



Every Newborn Action Plan Metrics

Linked with

Ending Preventable Maternal Mortality

Update on ENAP metrics research for facility indicators for Antenatal Corticosteroids coverage, quality and safety

James A Litch MD, DTMH
On behalf of ENAP metrics ACS working group
at Windsor Workshop and LSHTM team

ACS TWG Meeting, 14 June 2016







Every Newborn measurement improvement roadmap Multi partner 5 year plan

Metrics testing and use in countries

Metrics testing and accountability

for programme improvement and accountability



Moxon et al. BMC Pregnancy and Childbirth 2015, 15(Suppl 2):58

BMC Brognangy & Childhigh

DESEADON

Count every newborn; a measurement improvement roadmap for coverage data

Sarah G Moxon ^{1,2,3}, Harriet Ruysen ^{1,2}, Kate J Kerber³, Agbessi Amouzou⁴, Suzarne Fournier⁵, John G ¹ Allisyn C Moran⁷, Lara Mc Yaz³, Hannah Blencowe ^{1,2,3}, Niali Corroy^{1,8}, A Metin Gülmezoglu³, Joshua Barbara Rawlind⁵, Rubayet Sagrid⁴, Kathleen Hill², Donna Vivio^{1,8}, Shamim A Qaz³, Deborah Strim Anna C Seale ¹⁵, Steve Wall³, Troy Jacobs ³, Juan Gabriel Ruiz Peldez ^{16,17,18}, Tanya Guenther³, Patriciz Penny Dawson⁶, Tanya Marchant ^{1,2,3} Peter Waiswa^{2,12,3}, Ashok Deoraria², Chifsabel Enweronu-Laye Shams B Arifern⁶, Anne C CLee², Matthews Mathal^{1,4}, Joy E Lawn^{2,23}





DEFINE

Scope ENAP metrics definitions, research gaps (including WHO meeting Dec 2014)

Sep 2014-May 2015

PLAN

Refine Roadmap, assess current work, consult, etc

June- Dec 2015

TEST VALIDITY

Test indicators and tools in various data platforms (CVRS, audit facility HMIS, surveys) Windsor meeting April 2016

Jan 2016- Dec 2018

TEST FEASIBILITY

Wide use in countries, linking data sources. testing E-health-based min perinatal dataset

Jan 2019- Dec 2020

World Health Organization

ENAP Milestones regarding measurement

- Count births and deaths in CVRS (women, newborns and stillbirths)
- ENAP core indicators to be defined, incorporated in national metrics platforms and used
- Perinatal mortality audit and minimum perinatal dataset being widely used in countries

2030

End
Preventable
Maternal
and
Newborn
Deaths
including
Stillbirths

2020

Effective use of data in national health information systems to improve coverage, quality and equity

Indicators to track Every Newborn Action Plan

Current Status		Core ENAP Indicators	Additional indicators
Definitions clear but quantity and consistency of data lacking	Impact	 Maternal mortality ratio Stillbirth rate Neonatal mortality rate 	Intrapartum stillbirth rate Low birth weight rate Preterm birth rate Small for gestational age Neonatal morbidity rates Disability after neonatal conditions
Contact point definitions clear but data on content of care are lacking	Coverage: Care for All Mothers and Newborns	4. Skilled attendant at birth5. Early postnatal care for mothers & babies6. Essential newborn care (tracer is early breastfeeding)	Antenatal Care Exclusive breastfeeding up to 6 months
Gaps in definitions, and requiring validation and feasibility testing for HMIS use	Coverage: Complications and extra care Input: Service Delivery Packages for	7. Antenatal corticosteroid use 8. Neonatal resuscitation 9. Kangaroo mother care 10. Treatment of serious neonatal infections Emergency Obstetric Care Care of Small and Sick Newborns Every Mother Every Newborn Quality Initiative standards	Caesarean section rate Chlorhexidine cord cleansing e with measurable norms and
	Quality of Care Counting:	Birth Registration	Death registration, cause of death

Combined indicator table for EPMM and ENAP

1. Maternal mortality ratio 2. Maternal cause of death (direct/indirect) based on ICD-MM (direct/indirect) based on ICD-MM (direct/indirect) based on ICD-MM (dittional: Intrapartum stillbirth rate 3. Adolescent birth rate 3. Adolescent birth rate 4. Four or more antenatal care visits 6. Small for gestational age 9. Neonatal morbidity rates 9. Disability after neonatal conditions COVERAGE care for all women 4. Four or more antenatal care visits 6. Institutional Delivery Additional: Respectful maternity care 7. Early postnatal for woman and bably (2 a days of birth) 6. Institutional Delivery Additional: Content of PNC 8. Met need for family planning 9. Uterotonic immediately after birth (among facility births) 6. Essential newborn care (tracer is early breastfeeding) Additional: Exclusive breastfeeding up to 6 months COVERAGE care for women and newborns with complications 10. Caesarean section rate Additional: Met need for EmONC INPUTS 11. Maternal death registration Additional: Death Registration, cause of death 12. Availability of 12. Availability of functional EmONC facilities * Emergency Obstetric Care and Care of small and sick newborns		EPMM	ENAP			
(direct/indirect) based on ICD-MM Additional: intrapartum stillbirth rate 3. Adolescent birth rate 3. Adolescent birth rate 4. Four or more antenatal care visits Additional: or the return birth rate 5. Skilled attendant at 16 Pix Additional Indicator: Content of ANC 5. Skilled attendant at 16 Pix Additional Indicator: Content of ANC 6. Institutional Delivery Additional: Respectful maternity care 7. Early postnatal for woman and baby (< 2 days of birth) 8. Met need for family planning 9. Uterotonic immediately after birth (among facility births) 6. Essential newborn care (tracer is early breastfeeding) Additional: Exclusive breastfeeding up to 6 months COVERAGE care for women and newborns with complications 10. Caesarean section rate Additional: Met need for EmONC INPUTS 11. Maternal death registration Additional: Death Registration, cause of death * Emergency Obstetric Care and Care of small and sick newborns	IMPACT					
Additional: Intrapartum stillbirth rate 3. Adolescent birth rate 3. Adolescent birth rate 4. Neonatal mortality rate 9. Preterm birth rate 1. Small for gestational age 1. Neonatal morbidity rates 9. Disability after neonatal conditions 1. Saliditional: Content of ANC 4. Skilled attendant at birth 6. Institutional Delivery Additional: Respectful maternity care 7. Early postnatal for woman and baby (< 2 days of birth) Additional: Content of PNC 8. Met need for family planning 9. Uterotonic immediately after birth (among facility births) 6. Essential newborn care (tracer is early breastfeeding) Additional: Exclusive breastfeeding up to 6 months 7. Antenatal corticosteroid use 8. Newborn resuscitation 9. Kangaroo mother care, feeding support 10. Caesarean section rate Additional: Chlorhexidine cord cleansing Additional: Chlorhexidine cord cleansing Additional: Chlorhexidine cord cleansing Additional: Caesarean section rate Additional: Death Registration, cause of death * Emergency Obstetric Care and Care of small and sick newborns		preventable maternal	2. 3(111011 (111 1 d))			
Additional: Preterm birth rate Small for gestational age Neonatal morbidity rates Disability after neonatal conditions Additional: Content of ANC 5.5kiilled attendant at birth 6.Institutional Delivery Additional: Respectful maternity care 7. Early postnatal for woman and baby (< 2 days of birth) 5.Early postnatal care for women and babies Additional: Content of PNC 8. Met need for family planning 9. Uterotonic immediately after birth (among facility births) 6.Essential newborn care (tracer is early breastfeeding) Additional: Exclusive breastfeeding up to 6 months COVERAGE Care for women and newborns with complications 10. Treatment of serious neonatal infections Additional: Chlorhexidine cord cleansing Additional: Chlorhexidine cord cleansing Additional: Caesarean section rate Additional: Met need for EmONC INPUTS 11. Maternal death registration Additional: Death Registration, cause of death Preterm birth rate Preterm birth rate Nomatical age Neonatal morbidity rates Disability after neonatal conditions Additional infections Additional: Chlorhexidine cord cleansing Additional: Death Registration, cause of death Emergency Obstetric Care and Care of small and sick newborns		(direct/indirect) based on ICD-IVIIVI	Additional: Intrapartum stillbirth rate			
COVERAGE care for all women 4. Four or more antenatal care visits Additional: Content of ANC 5. Skilled attendant at birth 6. Institutional Delivery Additional: Respectful maternity care 7. Early postnatal for woman and baby (< 2 days of birth) 4. Skilled attendant at birth 6. Sarry postnatal care for women and bable 7. Early postnatal for woman and baby (< 2 days of birth) 8. Met need for family planning 9. Uterotonic immediately after birth (among facility births) 6. Essential newborn care (tracer is early breastfeeding) 6. Essential newborn care (tracer is early breastfeeding) 6. Essential newborn care (tracer is early breastfeeding) 8. Newborn resuscitation 9. Kangaroo mother care, feeding support 10. Treatment of serious neonatal infections additional: Chlorhexidine cord cleansing 8. Additional: Chlorhexidine cord cleansing 8. Additional: Chlorhexidine cord cleansing 8. Newborn resuscitation 9. Kangaroo mother care, feeding support 10. Treatment of serious neonatal infections 8. Additional: Chlorhexidine cord cleansing 8. Additional: Death Registration additional: Death Registration, cause of death 8. Emergency Obstetric Care and Care of small and sick newborns 8. Emergency Obstetric Care and Care of small and sick newborns		3. Adolescent birth rate				
Small for gestational age Neonatal morbidity rates Disability after neonatal conditions COVERAGE care for all women S.Skilled attendant at birth S.Skilled attendant at birth S.Skilled attendant at birth Additional: Content of ANC S.Skilled attendant at birth Additional: Respectful maternity care 7. Early postnatal for woman and baby (< 2 days of birth) Additional: Content of PNC S. Met need for family planning 9. Uterotonic immediately after birth (among facility births) Additional: Exclusive breastfeeding up to 6 months COVERAGE care for women and newborns with complications 10. Caesarean section rate Additional: Met need for EmONC INPUTS 11. Maternal death registration Additional: Death Registration, cause of death * Emergency Obstetric Care and Care of small and sick newborns * Emergency Obstetric Care and Care of small and sick newborns * Emergency Obstetric Care and Care of small and sick newborns * Emergency Obstetric Care and Care of small and sick newborns * Emergency Obstetric Care and Care of small and sick newborns * Emergency Obstetric Care and Care of small and sick newborns						
COVERAGE care for all women 4. Four or more antenatal care visits Additional: Content of ANC 5. Skilled attendant at birth 6. Institutional Delivery Additional: Pespectful maternity care 7. Early postnatal for woman and baby (< 2 days of birth) Additional: Content of PNC 8. Met need for family planning 9. Uterotonic immediately after birth (among facility births) Additional: Exclusive breastfeeding up to 6 months COVERAGE care for women and newborns with complications 10. Caesarean section rate Additional: Met need for EmONC INPUTS 11. Maternal death registration Counting Availability of 12. Availability of functional EmONC facilities * Disability after neonatal conditions Disability after neonatal conditions Additional Indicator; Content of ANC Additional Indicator; Conte						
COVERAGE care for all women 4. Four or more antenatal care visits Additional: Content of ANC 5. Skilled attendant at birth 6. Institutional Delivery Additional: Respectful maternity care 7. Early postnatal for woman and baby (< 2 days of birth) Additional: Sespectful maternity care 7. Early postnatal for woman and baby (< 2 days of birth) Additional: Content of PNC 8. Met need for family planning 9. Uterotonic immediately after birth (among facility births) 6. Essential newborn care (tracer is early breastfeeding) Additional: Exclusive breastfeeding up to 6 months 7. Antenatal corticosteroid use 8. Newborn resuscitation 9. Kangaroo mother care, feeding support 10. Treatment of serious neonatal infections Additional: Chlorhexidine cord cleansing Additional: Chlorhexidine cord cleansing Additional: Ceasarean section rate Additional: Death Registration Additional: Death Registration, cause of death 11. Maternal death registration Additional: Death Registration, cause of feath Emergency Obstetric Care and Care of small and sick newborns		mility. And make				
Additional: Content of ANC 5.Skilled attendant at birth 6.Institutional Delivery Additional: Respectful maternity care 7. Early postnatal for woman and baby (< 2 days of birth) Additional: Content of PNC 8. Met need for family planning 9. Uterotonic immediately after birth (among facility births) 6.Essential newborn care (tracer is early breastfeeding) Additional: Exclusive breastfeeding up to 6 months COVERAGE care for women and newborns with complications 10. Caesarean section rate Additional: Met need for EmONC INPUTS 11. Maternal death registration Counting Availability of 12. Availability of functional EmONC facilities * Emergency Obstetric Care and Care of small and sick newborns * Emergency Obstetric Care and Care of small and sick newborns						
Additional: Content of ANC S.Skilled attendant at birth 6.Institutional Delivery Additional: Respectful maternity care 7. Early postnatal for woman and baby (< 2 days of birth) Additional: Content of PNC 8. Met need for family planning 9. Uterotonic immediately after birth (among facility births) COVERAGE care for women and newborns with complications 10. Caesarean section rate Additional: Chlorhexidine cord cleansing additional: Exclusive deastration Additional: Chlorhexidine cord cleansing Additional: Death Registration, cause of death Birth registration Additional: Death Registration, cause of small and sick newborns Emergency Obstetric Care and Care of small and sick newborns	COVERAGE	4. Four or more antenatal care visits				
S.Skilled attendant at birth 6.Institutional Delivery Additional: Respectful maternity care 7. Early postnatal for woman and baby (< 2 days of birth) Additional: Content of PNC 8. Met need for family planning 9. Uterotonic immediately after birth (among facility births) Additional: Exclusive breastfeeding up to 6 months COVERAGE care for women and newborns with complications 10. Caesarean section rate Additional: Met need for EmONC INPUTS Counting Availability of 12. Availability of functional EmONC facilities 5. Exrluy postnatal care for women and babies 6. Essential newborn care (tracer is early breastfeeding) Additional: Exclusive breastfeeding up to 6 months 7. Antenatal corticosteroid use 8. Newborn resuscitation 9. Kangaroo mother care, feeding support 10. Treatment of serious neonatal infections Additional: Caesarean section rate Additional: Caesarean section rate Birth registration Additional: Death Registration, cause of death • Emergency Obstetric Care and Care of small and sick newborns		Additional: Content of ANC Additional Indicator: Content of ANC				
Additional: Respectful maternity care 7. Early postnatal for woman and baby (< 2 days of birth) Additional: Content of PNC 8. Met need for family planning 9. Uterotonic immediately after birth (among facility births) Additional: Exclusive breastfeeding up to 6 months COVERAGE care for women and newborns with complications 10. Caesarean section rate Additional: Met need for EmONC INPUTS Counting Availability of 12. Availability of functional EmONC facilities Early postnatal care for women and babies Additional care (tracer is early breastfeeding) Additional: Exclusive breastfeeding up to 6 months 7. Antenatal corticosteroid use 8. Newborn resuscitation 9. Kangaroo mother care, feeding support 10. Treatment of serious neonatal infections Additional: Caesarean section rate Additional: Caesarean section rate Additional: Death Registration Additional: Death Registration, cause of death Emergency Obstetric Care and Care of small and sick newborns		5.Skilled attendant at birth	5.Skilled attendant at birth 4.Skilled attendant at birth			
7. Early postnatal for woman and baby (< 2 days of birth) Additional; Content of PNC 8. Met need for family planning 9. Uterotonic immediately after birth (among facility births) Additional: Exclusive breastfeeding up to 6 months 7. Antenatal corticosteroid use 8. Newborn resuscitation 9. Kangaroo mother care, feeding support 10. Treatment of serious neonatal infections Additional: Chlorhexidine cord cleansing 10. Caesarean section rate Additional: Caesarean section rate Additional: Caesarean section rate INPUTS 11. Maternal death registration Additional: Death Registration, cause of death • Emergency Obstetric Care and Care of small and sick newborns		•				
Additional : Content of PNC 8. Met need for family planning 9. Uterotonic immediately after birth (among facility births) Additional : Exclusive breastfeeding up to 6 months 7. Antenatal corticosteroid use 8. Newborn resuscitation 9. Kangaroo mother care, feeding support 10. Treatment of serious neonatal infections Additional : Chlorhexidine cord cleansing 10. Caesarean section rate Additional : Caesarean section rate Additional : Met need for EmONC INPUTS 11. Maternal death registration Additional : Death Registration, cause of death • Emergency Obstetric Care and Care of small and sick newborns		•				
8. Met need for family planning 9. Uterotonic immediately after birth (among facility births) 6. Essential newborn care (tracer is early breastfeeding) Additional: Exclusive breastfeeding up to 6 months 7. Antenatal corticosteroid use 8. Newborn resuscitation 9. Kangaroo mother care, feeding support 10. Treatment of serious neonatal infections Additional: Chlorhexidine cord cleansing 10. Caesarean section rate Additional: Caesarean section rate Additional: Met need for EmONC INPUTS 11. Maternal death registration Additional: Death Registration, cause of death 12. Availability of functional EmONC facilities 13. Exclusive breastfeeding up to 6 months 7. Antenatal corticosteroid use 8. Newborn resuscitation 9. Kangaroo mother care, feeding support 10. Treatment of serious neonatal infections Additional: Caesarean section rate Additional: Death Registration, cause of death 14. Availability of functional EmONC facilities 15. Emergency Obstetric Care and Care of small and sick newborns			5.Early postnatal care for women and babies			
9. Uterotonic immediately after birth (among facility births) 6. Essential newborn care (tracer is early breastfeeding) Additional: Exclusive breastfeeding up to 6 months 7. Antenatal corticosteroid use 8. Newborn resuscitation 9. Kangaroo mother care, feeding support 10. Treatment of serious neonatal infections Additional: Calesarean section rate Additional: Caesarean section rate Additional: Caesarean section rate Birth registration Additional: Death Registration, cause of death 12. Availability of functional EmONC facilities 8. Emergency Obstetric Care and Care of small and sick newborns		<u>Additional:</u> Content of PNC				
COVERAGE care for women and newborns with complications 10. Caesarean section rate Additional: Met need for EmONC INPUTS 11. Maternal death registration Additional: Death Registration, cause of death 12. Availability of 12. Availability of functional EmONC facilities 7. Antenatal corticosteroid use 8. Newborn resuscitation 9. Kangaroo mother care, feeding support 10. Treatment of serious neonatal infections Additional: Chlorhexidine cord cleansing Additional: Caesarean section rate Birth registration Additional: Death Registration, cause of death • Emergency Obstetric Care and Care of small and sick newborns		8. Met need for family planning				
7. Antenatal corticosteroid use 8. Newborn resuscitation 9. Kangaroo mother care, feeding support 10. Treatment of serious neonatal infections Additional: Chlorhexidine cord cleansing 10. Caesarean section rate Additional: Met need for EmONC INPUTS 11. Maternal death registration Additional: Death Registration, cause of death 12. Availability of functional EmONC facilities Provided the serious neonatal infections Additional: Chlorhexidine cord cleansing Additional: Caesarean section rate Birth registration Additional: Death Registration, cause of death		9. Uterotonic immediately after birth (among facility births)	6.Essential newborn care (tracer is early breastfeeding)			
as Newborn resuscitation 8. Newborn resuscitation 9. Kangaroo mother care, feeding support 10. Treatment of serious neonatal infections Additional: Chlorhexidine cord cleansing 10. Caesarean section rate Additional: Met need for EmONC INPUTS 11. Maternal death registration Additional: Death Registration, cause of death 12. Availability of functional EmONC facilities 13. Emergency Obstetric Care and Care of small and sick newborns		<u>Additional</u> : Exclusive breastfeeding up to 6 months				
women and newborns with complications 10. Treatment of serious neonatal infections Additional: Chlorhexidine cord cleansing 10. Caesarean section rate Additional: Caesarean section rate Additional: Caesarean section rate Solution and additional: Death Registration Additional: Death Registration, cause of death 12. Availability of functional EmONC facilities 13. Emergency Obstetric Care and Care of small and sick newborns	COVERAGE		7.Antenatal corticosteroid use			
newborns with complications 10. Caesarean section rate Additional: Chlorhexidine cord cleansing 10. Caesarean section rate Additional: Caesarean section rate Additional: Caesarean section rate Birth registration Additional: Death Registration, cause of death 12. Availability of functional EmONC facilities • Emergency Obstetric Care and Care of small and sick newborns	care for	8. Newborn resuscitation				
Additional: Chlorhexidine cord cleansing 10. Caesarean section rate Additional: Caesarean section rate Additional: Caesarean section rate Additional: Caesarean section rate Birth registration Additional: Death Registration, cause of death Availability of 12. Availability of functional EmONC facilities Emergency Obstetric Care and Care of small and sick newborns	women and		9.Kangaroo mother care, feeding support			
TO. Caesarean section rate Additional: Caesarean section rate Additional: Met need for EmONC Birth registration Additional: Death Registration, cause of death Counting Availability of 12. Availability of functional EmONC facilities • Emergency Obstetric Care and Care of small and sick newborns	newborns with		10.Treatment of serious neonatal infections			
10. Caesarean section rate Additional: Caesarean section rate Additional: Caesarean section rate Additional: Met need for EmONC 11. Maternal death registration Additional: Death Registration, cause of death Counting Availability of 12. Availability of functional EmONC facilities • Emergency Obstetric Care and Care of small and sick newborns	complications		<u>Additional:</u> Chlorhexidine cord cleansing			
INPUTS 11. Maternal death registration Additional: Death Registration, cause of death 12. Availability of functional EmONC facilities • Emergency Obstetric Care and Care of small and sick newborns	Complications	10. Caesarean section rate	Additional: Caesarean section rate			
Additional: Death Registration, cause of death Additional: Death Registration, cause of death Availability of 12. Availability of functional EmONC facilities • Emergency Obstetric Care and Care of small and sick newborns		<u>Additional</u> : Met need for EmONC				
Additional: Death Registration, cause of death Availability of 12. Availability of functional EmONC facilities • Emergency Obstetric Care and Care of small and sick newborns	INPUTS	11. Maternal death registration	Birth registration			
Availability of 12. Availability of functional EmONC facilities • Emergency Obstetric Care and Care of small and sick newborns		11. Waterial death registration	<u>Additional</u> : Death Registration, cause of death			
5 Sam Mathe 5 Sam Neuham Coellin In Mathematica and Control and Co						
• Every Mother Every Newborn Quality Initiative, measurable norms & standards		• Emergency Obstetric Care and Care of small and sick newborns • Every Mother Every Newborn Quality Initiative, measurable norms & stan				

Summary = ~60% match

Overall aim of this research

Test selected ENAP & EPMM coverage indicators to assess the validity of routine health facility-level recording

To assess selected prioritised research questions regarding coverage content, quality, or safety for these interventions.

Some/all indicators will be later tested for **feasibility** in subnational and national programmes. In many countries likely to be linked to DHIS2, hence linking from the start)

Vision in 3 years: to have results to inform use (or not!) of these indicators in wider scale HMIS and plans for feasibility testing

Which indicators to evaluate?

TTTTCTTTTCCCCCCCCCCCCCCCCCCCCCCCCCCCCC				
	Numerator	Denominator		
Uterotonic use for 3 rd stage	Number of women who received a uterotonic immediately after birth	Live births (theoretically better as total births)		
Antenatal corticosteroid (ACS) use	All women giving birth in facility <34 weeks who received one dose of ACS	Denominator = shared challenge!! Target population for		
Newborn Resuscitation	Number of newborns who were not breathing spontaneously/crying at birth for whom resuscitation actions (stimulation and/or bag and mask) were initiated	coverage for that specific intervention: e.g. neonates "needing" resuscitation Other options		
Kangaroo Mother Care (KMC)	Number of newborns initiated on facility based KMC	a) Live births in facilityb) Total births in facility		
Treatment of Serious Neonatal Infection	Number of newborns that received at least one dose of antibiotic injection for PSBI in the facility	(including stillbirths) c) Estimated births in the whole population		

Testing validity of routine measurement for coverage data HOW?

Test VALIDITY in FACILITIES:

Trained observers in labour rooms and newborn wards. Compare observed "gold standard" with Health worker records to assess sensitivity

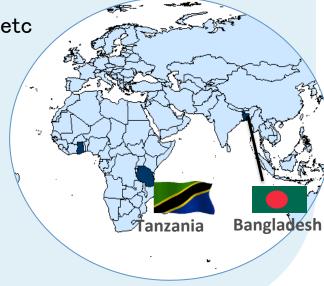
- 5 interventions (uterotonics, resus, ACS, KMC, treatment of PSBI)
- Not powered for ACS (likley to be used in <0.5% of live births), hence research focus on GA and safety issues
- Compare different options for denominators
- Additional research using film records, maternal recall etc

Test FEASIBILITY in HEALTH SYSTEMS:

Few indicators then evaluated for feasibility in routine health information systems

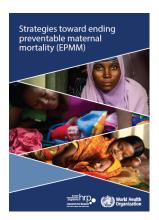
WHERE?

Bangladesh ICCDR,B and Kushtia District Tanzania – Ifakara Health Institute



Coordinated approach will yield the fastest progress
Research protocols and tools developed at design workshop April 20th -23rd
Will be open access and shared widely so can be adapted and used by others





PROCESS FOR DEVELOPMENT OF ENAP METRICS & EPMM FACILITY BASED COVERAGE INDICATORS RESEARCH PROTOCOLS

1. Validation Protocol Group (slightly different group for feasibility testing): **Purpose-**

Develop first draft GENERAL protocol TO GUIDE facility based validation of ENAP coverage indicators:

Participants: Require epi and stats expertise in order to design a robust validation including: sample size, with specific reference to sensitivity and specificity etc.

LSHTM (Joy & Hattie); Statistician (Simon Cousens); Country team leads (Shams for Bangladesh, Tanzania TBC); WHO (Matthews); ICM/UNICEF (Agbessi); IDEAS (Tanya M); USAID (Allisyn). UNICEF Nepal (KC Ashish); Save the Children (Lara)



4. DISSEMINATION AND SHARING OF PROTOCOLS and REALTED TOOLS



Facility-based testing research Design Workshop (April 20th-22nd 2016, Windsor)

More than 60 experts from many organisations

.....to enable technical review for facility-based testing research design and to bring together researchers who are/have undertaken similar work, as well as relevant experts to ensure the approach is programmatically relevant, and is appropriately targeted for feasibility testing in national data platforms at a later stage.



ENAP ACS Metrics Working Group

- Participants at the Windsor Workshop for ACS:
 - Facilitators:
 - Alfred Osoti (WHO/RHR)
 - Jim Litch ((Every Preemie/GAPPS)
 - Joy Lawn (UCL)
 - Working Group Members:
 - Cally Tann (LSHTM)
 - Dorothy Boggs (LSHTM)
 - Florina Sebanescu (CDC)
 - Also others unable to join at the time, eg Josh Vogel
- Email <u>enapmetrics@lshtm.ac.uk</u> and note you are interested in ACS metrics

ACS coverage research: Numerator Were women seen at <34 weeks given ACS?

- Place of observation (or later verification if cannot directly observe all)
 - ·Labour ward triage, labour ward, antenatal ward
- Develop/refine a checklist for observers
 - •Are steroids given, time & date of admin, consideration of gestational age, method of gest age assessment
- •How is the intervention is recorded?
 - Clinical records, medical round book, prescription/drug chart
 - NB unlikely to be in register & probably not justified to add ACS to register as is low prevalence of use
- For GA assessment (USS, clinical) if possible links to other research
- •Maternal recall for ACS use will be assessed at pre-discharge but may not be accurately known and will also be affected by the quality of communication from health workers

ACS coverage research: Denominators to compare measuring the "true denominator" i.e. the target population for the intervention

- True denominator
 - All women <34 weeks
- Place of assessment
 - triaged on admission to labour ward
- Other denominators
 - Facility live births <34 weeks
 - Facility total births <34 weeks
 - Estimated population denominator <34 weeks
 - All women triaged to labour ward <34 weeks
 - All eligible women = All women < 34 weeks who should have received ACS (accurate GA, imminent preterm birth, no infection, context of care (i.e. adequate childbirth care and care for preterm infant)
- For consideration, should denominator only include women <34 weeks with <u>fetal heart rate</u> <u>present</u> on admission, or at time of decision to provide ACS
- Document methods of assessment of gestational age for all women assessed to be <34 weeks
 (i.e. LMP, USS, FH, best obstetrical estimate)
- Postnatal newborn examination for all newborns where mother assessed to be <34 weeks
 (Ballard / Dubowitz etc. to be decided, Modified Ballard preferred, but all have limitations)

Coverage and Quality/Safety:

	<34 weeks	≥34 weeks
ACS +	V	V
ACS -		

ACS coverage research: Quality and safety Additional research questions regarding safe/effective administration based on WHO recommendations for of ACS

- 1. Was there an assessment for 'imminent preterm birth? How 'imminent of preterm birth' was defined (uterine contractions with cervical change and effacement, or maternal complications at high risk for PTB)?
- 2. Was there an assessment for maternal infection? How 'maternal infection' was defined (fever, offensive liquor, uterine tenderness, maternal/fetal tachycardia, leucocytosis)

3. Drug?

- Which drug (Betamethasone vs. Dexamethasone) was used? (Prednisone to be included on list – though not the appropriate drug, it is used by some)
- How many doses / courses?
- Timing of administration?

We will already know context of care through other study measures

- availability of care around the time of birth
- availability care for preterm newborn

Questions for Discussion

- Focus on Safety Tracking?
 - Eg excluding maternal clinical infection, identification of imminent birth, etc
 - ENAP metrics work with WHO and SNL and AMDD on measuring service readiness for Care of small/sick newborns will be linked to EmOC assessment and will feed into the criteria to assess hospital readiness for the WHO criteria
- Gestational Age Measurement and linking to other work on this?
- Suggestions of relevant tools?
- Do you want to be involved with ACS metrics? Please pass your name on to:

<u>enapmetrics@lshtm.ac.uk</u> or <u>georgia.gore-langton@lshtm.ac.uk</u> **ENAP Metrics Technical Coordinator**, LSHTM

Every Newborn Series

5 papers

6 comments

55 authors from 18+ countries

60+ partner organisations





Every Newborn

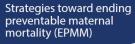
An Executive Summary for The Lancet's Series



"A healthy start is central to the human life course, with birth holding the highest risk of death, disability, and loss of development potential, leading to major societal effects."

EVERY NEWBORN

Ending preventable maternal mortality







THE LANCET

Ending preventable stillbirths An Executive Summary for The Lancet's Series



'At the core of public health programmes for women's and children's he and represents a quadruple return on investments, saving the lives of mothers and newborns, preventing stillbirths, and additionally, improving child development."

Main funders: Bill & Melinda Gates Foundation, USAID, Children's Investment Fund Foundation

Every Newborn Action Plan

Co-led by UNICEF & WHO Consultation >60 governments >80 organisations, >1000 individuals World Health Assembly 2014 resolution

One year after, already policy and program change in at least 20 high burden countries





THANK YOU!

Jim Litch jlitch@yahoo.com

Acknowledgements:
Joy Lawn, Georgia Gore-Langton, Alfred
Osoti, Cally Tann, Dorothy Boggs and Florina
Sebanescu