



# Project Nigraani - Use of Barcoded Stickers for traceability of Reuse devices Max Super Speciality Hospital, Vaishali



## About the Organization

- Private Hospital. Registered Bed- 436, Census Beds- 387
- Max Super Speciality Hospital, Vaishali, Ghaziabad. Uttar Pradesh. Quaternary Care Hospital
- Accredited by NABH, NABH Blood Bank, NABL
- Contact details to know more – Dr Shweta Gupta, Senior Manager Medical Quality, 9717379196

## Problem Statement / Digital Challenge

- Key operational or clinical challenge: Entire process of Reuse of Single Use Device with various touch point is complex and requires attention to details.

## Why was a digital solution required?

- For Accurate Identification, Documentation, Data maintenance, Audit trail, Traceability & Recall management

## Stakeholders most affected

- Patients, Staff of CSSD, OT, Cath Lab, Endoscopy, Infection Control Team and Quality Team

## Key NABH quality indicators / aspects impacted

- NABH 6<sup>th</sup> Edition- IPC.7.a Commitment Reprocessing of instruments, equipment and devices are done as per written guidance.

## Digital Tool / Solution Implemented

- Description of the tool/solution- Low-code/No-code (LCNC) technology in Zoho Creator Platform. Built Inhouse
- Key features - Daily Discard Report of Single Use Devices & Daily Usage Report of Single Use Devices

## Digital Implementation Highlight

- About 1 Month taken for roll out once the app was ready
- Staff from CSSD, OT, Endoscopy, Cath Lab, Interventional Radiology, Store and Infection Control Team were trained and sensitized regarding the usage of technology
- Led by Medical Superintendent, Quality Manager, Information Technology Team

## Digital Impact

- Accurate Identification, Efficient Data Entry, Real Time Inventory Management, Accurate Traceability, Swift product recall, Cost Efficiency, Enhanced Patient Safety
- Awarded in - Apollo International Patient Safety Conference 2024

## Key Enablers

- Identifying Champions, Regular Re training, emphasizing the importance of the process & safety
- Analysis & Audits of multiple automated reports by Infection Control Team & Medical Quality
- Initially started it in OT & then implemented it in the Cath lab, Endoscopy & Interventional Radiology

## Challenges

- Internet unavailability, Placement of Nano Sticker, Resistance to use the new method

## Lessons Learned / Replicability

- Adopting Digital Technology provides quantifiable benefits like efficiency, reduces errors, saves cost & helps in enhanced traceability.
- It ultimately contributes to better and improved Patient Safety and hence Operational Excellence and Efficiency
- Other hospitals should consider developing the software, Training & Awareness when adopting similar practices