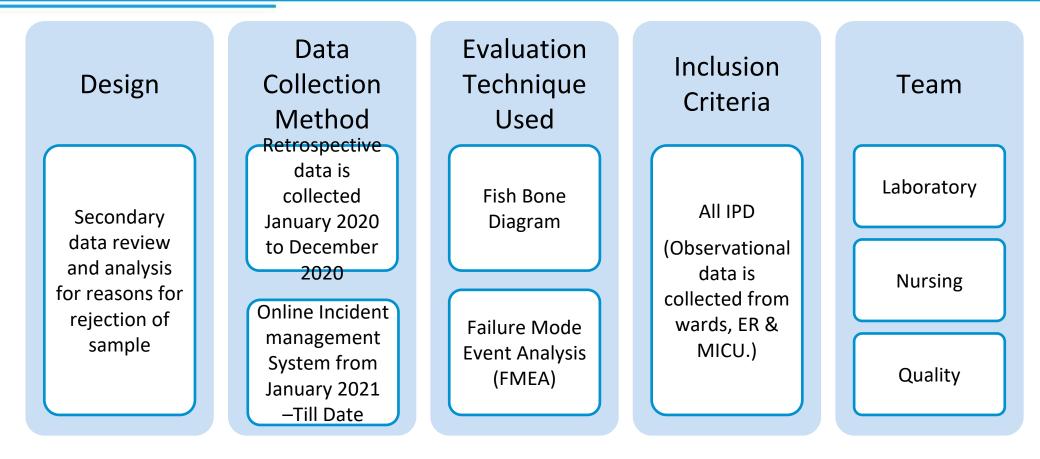
## A STUDY ON IDENTIFYING THE PRE-ANALYTICAL PHASE ERRORS LEADING TO SAMPLE REJECTION IN LABORATORY BY USING FMEA

NH Narayana Health

**Presenter:** Rita Pugalia **Designation:** Senior Manager Quality **Organisation:** Narayana Multispecilaity Hospital, Jaipur

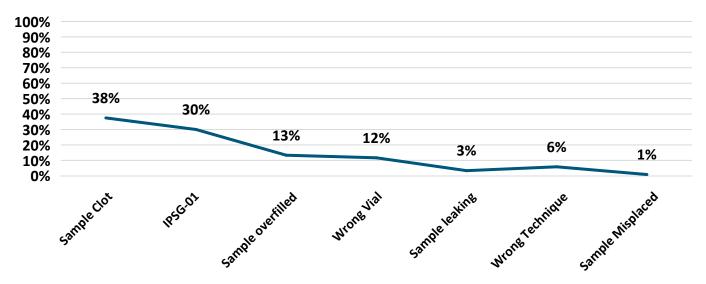
# Marayana Health

## METHODOLOGY



We aimed to evaluate the sample rejection ratios according to the types of prepreanalytical errors in collection areas. It was followed by analyzing the casual factors and performing a risk assessment

#### **REJECTIONS TREND (JANUARY 2020 TO DECEMBER 2020)**



**Rejection Rate (%)** 

NH Narayana Health

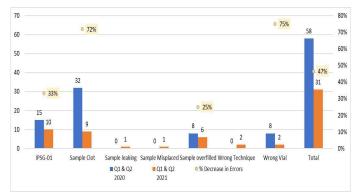
Rejection Criteria	Number of Samples Rejected	Rejection Rate (%)	
Sample Clot	45	38%	
IPSG-01	36	30%	
Sample overfilled	16	13%	
Wrong Vial	14	12%	
Sample leaking	4	3%	
Wrong Technique	7	6%	
Sample Misplaced	1	1%	
Total	123		

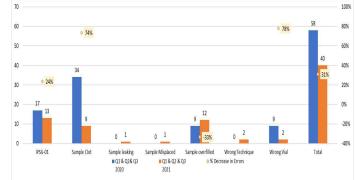


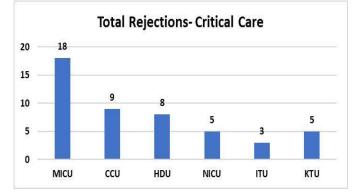
# **NH**Narayana Health **TRENDS & ACTIONS (Phase 1)**

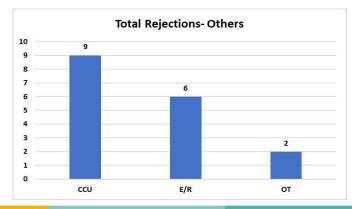
QUARTER-1 & 2 YEAR 2020 & 2021

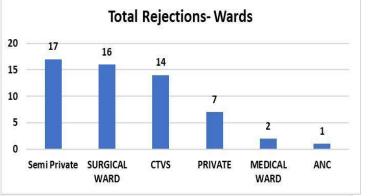
QUARTER-1, 2 & 3 YEAR 2020 & YEAR 2021

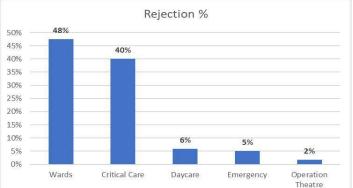




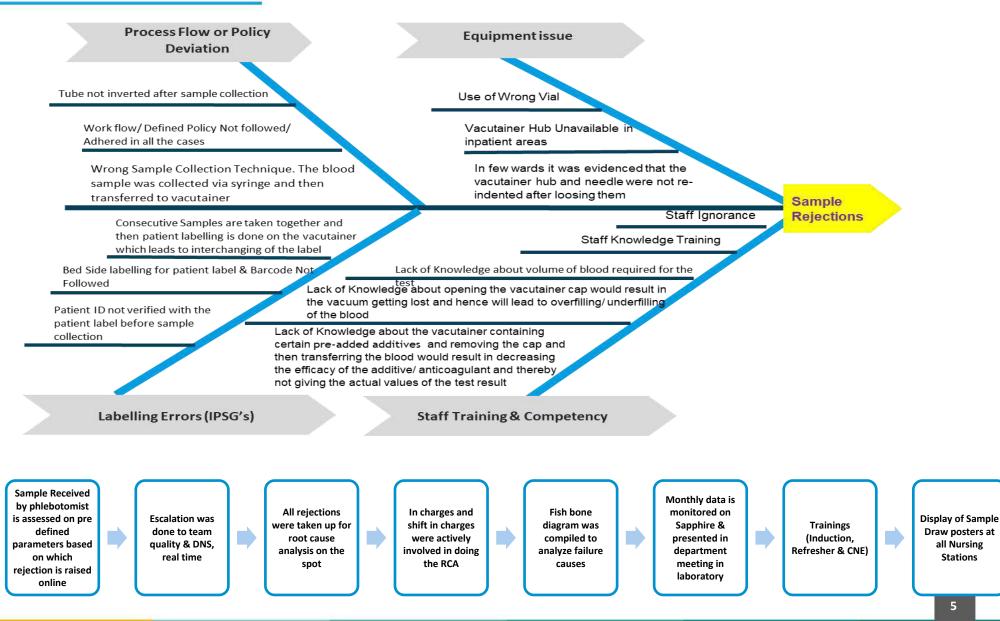






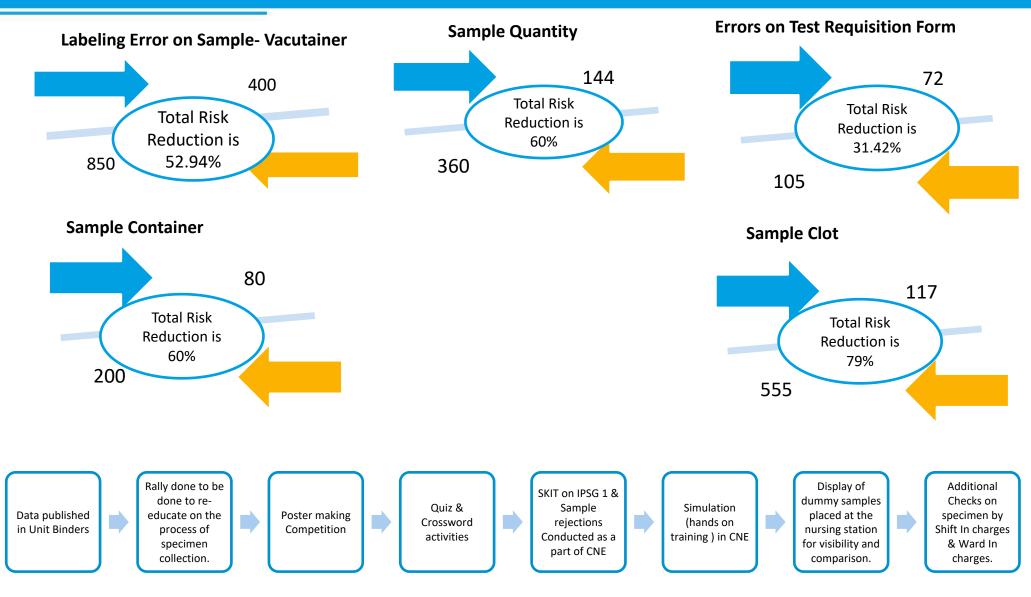


#### **CAUSAL FACTORS & ACTIONS** NHNarayana Health

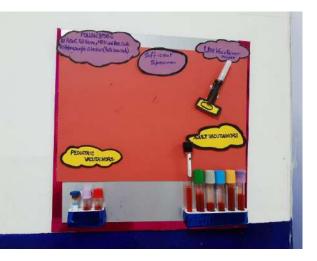


Narayana Health

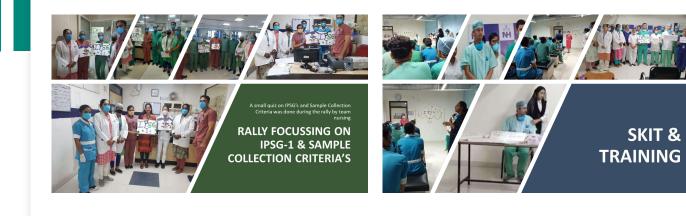
## FMEA- PRE ANALYTICAL ERRORS- PARAMETER WISE RISK REDUCTION & Actions (Phase 2)



	P		SG - 1 KSHO	OP	Ň
Day	Date	Time	Event		Moderator
Monday	13.09.2021	12 Noon	Workshop Inauguration		Dr. Mala Airun / Col. Retd. Kanta Ran
		12.30 PM - 1.30 PM	Patient identification & issues		Rita / Shabina
		1.30 PM - 2 PM	Incident Management		Punita
		2 PM - 2.30 PM	Interactive Games		Asharph Khan
Wednesday	15.09.2021	12 PM - 2 PM	Role Play		Lyni / Shabina
Role Play Topics	Removal of dressings / Nasal Packs / Procedure			Becon	nition of Poster
	Sample collection			22.9.2021	
	Administration of High-Risk medication				•
	Process of receiving for diagnostic procedure				
Poster Topic	To be submitted by Wednesday, 20.09.2021				



## ACTIVITIES GLIMPSES



7

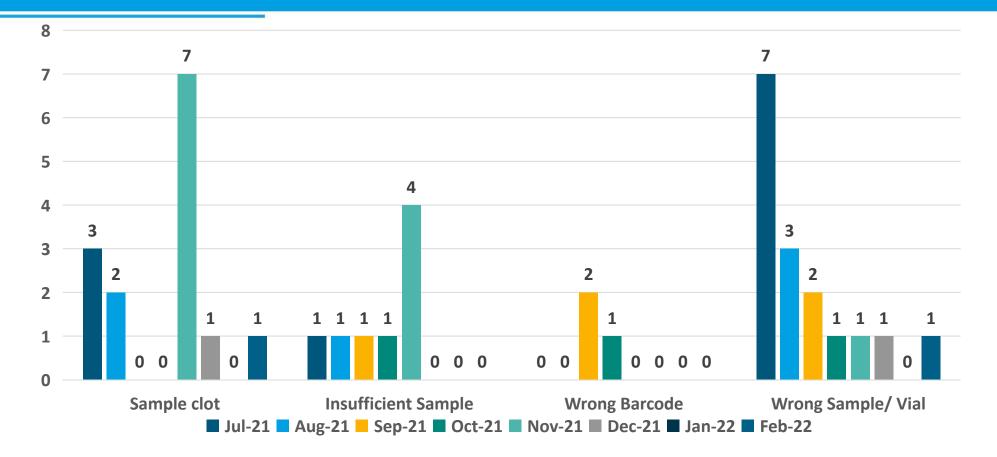
Month	Sample Rejection	Total Test	% Sample Rejections
July-21	11	87842	0.01%
August-21	6	82475	0.01%
September-21	5	99170	0.01%
October-21	3	102893	0.00%
November-21	12	81299	0.01%
December-21	2	79131	0.00%
January- 22	3	68374	0.00%
February-22	2	78191	0.00%

### STRENGTHENING & ADHERANCE

- The shift in charges have now been made accountable for all sample rejections happening in the shift.
- In CNE program one session is taken by the pathologist for new inductees.
- All staff making errors are assessed for training need and are sent to the phlebotomy section for half day training: monitored by Clinical instructor & DNS
- Direct interaction between the in charge, staff, clinical instructor and lab staff done to know the Root cause and a better acceptance amongst both parties

# CHASE ZERO

# Narayana Health TREND CURRENT- JUL-21' TO FEB-22



It was observed that the trend on sample rejections showed a spike in the month of November 21. The following were the reasons

A new group of nursing staff had been hired. Most of the sample rejections happened in the off-working hours/ holiday and when the in charges were not around

