

شبكة المعلومات الجامعية التوثيق الإلكتروني والميكروفيلو

بسم الله الرحمن الرحيم





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شبكة المعلومات الجامعية التوثيق الإلكتروني والميكرونيله



شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



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شبكة المعلومات الجامعية التوثيق الإلكترونى والميكروفيلم

جامعة عين شمس التوثيق الإلكتروني والميكروفيلم قسم

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Assessment of Quality Nursing Intervention to Neonates with Nasal Continuous Positive Airway Pressure

Thesis

Submitted for Thesis in Partial Fulfillment of the Requirements of Master Degree in Neonatal Nursing

By

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2021



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LIST OF ABRÉVIATIONS

ABG Arterial blood gases

ADH Antidiuretic hormone

ANA American nurses association

AOP Apnea of prematurity

APGAR Appearance, pulse, grimacing, activity and

respiratory rate

BP Blood pressure

CRP C. reactive protein

Edi Diaphragm electrical activity
ELBW Extremely low birth weight

ETT Endotracheal tube

FCC Family centered care

FIO₂ Fractional inspired oxygen

FRC Functional residual capacity

HCO₃ Bicarbonate

HHFNC Humidified high flow nasal canula

ICR Inter costal retraction

IFD Infant flow driver

IPC Infection prevention and control

Kpa Kilopascal mmHgLBW Low birth weight

LMICs Low and middle income countries

MDRO Multiple drug resistance organisms

MV Mechanical ventilation

List of Abbreviations 🕏

NAVA Neurally adjusted ventilator assist

NCPAP Nasal continuous positive airway pressure

NEC Necrotizing enterocolitis

NICU Neonatal intensive care unit

NIIMV Non-invasive intermittent mandatory

ventilation

NIPPV Nasal intermittent positive pressure

ventilation

NIV- NAVA Noninvasive neurally adjusted ventilator

assist

NPT Nasopharyngeal tube

NTE Neutral thermal environment

O₂ Oxygen

PaCO₂ Partial pressure of carbon dioxide

PaO₂ Partial pressure of oxygen PCO₂ Pressure of carbon dioxide

PEEP Positive end expiratory pressure

PH Powerful of hydrogen

PIPs Peak inspiratory pressures

RDS Respiratory distress syndrome

ROP Retinopathy of prematurity

RP Respiratory problems

SpO₂ Saturation percentage of oxygen

STEEEP Safety, timeliness, effectiveness, efficiency,

equity and patient-centeredness

Ti Inspiratory times

TPN Total parenteral nutrition

List of Abbreviations 🕏

TTN Transient tachypnea of the newborn

VAP Ventilator associated pneumonia

VLBW Very low birth weight

WBC_s White blood cells count

WHO World health organization

WOB Work of breathing

Assessment of Quality Nursing Interventions to Neonates with Nasal Continuous Positive Airway Pressure Abstract

Nasal Continuous Positive Airway Pressure is an effective and safe mode of therapy for neonates with respiratory problems, there is a still need for large high quality studies on the efficacy and safety of NCPAP technology for neonates. Aim of the study: assessing the quality of nursing interventions to neonates with nasal continuous positive airway pressure. Subject and Methods: a descriptive design was used in carrying out the study. The study was conducted at a NICU at Pediatric and Maternity Hospital affiliated to Ain Shams University Hospitals and Al-Mahalla General Hospital affiliated to Ministry of Health and Population. The sample included 80 neonatal nurses; 53 nurses from Ain Shams University and 27 nurses from Al Mahalla General Hospital and 50 neonates of those were connected to NCPAP. Tools of data collection: consisted of four tools namely; Neonatal Assessment Sheet, Pre-Designed Questionnaire Sheet, Nursing Attitude Scale and NCPAP Observational Checklist. **Results:** 52.5% of studied nurses had poor knowledge regarding to care of neonate on NCPAP, 68.7% of nurses were incompetent regarding to care of neonate on NCPAP, 52 % of nurses had positive attitude regarding to care of neonate on NCPAP. Conclusion: there was a highly positive significant relation between nurses' total knowledge and education level, there were highly positive significant relation between nurses' total practice, education level and years of experience, there was significant positive correlation between nurses' total knowledge, total practice and total attitude regarding to care of neonates on NCPAP. **Recommendation:** orientation program to prepare new nurses and periodical job training to update nurses' knowledge and practice about NCPAP.

Keywords: Quality, Neonate, Nasal Continuous positive Airway Pressure, Nursing Interventions.