

Countdown Coverage Indicators

Capacity Building Workshop Pelotas, 17-21 June 2013

Session Outline

- 1. The basics
- 2. Countdown coverage indicators
- 3. Standard tables and graphs
- 4. A closer look: the CoIA coverage indicators
- 5. Things to watch out for!



Part 1

THE BASICS ON COUNTDOWN AND COVERAGE TRACKING

Coverage and Countdown

- Tracking country-specific coverage for proven RMNCH interventions is at the heart of Countdown
- The aim is for each country to achieve high, sustained and equitable coverage for interventions across the continuum of care

What is coverage?

The proportion of individuals who need a service or intervention who *actually receive it*

What does a "good" coverage indicator look like?

Numerator:

All those who need a service or intervention who actually receive it.

Denominator:

All those who need a service or intervention.



Part 2

INTRODUCTION TO THE COUNTDOWN COVERAGE INDICATORS

How were Countdown coverage indicators selected?

- Formal criteria:
 - Intervention has proven impact on MNC survival
 - 2) Intervention is feasible for delivery at scale in most Countdown countries
 - Global coverage indicator defined, measured in core DHS & MICS questionnaires, and data available for most Countdown countries
- Periodic review using consultative process to update list of indicators

Two types of sources for estimates of indicator levels

Household survey estimates (recalculated)

- For case studies and secondary analysis, use household survey data and recalculate using standard formulas
- If not DHS/MICS, review survey quality:
 - Procedures for training, field supervision, data entry
 - Sample design and implementation
 - Data quality checks

Interagency estimates* (addressed in separate session)

- For global monitoring and profiles (not you!):
 - Vaccines
 - Vitamin A
 - Water and sanitation
 - HIV Tx and PMTCT
- The session later today will address whether you should plan to recalculate these indicators using survey data

^{*}See Annex A of 2012 CD report for explanation of sources.

Respect the Countdown standards!

Key reference document:



Annex B of the 2012 CD Report, starts on p. 206.

Standards to be respected:

- Label used for intervention (indicator name)
- Exact definition as listed in Annex
- Variable names (based on Pelotas group)
- Coverage indicators must be recalculated to confirm levels; can use Pelotas recalculations if they are available

Countdown Coverage Indicators

Pelotas team has recalculated:

- Demand for FP satisfied
- Antenatal care (≥ 1 visit)
- Antenatal care (4+ visits, DHS only)
- Skilled attendant at birth
- C Section
- Early initiation of breastfeeding
- Children sleeping under ITNs
- DTP3
- Measles
- Vitamin A supplementation
- ORT
- Careseeking for pneumonia
- Water and sanitation

You may need to recalcuate:

- Antenatal care (≥ 4 visits, MICS)
- IPTp
- C Section
- Neonatal tetanus protection
- Postnatal care (mother & babies)
- Hib3 (delivered with DTP3)
- Antibiotic tx for pneumonia
- ORS
- Antimalarial Tx
- Exclusive breastfeeding
- Introduction to semi/solid foods

Questions we expect you to ask

1. What if we want to look at additional indicators?

Fine. Please just be sure to also analyze the standard CD indicators where relevant, and to be transparent in describing how the additional indicators are defined.

2. Do country case study teams need to report on ALL the CD indicators?

No. Just those: 1) that are relevant to the focus of your case study or secondary analysis; and 2) for which adequate quality data are available.

3. What if we have household surveys other than MICS or DHS that might contribute to the case study or secondary analysis? Can we use them?

Yes, IF the surveys meet quality standards with respect to how the survey was designed, the survey sample, the procedures and quality control mechanisms that were in place, and produced the data needed to measure the indicators in the standard way. Any deviations from these criteria need to be described and their potential effect on the validity of the coverage estimates addressed.

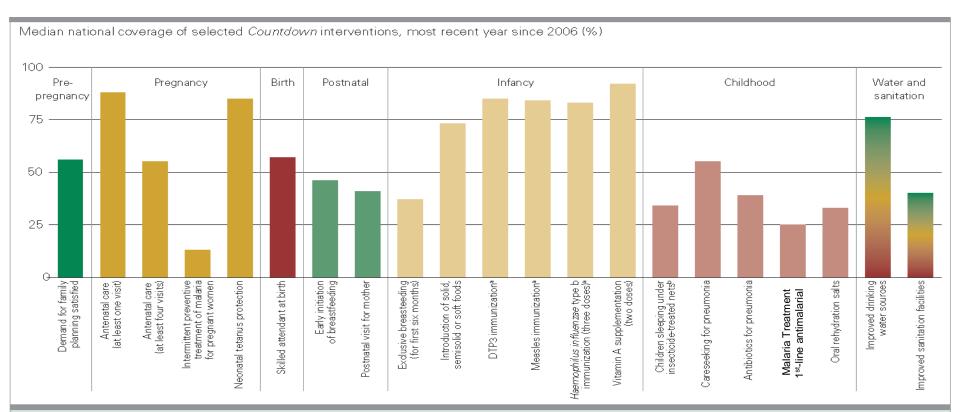


Part 3

STANDARD TABLES AND GRAPHS



Standard graph (for workshop practical sessions)



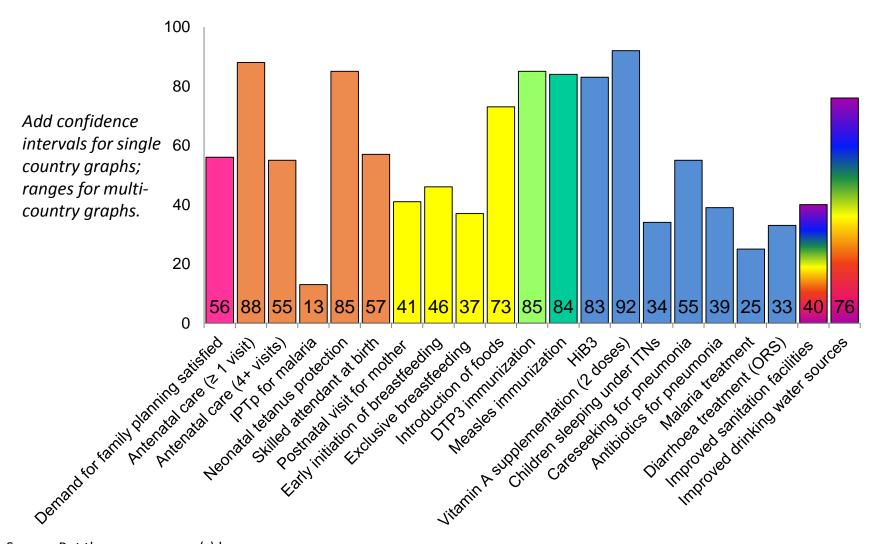
- a Data are for 2010
- b. Analysis is based on countries with 75% or more of the population at risk of p. falciparum transmission.

Source: Immunization rates, WHO and UNICEF; postnatal visit for mother, Saving Newborn Lives analysis of Demographic and Health Surveys; improved water and sanitation, WHO and UNICEF Joint Monitoring Programme 2012; all other indicators, UNICEF global databases, April 2012, based on Demographic and Health Surveys, Multiple Indicator Cluster Surveys and other national surveys.

Source: 2012 Countdown report, p. 23.

Sample graph for coverage: Add title here

Pre-pregnancy → Pregnancy → Birth → Postnatal → Neonatal → Infancy → Childhood



Source: Put the source survey(s) here

Standard Table

ndicator	Number of countries with data	Median coverage (%)	Range (%)
Pre-pregnancy			
Demand for family planning satisfied	46	56	17-97
Pregnancy			
Antenatal care (at least one visit)	69	88	26-100
Antenatal care (at least four visits)	49	55	6-97
Intermittent preventive treatment of malaria for pregnant women ^a	39	13	0-69
Neonatal tetanus protection	66	85	60-94
Birth			
Skilled attendant at birth	67	57	10-100
Postnatal			
Early initiation of breastfeeding	55	46	18-81
Postnatal visit for mother	22	41	22-87
Postnatal visit for baby ^b	4	50	8-77
Infancy			
Exclusive breastfeeding	57	37	1-74
Introduction of solid, semisolid or soft foods	39	73	16-94
Diphtheria-tetanus-pertussis (three doses)	74	85	33-99
Measles immunization	73	84	46-99
Haemophilius influenzae type b immunization (three doses)	58	83	45-99
Vitamin A supplementation (two doses)	56	92	0-100
Childhood			
Children sleeping under insecticide-treated nets ^a	36	34	3-70
Careseeking for pneumonia	57	55	13-83
Antibiotic treatment for pneumonia	45	39	3-88
Malaria treatment (first-line antimalarial) ^a	31	25	0-91
Oral rehydration therapy with continued feeding ^b	53	45	7-68
Oral rehydration salts	57	33	10-77
Water and sanitation			
Improved drinking water sources (total)	70	76	29-99
Improved sanitation facilities (total)	71	40	9-100

Source: 2012 Countdown report, p. 24.

Sample table for coverage: Add title here

Indicator	(No. of countries with data)	(Median) coverage (%)	(Range) Confidence Interval (%)
Demand for family planning satisfied			
Antenatal care (at least one visit)			
Antenatal care (at least four visits)			
Intermittent preventive treatment of malaria for pregnant women			
Neonatal tetanus protection			
Skilled attendant at birth			
Early initiation of breastfeeding			
Postnatal visit for mother			
Postnatal visit for baby			



Part 4

A CLOSER LOOK: THE COIA COVERAGE INDICATORS

CoIA Coverage Indicator #1: Demand for family planning satisfied

Definition

No. of women 15-49 using ≥1 contraceptive method No. of women 15-49 reporting need for family planning

- Limited to women married or in a "union"
- Includes modern & traditional methods
- ColA also refers to this as "met need for contraception"; DHS tables use "met need" to refer to CPR.

- Measured through household surveys (DHS/MICS)
- Requires special analysis combining contraceptive prevalence rate and unmet need for family planning

ColA Coverage Indicator #2: Antenatal care, four or more visits

Definition

No. of women attended

≥ 4 times during pregnancy

No. of women with live birth

- Any provider
- Reason for visit must be related to pregnancy
- Does not reflect specific services provided

Measurement

 Measured through household surveys (DHS/MICS)

CoIA Coverage Indicator #3a: Antiretrovirals for HIV+ women

Definition

No. of HIV+ pregnant women provided with ARV drugs

No. of HIV+ pregnant women

 WHO recommends disaggregation by type of therapy

- Measured through facility reports and national program records
- Can be measured at time of ARV provision or during labor/delivery
- Denominator modeled (usually using Spectrum software)

CoIA Coverage Indicator #3b: Antiretrovirals for HIV+ women

Definition

No. of HIV+ pregnant women who are treatment-eligible provided with ARV drugs
No. of HIV+ pregnant women

Measurement

Same as Coverage Indicator #3a

Need to discuss how this will be handled in CD country case studies.

ColA Coverage Indicator #4: Skilled attendant at birth

Definition

No. of live births attended by skilled health personnel
No. of live births

- Limited to births reported by women 15-49 years of age
- Does not reflect quality of care or specific interventions

Measurement

 Currently measured by surveys (e.g., DHS/MICS)

CoIA Coverage Indicator #5a: Postnatal care for mothers

Definition

No. of women who received postnatal care within two days of birth Women with a live birth

- Includes home and facility deliveries
- Does not reflect specific services provided

Measurement

 Currently measured by surveys (e.g., DHS/MICS)

CoIA Coverage Indicator #5b: Postnatal care for babies

Definition

babies

No. of most-recently-born babies who received postnatal care within two days of birth
No. of most-recently-born

- Includes home and facility deliveries
- Does not reflect specific services provided

- Currently measured by surveys (e.g., DHS/MICS)
- UNICEF working on combined indicator for mothers and babies

ColA Coverage Indicator #6: Excusive breastfeeding up to 6 months

Definition

No. of infants 0-5 months who are exclusively breastfed
No. of infants 0-5 months

Exclusive breastfeeding means not even water!

- Currently measured by surveys (e.g., DHS/MICS)
- Tricky!

Coverage Indicator #7: AB treatment for childhood pneumonia

Definition

No. of children 0-59 months with suspected pneumonia receiving antibiotics
No. of children 0-59 months with suspected pneumonia

Recall period = 2 weeks

- Currently measured by surveys (e.g., DHS/MICS)
- Pneumonia prevalence varies by season!
- Recent findings indicate this indicator is not "fit for purpose"; recommending careseeking for pneumo be added to core list



Part 5

THINGS TO WATCH OUT FOR!

Common problems with coverage indicators - 1

1. The denominator is not representative

- If measured in health service settings, represent only those in contact with health services
- If diagnosis required, limited to those with a correct diagnosis

Example:

PMTCT Coverage = % of all HIV-positive pregnant women who received a complete course of ART prophylaxis

BUT

- Measured only among women tested and found HIV+
- Usually measured in antenatal care settings

Common problems with coverage indicators - 2

2. No quality control

- Intervention may be delivered, but with poor quality
- Contact with a service does not mean intervention was actually delivered

Example:

Antenatal care (4 or more visits) = % of women attended at least 4 times during pregnancy by any provider (skilled or unskilled) for reasons related to the pregnancy

BUT

- Does not specify the interventions delivered during antenatal care
- Does not mean that intervention was delivered at level of quality needed for clinical benefit

Common problems with coverage indicators - 3

3. Recognition or recall bias

- Can affect both numerator or denominator
- Affected by type of intervention and length of recall period

Example:

Antibiotic treatment for childhood pneumonia = % of children aged 0-59 months with suspected pneumonia receiving antibiotics

BUT

Correct measurement requires all of the following ⇒

Prerequisite

Child has pneumonia

Caregiver recognizes pneumonia

Caregiver gives antibiotic

Effective AB

Correct dose

Completes full course

Caretaker remembers

Caretaker reports accurately A true measure of coverage requires good measurement at each of these steps!

Things to watch out for in analysis

- 1. Changes in indicator definitions between surveys
- 2. Weighting of survey samples
- 3. Recall periods
- 4. Size of samples, especially for subnational estimates

Things to watch out for in interpreting the results

- 1. An "indicator" is just an indicator what do the rest of the data say?? Triangulate where possible!
- 2. Are the results consistent with what the case study team learns about investments and implementation strength and policies and contextual factors?
- 3. Can you rule out alternative explanations for changes in coverage or impact?



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