

| Time | Agenda Item | Speaker | |
|---------------|--|--|--|
| 09:00 – 09:30 | Registration and refreshments | | |
| 09:30 – 10:50 | Houston, we've had a problem (Jim Lovell) | Caroline Buckley Neonatal Manager Northern Neonatal Network | |
| | Ignition sequence start. We have lift off. Engines at full power! | Julia Wood MatNeoSIP Lead North East and North Cumbria | |
| | That's one small step for man, one giant leap for mankind (Neil Armstrong) | Patient voice | |
| | In the business of discovering new worlds, problems aren't stop signs, they're the guidelines (Robert H. Schuller) | Ros Nunn Public Health Practitioner/Specialist Lead for Infant Feeding, LMNS/ICB | |
| 10:50 – 11:10 | Break | | |
| 11:10 – 12:30 | Atmospheric Pressures | Dr Chloe Allen Neonatal Registrar Northern Deanery | |
| | Failure is not an option (Gene Kranz) | Julia Wood | |
| 12:30 – 13:30 | Lunch | | |

| 13:30 – 16:00 | Beginners Pack to Improvement | Dr Alessandra Glover | | |
|---------------|--|--|--|--|
| | | Locum Consultant in Neonatology | | |
| | | NeoTRIPS Quality Improvement Co-Lead | | |
| | I know the sky is not the limit, because there are footprints on | Dr Stefan Zalewski | | |
| | the moon, and I made some of them (Buzz Aldrin) | Consultant Neonatologist | | |
| | | Dr Kristina Chmelova | | |
| | | Neonatal Registrar | | |
| | | Maria Douglass | | |
| | | Neonatal Infant Feeding Lead | | |
| | | The Newcastle Hospitals NHS FT | | |
| | Force Field Analysis | Julia Wood | | |
| | A dream is alive | Dr Sarah Bates | | |
| | (Randy Pausch) | Consultant Paediatrician and Neonatologist | | |
| | | Great Western Hospitals NHS FT | | |
| | To infinity and beyond | Caroline Buckley | | |
| | (Buzz Lightyear) | | | |
| 16:00 | Close | | | |

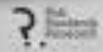




"Houston, we have a problem"

Following a plan is part of the solution. To achieve it you need the right information.







National Patient Safety Improvement Programmes

Maternity and Neonatal

Ignition sequence start. We have lift off. Engines at full power!

Julia Wood MatNeoSIP Lead



@NatPatSIP / @MatNeoSIP

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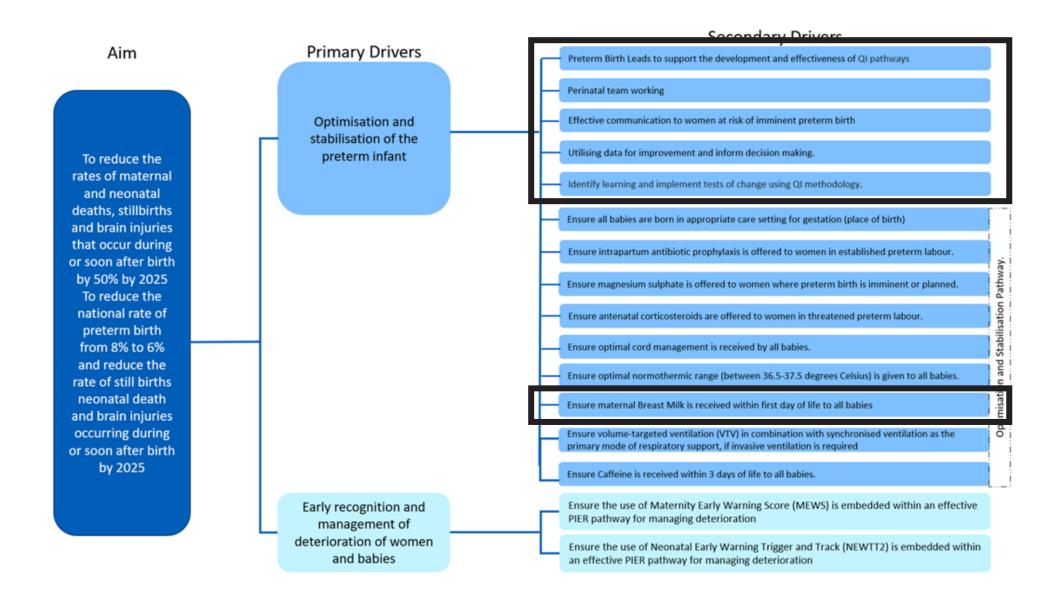
Overview of MatNeoSIP

- > National programme
- > Started in 2017
- > Funding for the programme has changed over time currently funded by the Maternity and Neonatal Programme (MNP)
- > 15 Patient Safety Collaboratives support delivery of the programme PSC NENC
- > Accountable to NHS England
- > Every Trust been involved (initially as a phased approach)
- > Specification each year changes in line with priorities
- > Specification been relatively stable the past 2 3 years

Maternity and Neonatal Safety Improvement Programme – 2024/25



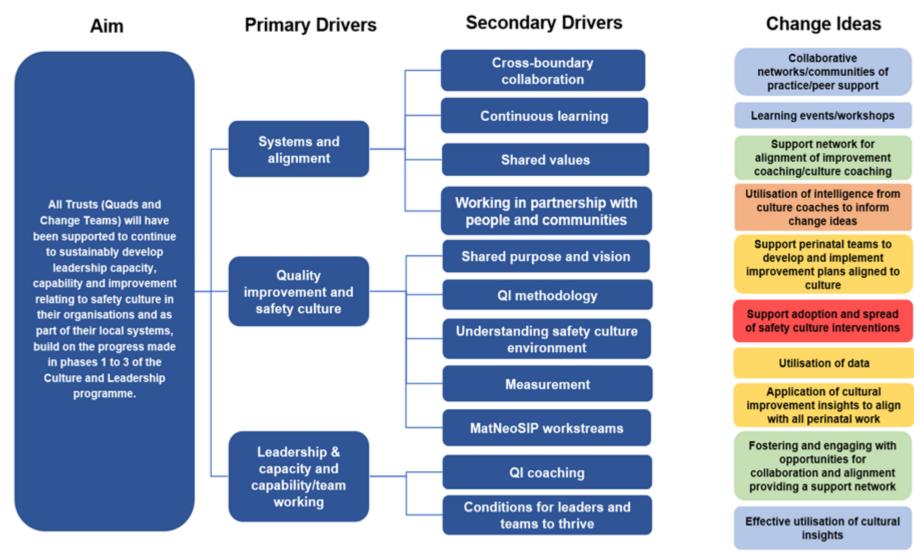






Perinatal Culture and Leadership Programme – 2024/25

Driver Diagram 2024/25



Work together in Trust groups

Make sure you all know each other

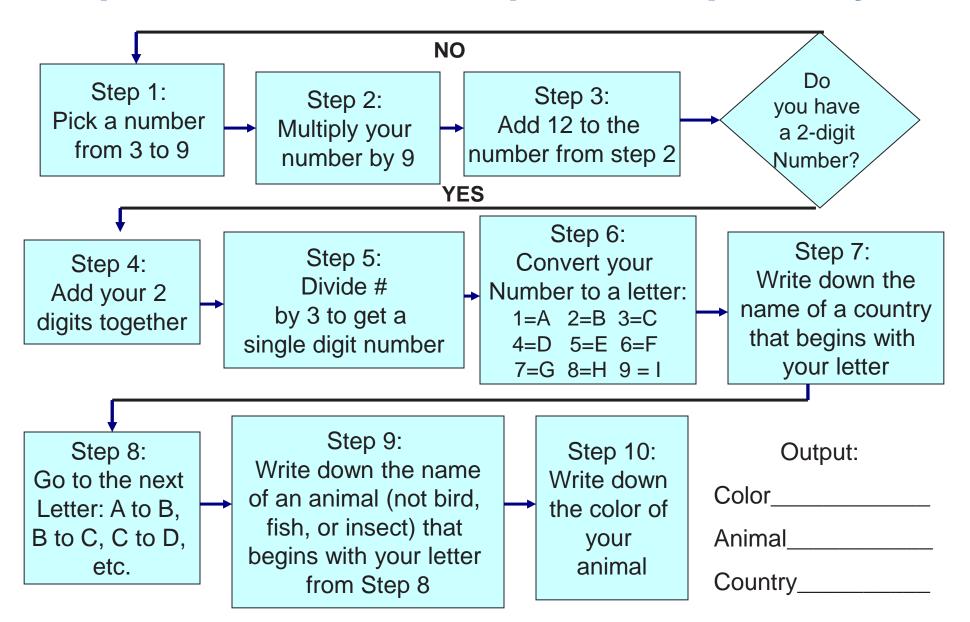
Maternal Breast Milk Action Plan

Trust:

| WHAT AND WHERE? | WHY? | HOW? | WHO LEADS? | WHO NEEDS TO BE INVOLVED? | COMPLETION DATE? | NOTES |
|-----------------|------|------|------------|---------------------------|------------------|-------|
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Complete each of the steps in this pathway











"Every system is perfectly designed to achieve the results it gets"



Data packs

- > Anonymised using data for quality improvement
- > Data from Neonatal Badgernet only as good as the data inputted into the system
- > < 34 weeks, < 37 weeks and 37+
- > Percentages if you want numbers come and see me



MATERNAL MILK MEGAN CURRY

30TH APRIL 2024







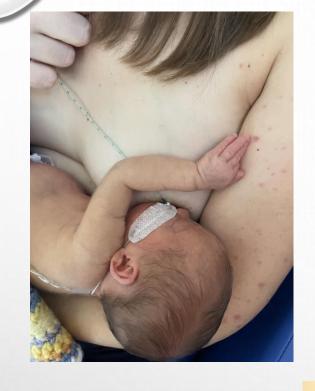
























THINK MOTHER!

In the business of discovering new worlds, problems aren't stop signs, they're the guidelines (Robert H. Schuller)

Ros Nunn

Public Health Practitioner / Infant Feeding Specialist Lead, Public Health Prevention in Maternity Programme

North East & North Cumbria Regional Lead , National Infant Feeding Network

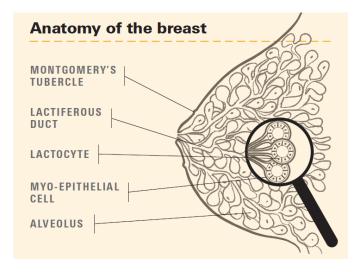
Imagine that the world had invented a new 'dream product' to feed and immunize everyone born on Earth. Imagine also that it was available everywhere, required no storage or delivery—and helped mothers to plan their families and reduce the risk of cancer ... Then imagine that the world refused to use it ... This scenario is not, alas, a fiction. The 'dream product' is human breast milk, available to us all at birth, and yet we are not using it.

Dr. Frank Oski 1991

Stages of lactation



- Lactogenesis 1 Breast development and colostrum production from approx. 16 weeks' gestation
- Lactogenesis 2 Onset of copious milk secretion occurring between
 32 and 96 hours after birth
- Lactogenesis 3 Maintenance of milk production



After birth

- Oestrogen and progesterone levels drop
- Prolactin and oxytocin levels rise in response to touch, smell and sight of baby
- Baby begins spontaneous breast seeking behaviour
- Mothering behaviours initiated

Neonatal admission = Interruption of normal physiological responses which support long term milk production



Overcoming challenges - THINK MOTHER

- Immature breast development
- Decreased exposure to prolactin, cortisol, and other hormones which occurs during a full-term pregnancy
- Mother and baby separated at birth
- Baby not able to feed
- Mother's anxiety over baby's condition
- Mother may be unwell
- Support to establish and maintain breastmilk supply
- Culture supporting mothers need for sleep and rest following birth
- Delayed lactogenesis 2

Why early expression matters for mothers

- Oxytocin responses from close contact/ expressing (love hormone)
 - Lowers blood pressure and improves sleep
 - Reduces stress levels by 'taking on' cortisol
 - Reduces pain sensitivity
 - Boosts mothers immune system
- Builds confidence only mum can do it! Sense of achievement!
- Reduce chances of postnatal depression
- Breastfeeding grief (hopes and dreams)
 - Anger at not receiving support promised
 - Frustration at meeting difficulties (suggestions of formula)
 - Miserable that own feelings were dismissed
 - Feelings that body not working as hoped
 - Important because of cultural or religious beliefs
 - Friends and family experiences



Delayed lactogenesis 2 – THINK MOTHER

- Caesarean Section (48% of NN admissions /17% unknown)
- Induction of labour / synthetic oxytocin (22% of NN admissions/ 8% unknown)
- Maternal obesity (27.4% NE/ Fingertips 18/19)
- Hormonal factors Diabetes , hypothyroidism , PCOS,
- Post-partum haemorrhage
- Hypertension

Other considerations – health inequalities: *MMBRACE / National Maternity and Perinatal Audit

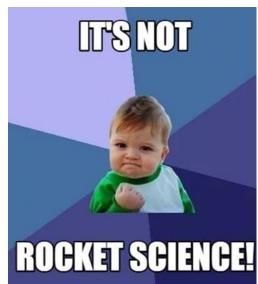
- Babies born to Black women higher rates of admission to NNU at term compared to babies born to women from all other ethnic groups.
- Babies born to women from South Asian ethnic groups have higher rates of term neonatal unit admission when compared to those born to white women.
- Women from South Asian and Black ethnic groups and those from the most deprived areas had higher rates of pre-existing hypertension and prepregnancy diabetes compared to women from white ethnic groups and those in the least deprived IMD's.
- Rates BMI of 30kg/m² or above are higher for women from Black ethnic groups compared to those form all other ethnic groups, and for those living in the most deprived areas.
- Black women have higher rates of caesarean birth, and more likely to experience a major PPH compared to white women.
- Rates of PPH higher for women in the least deprived areas

Tobacco dependency

- Smoking tobacco causes a decline in breast milk volume, adverse alterations to the milk composition, and a shorter lactation period (Napierala et al., 2016).
- Estimated 20-25% of babies admitted to neonatal units are a result of the TDiP and infants have longer stays (Notley et al, 2022)
- NENC: 15% of admissions to NNU. mothers reported tobacco dependence at booking (12% unknown)
- Main modifiable risk factor for poor pregnancy outcomes and strongly correlated to high neonatal admissions and low birth weight (Nichols, Clarke & Notley, 2019).
- Indirect tertiary harms family budget spent on parental tobacco addiction (Khan, 2022) Extra cost result from travel, food, accommodation and needing to pay for childcare for older children (Bliss, 2022) – Formula milk added future cost
- Long term exposure increased incidence lower respiratory tract infection, asthma, otitis media, SIDS (protective factors correlated to breastmilk)

Establishing mother and infant breastfeeding dyads

- Skin to skin contact at birth if possible (delivery room cuddles)
- Hand Express within 2 hours of birth (collaboration to facilitate between maternity and neonatal)
- Express at least 8 times (preferably 8-10) in 24 hours, including at night
- Combine hand and pump as volumes increase
- Good, consistent, frequent, relevant support get additional help if needed
- Plans / expression assessments



Start early - Aim high!





But how high???

Mother and infant are in it together!

Depends on early support

THINK MOTHER

References

- Bliss (2022) Financial Costs Facing Parents. Bliss: For babies born sick or premature. Financial costs facing families | Bliss (accessed: 15/04/2024)
- Brown.A (2019) Why Breastfeeding Grief and Trauma Matter. Pinter and Martin. London.
- Healthcare Quality and Improvement Partnership (2023) MBRRACE-UK Perinatal Confidential Enquiry: A comparison of the care of Asian, Black and White women who have experienced a stillbirth or neonatal death. Availabel https://www.npeu.ox.ac.uk/mbrrace-uk/reports
- Khan, J. (2022) The Khan Review: Making Smoking Obsolete. Office for Health and Disparities. <u>The Khan review Making</u> smoking obsolete - GOV.UK (Accessed 15/04/2024)
- Napierala.Marta, Jan Mazela, T. Allen Merritt, Ewa Florek, (2016) Tobacco smoking and breastfeeding: Effect on the lactation process, breast milk composition and infant development. A critical review, Environmental Research, 321-338, Tobacco smoking and breastfeeding: Effect on the lactation process, breast milk composition and infant development. A critical review ScienceDirect (Accessed 15/04/2024)
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- Webster K, NMPA Project Team. (2021) Ethnic and Socio-economic Inequalities in NHS Maternity and Perinatal Care for Women and their Babies: Assessing care using data from births between 1 April 2015 and 31 March 2018 across England, Scotland and Wales. London: RCOG;

Thank you for listening



Audit on Time From Birth to First Maternal Breastmilk in Preterm Infants <32 Weeks

Babies admitted to James Cook University Hospital Neonatal Unit from 01/03/2023 - 31/07/2023

Please refer to the separate PDF document

Dr Chloe Allen (Paediatric Registrar)



Maternity and Neonatal

Failure is not an option

Julia Wood MatNeoSIP Lead



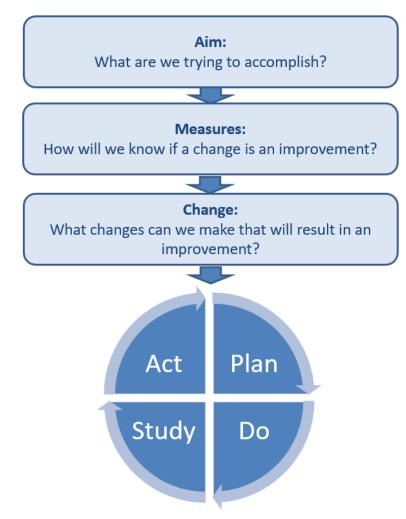
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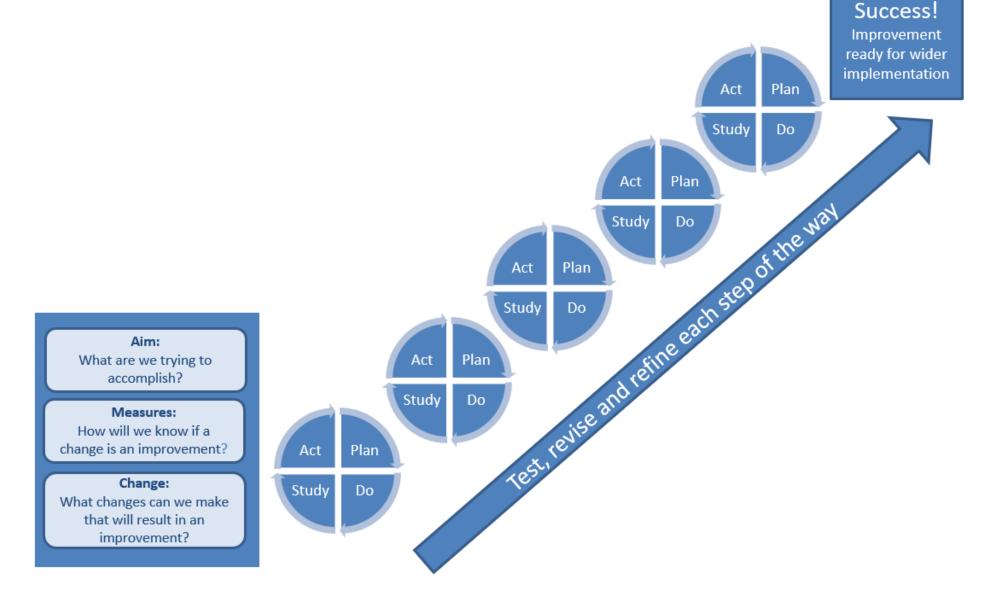


The Model for Improvement



35 21/05/2024





Most people just plan and do!



Plan and Do

- Large steps
- Abrupt, volatile
- Few champions
- Often need to rebuild
- Large investment in time
- Costs!



Plan, Do, Study, Act

- Continuous and incremental
- Learn along the way
- Undramatic
- Often group efforts champions
- Low investment









Example

Three fundamental questions



- Aim (what are we trying to accomplish):
 - My aim is to lose a stone in weight in 7 weeks starting w/c X and ending X
- Measures (how will we know that a change is an improvement):
 - Using weighing scales weigh myself each week on a Monday to track progress
 - Target 2lb per week
- Changes (what changes can we make that will/may result in an improvement):
 - Join gym (and go to it!)
 - Cycle to work
 - Get off the bus one stop earlier
 - Take the stairs
 - Join a slimming club
 - Cut out sweets, chocolate, crisps, cakes
 - Cut out bread, potatoes and chips

Testing out the model for improvement





- > Build a spaghetti and marshmallow tower
- > Aim: To make the highest free-standing tower possible which stays stable until after the judging

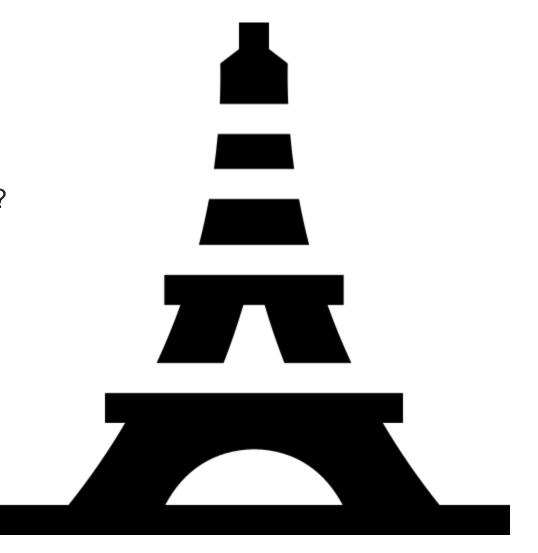
- > Resources:
- > Lots of spaghetti
- > Bag of marshmallows





What did you learn?

- > Did you keep refining until you reached your aim?
- > Did you go and see what other teams were doing?
- > How did you work together as a team?
- > Sometimes in the NHS failure is not an option...











A beginners pack to improvement in EBM

Dr Aless Glover Williams







Agenda

What is EBMQIP?

What have we offered?

What have we learnt?

















Our Min

TO INCREASE THE PROPORTION
OF INFANTS <34 WEEKS
GESTATION WHO RECEIVE THEIR
MOTHER'S BREAST MILK
WITHIN 6 HOURS OF LIFE, AND
AS A CONSEQUENCE, TO
IMPROVE THE PACKAGE OF
BONDING CARE FOR FAMILIES
THAT TAKES PLACE
SURROUNDING THIS

Orteone Measures

% INFANTS <34 WEEKS RECEIVING THEIR MOTHER'S MILK WITHIN 6 HOURS

% INFANTS RECEIVING THEIR MOTHER'S MILK WITHIN 24 HRS

Process Measures

SKIN TO SKIN WITHIN 6 HOURS
SKIN TO SKIN WITHIN 24 HOURS
EXPRESSION WITHIN 6 HOURS OF
BIRTH

How?

QUALITY IMPROVEMENT

METHODOLOGY

PPI CO-PRODUCTION

NATIONAL COLLABORATION

SHARING EXCELLENCE

SHARING EXCELLENCE
MEASURING PROGRESS
CHAMPIONING TRAINEE POTENTIAL
EQUALITY, DIVERSITY & INCLUSION

(EDI)

ALWAYS **LISTENING**, ALWAYS LEARNING

Who?

TRAINEE LED

CONTACTS:

ALESSANDRA.GLOVER1@NHS.NET EMMA.ALEXANDER5@NHS.NET CHANTELLE.TOMLINSON@NUH.NET (CONSULTANT SUPERVISOR)

YOUR LOCAL LEAD IS:









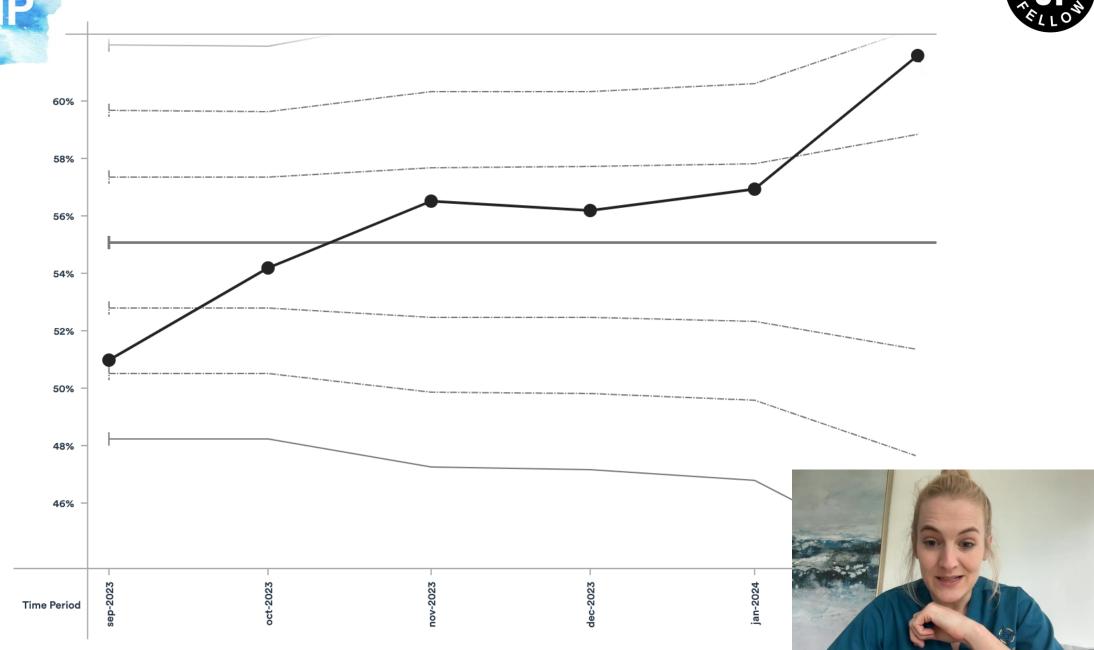
LifeQI
Menu of change ideas
QI Support
Collaboration
Resources















What have we learnt?

Everyone needs to be onboard, be inclusive

Movers and shakers

Evidence & credibility

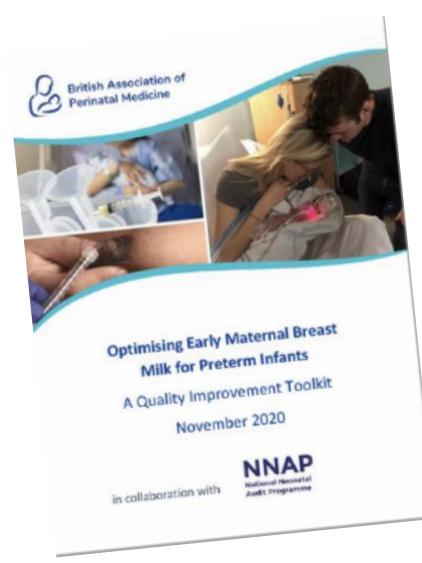
Brand it

Localise it

Don't reinvent the wheel, collaborate

Listen, listen & communicate









THE EVIDENCE BEHIND THE INTERVENTIONS

Skin-to-skin increases milk volumes Hurst et al 1997

Receiving Breast milk instead offormula **reduces risk of NEC** by two thirds Quigley et al 2014

Oropharyngeal colostrum
reduces ventilator associated
pneumonia

(odds decreased by 60%) Ma et al 2020



Breast milk instead of any formula

protects against ROP (Odds decreased by 70%)

Zhou et al 2015



Expressed breast milk volumes are significantly more if pumping is started within 1hr of birth

Parker et al 2012

Pumping 5-8 times a day improves

expressed volumes
Furman et al 2002
Hill et al 2005

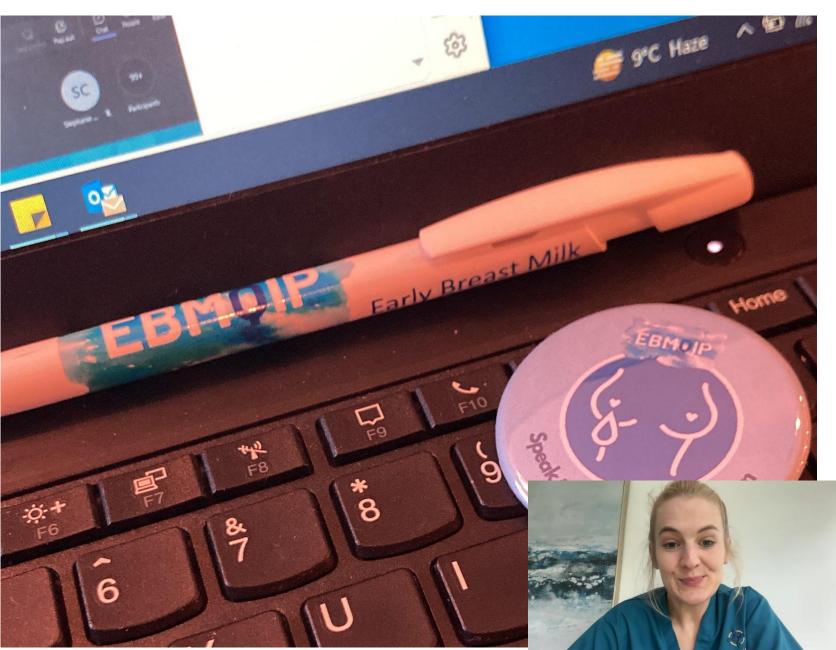
Breast milk improves IQ by at least 5.9 points

Kramer et al 2008









Congratulations on your baby's birth







At this time your baby needs to be cared for in the Newborn Care Unit – we know that's hard.

We encourage you and your support person to be with your baby as soon as you are able, any time of dornight. We will help you have skin to skin contact as soon as possible and for as long as possible.

Try to express colostrum (the concentrated first milk your body makes) as soon as you can – if you do the within two hours of birth it can kick start your milk supply. Colostrum is like a medicine for sick babies. Your midwife will help you.

More information on expressing colostrum (the concentrated first milk your body makes):



We recommend that you express using your hands ("hand expressing") and with an electric pump. The pump gives good stimulation to your breasts even if nothing comes out (which is common!)



Your midwife or maternity support worker will help you with how to express and give you the equipment – please ask for more help if you need it.



Starting to express does not mean you have to continue for a long time or breastfeed your baby later on if that isn't what you planned.

Keep trying to express frequently, aiming for 8-10 times in 24 hours, including at least once in the night. This gives you the best chance of bringing your milk in and establishing your milk supply.



Don't worry if you are getting no colostrum, o tiny amounts. This is normal. Just keep going! any colostrum that you express to the Newborn Unit as soon as you can so it can be given to baby/babies.



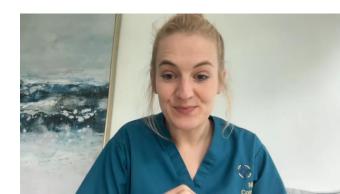
Sustainability and Embedding







Questions?



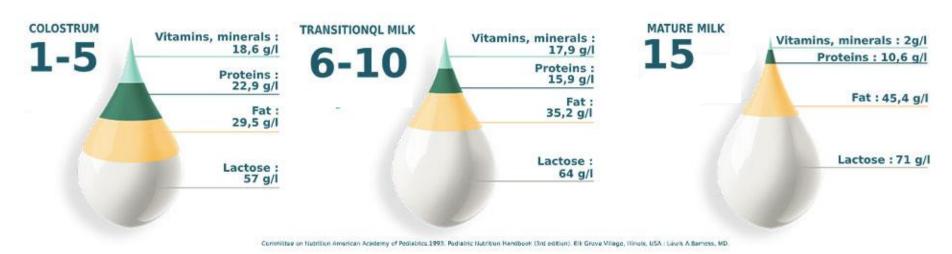
EARLY COLOSTRUM

Kristina Chmelova Maria Douglass Stefan Zalewski Janet Berrington

COLOSTRUM QIP

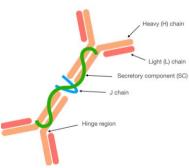
Motivation
Our journey

Types of breastmilk



EVOLUTION OF THE COMPOSITION OF BREAST MILK OVER TIME





What is it exactly?







Neutrophil

iti-microbial compounds Immunoglobulins: slgA, SlgG, SlgM

Lactoferrin, lactoferricin B and H

Lysozyme

Lactoperoxidase

Nucleotide-hydrolyzing antibodies

 κ -Casein and α -lactalbumin

Haptocorrin

Mucins

Lactadherin

Free secretatory component

Oligosaccharides and pre-

biotics

Fatty acids

Maternal leukocytes and

cytokines

sCD14

Complement and complement

receptors

 β -Defensin-1

Toll-like receptors

Bifidus factor

Tolerance/priming compounds Cytokines: IL-10 and TGFβ Anti-idiotypic antibodies Immune development compounds Macrophages Neutrophils Lymphocytes

Cytokines

Growth factors

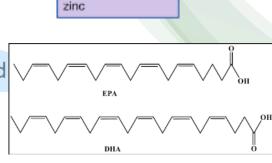
Hormones

Milk peptides

Long-chain polyunsaturated fatty acids

Nucleotides

Adhesion molecules



65.38

63.546

[Ar]3d104s2

29

copper

[Ar]3d104s 30

Anti-inflammatory compounds
Cytokines: IL-10 and TGFβ
IL-1 receptor antagonist
TNFα and IL-6 receptors
sCD14
Adhesion molecules
Long-chain polyunsaturated
fatty acids

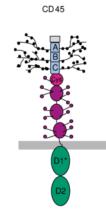
Hormones and growth factors

Osteoprotegerin

Lactoferrin

Long-chain polyunsaturated

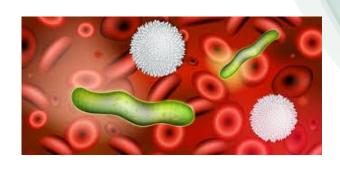
Hormones and growth factors fatty acids

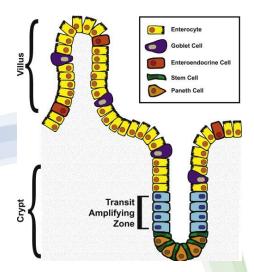


What does it mean?

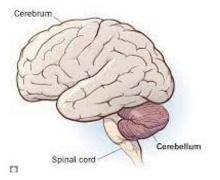


Protection against infection and inflammation





Promotes tissue growth



Facilitates intestinal maturation

Laxative



Early matters

Physiological – effect of the golden hour



What if separated?



Why early?

More milk

Expressing within 1 hour = 613 ml/d at week 3 of life

Expressing within 6 hours = 267 ml/d at week 3 of life

Parker et al, J. Perinatol. 2012

Better maternal physical and mental health

More breast-feeding at discharge

35% vs 62%

Parker et al, *The FASEB Journal* 2017

Safe for ALL babies

Snyder et al, Pediatr Neonatol. 2017

Does extremely early expression of colostrum after very preterm birth improve mother's own milk quantity? A cohort study

Ilana Levene , ¹ Maria A Quigley, ¹ Mary Fewtrell, ² Frances O'Brien ³

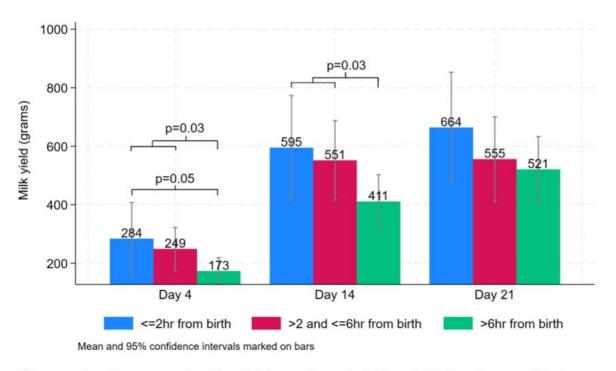
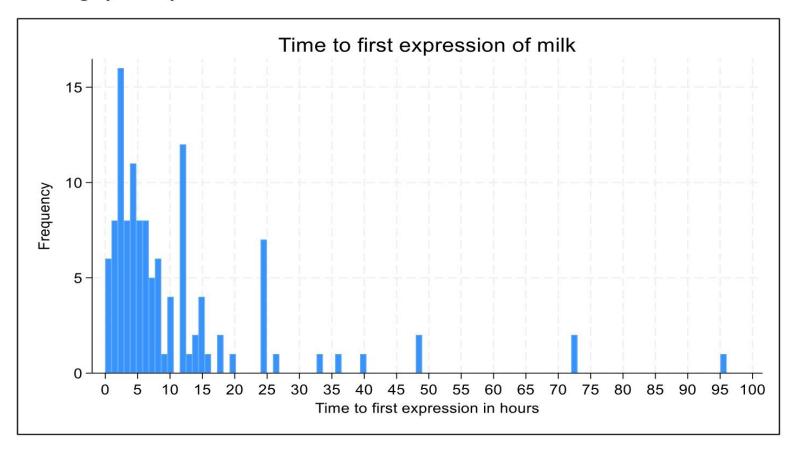


Figure 1 Expressed milk yield on days 4, 14 and 21 by time to first expression after birth.

Does extremely early expression of colostrum after very preterm birth improve mother's own milk quantity? A cohort study

Ilana Levene , ¹ Maria A Quigley, ¹ Mary Fewtrell, ² Frances O'Brien ³



Authorities

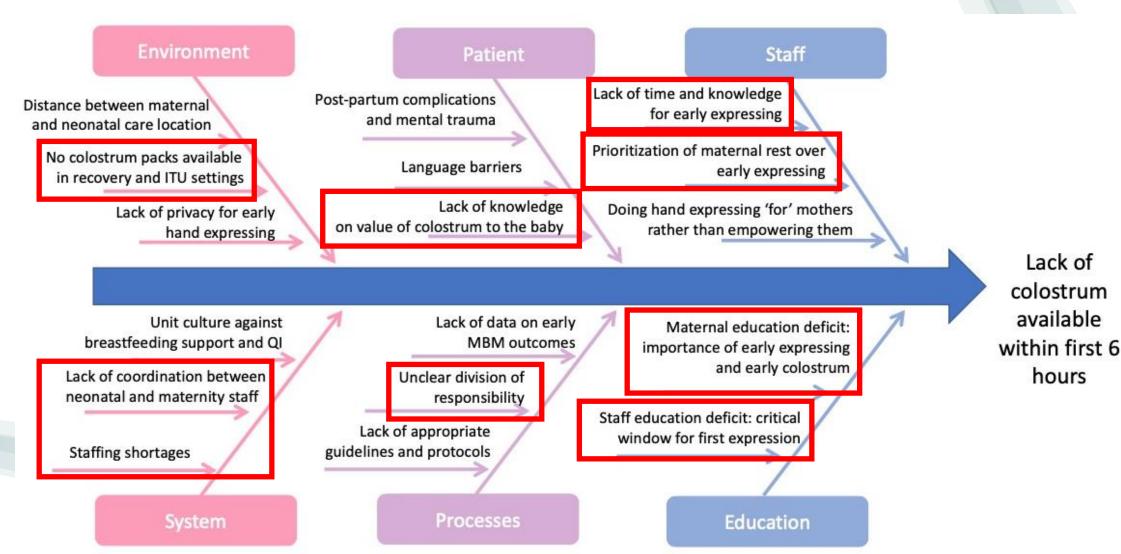
BAPM Toolkit



BFI Standards



Phase 1 – Do I want to know?



Phase 1 − Do I want to know?

Audit Jan 2021

Late administration & poor documentation

| Colostrum characteristics | Hours from delivery Median (IQR) |
|------------------------------------|-------------------------------------|
| Mum first shown how to express | 10.5 (6.0 – 17.4) |
| Mum first hand - expressed | 10.5 (6.9 – 17.4) |
| First colostrum at hand expressing | 26.0 (17.4 – 45.9) |
| First colostrum administration | _ |

Phase 2 - A shared purpose

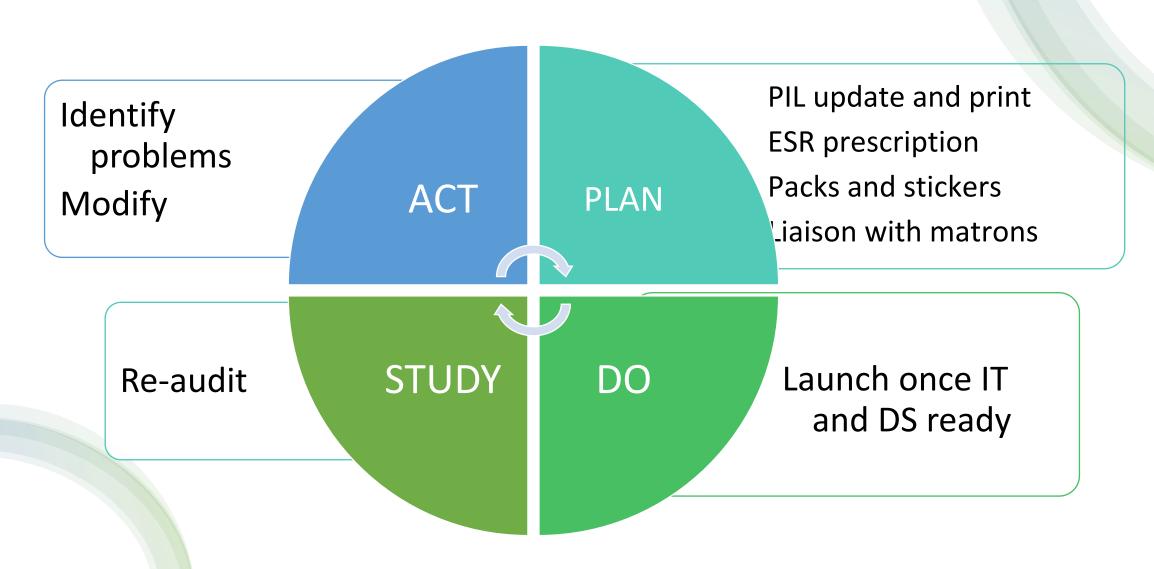
QIP team - monthly meetings

Barriers and facilitators
Teaming up with DS

- 1. Education
- 2. Colostrum packs and updated PIL
- 3. Prescription



Phase 3 - Planning and implementation



COUNSELLING before birth where possible, ASAP after if not

'DO'

As soon as expressed

Colostrum

pack &

leaflet

Show and express

Badger

Straight to baby



Expect minimal amounts

DO NOT refrigerate





NEWCASTLE HOSPITALS NEONATAL UNIT

PROVIDING COLOSTRUM FOR YOUR BABY

What is Colostrum?

Colostrum is the first milk your body makes. Acting 'like a medicine' it can help their immune system, gut and brain and protect from infection. It starts to work as soon as it is given. Even very small, sick or early babies can have colostrum as soon as they are born. We will show you how to express it. Your colostrum is unique, made by you especially for your baby's needs and expressing it can help you feel close to them. The earlier you express the sooner your baby can have colostrum and the more milk your body will make overall. Ideally express within 2 hours after birth. At first you will produce very small amounts – every drop is precious and will help your baby.



How to express Colostrum

Being close to your baby can help expressing or look at a photograph or inhale their scent. Skin-toskin contact will help – ask your nurse about this.

Scan the QR code: you will be taken to a video showing you how to hand express colostrum (watch from 31 seconds)





Credit: Unicef UK Baby Friendly Initiative Hand expression - YouTube

How to express Colostrum - Step by Step Guide

- · Gently massage the breast and stimulate the nipple.
- · Have the little purple syringe to hand.
- Make a C shape with your hand and place your thumb and forefinger 2-3 cm behind your nipple.
- Gently squeeze and release. Press back while doing this if you can and try not to slide your fingers along the breast. Compress and release – it shouldn't hurt.
- Repeat and build up a rhythm. A few drops may appear if not re position your fingers and do
 it again it often it takes a little while.
- Drops will appear and this will increase over time. Once this stops, rotate your fingers around the breast so that every part of the breast is expressed.
- · Do both breasts each time.
- LABEL the syringe and buzz the midwife and ask them to take the milk to Neonatal unit, if your baby is there, or help you give it if you have your baby with you
- Aim to hand express colostrum 8-10 times in 24 hours.
- Even if you get nothing or the tiniest drop please continue to massage and express every 2-3 hours – it will come.









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Effects of cooling and freezing storage on the stability of bioactive factors in human colostrum

C. Ramírez-Santana,*† F. J. Pérez-Cano,* C. Audí,* M. Castell,* M. G. Moretones,‡ M. C. López-Sabater,†§

C. Castellote,*† and A. Franch*†1

*Department of Physiology, Faculty of Pharmacy, University of Barcelona, Av. Joan XXIII s/n, 08028 Barcelona, Spain †CIBER Epidemiología y Salud Pública (CIBERESP), C/ Dr. Aiguader, 88, 1a planta, 08003 Barcelona, Spain ‡Servei de Neonatologia, ICGON, Agrupació Sanitària Hospital Clínic-Hospital Sant Joan de Déu, Universitat de Barcelona, C. Sabino Arana, 1, 08028 Barcelona, Spain §Department of Nutrition and Food Sciences, Faculty of Pharmacy, University of Barcelona, Av. Joan XXIII s/n, 08028 Barcelona, Spain

Cooling > Freezing > Thawing

Some immunocomponents are very labile (IgA, IL-10...)

'STUDY'

| Infant characteristics | Jan '21 - Feb '21 | Nov '21- Feb '22 |
|-------------------------------------|--------------------|-------------------|
| Gestation, Median (IQR), (weeks) | 30.6 (28.1 – 33.0) | 30.9 (27.7 -32.7) |
| Birth weight, Median (IQR), (grams) | 1495 (1135–1910) | 1265 (765 – 1470) |

| Colostrum characteristics | Hours from delivery | Hours from delivery |
|------------------------------------|----------------------------|----------------------------|
| | Median (IQR) | Median (IQR) |
| Mum first shown how to express | 10.5 (6.0 – 17.4) | 4.5 (2.5 – 7.4) |
| Mum first hand - expressed | 10.5 (6.9 – 17.4) | 3.6(2.1-6.3) |
| First colostrum at hand expressing | 26.0 (17.4 – 45.9) | 6.0 (2.9 – 23.8) |
| First colostrum administration | - | 12.6 (4.8 – 41.5) |

First results vs. BAPM recommendations

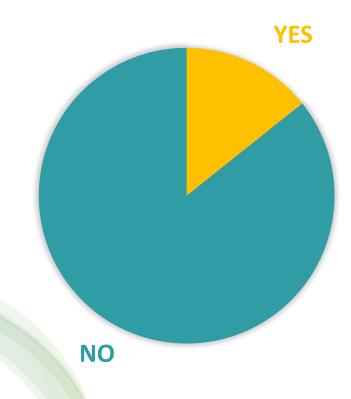
1/8 mothers was shown & hand expressed within 2 hours after delivery 4/14 mothers were shown & hand expressed within 2 hours after delivery

0/8 mothers expressed colostrum within 6 hours 6 /14 mothers expressed colostrum within 6 hours

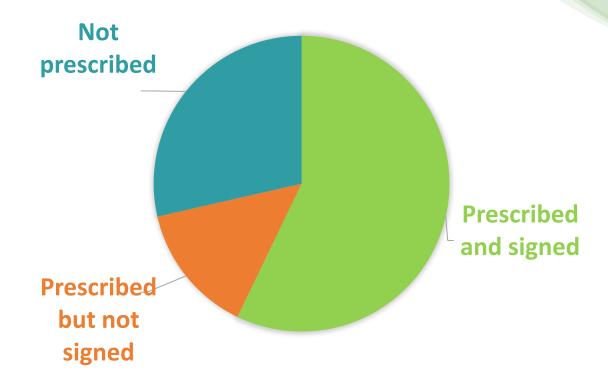
3/8 mothers expressed colostrum within 24 hours
11/14 mothers expressed colostrum within 24 hours

'STUDY' - process measures

COLOSTRUM LABEL USE



E-RECORD PRESCRIPTION



'ACT'

Changes: labels for baby notes

Improvements: more talks

friends in Delivery Suite

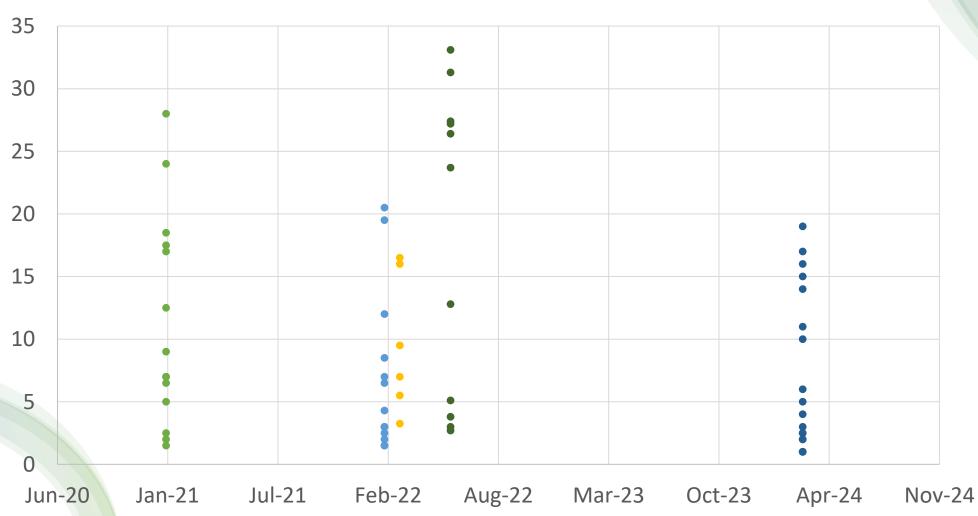
Spread the packs: antenatal ward, resuscitaires, transport bag



More packs!

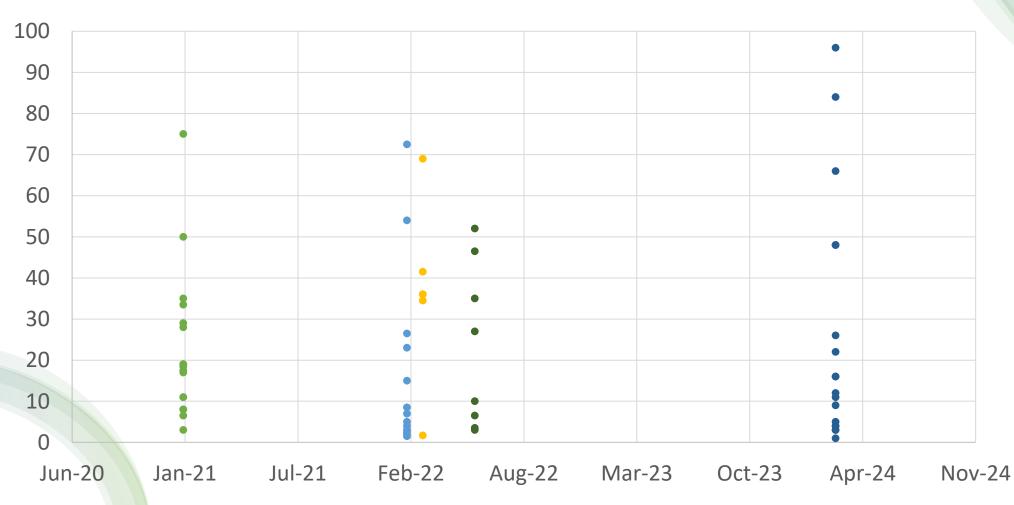
Phase 4 – Test your improvements regularly

First hand expressing

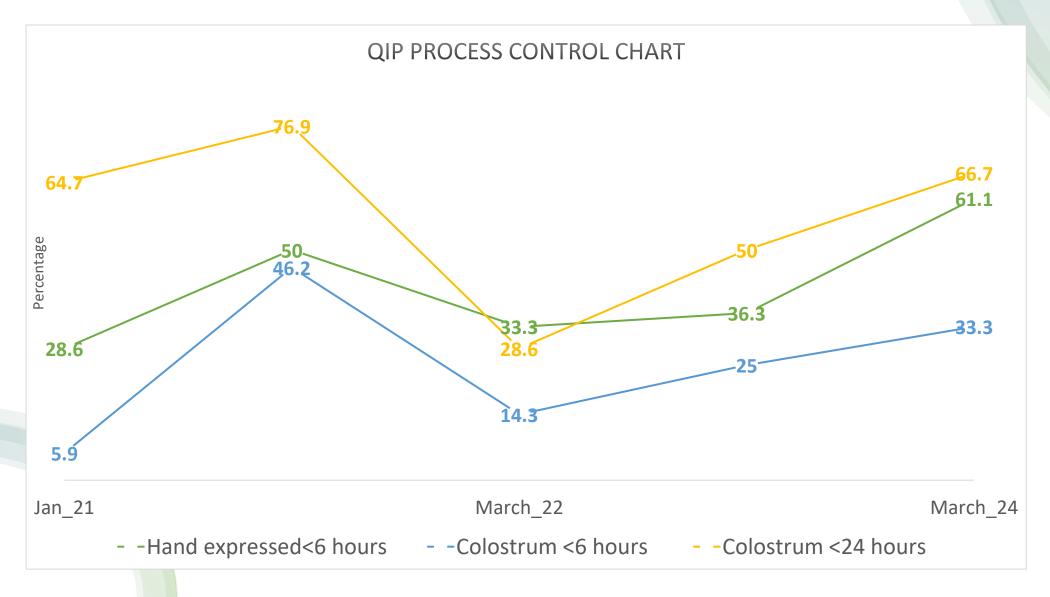


Phase 4 – Test your improvements regularly

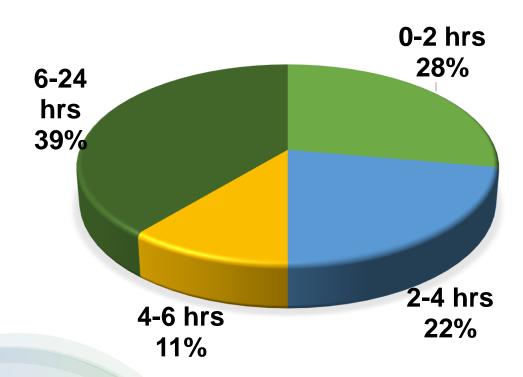
First colostrum administration



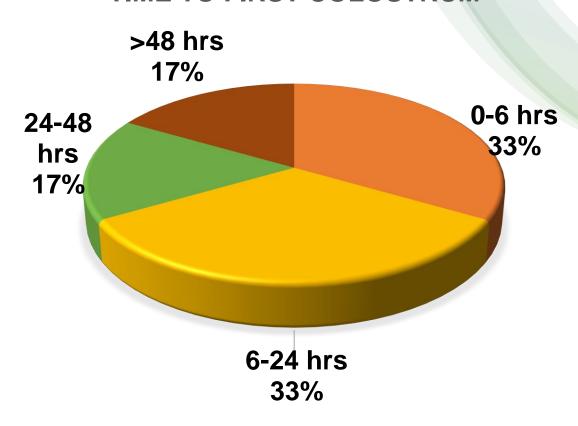
Phase 4 – Test your improvements regularly



Audit 2024 TIME TO FIRST EXPRESSION



TIME TO FIRST COLOSTRUM



Audit 2024- issues to address

 Mums expressing but due to various reasons no colostrum obtained for several hours/days

No indication of time colostrum was obtained

 Potential issue of delayed documentation as now using Badger rather than paper charts

Sustainability

Re-audit

Ups and downs

Keep going



https://www.nornet.org.uk/files/pdf/nencpreterm-birth-guideline-v6-19-sept-2023.pdf

Thank you!

k.chmelova@nhs.net
Maria.douglass@nhs.net

@KristinaChmelo2



National Patient Safety Improvement Programmes

Maternity and Neonatal

Force Field Analysis

Julia Wood MatNeoSIP Lead



@NatPatSIP / @MatNeoSIP

Delivered by:

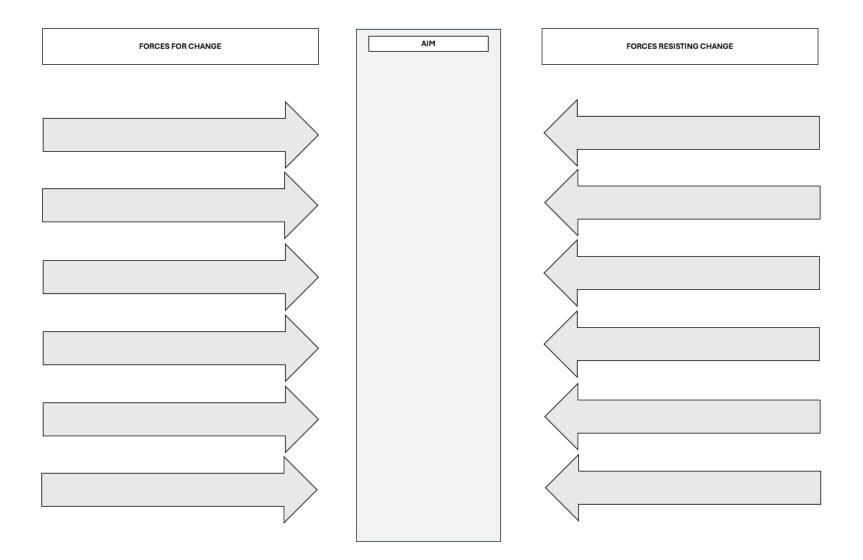
The AHSN Network
North East and North
Cumbria Patient Safety
Collaborative

www.improvement.nhs.uk

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- > How can you capitalise on what is working well?
- > How can you overcome or reduce the impact of your restraining forces?



