned.
- Assist health facilities/district offices to mitigate immediate risks.
- Monitor time frame for reporting of Severity Assessment Code (SAC) 1 incidents.
- Review PSI reports for all SAC 1 incidents, investigate further were indicated
- Monitor SAC 1 incident finalised within 60 days.
- Monitor that recommendations are implemented, prevent reoccurrence
- Conduct quarterly meetings (attended by hospital and district representatives)
- Analyse (including data quality e.g., is it a PSI, classification done correctly?) and compile reports.
- Submit quarterly statistical reports to the national department (where a national webbased reporting system is not in place)
- Disseminate lessons learned from PSI management/ issue alerts
- Foster a Just Safety culture
- Implement provincial system-wide initiatives to prevent reoccurrence
- Provide continuous training of staff/ identify training needs

## Implementation through Patient Safety Committees TOR for Hospital, Community Health Centres, District/Sub-district



- Develop SOP for PSI Reporting and Learning System (aligned with Provincial protocol/guideline).
- Designate staff members to manage PSIs in every unit/ward.
- Monitor adherence to SOP.
- Conduct monthly meetings (can form part of other existing Quality Assurance/Improvement forums).
- Report all SAC 1 incidents within 24 hours to the next level.
- Investigate SAC 1 incidents further were indicated (District offices.)
- Monitor that SAC 1 incidents reports are finalised within 60 working days.
- Monitor implementation of recommendations prevent reoccurrence.
- Analyse (including data quality e.g. is it a PSI, classification done correctly?) and compile monthly/quarterly/annual reports
- Submit monthly statistical reports to next level (where a national web-based reporting system is not in place)
- Disseminate lessons learned
- Create a Just Safety Culture
- Attend Provincial Patient Safety Committee meetings
- Identify training needs/Coordinate continuous training of staff/

# Why and how were the revision done in 2021?



#### Why

- Annual report indicated that analysis of classification does not provide meaning full aggregated data. Partly because additional subclassifications were required, and staff did not correctly classify incidents. Category for 'Other' for type of PSI constituted 25%.
- Add additional classification to report on WHO indictors in Global Patient Safety Action Plan

#### How

- Detailed analyses conducted on data that was collected since implementation of the PSI RLS (2 years) – guided revision of classifications.
- Supported by Better Health Programme South Africa Mott MacDonald (UK offices).

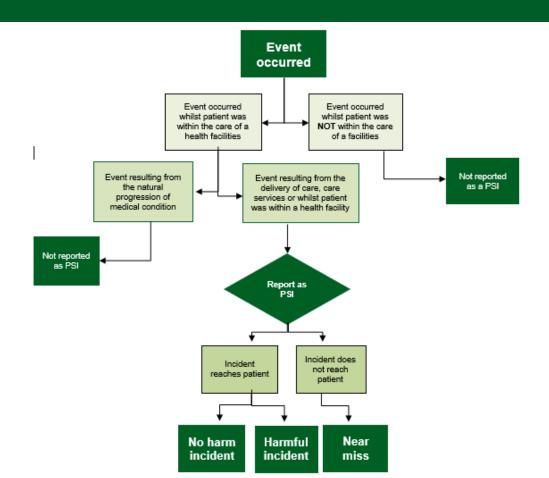
#### What was revised?



- Classifications revised for:
  - √ type of PSI,
  - ✓ contributing factors,
  - ✓ Outcome (patient and organization) and
  - √ severity assessment code (SAC) added SAC 4 (no harm)
- PSI definition. The definition was reviewed to ensure that everyone has the same understanding of what a PSI is. A decision tree to guide staff to correctly to identify a PSI was added.
- The PSI reporting form:
  - ✓ rearranged to allow for a logic flow for collection of information.
  - ✓ classifications were updated according to the revised classification
  - ✓ prompts were added into some fields to guide staff on the content to be completed for those fields.
- Added an algorithm to guide a just assessments of individual acts of staff based on the Just Culture.

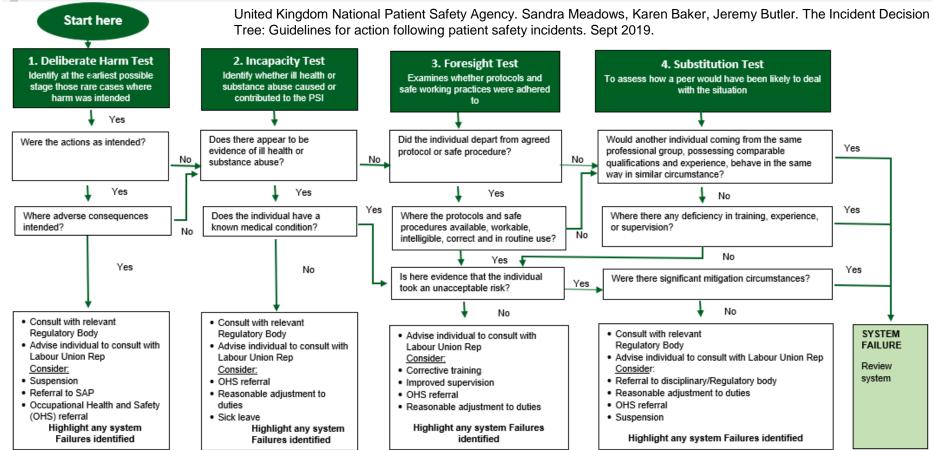
### PSI decision tree





# Algorithm to guide a just assessments of individual acts of staff based on the Just Culture.



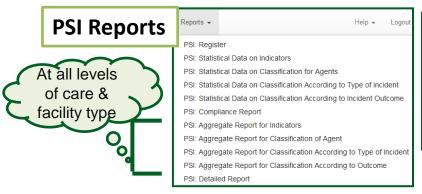


# Web-based information system for reporting PSIs

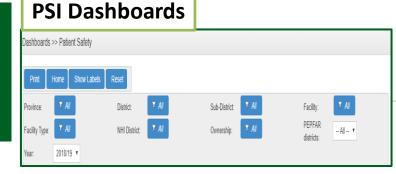








13 000 users.
Provinces
manage their
own user
accounts



# Results at end of 2020/21financial year: Compliance rate per province

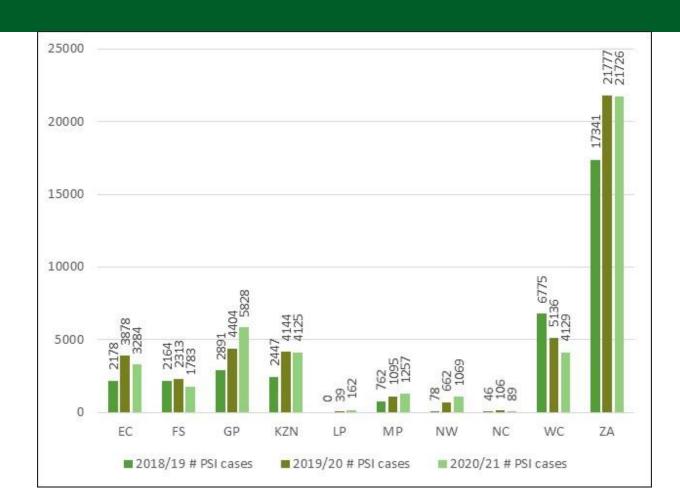




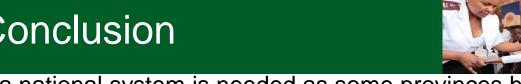
Compliance rate provides data on the percentage of facilities that have reported PSI on the webbased information system and is used as a proxy for progress made with implementation of the National Guidelines for PSIs. A health facility is viewed as compliant if they have captured a PSI or a Null Report for the specific month on the web-based information system.

### Number of PSI recorded





### Conclusion



- Convincing provinces that a national system is needed as some provinces had a well-established reporting system.
- Culture of reporting patient safety incidents (Just Culture).
- Majority (93%) of PSIs reported were reported by health professionals other methods for detecting PSIs not used. Literature shows that only 7-15% of PSIs are reported by health professionals.
- Data quality incorrect classification done, and incidents reported that involved standard care. Incident description is poor as well as findings/recommendations.
- Facilities to report on web-based information system + 51% compliance rate
- Compliance exercise vs using data to improve quality of service? capacity of facilities/district/provinces to analyse, monitor and learn from PSI information.

### Way forward



- Continued low compliance rate
  - ✓ Presented to the Technical Committee of the National Health Council in October 2019 – Director General: Health requested that provincial heads of health must strive towards better use of the.
  - ✓ Annual report shared with Provincial Heads of Departments
- Developed an automated notification system for SAC 1 PSIs rolled out to other provinces
- Integration of other existing patient safety reporting systems –
   Pharmacovigilance and maternal, neonatal, child deaths.
- Strengthen facility/district/provincial capacity to analyse PSI data and use data to improve safety.
- Continued training and guidance
- Develop a national patient safety plan/framework using data collected.

### **END**





### Thank you

# National Department of Health of South Africa

www.health.gov.za

Ronel.Steinhobel@health.gov.za

