QUALITY IMPROVEMENT IN TRACHEOSTOMY CARE: A STANDARDISED MULTIDISCIPLINARY APPROACH

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Introduction

➢ Tracheostomy related adverse events remain a pervasive global problem that accounts for half of all airway-related deaths and hypoxic brain damage in critical care units. (British Journal of Anesthesia 2nd Edition by Elsevier Ltd)

➢ Primary nursing challenge in managing a tracheostomy case is to prevent or minimise tracheostomy -related complications.

➢ This study focuses on prevention of early complications related to tracheostomy care and thereby, accelerate the patient's recovery.

Objectives

1. To assess the knowledge and skill of nurses regarding the identification and management of tracheostomy related emergencies and complications before and after the intervention.

2. To minimise the occurrence of complications related to tracheostomy

3. To increase the overall patient satisfaction and thereby improving the patient experience during the hospital stay.

4. To minimise the average length of stay (ALOS) of tracheostomy patients.

Methodology

- Study Design   : Quasi experimental-One group pre-test post -test design

- Setting   : Medical & Surgical wards of Rajagiri Hospital

- Sample size & technique   : 50 nurses through Convenient sampling

- Tools :

➢ A procedure checklist to assess the nurse's competency and skill of performing tracheostomy care

➢ A knowledge questionnaire to assess the level of knowledge regarding the care of patient with a tracheostomy tube.

➢ Patient feedback checklist

➢ Data collection period : October 2021-December 2021

Interventions

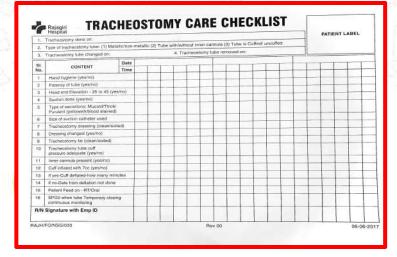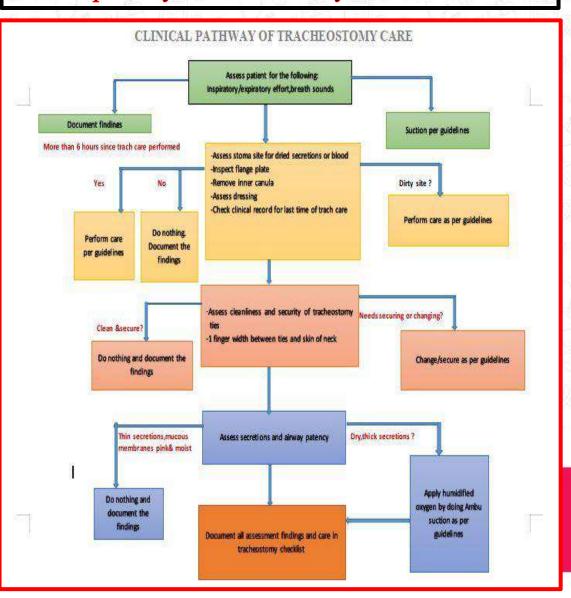Improvised Tracheostomy set

We care. We cure

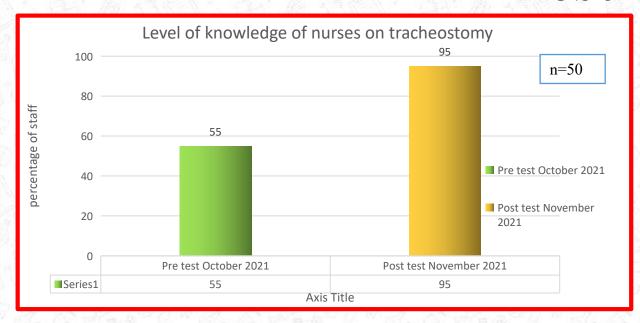Video -assisted training on tracheostomy care and suctioning
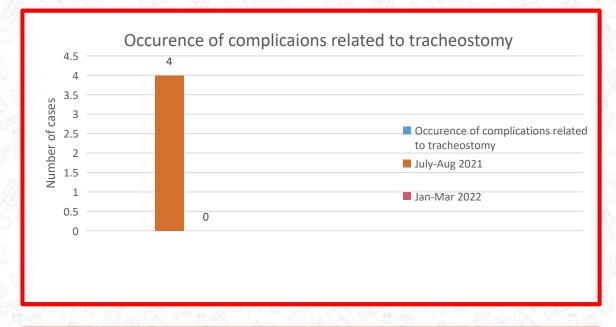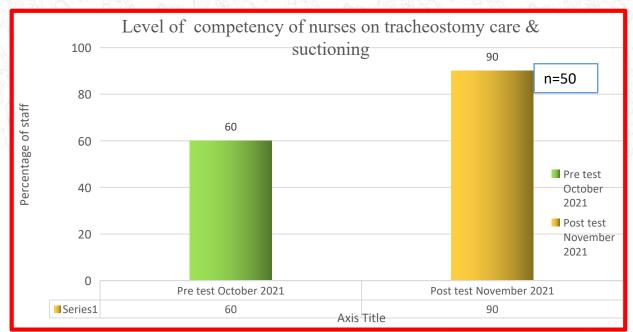

Tracheostomy maintenance bundle
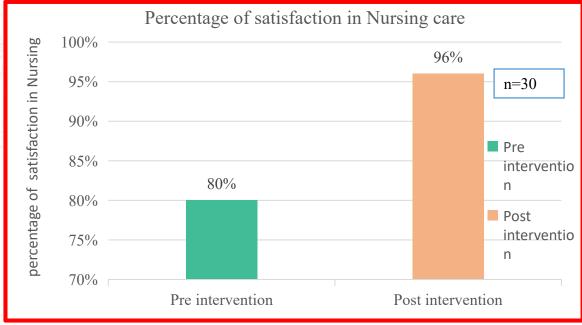

Clinical pathway on Tracheostomy care

Results

Level of knowledge of nurses on tracheostomy

n=50

	Pre test October 2021	Post test November 2021
Series1	55	95

Axis Title

percentage of staff

Occurence of complicaions related to tracheostomy

Number of cases

Occurence of complications related to tracheostomy
July-Aug 2021
Jan-Mar 2022

4

0

Level of competency of nurses on tracheostomy care & suctioning

n=50

Percentage of staff

Pre test October 2021
Post test November 2021

	Pre test October 2021	Post test November 2021
Series1	60	90

Axis Title

Percentage of satisfaction in Nursing care

n=30

percentage of satisfaction in Nursing

Pre intervention
Post intervention

80%

96%

Discussion

- The introduction of interventions for the standardised tracheostomy care can reduce the incidents of complications and infections,which has in turn,helped in early decannulation thereby reducing the length of stay of patients (ALOS)

- Monitoring the patients by using tracheostomy checklist every 4th hrly can helps in identifying the early warning signs thereby paving a way to proactive and predictive nursing care.

- Cohorting ensured that the patients are cared by tracheostomy care specialised nurses and customised tracheostomy set ensured the easy and appropriate availability of articles.

- The use of clinical pathway will help in providing patient centric and outcome specific care to improve the safety and quality of nursing care.

- Periodic training and reinforcements were conducted among the nurses to sustain the quality of care.

THANK YOU