

Roll out of Early Essential Newborn Care (EENC) programme...Our Journey so far...



Our Burden...

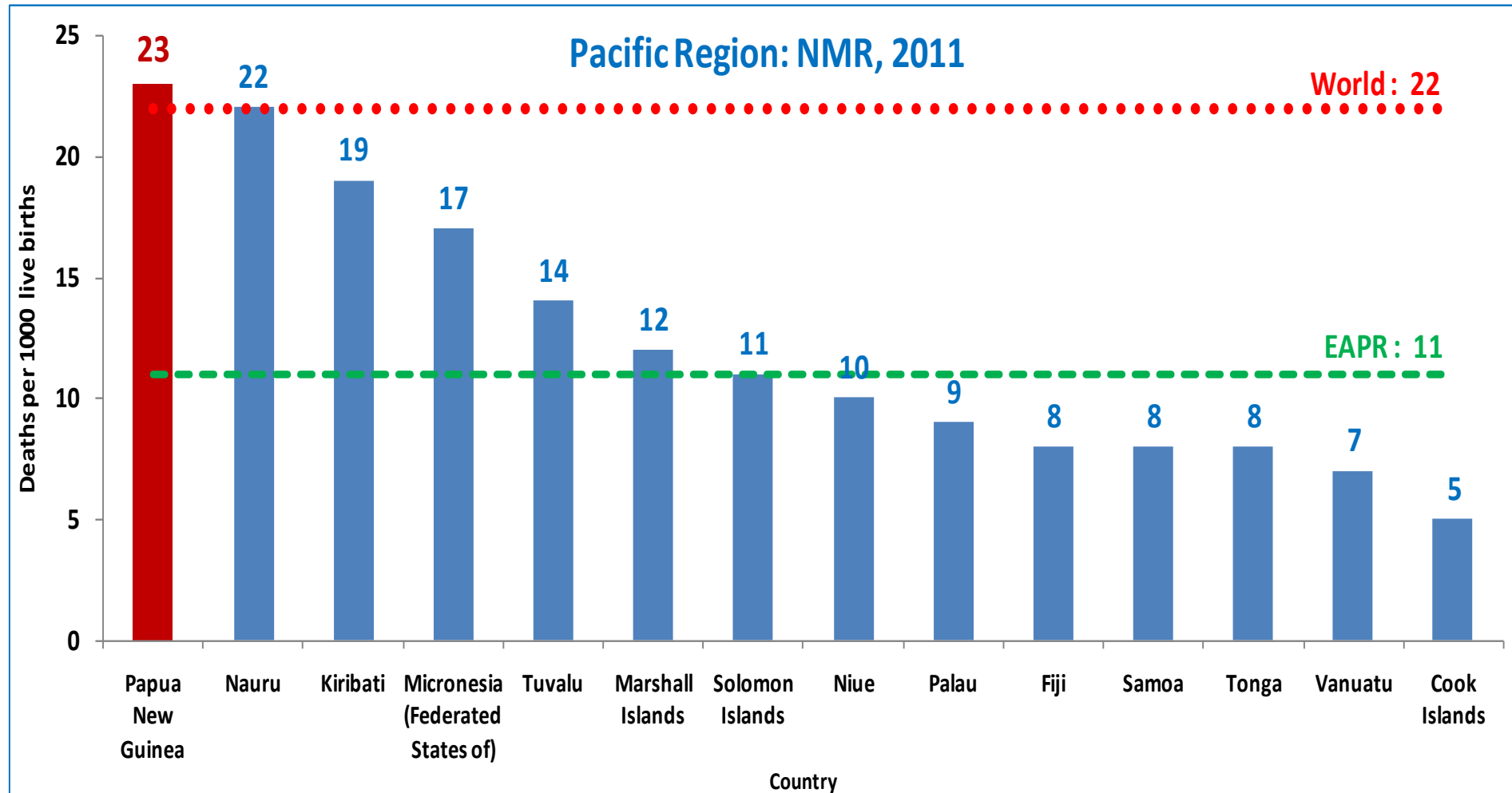
Every year, we are loosing

- **12,000 Under-Five Children**
- **6,000 Newborns (less than one month old)**
- **6,000 Still Births (Born Dead)**
- **560 Mothers**

and

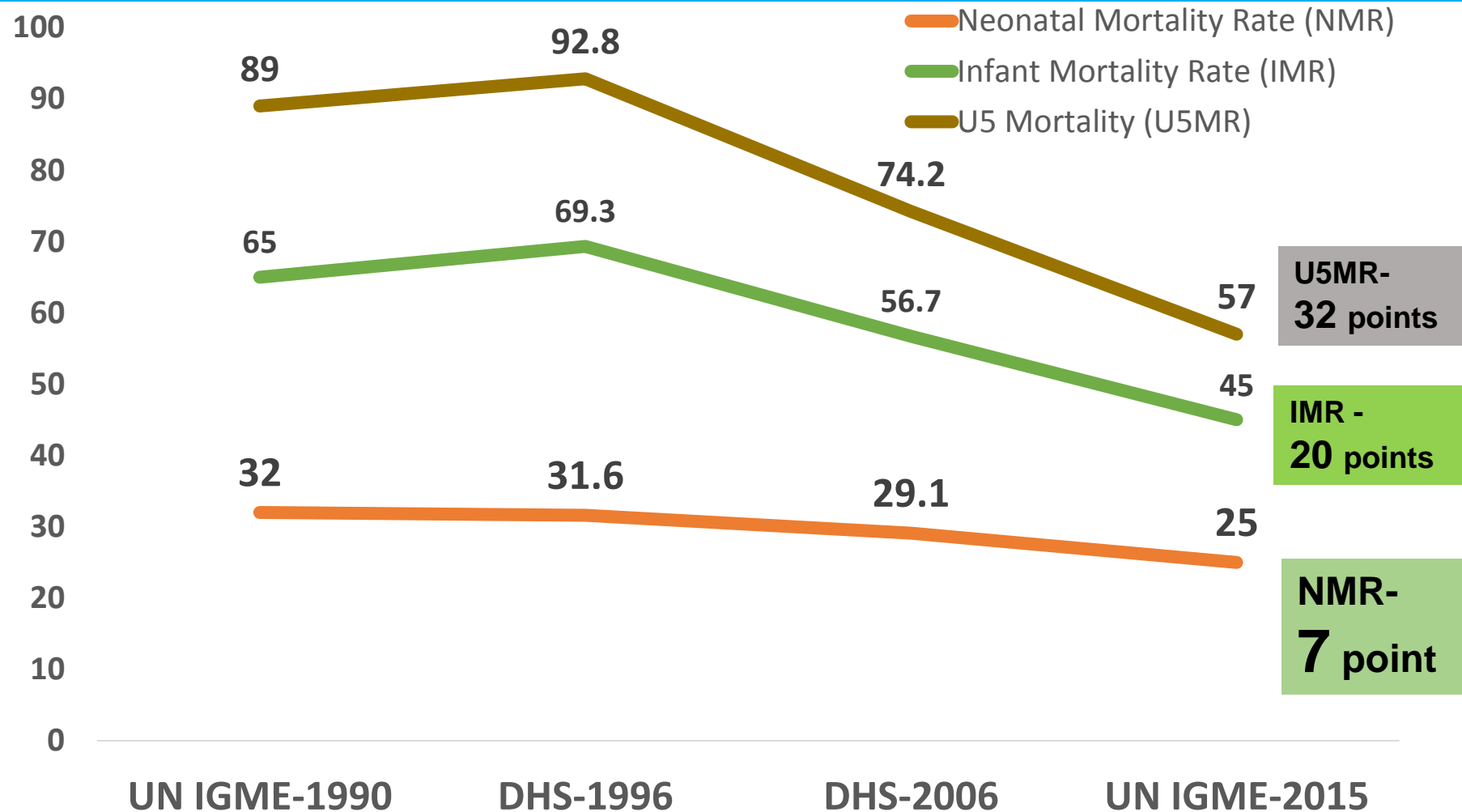
15,500 mothers develop complications/disabilities

Levels of Newborn Mortality Rate (NMR): Pacific Region Countries



Data Source: World Health Organization (WHO) Estimate 2011.

High and Stagnate Neonatal Mortality Rate



Early Essential Newborn Care (EENC)

Joint NDoH-WHO-UNICEF supported EENC programme in 20 Provinces funded by DFAT

AIM- Prevent and manage the common causes of maternal and neonatal mortality.

Newborns:

- **Healthy Newborn Care:** 'First Embrace' which comprises five essential care
- **Sick Newborn Care:** Treatment and prevention of complication
- **Special/Extra Care:** For preterm (born before 37 completed weeks of gestation) and low-birth weight babies (birth weight less than 2.500Kg)

Mothers - Prevention and management of PPH, commonest cause of maternal deaths

Early Essential Newborn Care



Progress of EENC (2015 -2019)

S.No.	Province	2015	2016	2017	2018	2019	
1	Madang	2015					
2	West Sepik	2015					
3	Eastern Highlands	2015					
4	NCD	2015					
5	Gulf		Jul.2016				
6	Jiwaka		Oct.2016				
7	Western Highlands		Oct.2016				
8	Central		Nov.2016				
9	Bougainville		Nov.2016				
10	Chimbu			Jun.2017			
11	East Sepik			Aug.2017			
12	Western						Apr.2018
13	Southern Highlands						May.2018
14	West New Britain						Aug.2018
15	Enga						Sep.2018
16	Hela						2018
17	Morobe					March 2019	
18	Milne Bay					May 2019	
19	Oro						
20	Manus					June 2019	
21	New Ireland					May 2019	
22	East New Britain					April 2019	

Health Facilities Covered

Total number of Health Facilities-

766

Total number of Birthing Facilities-

706

No. of High Delivery Load Birthing Facilities

Global EENC Guideline (>50 deliveries/yr) -

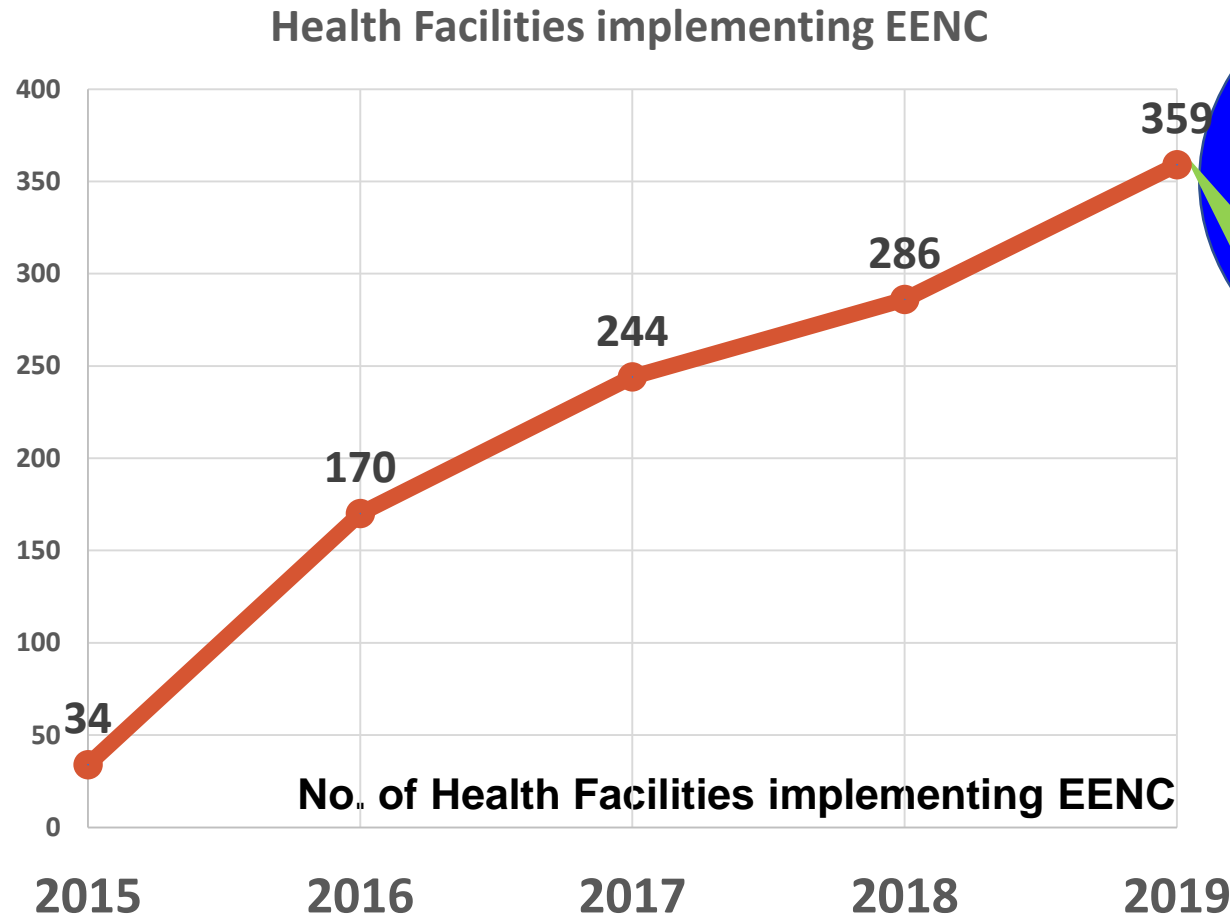
PNG EENC Guideline (>25 deliveries/yr)-

419

No. of Health Facilities implementing EENC-

359 (86.0%)

No. of Health Facilities implementing EENC



21/22 Provinces
359/413 Health Facilities :
Fully equipped with
skilled staff and
life- saving equipment
1340/1460 Health Staff
Trained

Reaching to **230,000**
newborns

Target : 413 High Delivery load health facilities across the country June 2021

1034

**newborn babies
resuscitated &**

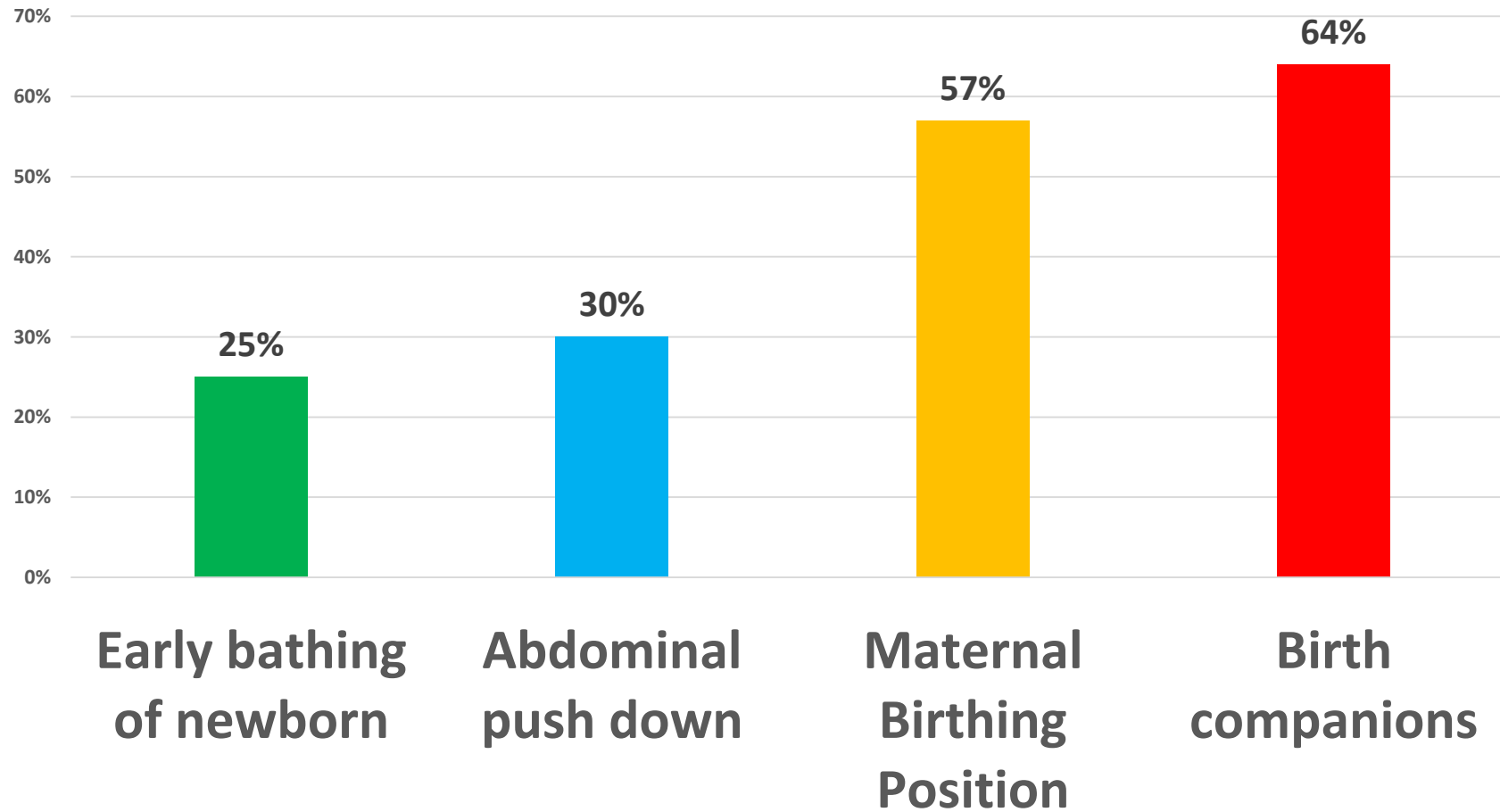
SAVED

an

)

ong
MC

EENC Practices need Improvement



Sources: EENC Annual Implementation Review, May 2018

Partnership with UNICEF



Implementation Research on Reduction of Hypothermia & Infection related Neonatal Mortality & Morbidity

PAPUA NEW GUINEA

Hypothermia Alert Device

(Bebi Kol Kilok)



Normal Temp (Healthy Baby)
- Blue light blinks once every 30 second
- No sound alarm

How it works

How it works

Hypothermia <math>< 36.5^\circ</math> (Sick Baby)
- Orange light blinks
- Alarm sounds

Detects hypothermia accurately

(High Sensitivity & Specificity)

**Baby gets more Kangaroo
Mother Care (KMC)**
(Case - 7.0 vs Control - 2.1 hrs/day)



This Parent did KMC every time the device alerted them, 6-8 times per 24 hours

47% MALE members
involved in baby care



Father embraces skin-to-skin contact and relish their new experience "Our baby is my responsibility too"

**Warm babies
gain better weight**
(Case - 870 vs Control 350g/28 days)



The baby wore the device continuously and had healthy weight gain.

**Catches Infection
Early**
(28 cases reported)



This rural mother brought her twins to the clinic because even after performing Kangaroo Care, the device continued to alert her. Her babies were admitted for sepsis, treated & survived.

Launching and Roll out of “Saving Lives Spreading Smiles” in 2018

“Saving Lives, Spreading Smiles”



Basic EENC Package



Hypothermia detection and management – Kangaroo Mother Care and Babi Kol Kilok



Prevention and management of Post Partum Hemorrhage – Non- Pneumatic Anti Shock Garment (NASG)



Community EENC Roll out in 4 Provinces

- Koroba- SHP
- South Fly- Western
- Henganofi- EHP
- Tambul Nebilyer
- Pomio-ENB (Soon to roll out)

Roll out of Saving Lives- Spreading Smiles



Training of Village Health Volunteers (VHVs) - Tambul-Nebilyer district- WHP



“Saving Life, Spreading Smiles”

Western Highland Province

- Total 16 Village Health Volunteers from Tambul-Nebilyer district trained in 04 weeks training on maternal and newborn care.
- Provincial Child Advisory Committee is formed and has started functioning with first review meeting conducted in Nov.2018
- KMC and Baby Kol Kilok (BKK) has been rolled out in the province.
- Pediatrician, SIC-labour ward, SIC-SCN, nursing officers from labour ward &SCN (total 15) are oriented on KMC.
- Total 11 preterm newborns admitted to SCN were counselled on KMC and given the BKK.

“Saving Life, Spreading Smiles”

Kundiawa Hospital (Simbu)

- KMC and Baby Kol Kilok (BKK) has been rolled out in Kundiawa Hospital in November.
- SIC-labour ward, SIC- SCN, SIC- Gynea., and nursing officers from labour ward and SCN (total 06) are oriented on KMC.
- Total 01 preterm newborns admitted to SCN have been counselled on KMC and given the BKK.



EENC Achievement

- Launch of **“Saving Lives, Spreading Smiles”** Project at National Parliament in September 2018.
- The coverage of EENC training increased from **11 in 2017 to 16 provinces in 2018 and 21 in 2019**
- EENC training roll out in **05 new provinces** : Western, Southern Highland, West New Britain, Enga and Hela. Recently Milne Bay was added to the list.

Achievement

- **Additional 55 health facilities** equipped with EENC trained staff and life saving devices, increasing the coverage from 231 in 2017 to 286 health facilities in 2018 (target 413).
- **Now 359 in 2019 (Target 413)**
- EENC reporting increased from **06 provinces in 2017 to 13 provinces in 2018** (SHP, WHP, Chimbu, EHP, Madang, E.Sepik, W. Sepik, Western, Gulf, ARoB, NCD, Central, WNB)
- **Now 21 Provinces in 2019, 1 more Province (Oro) remaining before EENC roll out is covered Nationally**

EENC training achievement

Category of staff	Trained in 2018	Total trained (cumulative)
Obstetricians	06	18
Paediatricians	03	16
Medical officers	02	20
Midwives	38	217
Nurses	55	250
HEO	06	76
CHW	73	515
Training institute faculty	03	09
Others	06	26
Total	192	1147

EENC implementation 2018

Ten provinces sending the EENC implementation report

Indicators	Numbers
Total Live Births	16091
Newborns with skin to skin care immediately after delivery	12750 (81%)
Resuscitated (Bag and Mask)	327
Newborn initiated breastfeeding with 01 hour after delivery	14066 (88%)

EENC implementation 2018-2019

16 provinces sending the EENC implementation report

Indicators	Numbers
Total Live Births	19041
Newborns with skin to skin care immediately after delivery	9907
Resuscitated (Bag and Mask)	313
Newborn initiated breastfeeding with 01 hour after delivery	24728

“Saving Lives, Spreading Smiles” Planning for 2019

- **EENC Roll out** in remaining 1 Province increasing coverage to all 22 provinces.
- **Non Pneumatic Anti Shock Garment (NASG) roll out** in partnership with PNG O/G Society: first training in January 2019 at PMGH.
- **KMC roll out** in 4 regional hospitals- PMGH, Morobe, WNB, WHP.

Planning...2019

- Supply of EENC training logistics (manikins, ambu bags, delivery sets etc.)
 - for **pre-service EENC** to all the Medical (02), Nursing (12) and CHW (18) institutions.
 - For **in-service EENC** to all 12 provinces.
- Supply of **Neonatal life saving devices** (AMBU bag, delivery set, penguin sucker) to all the health facilities.
- **Strengthening reporting** by bringing all the EENC provinces in **EENC reporting system**.

EENC Reporting: Part of routine National Health Information System

National Health Information System
Monthly Report

Health Facility: _____ District: _____ Month/Year: _____

NB: The Oic health facility should ensure that completed monthly report is submitted to the Provincial office (PHO) before the 7th day of the preceding month. In January 2018 report ought to be submitted by 7th February 2018.

Aidposts		No. of aidposts open		No. of aidposts visited	
Outpatients		Male	Female	Inpatients	
Diphtheria				Discharges	
Neonatal Tetanus				Male	Female
Acute Flaccid Paralysis (AFP)				Male	Female
Measles (suspected)				Male	Female
Perussis				Male	Female
Simple Cough				Male	Female
Pneumonia	< 1 yr			Neonatal Sepsis	
	1 - 4 yrs			< 1 yr	
	5 yrs+			1 - 4 yrs	
Chr. Obst. Pulmon. Dis.				5 yrs+	
Asthma				Chr. Obst. Pulmon. Dis.	
Other Respiratory Diseases				Asthma	
Diarrhoea	< 1 yr			Other Respiratory diseases	
	1 - 4 yrs			< 1 yr	
	5 yrs+			1 - 4 yrs	
Malaria clinical	0 - 4 yrs			5 yrs+	
Diagnosis	0 - 4 yrs			Malaria clinical	
	5 - 14 yrs			Diagnosis	
	15 yrs+			0 - 4 yrs	
	Pregnant			5 - 14 yrs	
Malaria cases	0 - 4 yrs			15 Yrs+	
confirmed by	0 - 4 yrs			Pregnant	
RDT or	5 - 14 yrs			Malaria cases	
Microscopy	15 yrs+			confirmed by	
	Pregnant			RDT or	
Fever of unknown cause				Microscopy	
Amebiasis				0 - 4 yrs	
				5 - 14 yrs	
				15 Yrs+	
				Pregnant	

Deliveries

- Deliveries in health facility (live & still birth)
- Teenage pregnancy (< 20 years)
- Deliveries with complications
 - Resuscitated by bag and mask
 - Transferred to hosp (risk or complications)
 - Birth weight < 2500 gram
 - Still births
 - Initiated breastfeeding within first 1 hr
 - Skin to skin immediately after delivery
 - Kangaroo Mother Care
 - Bebi Kol Kilok

SITUATIONALIZED

- Maternal deaths (in facility)
- Maternal deaths (not in facility)
- Born before arrival (BBA)
- Village births attended

bOPV
(Sabin)

> 1 yr
1st dose < 1 yr
2nd dose < 1 yr
3rd dose < 1 yr

IPV
PCV 13

> 1 yr
3-11 months
1st dose < 1 yr
2nd dose < 1 yr
3rd dose < 1 yr

Measles Rubella
(MR)

> 1 yr
6 - 8 Mths
9-17 mths
18-23 Mths

Vitamin A

> 24 Mths
6 - 11 Months

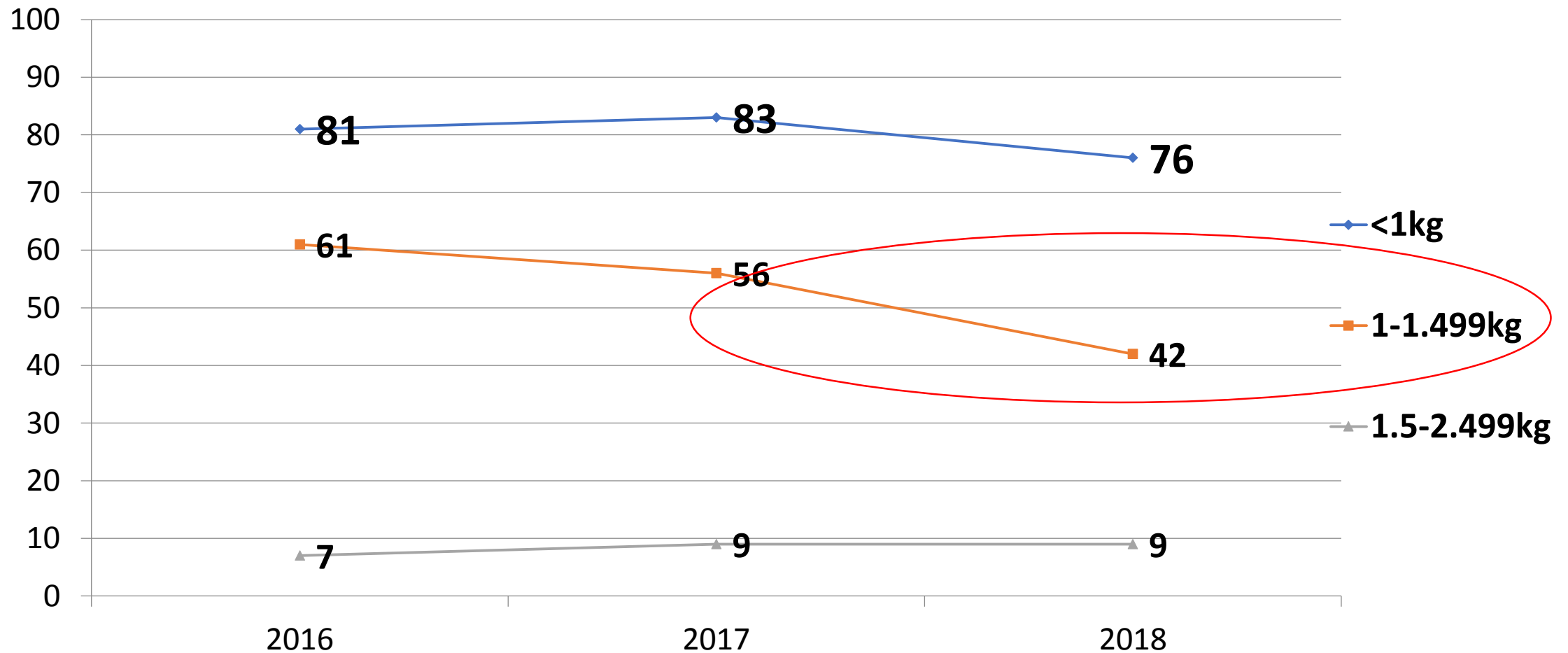
Albendazole

12 - 59 Months
12 - 59 Mths

GLIMMER OF HOPE

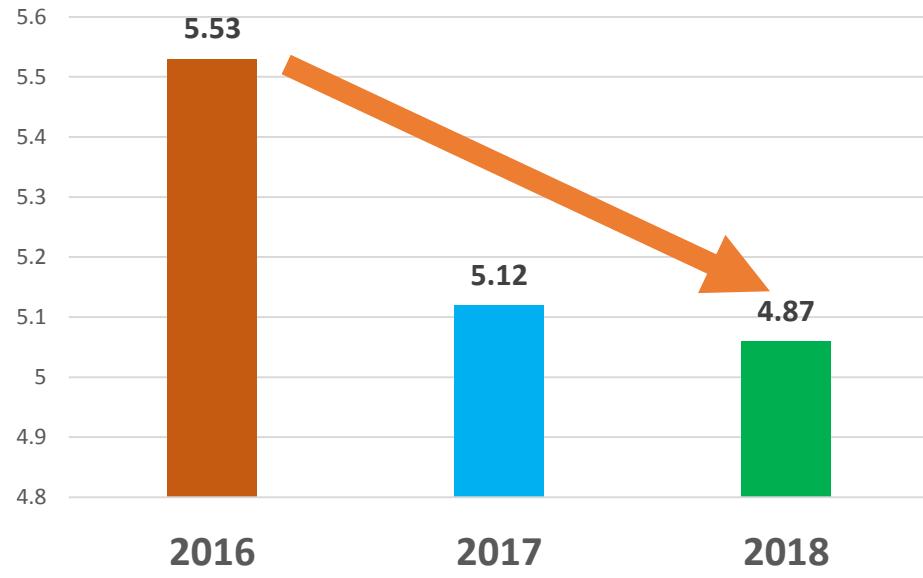
Mortality by weight...shows downward trend also at the national level

(PHR 2018, PMGH Annual report 2016-2018)

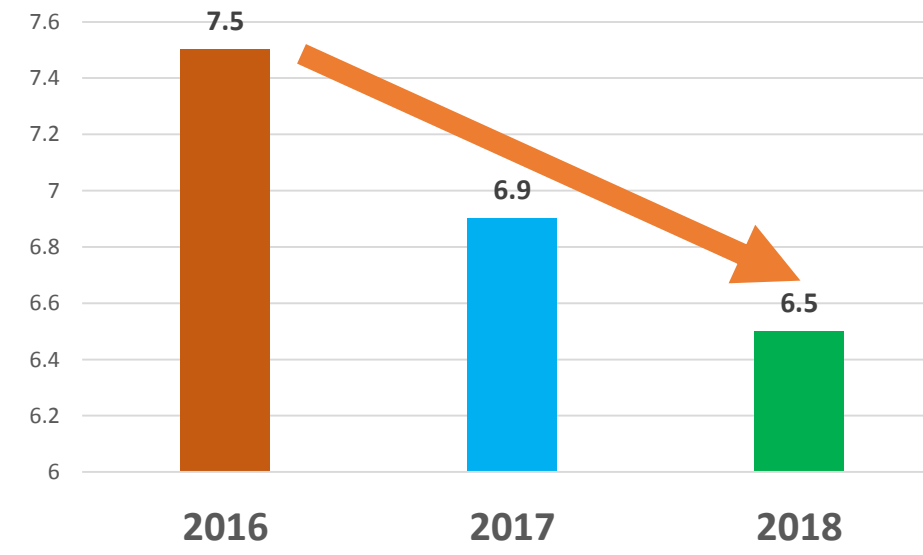


Reduction of Post-Partum Hemorrhage (PPH)

Year	Mount Hagen Provincial Hospital		
	Total Deliveries	PPH	%PPH
2016	5210	288	5.53
2017	5265	269	5.12
2018	5175	252	4.87



Year	Port Moresby General Hospital		
	Total Deliveries	PPH	%PPH
2016	14307	1073	7.5
2017	13653	942	6.9
2018	13882	902	6.5



Sources: Labour Room Register

Challenges:

- Sustainability
 - Late in reporting EENC monthly data.
 - Delay in logistics

Neonatal sepsis.



- Strict hand washing and other basic infection control measures
- Ensure hand rub available at all times
- Soap and water

KMC – Universally accepted practise for preterm babies...can be done at Health Centre



In Hospital and at home upon discharge..



Delivering Health care in PNG



Geographical and Cultural challenges



Strengthen our Health Care System

- Infrastructure, Clean water, Electricity
- ANC - VDRL/HIV
- Drugs & consumables
- Skilled Health workers
- Effective referral pathways



With stronger health systems, we can continue to Save Lives and put smiles on families...



Preterm 31 weeks, Wt 1.1kg



Now about 1 year, Wt 9kg

Acknowledgment

- UNICEF
- WHO
- NDoH
- Dr J AMINI & PAEDIATRIC SOCIETY PNG
- PROF. TREVOR DUKE – PHR & CHILD HEALTH REPORTS (2016 -2018)
- DR K SOBI – CO-ORDINATOR PAEDIATRICS (PMGH REPORTS & RELEASING TRAVEL)
- FACILTATORS – Dr K Sanga, Sr A Baira
- DR G VALI & OUR SCN TEAM
- Mrs FREDA WALAI SUI, GABRIEL UAIZ & NEW BORN TEAM (NDoH)

OUR BABY IS MY RESPONSIBILITY TOO... THANK YOU

