شبكة المعلومات الجامعية

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بسم الله الرحمن الرحيم

HANAA ALY

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جامعة عين شمس

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HANAA ALY

Assess Nursing Performance During Implementation of Care Bundle for Critically ill Patients

A Thesis

Submitted for Partial Fulfillment of the Requirements of Master Degree in Medical Surgical Nursing (Critical Care)

By

Eman Helwan Ismail

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Faculty of Nursing

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Eman Helwan Ismail

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Abbreviations		Meaning
ABCDEF	:	**A**ssess, prevent and management of pain, **B**oth Spontaneous awakening trials and Breathing Trials, **C**hoice of analgesics, **D**elirium monitoring, Early **m**obility and **F**amily engagement and empowerment.
AMDA	:	American Medical Directors Association
APA	:	American Psychological Association
BPS	:	Behavioral Pain Scale
CAM	:	Confusion Assessment Method
CAM SF	:	Confusion Assessment Method Short Form
CAUTI	:	Catheter Associated Urinary Tract Infection
CCOT	:	Critical Care Observation Tool
CDC	:	Centers for Disease Control and Prevention
CIM	:	Critical illness myopathy
CIP	:	Critical illness polyneuropathy
CLABSI	:	Central Venous Catheter Infection
CPOT	:	Critical-Care Pain Observation Tool
CT	:	ComputedTomography
DC	:	Direct Current defibrillation
ECMO	:	Extracorporeal Membrane Oxygenation
FMs	:	Family Members
GSNS	:	Gerontological Clinical Nurse Specialists
IASP	:	International Association for the Study of Pain

ICDSC	**:**	Intensive Care Delirium Screening Checklist
ICU	**:**	Intensive Care Unit
ICU-AW	**:**	Intensive Care Unit-Acquired Weakness
ICUs	**:**	Intensive Care Units
LOS	**:**	Length Of Stay
MDs	**:**	Medical Doctors
MRI	**:**	Magnetic Resonance Imaging
MV	**:**	Mechanical Ventilator
NRS	**:**	Numerical Rating Scale
NSAIDS	**:**	Non-Steroidal Anti-inflammatory Drugs
PAD	**:**	Pain ,Aggetation ,and Delirium
PFCC	**:**	Patient- and Family Centered Care
PTs	**:**	Physiotherapists
RASS	**:**	Richmond Agitation and Sedation Scale
RR	**:**	Respiratory Rate
RTs	**:**	Respiratory Therapists
SAT	**:**	Spontaneous Awakening trials
SBT	**:**	Spontaneous Breathing Trials
UTI	**:**	Urinary tract infection
VAP	**:**	Ventilator Associated Pneumonia
VILI	**:**	Ventilator Induced Lung Injury
3D CAM	**:**	3 Dimension Confusion Assessment Method

Assess Nursing Performance During Implementation of Care Bundle for Critically ill Patients

Abstract

Background: Long-term morbidity, cognitive impairment and hospitalization-associated disability are common occurrence in the survivors of critical illness, with significant consequences for patients and for the caregivers. ABCDEF bundle compliance and outcomes including hospital survival and delirium-free and coma-free days in community hospitals. **Aim of the study:** Assess nurses' performance during implementation of care bundle for critically ill patients through the following (1) assess nurses' knowledge regarding implementation of care bundle for critically ill patients (2) assess nurses' practice during implementation of care bundle for critically ill patients. **Research design:** A descriptive design was used in the study. **Subject:** A convenient sample of 80 nurses working at medical ICU in Ain-Shams University Hospital. **Setting:** The study was conducted in medical ICU at Ain-shams University Hospital affiliated to Ain Shams University Cairo/Egypt. **Tools of data collection:** Two tools were developed by the investigator and utilized for data collection (1) Self-administered questionnaire to assess nurses' knowledge regarding care bundle for critically ill patients (2) An observational checklist to assess nurses' practice during implementation of care bundle for critically ill patients. **Results:** Revealed that 72.5% of the studied nurses had unsatisfactory level of knowledge, 77.5 % of the studied nurses had unsatisfactory practices regarding implementation of care bundle for critically ill patients. **Conclusion:** There was a lack of knowledge and practice regarding implementation of care bundle for critically ill patients. **Recommendation:** Establish periodical in-service training program to improve nurses' performance regarding implementation of care bundle for critically ill patients.

Keywords: Care Bundle, Critically ill patients, Nurses' Performance, Knowledge and Practice.

Introduction

A ‘bundle of cares’ comprises a set of interventions that, when performed collectively, improve the effectiveness and quality of patient care **(Sosnowski et al., 2021).** The ABCDEF bundle or care bundle **A** (Assess, prevent, and manage pain; **B** Both Spontaneous Awakening Trials (SATs) and Spontaneous Breathing Trials (SBTs); **C** Choice of analgesia and sedation; **D** Delirium monitoring and management; **E** Early mobility and exercise; and **F** Family engagement and empowerment) has been developed and implemented in thousands of Intensive Care Units (ICUs) **(Morandi et al., 2017).**

Critically ill patients experience a mixture of distressing symptoms during their hospital stay including pain, agitation, delirium, weakness, and sleep deficit. The ABCDEF bundle is a gathering of six elements which represents an evidence-based approach for clinicians to optimize patients’ recovery and outcomes in ICU **(Devlin et al., 2018).**

So, Patients admitted to ICUs often experience pain, over sedation, prolonged mechanical ventilation, delirium, and weakness. These conditions are important in that it often