

CONTINUOUS QUALITY IMPROVEMENT - THE KEY TO SUPER NICU



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I. *Introduction:* Why is **QUALITY** so important for NICU?

Introduction



QUALITY

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QUALITY → **OUTCOMES**

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Introduction



QUALITY → **OUTCOMES** → **DEVELOPMENT**

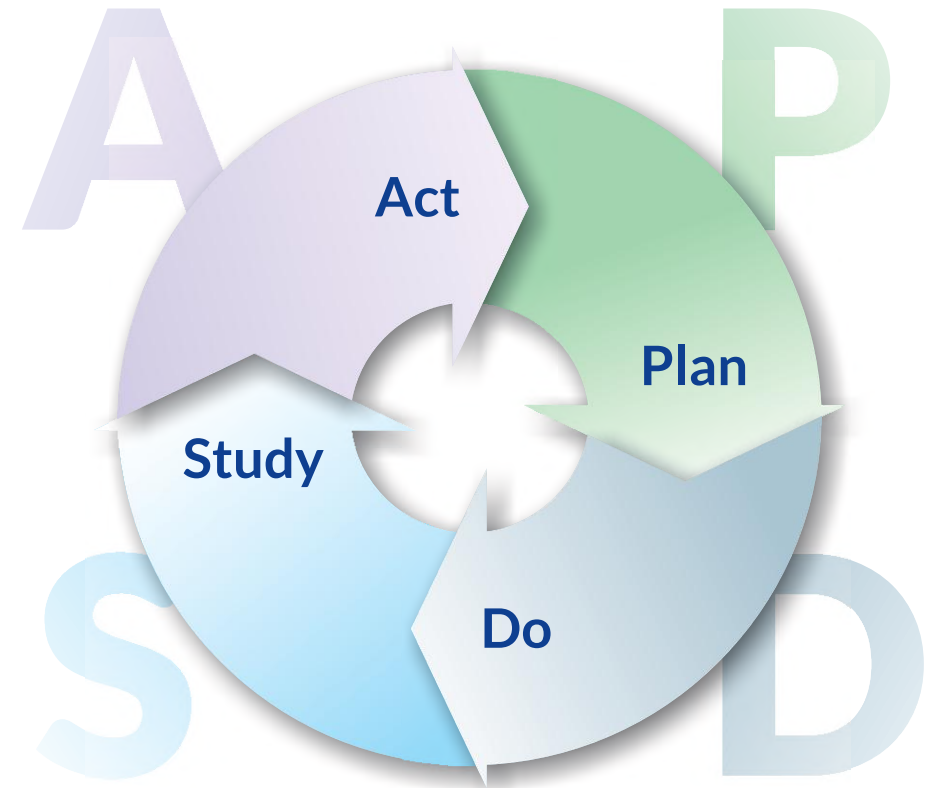
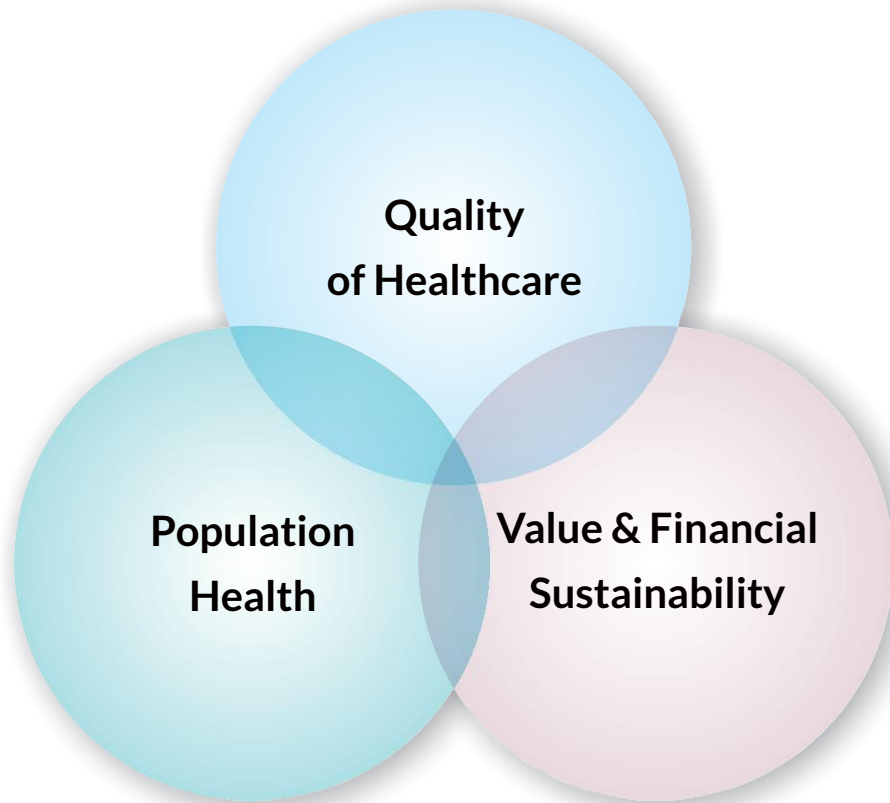
Quality determinants in NICU:

- **VON** (Expanded Eligibility Questionnaire 2019 -**124 parametres**)
- **CNN** (Annual Report 2016 -**53 parameters**)
- **Baby-monitor-9 parameters** (Prenatal GCS, Growth, ROP diagn., BPD, LOS, Pneumothorax, Enteral Feeding with Mother Milk, Temperature, Inter-hospital mortality rate)

II. *Aim:* Define the concept of Continuous Quality Improvement (CQI) & Higher Performing NICUs

Aim

The Triple Aim



- Current literature review: from **1st January, 2010** to **30th June, 2018**
- Databases: PubMed, EBSCO, Elsevier, Wiley, Science, Nature
- Key words: Quality improvement; Quality measure; Outcomes, Neonatology, Value
- Study time: April-July 2018
- All studies: **648**
- Excluded: 584 (abstract - 178; publication date - 86; irrelevant - 160; developing country - 40; pediatrics field - 52, women issue - 36, adult problems - 24, duplication - 8)
- Included: **64**

IV. *Results:* 1 - Tools for QI

Neonatal Database

i-NEO

VON

CPQCC

NICHD

Mednax

Numerical

Check-list

Pareto Analysis

FMEA & RPN 1

Nonnumerical

Brain-storm

Algorithm

Ishikawa diagram
(5M/8P)



IV. *Results:* 3 - Teamwork

Results

- 1 Superior MORALE
- 2 Greater PROBLEM - SOLVING EXPECTATION
- 3 Enhanced LEARNING OPPORTUNITIES
- 4 Knowledge of CQI FUNDAMENTALS
- 5 More GENEROUS STAFFING & Favorable STAFFING MODEL



Urgent need for:

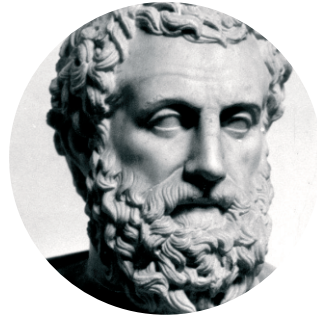
- 1 Implementation of a **CQI strategy**
- 2 Establishing of a **Polish Neonatal Database**
- 3 Defining an **organizational model**
- 4 Appointing dedicated regional **leaders**
- 5 Indicating **financial** resources
- 6 Reimbursement **for quality** vs for service

Thank you & Good luck



„Professionalism means consistency of quality”

Frank Tyger



„Quality is not an act, it is a habit”

Aristotle



„There is always space for improvement no matter how long you’ve been in the business”

Oscar de La Hoya

Thank you & Good luck