

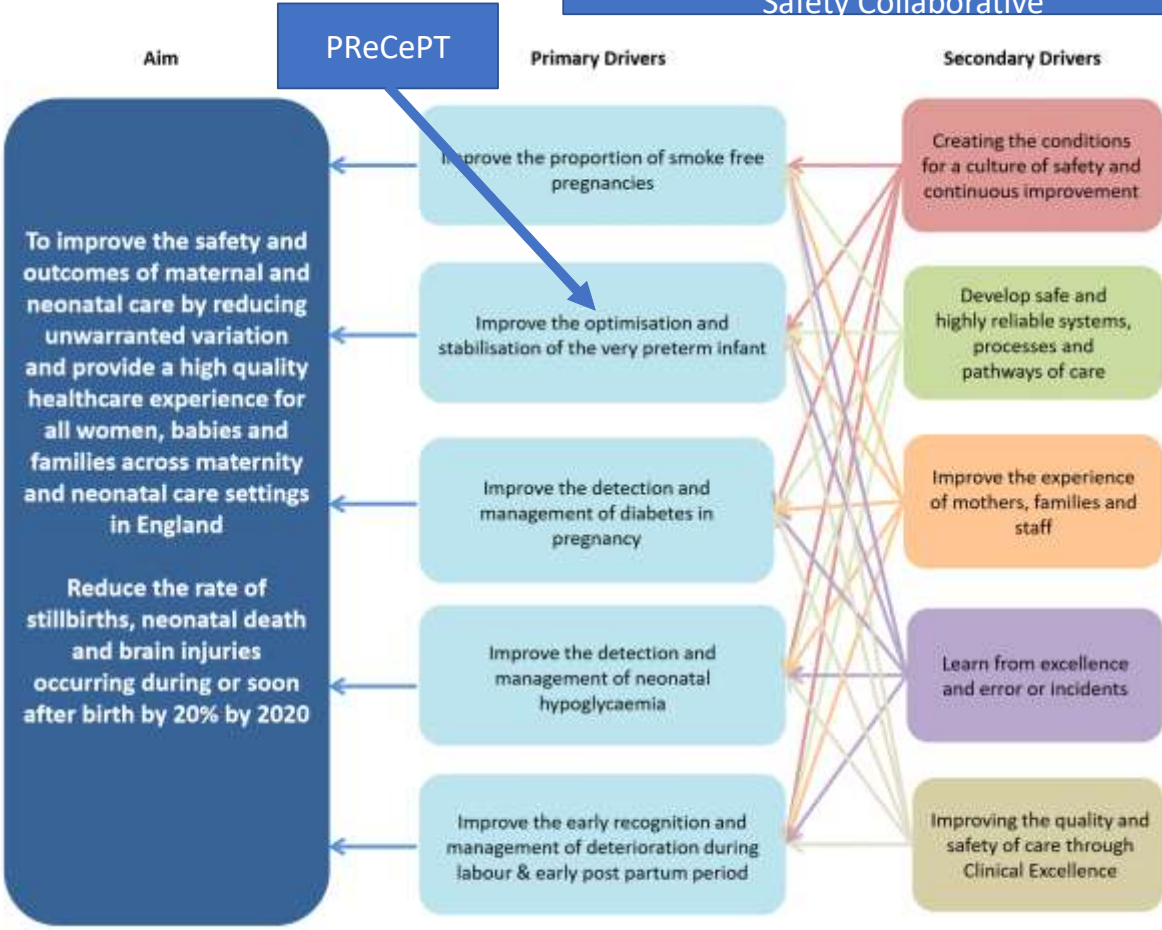


Prevention of Cerebral Palsy in Pre-Term Labour (PReCePT)

**Update December 2018
(NENC – Safety event)**



National Maternity and Neonatal Health Safety Collaborative





What have we done so far?

- Regional neonatal, midwife, obstetric & AHSN team
- 6 month retrospective audit (Jan-June)
- All units have named neonatal, midwife & obstetric lead
- “Get ready” event (September)
- Site visits & telephone calls



What have we done so far?

- Regional guideline (draft)
- Commenced monthly reporting
 - Training
 - Exception reports



What have we learnt so far?

- Monthly audit returns:

Month	Staff trained	Eligible Births	Missed Cases	Compliance
NNAP (2016)	n/a	195	51 not given 81 missing	32%
Retrospective (Jan-June)	n/a	116	33 total 13 wrong 20 not given	72% (recorded) 83% (actual)
September	48	18	5	72%
October	+87 = 135	18	2	89%
November		21	9	57%



What have we learnt so far?

- Retrospective audit:
 - Data accuracy
 - Speedy labours
 - Elective deliveries
 - Special cases (bleeding, sepsis, maternal/fetal conditions)



What have we learnt so far?

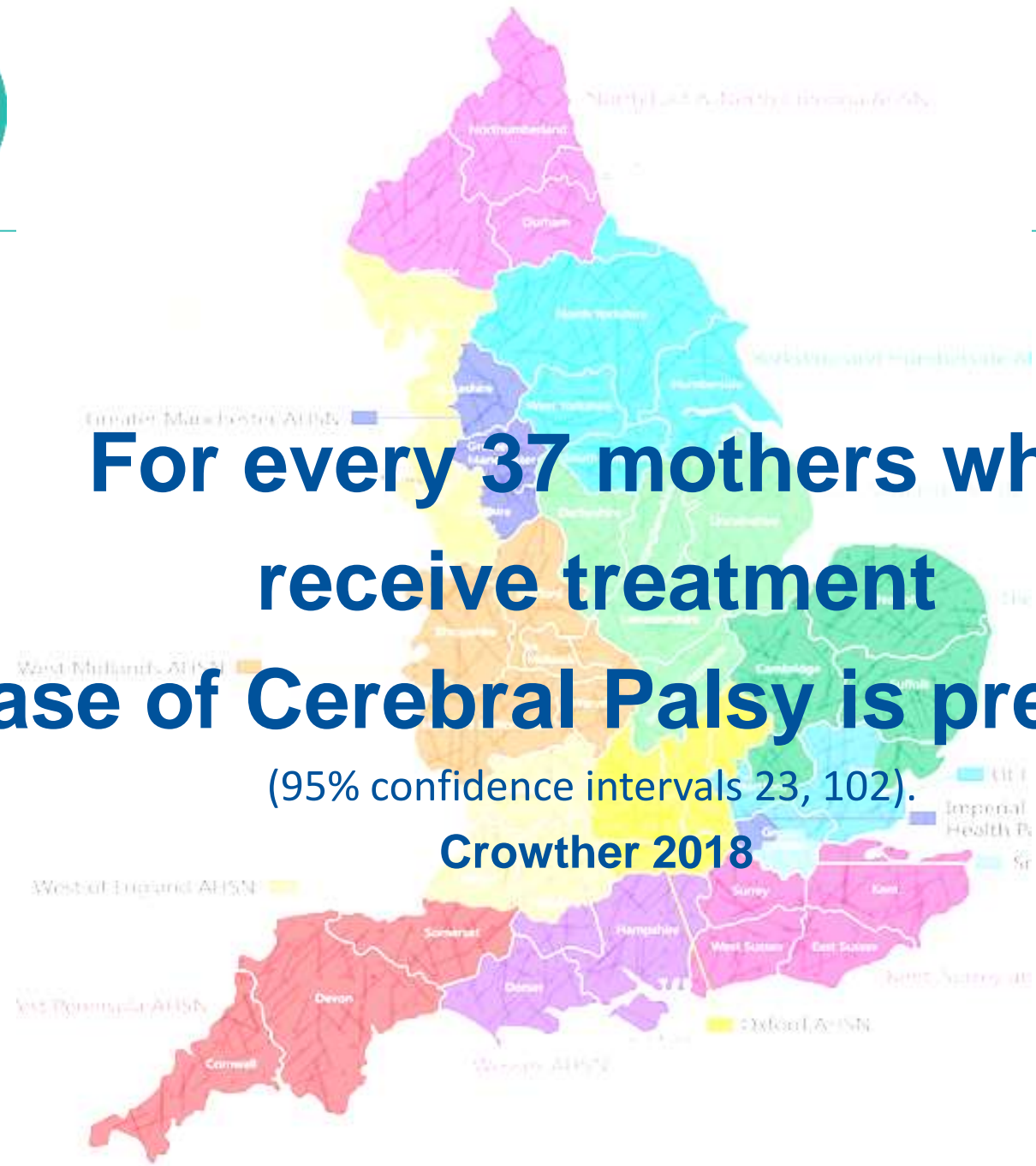
- September audits:
 - 5 in total did not receive MgSO₄
 - 4 delivered quickly (7, 16, 27, 35 minutes)
 - 1 was not offered it
- October audits:
 - 2 in total did not receive MgSO₄
 - 1 delivered after 38 minutes
 - 1 delivered after 11 & 19 minutes (twins)



**For every 37 mothers who
receive treatment
1 case of Cerebral Palsy is prevented**

(95% confidence intervals 23, 102).

Crowther 2018





PReCePT DRIVER DIAGRAM

Primary Drivers:

System components which will contribute to moving the aim

Secondary Drivers:

Elements of the associated primary driver.

They can be used to create projects or change packages that will affect the primary driver

Aims / Primary

Outcome:
To increase the numbers of eligible women offered Magnesium Sulphate to prevent cerebral palsy in preterm babies from 43% to 86% (to match antenatal steroid uptake) between 2018 and 2020.

Measures:

Aim Measure:

Primary Driver - Outcome Measure (s):
MgSO₄ Uptake

Secondary Drivers - Process measure(s):

Awareness Raising

- PReCePT Champions in each site.
- Awareness raising communication pack including marketing material, video, infographics, etc.
- Patient stories and patient leadership
- Executive sponsorship

Knowledge Mobilisation

- Staff training
- Staff and patient leaflets
- Posters
- Collective learning via IHI breakthrough collaborative series
- Improvement knowledge capture in place

Operational / System Enablers

- Care pathway developed
- Clinical decision tool in use
- Local policies refreshed
- PreCePT 'How To' pack in use by local champions

Behaviour Change – embedding knowledge into practice.

- Staff confidence
- Central coaching of PReCePT champions
- Culture and leadership
- PReCePT 'nudges' pack (magnets, stickers, lanyards with quick reference cards etc)
- PReCePT community or practice for peer-to-peer support in place.
- Visual data management in place of number of days between missed doses (from BadgerNET unit dashboard).




Life QI

A quality improvement platform for health and social care, used globally and developed with NHS


- All project documents in one place – create driver diagrams, conduct PDSA cycles & view run charts
- Facilitates collaboration & discussion
- Can be used for QI at any scale
- Provides reporting & analytics
- Secure space for QI data




Parent leaflets & posters



Having a baby before 30 weeks: magnesium sulphate as protection against cerebral palsy



Prevention of Cerebral Palsy in PreTerm Labour



PreCePT

Preterm births are increasing
More premature babies than ever before are surviving, but the number with cerebral palsy continues to increase

Cerebral palsy affects around 1 in every 400 babies*
nationally this was approximately 1,937 babies in 2016

Just under half are born prematurely.

1 in 3 unable to walk	1 in 4 unable to talk	1 in 4 has epilepsy	3 in 4 experience pain	1 in 2 has intellectual impairment
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[MgSO₄]

Magnesium Sulphate

Proven to be effective at reducing risk of developing cerebral palsy in babies born before 30 weeks

By around 50%

Offers neuroprotection reducing the risk of harm to a baby's brain

From £1.00 per treatment

If we treated all mothers of at-risk babies, we could prevent 223 babies per year from developing cerebral palsy in England

On average only 43% of eligible mothers received MgSO₄ in 2016

*There is a lot of variation regionally, nationally and internationally (driven by definitional issues, particularly at the less complex end of the condition, and genuine differences in underlying epidemiology).

Declaration: The Precept programme is funded by The Health Foundation in collaboration with the West of England A&SN, United Hospitals Bristol NHS Foundation Trust and NHR CLARHC West.



Our mission

- To give every eligible mother in preterm labour the choice
- To enable every baby to reach their full potential



Look out for monthly
PReCePT performance monitoring
dashboards





Sharing Great Ideas!

- Posters
- Notes sticker (neonatal notes)
- SIM training
- Training booklet
- Alert on MIS
- Staff governance/training days
- Letter to all staff



Any Questions?