

Root Cause Analysis on patient identification errors in Wockhardt Hospital Nagpur

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About the organisation : Wockhardt, Nagpur

A super speciality hospital

118 bedded

Located in Nagpur

VISION : "Wockhardt Hospitals will strive with excellence to fulfill the needs of the community in its chosen field of medical treatment"

MISSION : "To serve and enrich the quality of life of patients suffering from diseases, through the efficient deployment of technology and human expertise, in a caring and nurturing environment with the greatest respect for human dignity and life."

**A Failure Mode Effect
Analysis on patient
identification errors
Wockhardt Hospital
Nagpur**

Introduction

- **Root cause analysis (RCA)** is a method of problem solving that tries to identify the root causes of faults or problems.
- Through RCA practice we solve problems by attempting to identify and correct the root causes of events, as opposed to simply addressing their symptoms.
- A tool in the systems approach to prevention of adverse events.
- A process for identifying basic or contributing causes.
- A process for identifying what can be done to prevent recurrence.
- A process for measuring and tracking outcomes.

Aim Of the study:

To identify the failure modes in Patient identification process.

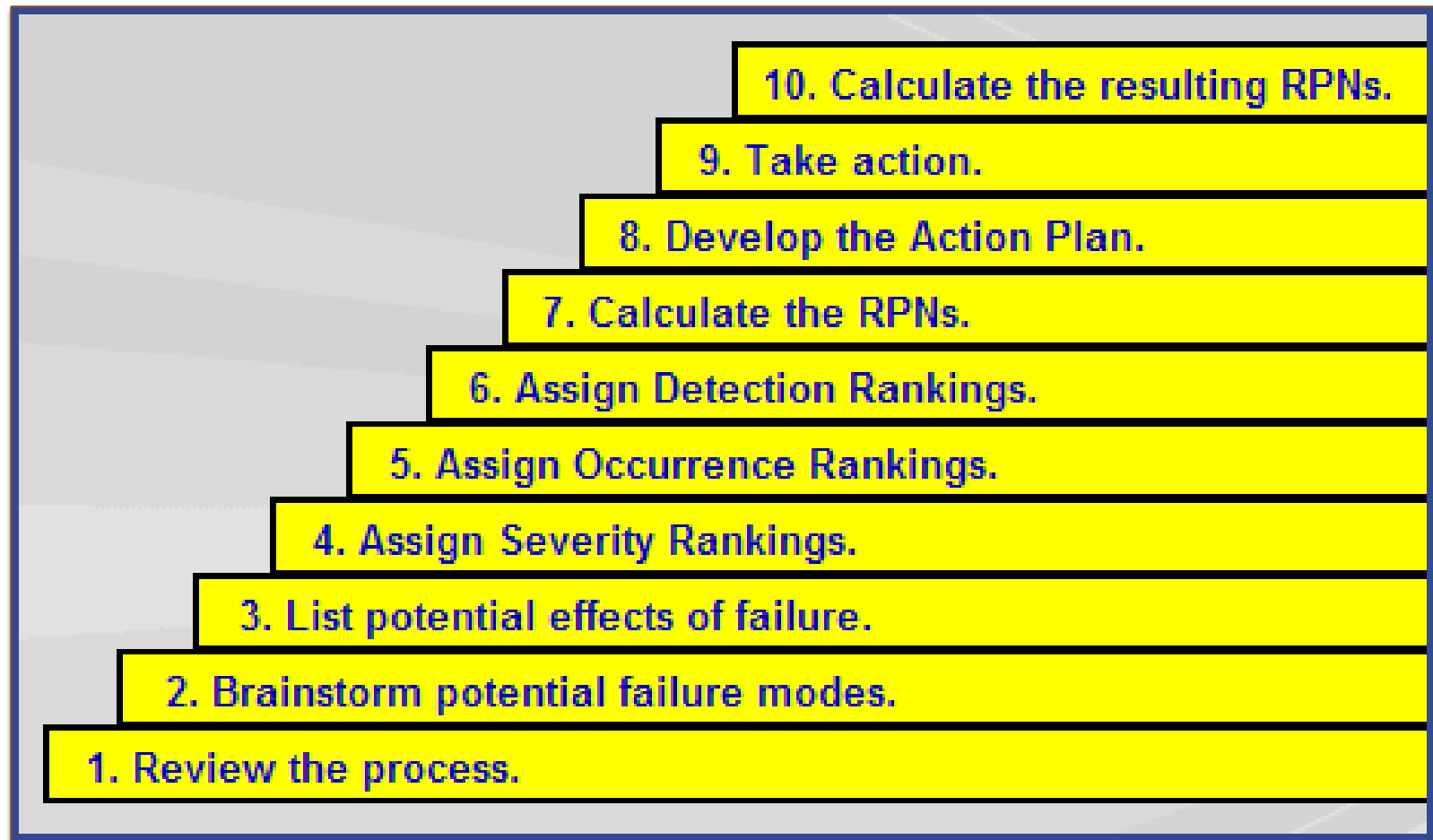
Research Questions:

- What causes error in the patient identification ?
- What improvements need to be done in the process to reduce the errors?

Objectives :

- To analyze the existing filters for patient identification process in the wards, radiology department and the customer care department.
- Department wise process analysis to identify the point of error.
- To identify errors in each of the processes.
- To provide possible solutions to overcome patient identification errors.
- To analyze the patient identification process of the hospital and find out the challenges at each step of the process .
- To suggest strategies to reduce errors in the process, if required.

STEPS



Methodology

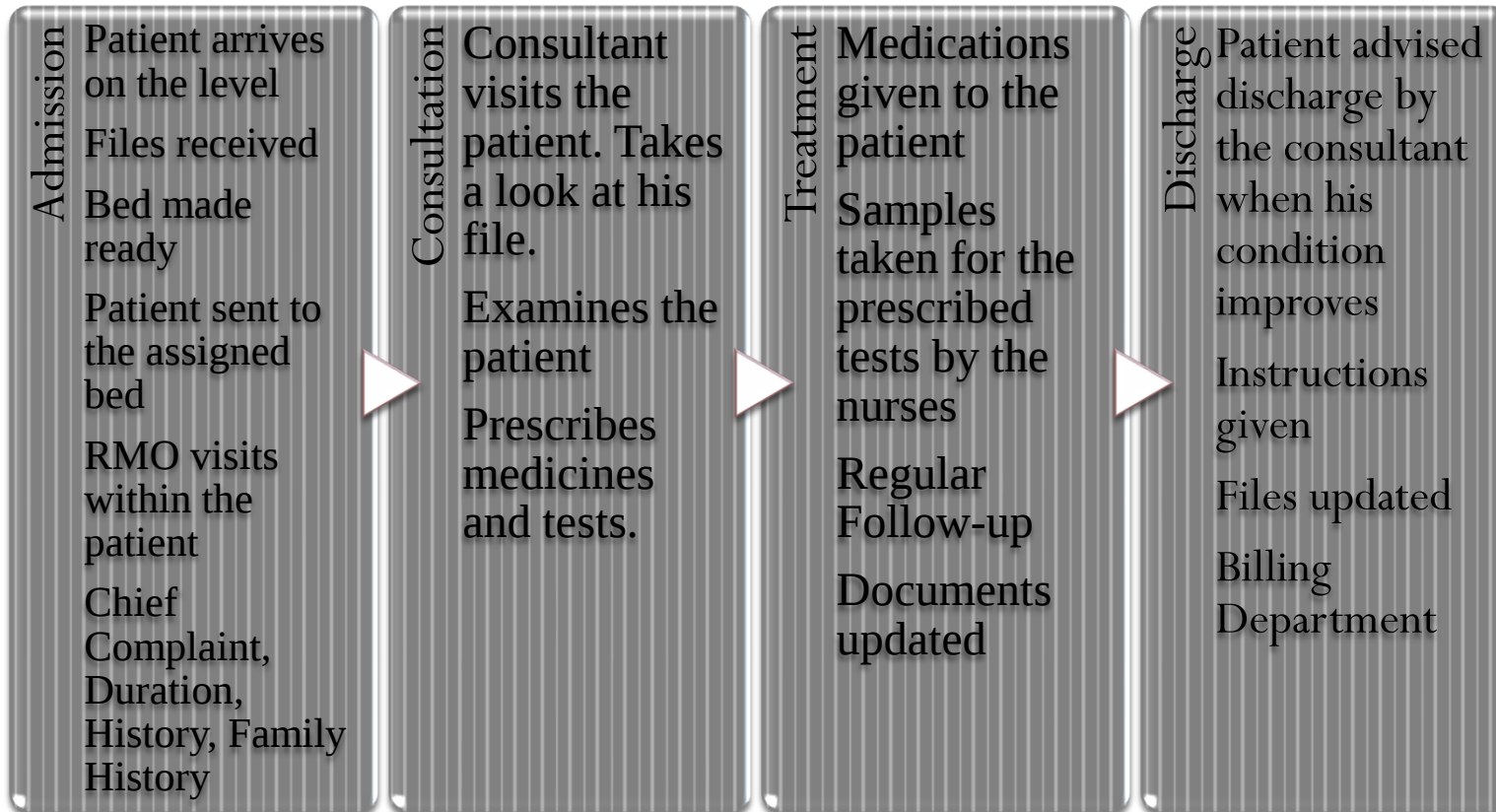
- Departmental process review for the following departments :
 1. Radiology
 2. Customer care
 3. Wards
- Reviewed the current patient identification process.
- Process mapping of 150 patients.
- Observation and taking notes.
- Datasheet for recording data.
- Informal Interviews.
- Potential errors analyzed after the departmental process review and physical observation.
- Nurse, customer care staff, duty doctors and staff of the radiology department.

Format used for FMEA analysis:

Failure Mode: First Evaluate failure mode before determining potential causes	Potential Causes	Scoring			Decision Tree Analysis			
		Severity	Occurence	Detectability	RPN score	Existing Control Measure		

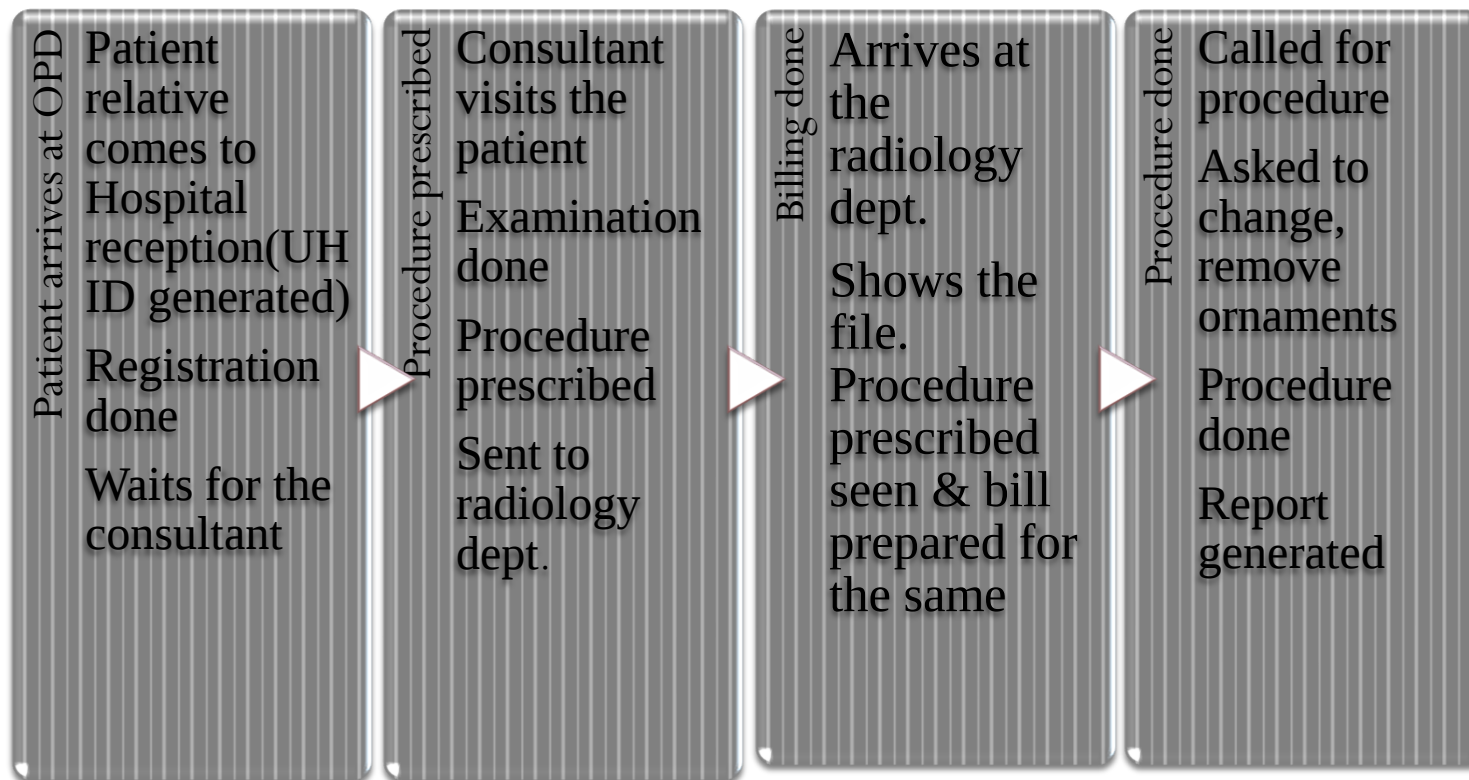
Process and sub process

- **Wards**



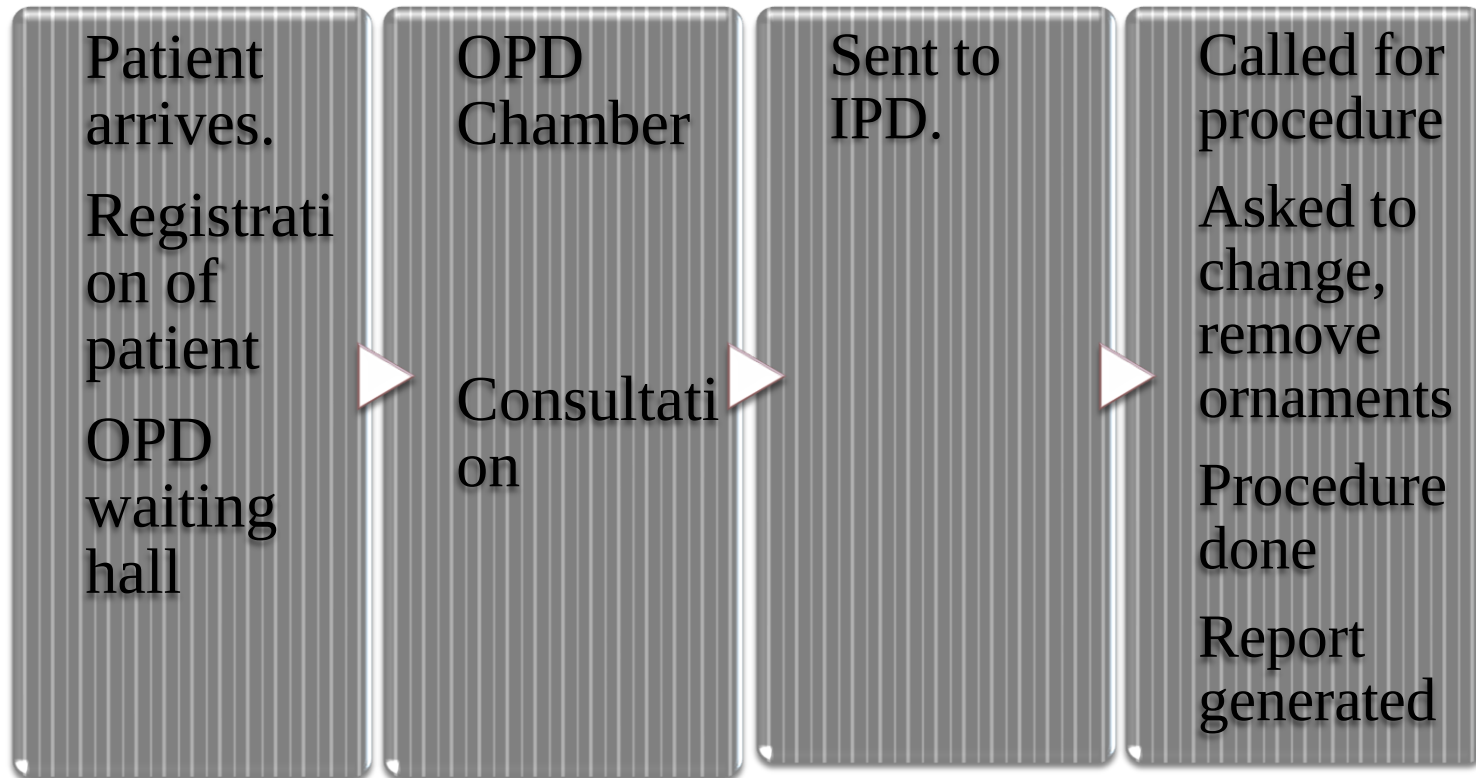
Process and sub processes cont

- ***Radiology***



Process and sub processes cont

- ***Customer care***



Steps taken for root cause analysis

- Observation of the departmental processes.
- Identification of the issue and its root cause.
- Calculation of the RPN score with the help of FMEA.
- Identification of the main grey areas on the basis of RPN score.
- Formulation of their potential solutions.

Results:

- The failure modes with max. RPN scores are as follows:

Failure mode : Bed number used for patient identification

<u>Potential cause</u>	<u>Severity</u>	<u>Occurrence</u>	<u>Detectability</u>	<u>Total Score</u>
Bed number is easy to remember	5	5	4	100

- Addressing patient with the bed number might create confusion and identification error.

Failure mode : Bed number used for patient identification

• <u>Potential cause</u>	• <u>Severity</u>	• <u>Occurrence</u>	• <u>Detectability</u>	• <u>Total Score</u>
UHID difficult to remember	4	5	4	80

- Since the UHID is too long ,people find it difficult to remember. So nursing staff uses bed number to identify patients.

Failure mode : X-ray exchanged

Potential cause	severity	occurrence	Detectability	Total score
Housekeeping involved in dispatch and receipt of x ray film	5	5	3	75

Failure mode : Bed number used for patient identification

Potential cause	severity	occurrence	Detectability	Total score
IPID too long and difficult to remember	4	4	4	64

Failure mode: Wrong medication

Potential cause	severity	occurrence	Detectability	Total score
Medication given keeping bed no. In mind	5	4	3	60

Failure mode : Wrong x –ray film.

Potential cause	severity	occurrence	Detectability	Total score
X-ray misplaced	4	4	3	48

Other Failure modes Which had high RPN scores:

- These are:

Failure mode	severity	occurrence	Detectability	Total score
Nursing staff preoccupied	5	3	3	45
Patient's details not checked on the x-ray by the consultant	5	3	3	45
Files exchanged due to carelessness	5	3	3	45
X-ray put in wrong envelope	5	3	3	45

Recommendations/Suggestions

- It should be made compulsory to identify the patient with their names along with the bed number.
- One patient must be handled at a time.
- Educating the nursing staff in order to bring awareness about the errors .
- Regular checking of the ID band must be done.
- X-ray must be cross checked before putting inside the envelope.
- ICUs investigation records should be kept near the patient's bed rather than keeping them at nursing station.

- Incidents reporting should be done as and when they happen.
- Housekeeping staff should not be involved in the dispatch of x-ray films.
- Under reporting of the incidents should be cross checked.
- Staff should be motivated for the proper reporting of the incidents.

LOGOS

Figure. Patient Identification Slogan



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Thank You