



The best start for every baby:

Progress in the Western Pacific Region





Regional Coordinator Maternal and Child Health, Facility Quality and Safety





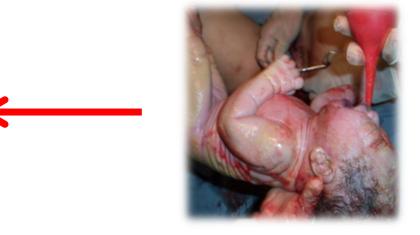
If this benefits babies,



Why is this so common?



Immediate drying, delayed cord clamp



Immediate cord clamp, delayed drying, suction

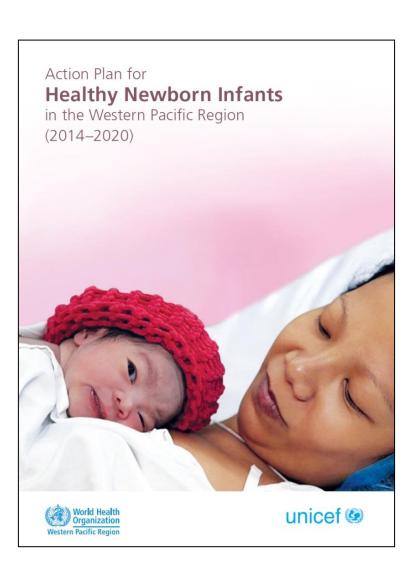


Skin-to-Skin Contact



Separated from mother

Endorsement of a Regional Action Plan in 2013



Goal: To eliminate preventable newborn mortality by providing universal access to high-quality early essential newborn care (EENC)

Targets:

- 1. At least 80% of facilities where births take place are implementing EENC
- 2. At least 90% of births in subnational areas are attended by SBAs
- 3. NMR \leq 10 per 1000 live births
 - National & sub-national

What is Early Essential Newborn Care (EENC)?

		INTRAPARTUM CARE	NEWBORN CARE
All mothers and newborn infants	1. The First Embrace	Labour monitoring (partograph)	 Immediate drying Immediate skin-to-skin contact Appropriately timed clamping and cutting of the cord Exclusive breastfeeding Routine care – eye care, vitamin K, immunizations, weighing and examination
At-risk mothers and	2. Preterm and low- birthweight infants	 Preterm labour Elimination of unnecessary inductions and caesarean sections Antenatal steroids Antibiotics for preterm PROM 	 Kangaroo Mother Care Breastfeeding support Immediate treatment of suspected infection
newborn infants	3. Sick newborn infants	 Obstructed/prolonged labour Fetal distress: Assisted delivery Caesarean section 	 Not breathing at birth: resuscitation Suspected sepsis: antibiotic treatment

Includes at least 90 minutes of uninterrupted skin-to-skin contact and early (within 15-90 minutes of birth) breastfeeding

What is Early Essential Newborn Care (EENC)?

EENC aims to eliminate harmful practices that increase risk of infection, hypothermia and death

- Unnecessary separations (and exposure to unclean surfaces, carers hands, NICU and formula)
- Unnecessary suction (with risks of trauma, infection, bradycardia and apnoea)
- Unnecessary procedures (episiotomy, C-section)

Targeted focus: nine priority countries

REALITY CHECK

8 PRIORITY COUNTRIES

account for

96% of neonatal deaths

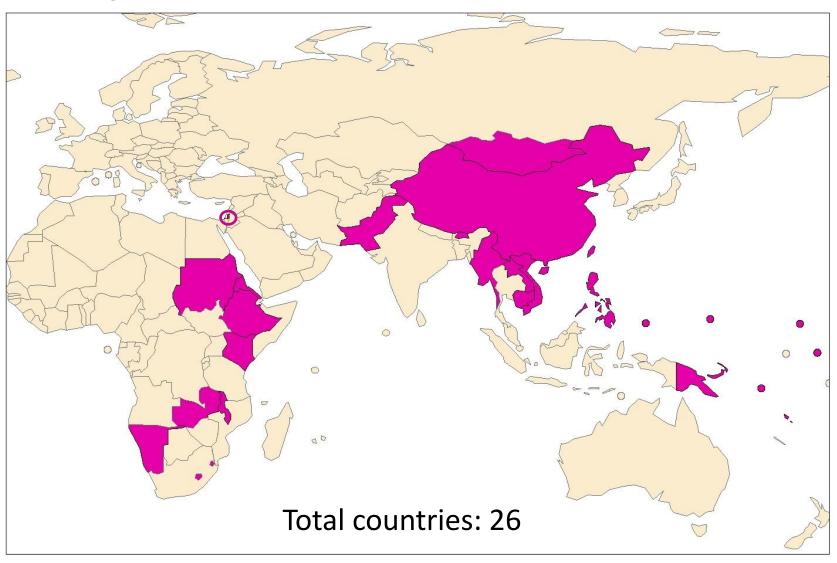
IN THE WESTERN PACIFIC REGION



Requested to join as the 9th EENC priority country in 2018

From WPRO to other regions

Introducing the WPRO EENC approach in the SEARO, EMRO and AFRO regions



Evolution of the EENC approach

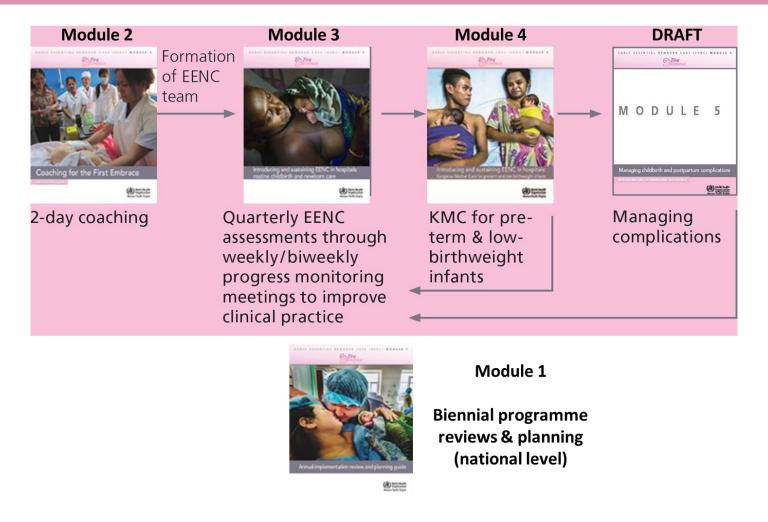
Initial approach:

- Establish policy support, costed EENC action plans, national technical working groups, and a MoH focal person, strengthen monitoring and evaluation, and routine information systems
- As EENC evolved, we discovered these are critical, but better if they
 occur naturally
- A healthy newborn is the best sales point and starting point for health workers, babies and families alike

"After practicing the new approach ... the babies are stronger, they breathed better than the other approach; they turned pink faster" -- Midwife, Cambodia

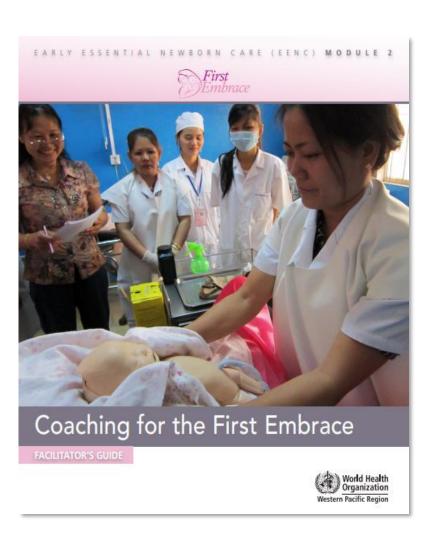


EENC evolved naturally from highly visible facility improvements; each building on the previous module



Each module got tested and revised 20-60 times across 8 countries to maximize applicability and usability

Introducing and scaling-up EENC



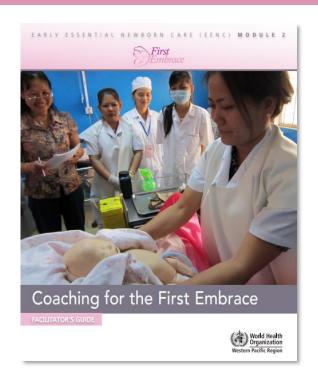
1. Coaching of health workers providing childbirth and newborn care has proven effective to begin the transformation

Module 2: Coaching for the First Embrace

- 2-day coaching in a delivery room creates a realistic environment
- No lectures / No PPT
- Health workers demonstrate their current practices unassisted to establish baseline
- Facilitators coach participants until newborn care steps are mastered
- Pre- and post-coaching tests to ensure participants meet minimum standards

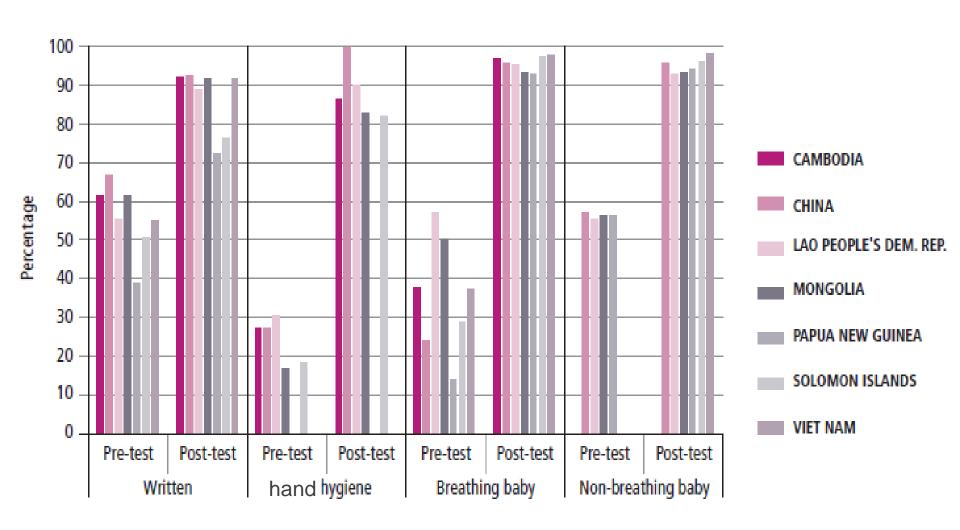
"Staff usually don't want to go back to the next day, but they were excited to continue"

Hospital Director, National Obstetrics
 and Gynaecology Hospital, Viet Nam



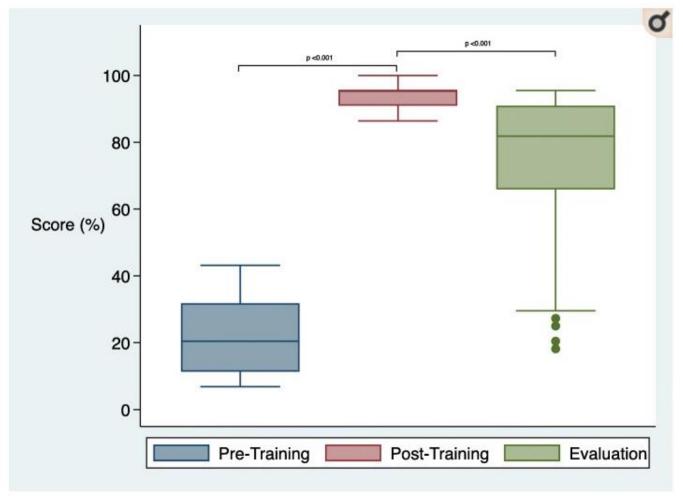


Pre- and Post-coaching test scores in 7 countries



Sustained improvements in practices post coaching: Solomon Islands

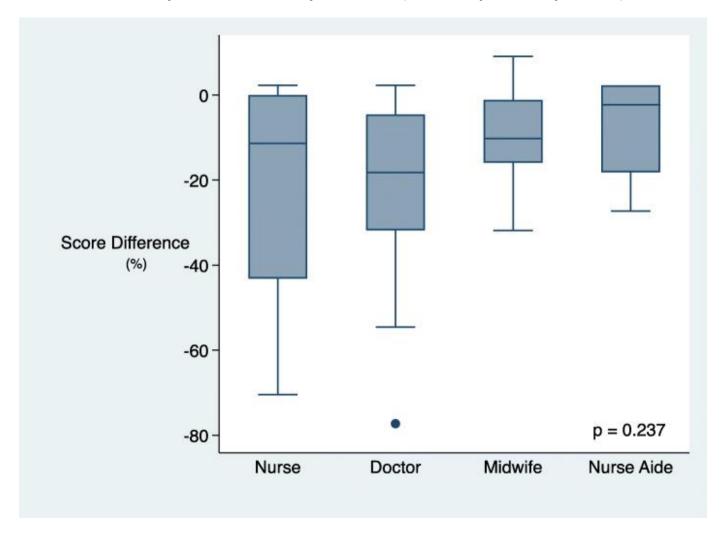
Skills scores for the breathing baby scenario by time period (N=25 participants)



Source: Tosif S, ... Mannava, Sobel... 2020

With delivery room staff showing greater retention

Score difference (post-coaching vs evaluation) for breathing baby scenario by cadre (N=25 participants)

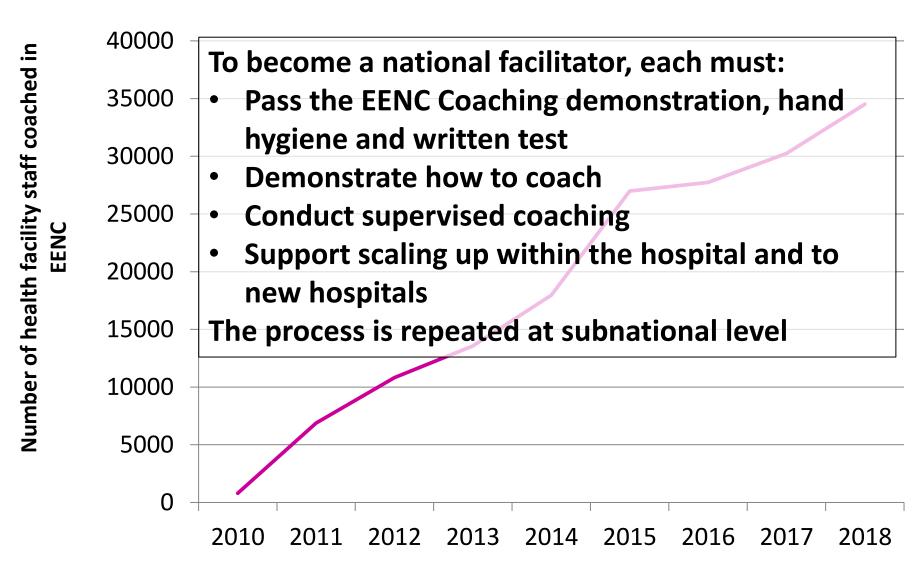


Source: Tosif S, ... Mannava, Sobel... 2020



Health workers coached on EENC

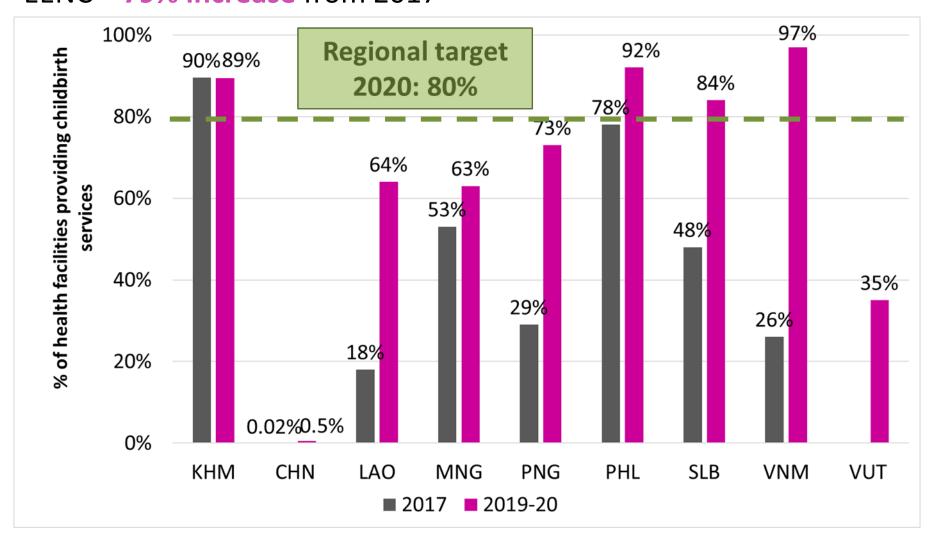
34,655 health facility staff have been coached in EENC



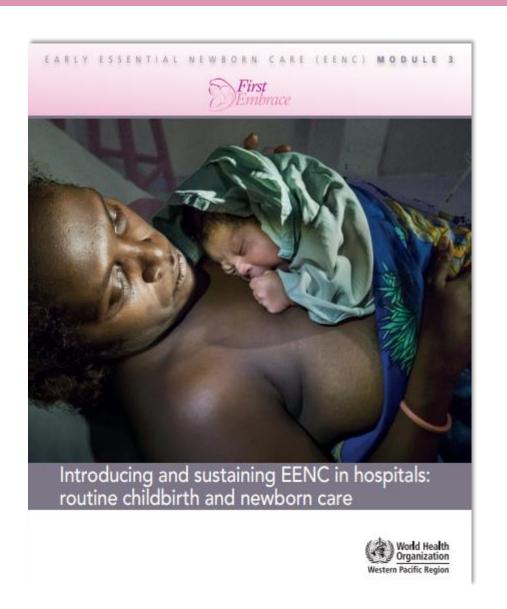


Health facilities that have introduced EENC

6,017 health facilities with ≥50 deliveries/year have introduced EENC ≈ **79% increase** from 2017



Module 3: Introducing and sustaining EENC in hospitals



2. Establishing a health facility quality improvement process for EENC solidifies new practices

Interview mothers (and summarize data)



Xichang, China, 2016

1		
	记录表1b. 产妇出院前访谈表汇总	
	问题 法	-
	7/2021 程中,所多为了妇被技励选择她重欢的小城空里,	1
	b. 字用的分娩姿势是什么? 主要信息 ************************************	13
	C. 多少产妇接受3宫底加压?) 1.1
	d. 多少进行3会附侧切?	3 3.
	2.多少新生儿生后24小时之内洗澡?	3
	3.多少新生儿生给国际特度帐接触;其中, 10% 10%	4
	a.多少新生儿 分钟内町皮肤接触	
	4b.多少新在11皮收接触至少持续60分钟。 10 30	<u>4</u>
	℃.多少新生儿与母亲分开前完成3第一次母乳喂养? % 26 (see	
	d. 为什么新生儿与母亲分开(指第1次皮肤硅触中断角面) 常见原因 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图	6. 0
	4.多少新生儿住院勘问始终跟母亲在一起?	6
	5.多少是纯母乳喂养? 10 100	7. 6
	Q.多少新在儿生后11-90分钟 即母乳喂养? QQ: 37 % 30	Ř.
	b第一次母乳喂养持续多长时间? 时间范围 20-60年前	8.6
	C.自出生后,多少新生儿喂养3母乳之外新食物?	9. 6
	ad. 多少年9年11月2日,1963年,山麓完全任何纪?	А
	6. 出生后至今,多少新生儿吃了母乳之外的食物?	4. 5
	a.在吃了母乳之外的自物自小中都是叫些自物 构的的 b.额水 d中草药	1, 3
	7.多少新生儿使用奶瓶喂养? % (0点)	12.65
	8.多少产妇是剖宫产? % (0克)	13.5
	α·吉·刘宫产幸见原因? 常观原因	4. 93
	9. 多少新生儿的特带接受过处理?	
	在使用什么药物或方式处理? 约切: 河湖(同南宋中(1))	

Observe deliveries

(and drugs, supplies, equipment, infection control)





Xichang, China, 2016

Analyze data and priority areas for improvement



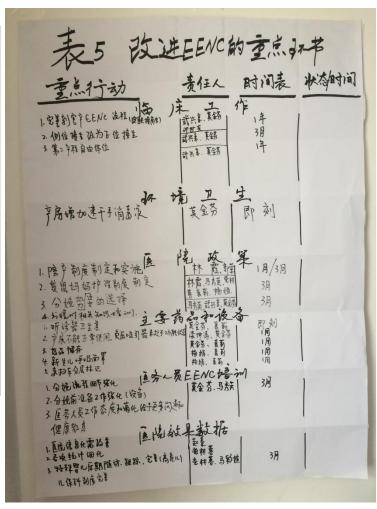
Da Nang, Viet Nam, 2016 Cebu, Philippines, 2018



Identify underlying causes of priority areas for improvement and develop a 3-month plan

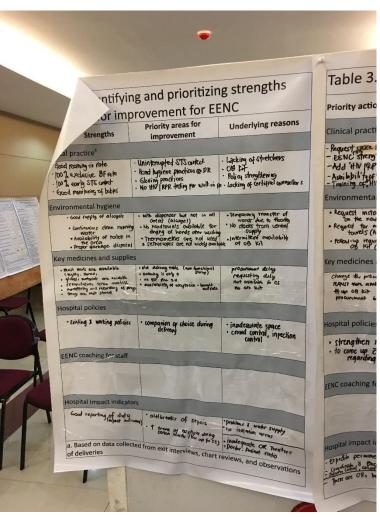


Xichang, China, 2016



Identify underlying causes of priority areas for improvement and develop a 3-month plan





Cebu, Philippines, 2018

Discuss findings and 3-month plan with vice hospital director and department directors



Quality improvement for EENC

Of 174 hospitals sampled in eight priority countries*:



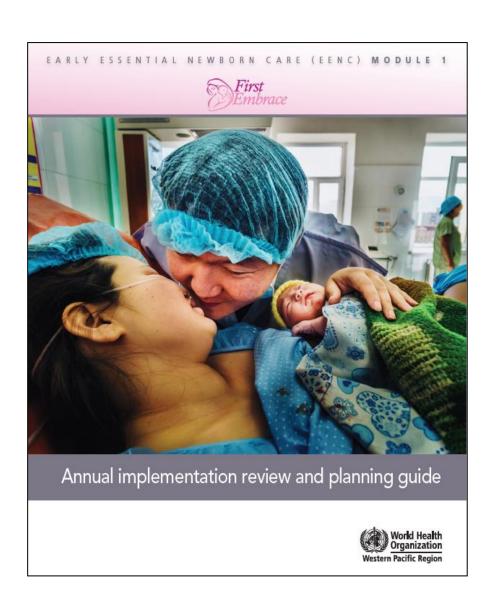
71% have an EENC team, supported by senior management, increase from 55% in 2017



30% have established a quality improvement approach, increase from 19% in 2017

^{*}No data from China using the standard methodologies to determine whether QI approach has been established

Introducing and scaling-up EENC



3. Annual implementation review and planning establishes progress and supports scale up

At the national level - Module 1: Annual implementation review and planning

6-day review involving data collection and data synthesis by local teams in EENC implementing health facilities to inform systemlevel changes

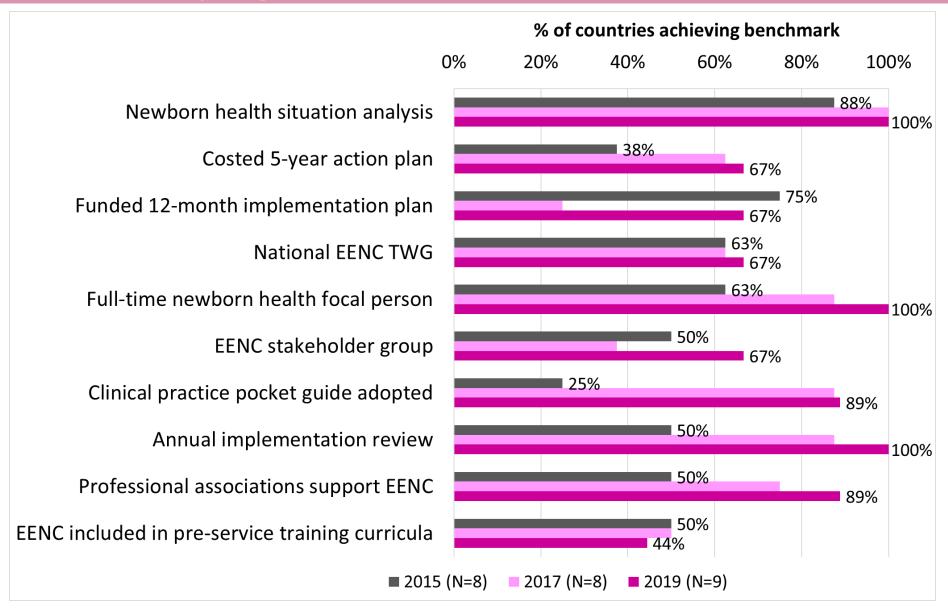


Lao PDR, 2017

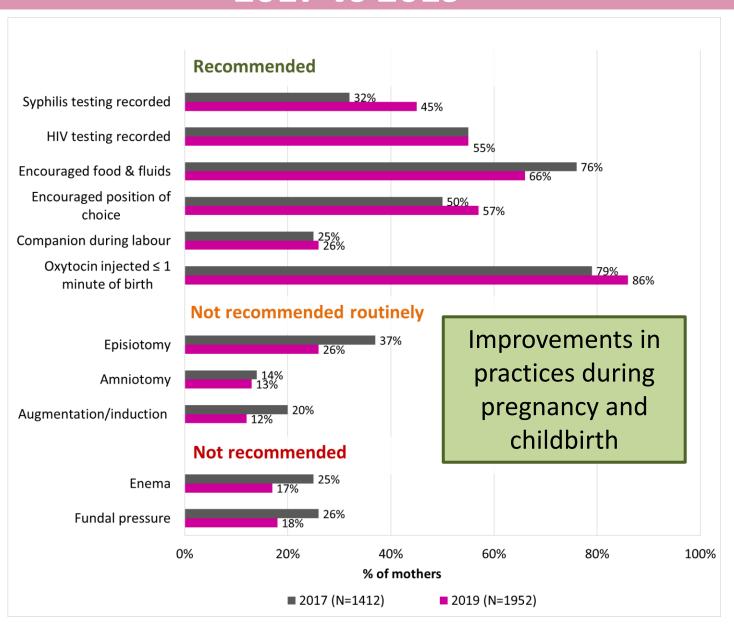


Papua New Guinea, 2018

Policy and planning support for EENC scale up: progress in readiness benchmarks

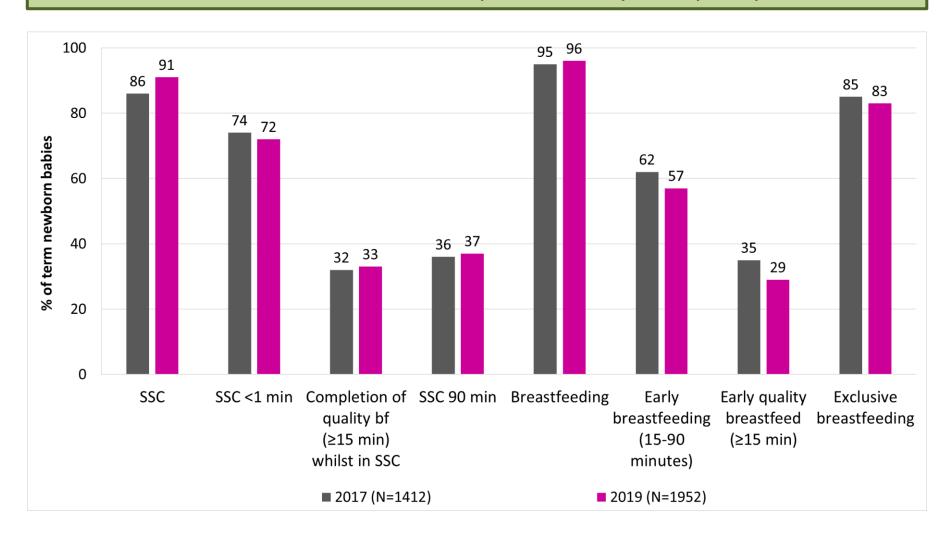


Clinical practices during pregnancy and childbirth, 2017 vs 2019



Skin-to-skin and breastfeeding practices for term babies, 2017 vs 2019

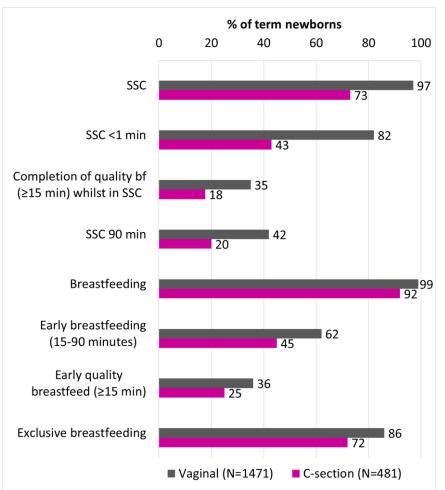
Improvements or stable trends in skin-to-skin and breastfeeding practices for term babies since 2017, with the exception of early and quality breastfeeds



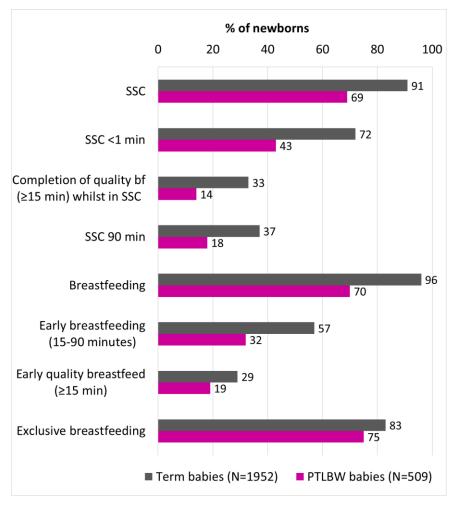
However, some babies are still being left behind

Babies born preterm and low birthweight (PTLBW) or delivered by C-section are less likely to benefit from skin-to-skin contact and breastfeeding

Vaginal birth vs C-section



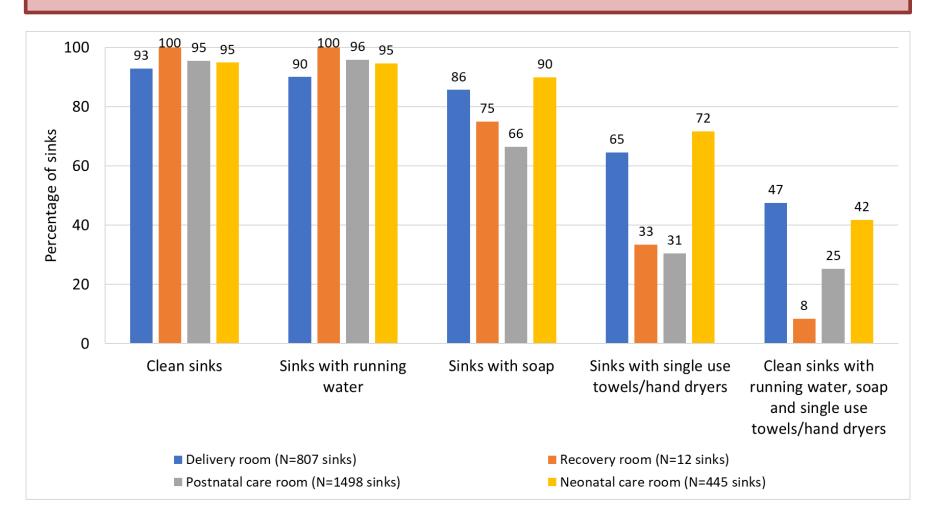
Term vs PTLBW babies



Data from 9 countries, 2018-19. SSC=skin-to-skin contact, PTLBW = preterm and low birthweight

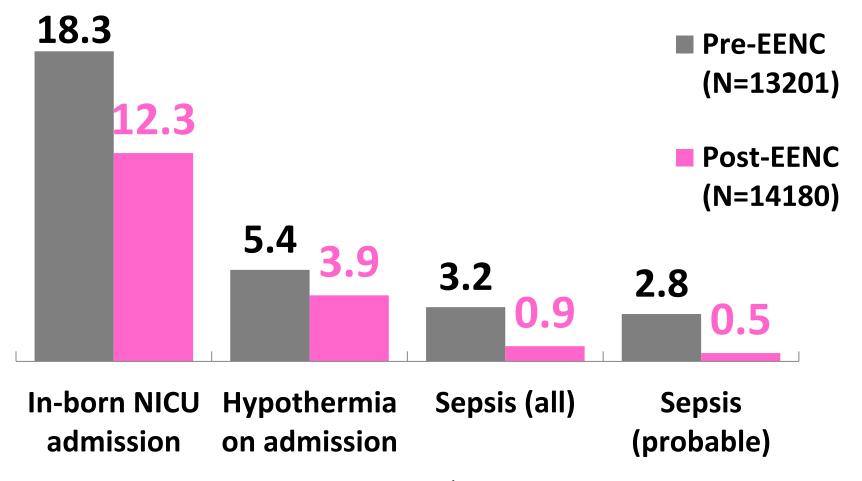
Environmental hygiene: handwashing amenities in maternity and neonatal care rooms, 9 countries, 2019

Lack of handwashing amenities, particularly in recovery and postnatal care rooms



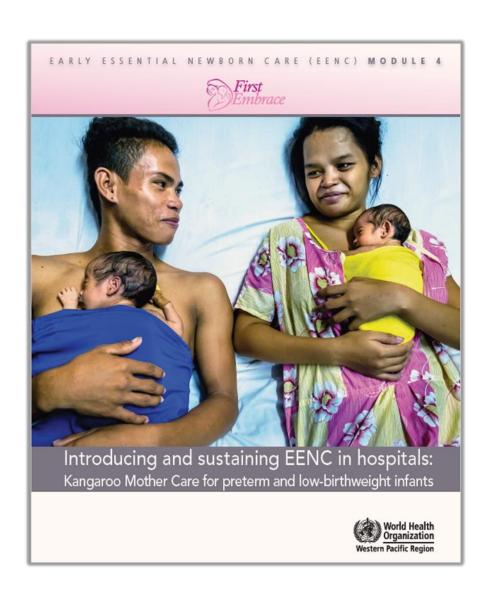
Hospital level impact: Improvements in neonatal health outcomes post-EENC

NICU admission and adverse outcomes (all live births)
Da Nang Hospital for Women and Children, 2013-2015



Source: Tran HT, Mannava P, Murray JCS et al, 2019

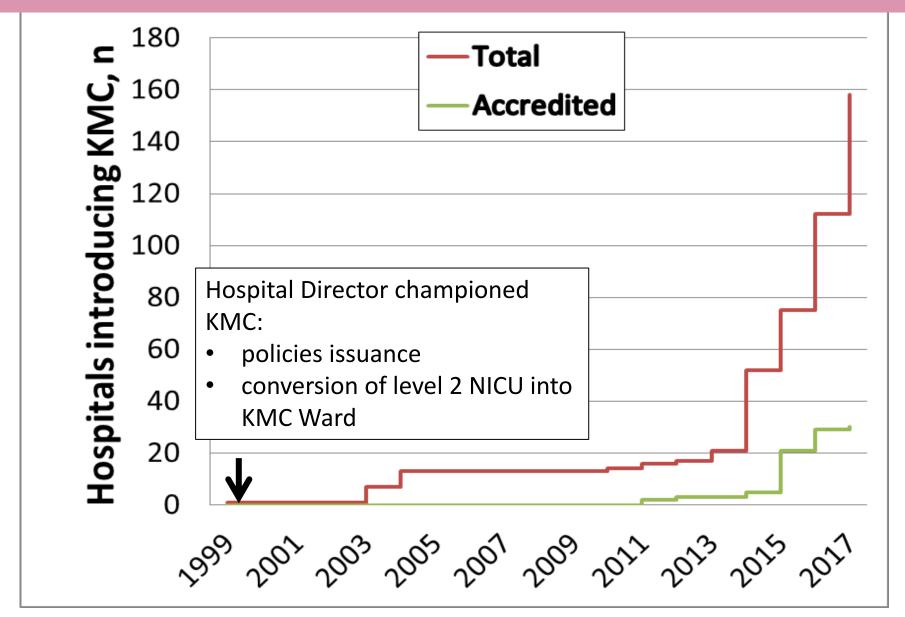
Introducing and scaling-up EENC for high risk babies



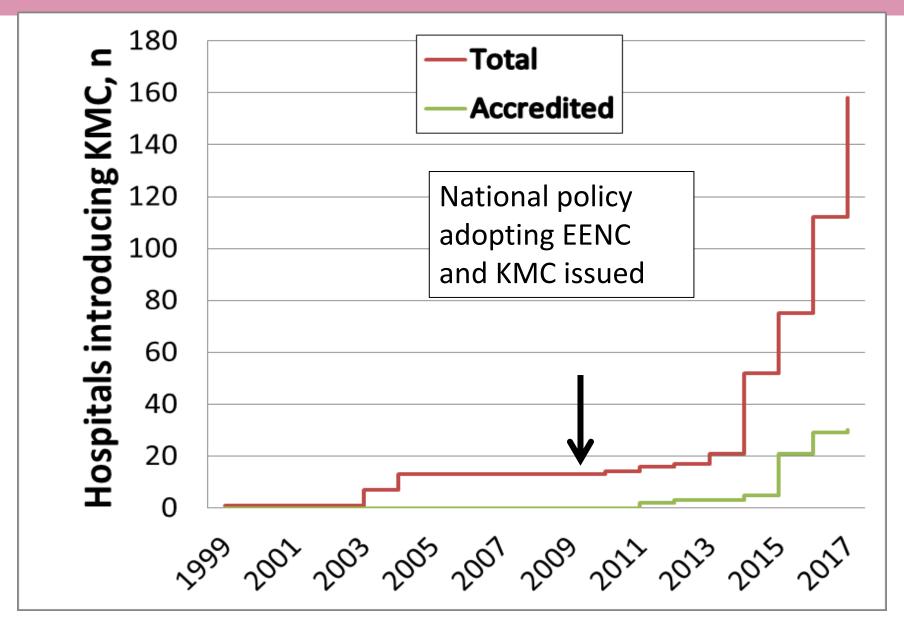
4. Module 4: Kangaroo Mother Care for Preterm and Low Birthweight Infants

Once quality improvement for EENC is well-established, Module 4 is introduced to assess hospital readiness for KMC and identify support needed

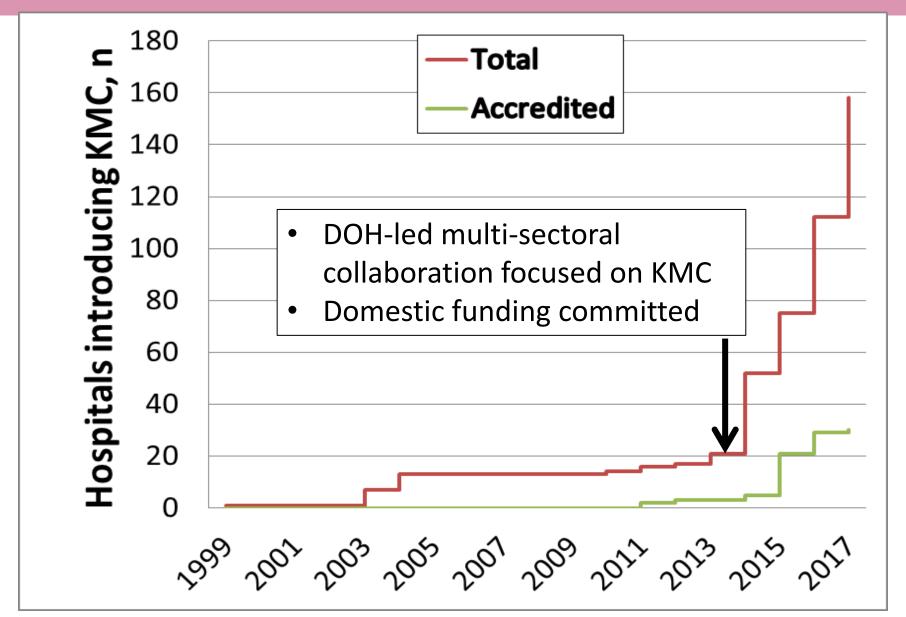
What promoted KMC uptake in the Philippines?



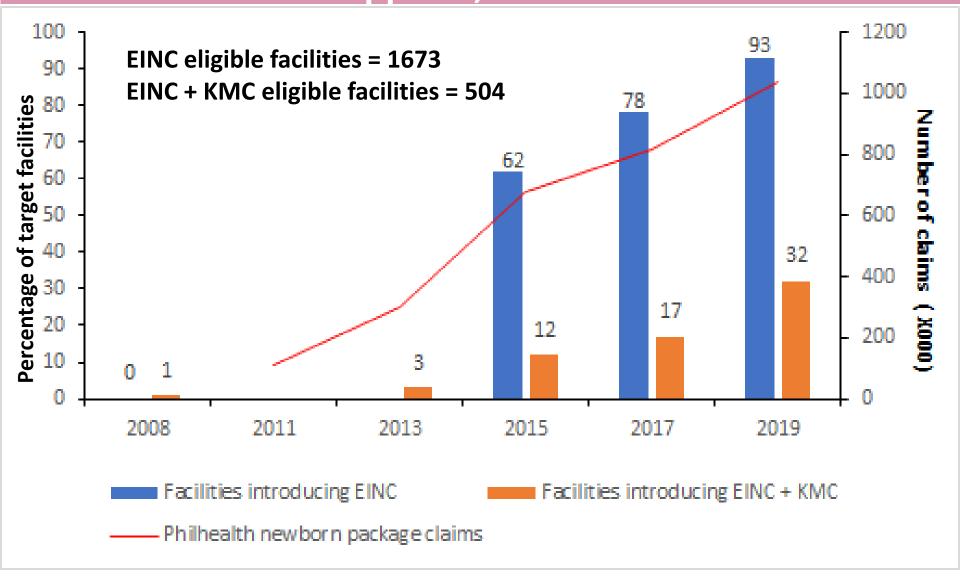
What promoted KMC uptake in the Philippines?



What promoted KMC uptake in the Philippines?



Facilities introducing EINC and EINC plus KMC, Philippines, 2009-2019

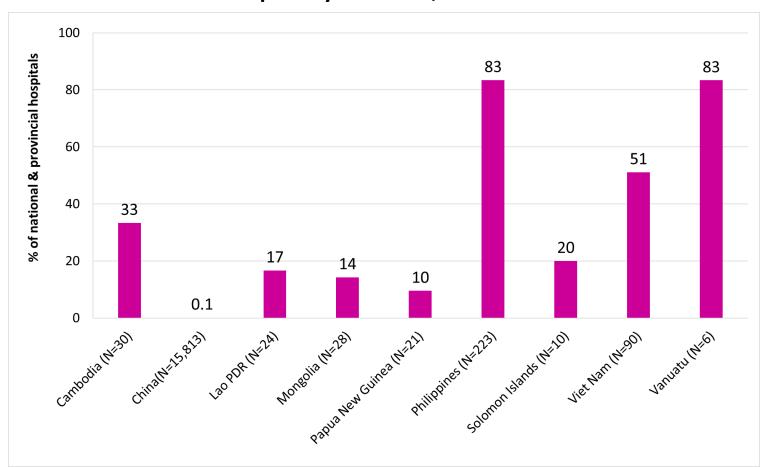


Scale-up of KMC in the nine priority countries



278 national & provincial hospitals have introduced KMC ≈ 64% of hospitals excluding China

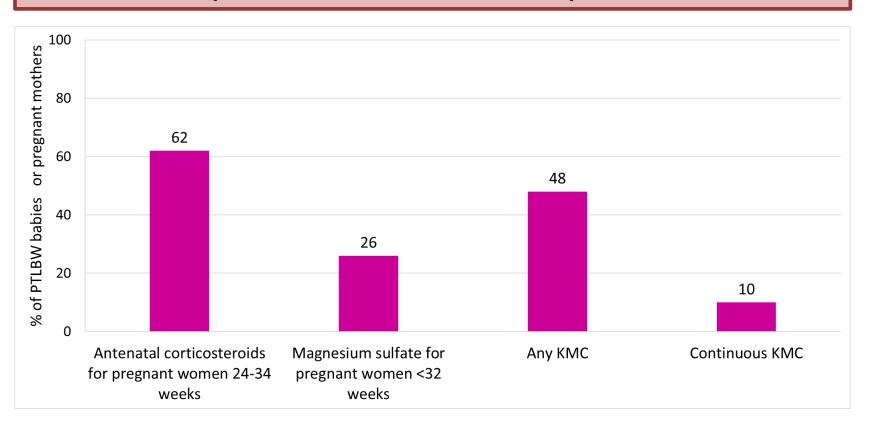
Proportion of national & provincial hospitals that have introduced KMC, 9 priority countries, 2019



Management of preterm and low birthweight babies, 9 countries, 2019

Significant increases in babies ≤2000g benefiting from KMC as this was rarely done in 2015

However continuous KMC (≥20 hours/day) and management of preterm labor needs to be improved



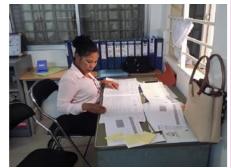
Improving quality of routine maternal and newborn health data through hospital information system reviews

- Hospital information system reviews done in Cambodia, Mongolia, Philippines and Viet Nam using qualitative and DQA methods
- Follow up on findings to implement actions to improve data quality and link EENC data with country HMIS

Example of Cambodia

Hospital information system assessment





Dissemination of findings and annual workshops to discuss actions to address data quality gaps



ASSESSING MATERNAL AND NEWBORN HEALTH
HOSPITAL DATA IN CAMBODIA





An Independent Review Group (IRG) to validate country progress and advise on tools/guides

- IRG formed in 2015 to:
 - (1) Review and validate country progress in implementation of the Regional Action Plan, and
 - (2) Advise on support to Member States, namely development of programmatic tools.
- Comprised of 6 experts in the fields of neonatology, obstetrics and gynaecology, midwifery, research and programme implementation



Convening Member States regularly to cross-learn and commit to accelerating progress (2015 & 2017)



2015*,* Tokyo



2017, Da Nang

Convening Member States regularly to cross-learn and commit to accelerating progress (2020)

Third Biennial Meeting on Accelerating Progress in Early Essential Newborn Care:

Synergies with Hospital Quality and Patient Safety

(Virtual meeting)

1, 3, 4 and 9 December 2020



unicef 🚱

for every child



At the 2020 meeting, Member States requested for an extension of the Action Plan until 2030 and agreed to issue a high-level statement on accelerating progress in EENC

Operational research: Sharing findings from EENC implementation

> Int J Qual Health Care. 2018 Aug 1;30(7):537-544. doi: 10.1093/intqhc/mzy04

Improving immediate newborn care prace Philippine hospitals: impact of a national care initiative 2008-2015

Maria Asuncion A Silvestre ¹, Priya Mannava ², Marie Ann Corsino ^{1, 3}, Donna Anthony P Calibo ⁴, Cynthia Fernandez Tan ⁵, John C S Murray ², Jacqueline K Howard L Sobel ²

Affiliations + expand
PMID: 29617838 DOI: 10.1093/intqhc/mzy049

Abstract

Objective: To determine whether intrapartum and newborn care practices imp hospitals between 2008 and 2015.

Design: Secondary data analysis of observational assessments conducted in 11 2015.

Setting: Eleven large government hospitals from five regions in the Philippines

Participants: One hundred and seven randomly sampled postpartum mother-106 randomly sampled postpartum mothers prior to discharge from hospitals

Interventions: A national initiative to improve quality of newborn care starting development of a standard package of intrapartum and newborn care services training, formation of multidisciplinary hospital working groups, and regular as meetings in hospitals to identify actions to improve practices, policies and envi improvement was supported by policy development, health financing package

PHL: Sustained national improvements in care through implementation of FFNC

> EClinicalMedicine. 2019 Jan 14;6:51-58. doi: 10.1016/j.eclinm.2018.12.002. eCollection 2 qui: 10.1180/512884-020-2739-2

Early Essential Newborn Care Is Associated Wit Reduced Adverse Neonatal Outcomes in a Terti Hospital in Da Nang, Viet Nam: A Pre- Post-Intervention Study

Hoang Thi Tran 1 , Priya Mannava 2 , John C S Murray 2 , Phuong Thi Thu Nguyen 1 , Le Thi Mong Tuyen 1 , Tuan Hoang Anh 3 , Thi Quynh Nga Pham 4 , Vinh Nguyen Duc 3 , Howard L Sobel 2

Affiliations + expand

PMID: 31193626 PMCID: PMC6537584 DOI: 10.1016/j.eclinm.2018.12.002

Free PMC article

Abstract

Background: To accelerate reductions in neonatal mortality, Viet Nam rolled out early ess newborn care (EENC) using clinical coaching, quality improvement assessments in hospita updated protocols. Da Nang Hospital for Women and Children, a tertiary referral hospital Viet Nam, compared outcomes pre- and post-EENC introduction.

Methods: Records of live births and NICU admissions were reviewed pre- (November 201 2014) and post- (November 2014-October 2015) EENC implementation. Delivery room pr admissions and adverse outcomes on NICU admission were compared using descriptive s

Findings: A total of 13,201 live births were delivered pre- and 14,180 live births post-EEN introduction. Post-EENC, delivery practice scores, rates of early and prolonged skin-to-ski and early breastfeeding rose significantly. There was a significant reduction in risk of NICL (relative risk [RR] 0.68; 95% confidence interval [CI] 0.64-0.71; p < 0.0001), hypothermia or admission (RR 0.72; 95% CI 0.65-0.81, p < 0.0001) and sepsis (RR 0.28; 95% CI 0.23-0.35, p Exclusive breastfeeding rates in NICU increased from 49% to 88% (p < 0.0001) and of kan mother care (KMC) from 52% to 67% (p < 0.0001). Reduced formula use resulted in decre

VNM: Improved newborn health outcomes post-EENC in a large regional hospital

Healthcare worker knowledge and skills following coaching in WHO early essential newborn care program in the Solomon Islands: a prospective multi-site cohort study

Shidan Tosif ¹, Anna Jatobatu ², Anita Maepioh ³, Amy Gray ⁴, Howard Sobel ⁵, Priya Mannava ⁶, Trevor Duke ⁴

Affiliations + expand

PMID: 32033598 PMCID: PMC7007662 DOI: 10.1186/s12884-020-2739-z

Free PMC article

Abstract

Background: Newborn mortality in Oceania declined slower than other regions in the past 25 years. The World Health Organization (WHO) introduced the Early Essential Newborn Care program (EENC) in 2015 in Solomon Islands, a Small Island Developing State, to address high newborn mortality. We explored knowledge and skills retention among healthcare workers following EENC coaching.

Methods: Between March 2015 and December 2017, healthcare workers in five hospitals were assessed: pre- and post-clinical coaching and at a later evaluation. Standardised written and clinical skills assessments for breathing and non-breathing baby scenarios were used. Additionally, written surveys were completed during evaluation for feedback on the EENC experience.

Results: Fifty-three healthcare workers were included in the evaluation. Median time between initial coaching and evaluation was 21 months (IQR 18-26). Median written score increased from 44% at baseline to 89% post-coaching (p < 0.001), and was 61% at evaluation (p < 0.001). Skills assessment score was 20% at baseline and 95% post-coaching in the Breathing Baby scenario (p < 0.001). In the Non-Breathing Baby scenario, score was 63% at baseline and 86% post-coaching (p < 0.001). An tevaluation, median score in the Breathing Baby scenario was 82% a reduction of 13% from post-coaching (p < 0.001) and 72% for the Non-Breathing Baby, a reduction of 14% post-coaching (p < 0.001). Nurse aides had least reduction in evaluation scores of - 2% for the Breathing Baby and midwives - 10% for the Non-Breathing Baby respectively from post-coaching to evaluation.

Conclusions: EENC coaching resulted in immediate improvements in knowledge and skills but declined over time. Healthcare workers who used the skills in regular practice had higher scores.

SLB: Immediate improvements in health worker skills after EENC coaching

Operational research: Sharing findings from EENC implementation

> J Glob Health. 2019 Dec;9(2):020430. doi: 10.7189/jogh.09.020430.

Status of water, sanitation and hygiene services for childbirth and newborn care in eight countries in East Asia and the Pacific

Priya Mannava ¹, John Cs Murray ¹, Rokho Kim ², Howard L Sobel ¹

Affiliations + expand

PMID: 31893033 PMCID: PMC6925970 DOI: 10.7189/jogh.09.020430

Free PMC article

Abstract

Background: Water, sanitation and hygiene (WASH) services are critical to providing quality maternal and neonatal care in health facilities. This study aimed to investigate availability of WASH policies, standards, and services for childbirth and newborn care in hospitals in East Asia and the Pacific.

Methods: Descriptive analysis of survey data and observations of water, sanitation and hygiene services in maternity and neonatal care rooms and of deliveries in 147 hospitals in Cambodia, Lao People's Democratic Republic, Mongolia, Papua New Guinea, Philippines, Solomon Islands, and Viet Nam. The main outcome measures were availability of national policies and standards; availability of water, sanitation, and hygiene services in maternity rooms and neonatal care units; and practice of hygiene at childbirth.

Results: Four of eight countries had national WASH policies and four had standards for health facilities. Seventy-seven percent of hospitals had a sink with water and soap or alcohol hand rub in delivery rooms, 78% in neonatal care rooms and 43% in postnatal care rooms. Only 45% of hospitals had clean sinks with water, soap and hand drying methods in the delivery room, 37% in neonatal care units and 10% in postnatal care rooms. Flush toilets were available in or next to delivery rooms and neonatal care units in 53% of 15 hospitals with data. Countries with WASH standards had a higher proportion of hospitals with water and hand hygiene services. Appropriate hygiene was practiced by health workers in 66% of 388 deliveries observed, and more likely in delivery rooms with a sink, water and soap.

Conclusions: Coverage of WASH services for maternal and newborn care must be improved to reduce risks of maternal and newborn morbidity and mortality.

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Regional: Inadequate WASH facilities in hospital maternity and newborn care rooms (linking to IPC)

> BMJ Glob Health. 2020 Aug;5(8):e002581. doi: 10.1136/bmjgh-2020-002581.

Association between early essential newborn care and breastfeeding outcomes in eight countries in Asia and the Pacific: a cross-sectional observational -study

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Zhao Li <sup>1</sup>, Priya Mannava <sup>1</sup>, John Charles Scott Murray <sup>1</sup>, Howard Lawrence Sobel <sup>2</sup>, Annie Jatobatu <sup>3</sup>, Anthony Calibo <sup>4</sup>, Baldan Tsevelmaa <sup>5</sup>, Bounnack Saysanasongkham <sup>6</sup>, Divinal Ogaoga <sup>3</sup>, Edward Joseph Waramin <sup>7</sup>, Elizabeth Mary Mason <sup>8</sup>, Hiromi Obara <sup>9</sup>, Hoang Thi Tran <sup>10</sup>, Hoang Anh Tuan <sup>11</sup>, Jacqueline Kitong <sup>12</sup>, Jessica Mara Yaipupu <sup>13</sup>, Kannitha Cheang <sup>14</sup>, Maria Asuncion Silvestre <sup>15</sup>, Outhevanh Kounnavongsa <sup>16</sup>, Pamela Putney <sup>17</sup>, Pham Thi Quynh Nga <sup>18</sup>, Rathavy Tung <sup>19</sup>, Sano Phal <sup>14</sup>, Shogo Kubota <sup>16</sup>, Sidonn Krang <sup>20</sup>, Simon Burggraaf <sup>21</sup>, Sommana Rattana <sup>6</sup>, Tao Xu <sup>22</sup>, Tuohong Zhang <sup>23</sup>, Ulziikhutag Enkhmaa <sup>5</sup>, Vanya Delgermaa <sup>24</sup>, Y Meng Chhour <sup>25</sup>,
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Collaborators, Affiliations + expand
PMID: 32764149 PMCID: PMC7412588 DOI: 10.1136/bmjgh-2020-002581

Western Pacific Region Early Essential Newborn Care Working Group

Abstract

Free PMC article

Objective: To explore the association between early essential newborn care (EENC) policy, practice and environmental interventions and breastfeeding outcomes.

Design: Cross-sectional observational study.

Setting: 150 national, provincial and district hospitals implementing EENC in eight countries in East

Participants: 1383 maternal interviews, chart reviews and environmental assessments during 2016 and 2017.

Main outcome measures: Exclusive breastfeeding (EBF), that is, feeding only breastmilk without other food or fluids since birth and before discharge, and, early breastfeeding initiation, that is, during skin-to-skin contact (SSC) with the mother without separation.

Results: Fifty-nine per cent of newborns initiated breastfeeding early and 83.5% were EBF. Duration of SSC showed a strong dose-response relationship with early breastfeeding initiation. SSC of at least 90

Regional: Skin-to-skin contact should last at least 90 minutes to increase likelihood of early and exclusive breastfeeding

Awareness raising: 'The First Embrace' Communication Campaign including recently released KMC videos

Regional Materials

First Embrace: The universal first act of love



First Embrace – Early Essential Newborn Care



First Embrace on caesarean section: leave no newborn behind Regional



Early Essential Newborn Care: progress in the Western Pacific Region
Regional











www.thefirstembrace.org #FirstEmbrace

The best start for every baby

What do we need to do to catalyze further change?











