

IMPLEMENTATION OF POINT OF CARE QUALITY IMPROVEMENT (POCQI) IN TOP REFERRAL NICU TO INCREASE QUALITY OF CARE IN SMALL AND SICK NEWBORN

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INTRODUCTION

The challenges faced by developing countries in improving Quality Improvement (QI) are the large number of patients, low quality of human resources, limited facilities, minimal financing of health services, and low levels of patient education. The Point of Care Quality Improvement (POCQI) method was introduced in the NICU RSPAD in 2022, by providing training to 35 nurses. For one year, POCQI has been used to address service-related issues and improve the quality of care, especially for small and sick newborns.

AIM

To find out whether there is an improvement in patient health services with the implementation of Point of Care Quality Improvement (POCQI) in the NICU RSPAD Gatot Soebroto.

RESULTS

In the implementation of this Point of Care Quality Improvement (POCQI), a total of 35 nurses were trained, divided into 5 groups. Over the course of 1 year, this initiative resulted in the development of 16 programs, 11 system changes, and a decrease in morbidity and mortality rates. The changes resulting from POCQI program includes 25% increase in breastfeeding rate, 30% decrease of preventable death, reduction in ventilator-associated pneumonia rates and bloodstream infection rates.



Fig. 1 Breast milk pumping education



Fig 2. Infection control

No	Group	Sustainable
1	Infection Control	1) Standard operating procedure for Chlorhexedine bathing in preoperative patients 2) Chlorhexedine bathing in preoperative patients checklist
2	Lactation	1) Educational documentation on how to express breast milk on the education sheet 2) Feeding tolerance checklist
3	Resuscitation	1) Resuscitation equipment checklist 2) Code Blue flow chart
4	Respiratory Support Devices	1) DOPE examination checklist 2) Video of transillumination process with Astodia device 3) Flow chart of wall suction catheter replacement
5	Parenteral	1) VIP Score poster 2) Standard operating procedure for VIP Score

Table 1. Sustaining Improvement

METHOD

The tools utilized in the POCQI method include the Facilitator's Manual Version 02 (Four simple steps to practice quality improvement at the health facility level) and POCQI coaching for quality improvement: coaching guide. The guidance method involved a combination of in-person sessions, conducted weekly in small groups, and online sessions, occurring one to two times per week through the WhatsApp group application (WA).

CONCLUSIONS

The POCQI method has a positive effect on the transformation of knowledge, skills, attitudes, and motivation of NICU nurses as well as the quality of care.

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