VON QI Collaborative
2023 and Beyond
Information Session

All Care is Brain Care

Wednesday, May 25, 2022

Outline

- Overview of the importance of brain care
- Why VON QI Collaboratives?
- Description of Program 2023 and Beyond
- Collaborative options – Quality Circle with iNICQ & NICQ
- Next Steps
- Q&A / Discussion

Questions? Comments? Ideas to Share?

Please Chat to “Everyone”

Presenters – Lead Clinical Faculty

Sonia Bonifacio MD
Assistant Professor of Pediatrics at Stanford University
Associate Medical Director of the NeuroNICU

Elizabeth Rogers MD
Assistant Professor of Pediatrics UCSF
Director of the UCSF Intensive Care Nursery Follow Up Program
Assistant Director of Neonatal Clinical Programs

Presenters & Discussants

John Lester
NICQ & INICQ
Coordinating Consultant

Marybeth Fry
Lead Family Faculty

John McGregor
Learning Systems Manager

Denise Zayack
Senior Consultant for Quality Improvement & Education

Why All Care is Brain Care

Sonia Bonifacio MD

Elizabeth Rogers MD
All Care is Brain Care
Sonia Bonifacio and Elizabeth Rogers
Vermont Oxford Network
NICQ, iNICQ QI Collaborative 2023

Survive and Thrive
While we continue to work to improve survival rates across the span of neonatal critical illnesses, we cannot do so at the expense of or without clear focus on our ability to safeguard the full potential of each infant.

Survive and Thrive
Much of what we do as healthcare providers is out of necessity, not neuroprotective, and potentially harmful over time.

Our goal is that each care interaction with a newborn is approached with a neuroprotective lens, balancing benefit and harm, supporting normal maturation and preventing injury.

Protect
Dr. Steven Miller has shown the invasive procedures and pain of neonatal critical care provision impacts brain maturation and development as well as cognitive and motor outcomes in early childhood.

Having a care bundle aimed at preventing acquired brain injury has been shown to reduce IVH and white matter injury.
Programs such as NIDCAP, SENSE, and Family Integrated Care have highlighted how we can promote positive experiences that are individualized and family-centered for better infant brain development.
Key Value Features

- Twice yearly audits for baseline and gap analyses
- Interactive toolkit with evidence-based Potentially Better Practices, change ideas, and suggested measures
- Faculty skilled in quality improvement, clinical application of evidence, and partnership with families
- Health Equity as key driver
- Multidisciplinary teams from multiple regions and countries

From VON QI Collaborative Participants

“Collaboration with other centers, access to expert faculty members, access to knowledge and resources”

“Guidance on the QI process and use of data to drive change.”

“Hearing from other hospitals about their own implementations and goals and getting feedback on our own goals and initiatives. Also love the guest speakers”

From VON QI Collaborative Participants

“The data sharing is very helpful to us and actually helped to get a position approved for an RD specific to Pediatrics…

Collaborating with centers in real time to see what they have implemented that works and what doesn’t work so that we don’t have to necessarily waste time figuring that out.”

“Keeping up to date with the latest science in neonatology, networking, advancing my work in family-centered care.

Curriculum Structure

- Small Communities with Care Experts
- PBPs and Change Ideas
- Tools & Resources
- VON QI Foundations
- Measurement Plan

Deep dive into care areas related to collaborative focus

1 – 3 focused one-hour webinars, clustered sessions

Minimum of 3 Small Communities each year

Available to all NICQ and INICQ – Quality Circle team members
Introduction - VON’s Sequence to Achieve Change

Establish Improvement Team

Identify Rationale

Review Evidence-Based Potentially Better Practices (PBPs)

Reveal a Hierarchy of Aims

Create Driver Diagram

Complete Project Charter

Establish a Shared Mental Model

Apply Structured Improvement Methodology

- Overview
  - Plan & Do
  - Study & Act
  - Sustain

PBPs and Change Ideas

VON QI Foundations

Small Communities with Care Experts

Tools & Resources

Checklists, templates

Community forum open, collaborative member and faculty discussion board; upload your team’s tools

Webinar Series based on evidence-based educational arc over 4 years

VON data items informing:

- Project Rationale, Baseline, and Annual Measures
  - Center reports provided via VON Nightingale link
  - Project audits

Supplemental data items:

- Unit level measures of neuroprotective care
- Culture assessment
- Families as Partners assessment
- NICQ Homeroom: custom VON data reports

YEAR 1 - How to change your culture

- Clinical practices in the pre-admission and golden hour phases of care

YEAR 2 - Standardizing to create a culture of neuroprotection

- Clinical practices in the acute phase of care

YEAR 3 - Precision-focused care

- Clinical practices in growing stronger and feeding-breathing-growing

YEAR 4 - Follow-through

- Clinical practices for transition to home
- Transfer and follow-up and follow-through

Webinar Curriculum Overview – 4 Years

YEAR 1 - Webinars and Small Community Topics

- Positioning and handling – containment during admission; skin-to-skin
- Protecting skin – maximizing opportunities to maintain intact skin
- Equitable care throughout (FAIR) family-centered, anti-racist, individualized, rigorous; translation services for parents, fully informed consent
- Families as neuroprotectors
- Acquired Brain injuries – supporting infants with hypoxic-ischemic encephalopathy
- Micro-premie population-specific
- Teamwork and culture change – teamwork in resuscitation, relationships with OB

YEAR 2 - Continuing Themes

- Positioning and handling – kangaroo care; 4-handed care
- Protecting skin – maximizing opportunities to maintain intact skin
- Families as neuroprotectors

NEW for Year 2

- Optimizing nutrition – mother’s own milk; getting to volume in 14 days
- Environmental care – smell, sound, touch, temperature, light; safeguarding sleep
- Precision care – hypotension, seizure management
- Surgical interventions and neuroprotection
- Pain – prevention, minimization, management
- Respiratory care throughout the journey
- Acquired Brain injuries – IVH, PVL
Webinar Curriculum Overview – Year 3

YEAR 3

Continuing Themes
- Supporting ongoing brain development – follow through
- Optimizing nutrition – mother’s own milk; optimal growth and nutrition
- Positioning and handling – families as neuroprotectors, kangaroo care
- Environmental care – smell, sound, touch, temperature, light; safeguarding sleep

NEW for Year 3
- Safeguarding sleep – decreasing unnecessary interventions, approaches to care
- Precision care – cardiovascular, PDA management, persistent hypertension of the newborn

Webinar Curriculum Overview – Year 4

YEAR 4

Continuing Themes
- Supporting ongoing brain development – follow up and follow through
- Optimizing nutrition – mother’s own milk exclusively
- Equitable care throughout (FAIR) family-centered, anti-racist, individualized, rigorous

NEW for Year 4
- Acquired Brain injuries – CP
- Palliative care

Collaborative Features: Quality Circle with iNICQ

John Lester
NICQ & iNICQ Coordinating Consultant

Collaborative Features:
- Quality Circle with iNICQ
- Year-to-year collaborative option that brings teams together to use local and collective data to guide improvement on a designated collaborative topic.
- All Care is Brain Care is designed with a 4 year educational and improvement arc.
- Dedicated event at VON’s Annual Quality Congress with peer-to-peer learning

Collaborative Features:
- NICQ
- Two-year improvement collaborative with dedicated small groups
- Quality Circle
- iNICQ All Care is Brain Care and online education
- Core Membership
- Data collection, reporting, and other resources for improvement
- Basic Access
- Publicly available content for non-VON members

- Discounted registration for Annual Quality Congress
- CME/CNE for webinars; MOC Part 4 with improvement poster
- Educational course for Neonatal Abstinence Syndrome
- All Improvement Library resources
Collaborative Features: NICQ

- Two-year improvement collaborative with all features of Quality Circle and NICQ membership. In addition, NICQ members receive:
  - Participation in a Homeroom of 8-10 centers working on similar projects and collaborating on a focused area of improvement
  - Homeroom-dedicated faculty trios (Family Leader, Clinical Translator, Quality Leader)
  - Homeroom access to Care Expert Faculty

Monthly Homeroom webinars
- Twice yearly in-person meetings
  - Collaborative launch in Burlington, VT, March 28-30, 2023
  - Two-day homeroom program at the VON Annual Quality Congress
- Ability to have an additional iNICQ team participate at no extra cost

Potential NICQ Homeroom Topics
1. Supporting ongoing (continuum of) brain development
   - Follow up and follow through
   - Family led rounds; empowering families; preparing for the role
2. Optimizing Nutrition
   - PBPs Mother’s own milk; skin-to-skin care
3. Neuroprotective Developmental Support
   - Pain, safeguarding sleep; protecting skin, positioning & handling, environmental
4. Initial Neonatal Intensive Care
   - Includes resuscitation, golden hour
   - PBPs gentle resuscitation
5. Respiratory Care

Potential NICQ Homeroom Topics
6. Acquired Brain Injuries & Precision Care
   - Care that is both standardized and individualized
   - Seizures, HIE, PVL, IVH, CP
7. Perioperative care & neuroprotection
   - Post-op pain management, perioperative, anesthesia
8. Micropreemie Neuromotor Care
   - Includes precision care: cardiovascular, PDA, hypotension, pulmonary hypertension of the newborn (PHN)
9. Teamwork and Culture
   - Systems changes; include partnering with families - empowerment

Collaborative Fees
Pricing – no increases from 2022
- iNICQ $7,500 per year (separate from Core Membership fees)
- NICQ $25,000 per year – includes iNICQ for any additional teams within center (separate from Core Membership fees)

Discounts for Health Systems joining iNICQ or creating a NICQ Homeroom
- Custom options for support can be explored
Next Steps

Center-level discernment – links provided in follow up
  • Neuroprotective Practice Gap Assessment
  • Nightingale report links – “brain care” data set

VON Collaborative Interest Survey – provided in follow up

Summary handout for Senior Leader conversations

Center level consultation
  • Based on response to interest survey or by request

Questions? Comments? Ideas to Share?

Please Chat to “Everyone”

Thank you.

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