

Mapped newborn data
availability in routine Health
Information Systems

**EN-MINI mapping tool results:
Tanzania – June 2022**



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Section 1. Summary of RHIS newborn data mapping completed

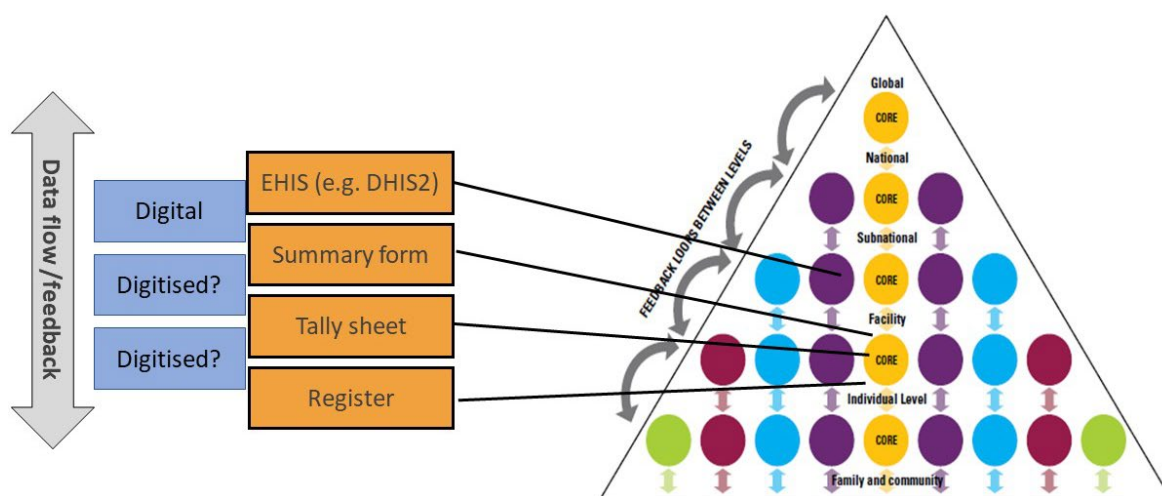
Background

Section one of this report provides an overview of the newborn data available in routine health information systems (RHIS) and sources mapped.

Newborn data are indicators and data elements (indicators, numerators, and denominators) categorized into types: (a) newborn-specific data, related directly (physically) to the newborn, (b) newborn-related data, connected to the newborn through the mother/family -other non-newborn data, and (c) not related to the newborn data.

Mapped data are summarized by the flow through the data pyramid levels (see Figure 1): Register, Tally Sheet, Summary form, and Electronic Health Information System (e.g., DHIS2). Any of these levels may be currently digitized.

Figure 1. Data flow example



Results

RHIS data levels: **4** (Register, Summary Form, Tally Sheet, Electronic Health Information System (DHIS2))

Total data elements or indicators mapped: **1183**

RHIS data sources: **21**

The documents included in this report are:

Register – Labor and delivery

Summary Form – Labor and delivery

Tally Sheet – Labor and delivery

Electronic Health Information System (DHIS2) – Labor and delivery

Electronic Health Information System (DHIS2) – RCH: Labour and delivery

Register – KMC

Electronic Health Information System (DHIS2) – Postnatal Care

Register – Postnatal Care, Summary Form – Postnatal Care

Tally Sheet – Postnatal Care

Electronic Health Information System (DHIS2) – RCH: Postnatal

Summary Form – IPD

Tally Sheet – IPD

Register – Family Planning

Summary Form – Family Planning

Tally Sheet – Family Planning, Register – IPD

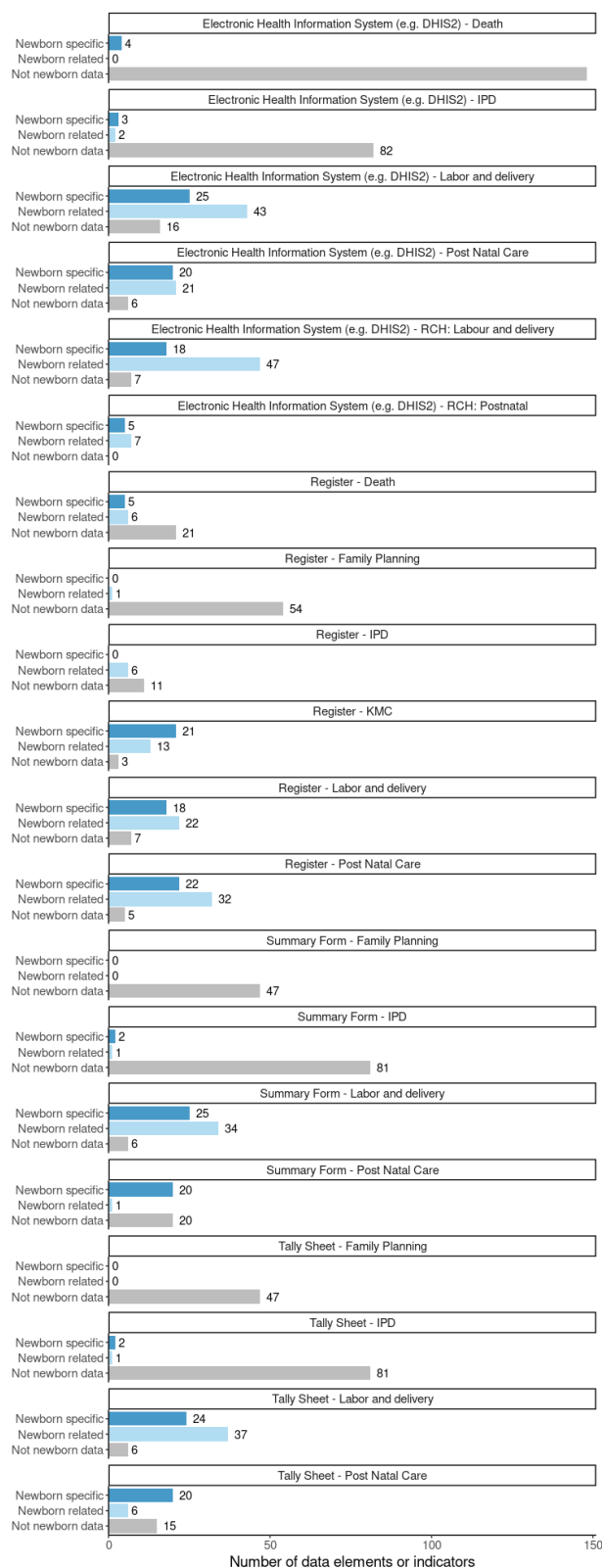
Electronic Health Information System (DHIS2) – IPD

Electronic Health Information System (DHIS2) – Death

Register – Death

Types of indicators and data elements: mapped newborn specific, newborn related, and other non-newborn are shown in Figure 2.

Figure 2. Overview of number of types of newborn indicators and data elements available at levels of the RHIS



Section 2. Electronic RHIS newborn indicator and data element availability

Background

Section two of this report summarizes newborn data for indicator measurement in the Electronic RHIS, if this data level was mapped. This section uses each WHO- or nationally recommended core/optional newborn indicator and presents data availability and fidelity to standardized definitions.

The standard indicators and definitions are selected from the Mother and Newborn Information for Tracking Outcomes and Results (MoNITOR) online indicator Toolkit (version titled: “indicator_database_13Nov2020.xlsx”) which can be found here <https://monitor.srhr.org/>. If country-specific changes were made to the EN-MINI Mapping Tool o “Definitions” worksheet, Table 1 will report these updated indicators. Definitions are shown in Appendix 1.

This section highlights opportunities to close the gap for data to track newborn health using standardized definitions.

Results

Table 1 shows the mapping results for current availability of key newborn data elements and indicators in the Electronic RHIS (DHIS2). Where numerator and denominator are available, but full indicator shows in Table 1 “not available” this means the indicator currently needs to be calculated manually.

Table 1 1. Indicators in the Electronic RHIS

Indicator name	Type	Numerator	Denominator	Full indicator
Institutional maternal mortality ratio (per 100,000 deliveries)	Impact	All definitions exact	All definitions exact	All definitions exact
Stillbirth rate in a health facility	Impact	All definitions exact	All definitions exact	All definitions exact
Pre-discharge neonatal mortality rate	Impact	All definitions exact	All definitions exact	All definitions exact
Low birth weight among livebirths (%)	Impact	All definitions exact	All definitions exact	All definitions exact
Preterm birth (facility based)	Impact	Not available	All definitions exact	Not available
Caesarean section rate	Outcome	All definitions exact	All definitions exact	All definitions exact
Postnatal care for women (Facility-based)	Outcome	All definitions exact	All definitions exact	All definitions exact
Postnatal care for newborns (Facility-based)	Outcome	All definitions exact	All definitions exact	All definitions exact
Newborns breastfed within one hour of birth	Outcome	All definitions exact	All definitions exact	All definitions exact

Indicator name	Type	Numerator	Denominator	Full indicator
Newborn resuscitation with bag and mask	Outcome	All definitions exact	All definitions exact	All definitions exact
Premature (LBW) babies initiating KMC	Outcome	All definitions exact	Not available	All definitions exact
Newborns treated for neonatal sepsis/infection	Outcome	All definitions exact	All definitions exact	Not available
Chlorhexidine cord cleansing	Outcome	Not available	All definitions exact	Not available
Antenatal corticosteroid use	Outcome	Not available	All definitions exact	Not available
Newborns with documented birth weight	Outcome	All definitions exact	All definitions exact	Not available
Companion of choice during labor and/or childbirth	Outcome	Not available	Not available	Not available
[Mother & newborn services without separation] UNDEFINED		Not available	All definitions exact	Not available
[Measure of respectful experience of care] UNDEFINED		Not available	All definitions exact	Not available
Level 2 inpatient unit for small or sick newborns (ENAP coverage target - Being defined)		Not available	All definitions exact	Not available
[Respiratory support for small or sick newborns including continuous positive airway pressure (CPAP)] being defined		Not available	All definitions exact	Not available
Uterotonic for prevention of post-partum hemorrhage	Outcome	All definitions exact	All definitions exact	Not available

Section 3. All levels RHIS – Newborn indicators and data element availability with WHO- or nationally recommended definitions

Background

Section three of this report summarizes newborn data for indicator measurement at all levels of the RHIS that have been mapped. This section shows all occurrences in RHIS where definitions match standardized WHO- or nationally recommended core/optional newborn indicators.

This section can be used to identify which sources capture data to calculate the indicator. Consider whether indicator numerators and denominators are available from the same source.

Results

Table 2 shows a summary of numerators, denominators, and indicators which meet the exact WHO- or nationally recommended definition.

Table 2 2. Sources of WHO- or nationally recommended definitions for numerators, denominators, indicators

Indicator	Data level	Document source	Indicator/element/register column name	Numerator	Denominator	Full indicator
Caesarean section rate	Register	Labor and delivery	Njia ya kujifungua - Mode of delivery	Available	Not available	Not available
Newborn resuscitation with bag and mask	Register	Labor and delivery	Amesaidiwa kupumua (HBB) - Helping baby breathe (HBB)	Available	Not available	Not available
Newborns breastfed within one hour of birth	Register	Labor and delivery	Amenyonyeshwa ndani ya saa moja baada ya kuzaliwa - Breastfed within one hour after delivery	Available	Not available	Not available
Newborns with documented birth weight	Register	Labor and delivery	Uzito wa mtoto - Weight of the baby	Available	Not available	Not available
Postnatal care for newborns (Facility-based)	Register	Labor and delivery	Tathmini ya mtoto baada ya saa 24 - Evaluation of the baby after 24 hours	Available	Not available	Not available
Stillbirth rate in a health facility	Register	Labor and delivery	FSB (Fresh Still Birth) /MSB (Macerated Still Birth) - FSB (Fresh Still Birth)/MSB (Macerated Still Birth)	Available	Not available	Not available

Indicator	Data level	Document source	Indicator/element/ register column name	Numerator	Denominator	Full indicator
Uterotonic for prevention of post-partum hemorrhage	Register	Labor and delivery	Dawa alizopewa baada ya kujifungua - Medication given after delivery	Available	Not available	Not available
Newborns treated for neonatal sepsis/infection	Register	Labor and delivery	Mama amepewa dawa/ sindano ya antibiotic - EmOC services: Mother given antibiotic tablets/injection	Available	Not available	Not available
Uterotonic for prevention of post-partum hemorrhage	Register	Labor and delivery	Mama amepewa Oxytocin, Ergometrine, Misoprostol - EmOC services: Mother given Oxytocin, Ergometrine, Misoprostol	Available	Not available	Not available
Institutional maternal mortality ratio (per 100,000 deliveries)	Register	Labor and delivery	Hali ya Mama na Mtoto wakati wa kuruhusiwa kutoka wodi ya wazazi na kujifungua - Mother condition during discharge from Labor Ward (alive/dead)	Available	Not available	Not available
Pre-discharge neonatal mortality rate	Register	Labor and delivery	Chunguza na andika hali ya mtoto - Baby condition during discharge from Labor Ward	Available	Not available	Not available
Caesarean section rate	Summary Form	Labor and delivery	Caesarian Section (CS)	Available	Not available	Not available
Uterotonic for prevention of post-partum hemorrhage	Summary Form	Labor and delivery	Idadi ya wanawake waliopata Oxytocin baada ya kujifungua - Number of women receiving Oxytocin after childbirth	Available	Not available	Not available
Uterotonic for prevention of post-partum hemorrhage	Summary Form	Labor and delivery	Idadi ya wanawake waliopata Egometrine baada ya kujifungua - Number of women who received Egometrine after childbirth	Available	Not available	Not available
Uterotonic for prevention of post-partum hemorrhage	Summary Form	Labor and delivery	Idadi ya wanawake waliopata Misoprostol baada ya kujifungua - Number of women receiving Misoprostol after childbirth	Available	Not available	Not available
Postnatal care for newborns (Facility-based)	Summary Form	Labor and delivery	Waliochagua kunyonyesha maziwa ya mama pekee (EBF) - Those who choose to exclusively breastfeed (EBF)	Available	Not available	Not available

Indicator	Data level	Document source	Indicator/element/ register column name	Numerator	Denominator	Full indicator
Postnatal care for newborns (Facility-based)	Summary Form	Labor and delivery	Waliochagua ulishaji wa maziwa mbadala (RF) - Artificial breastfeeding (RF)	Available	Not available	Not available
Stillbirth rate in a health facility	Summary Form	Labor and delivery	Waliozaliwa wafu Macerated (MSB) - Macerated (MSB)	Available	Not available	Not available
Stillbirth rate in a health facility	Summary Form	Labor and delivery	Waliozaliwa wafu Fresh (FSB) - Fresh still Birth (FSB)	Available	Not available	Not available
Newborns with documented birth weight	Summary Form	Labor and delivery	Waliozaliwa hai Uzito<2.5kg - Live birth weight <2.5kg	Available	Not available	Not available
Low birth weight among livebirths (%)	Summary Form	Labor and delivery	Waliozaliwa hai Uzito<2.5kg - Live birth weight <2.5kg	Available	Not available	Available
Newborns with documented birth weight	Summary Form	Labor and delivery	Waliozaliwa hai Uzito =>2.5kg - Live birth weight =>2.5kg	Available	Not available	Not available
Newborn resuscitation with bag and mask	Summary Form	Labor and delivery	Idadi ya watoto waliosaidiwa kupumua- bag and mask - Helping babies breathe with bag and mask	Available	Not available	Not available
Newborns breastfed within one hour of birth	Summary Form	Labor and delivery	Idadi ya watoto walionyonyeshwa ndani ya saa moja baada ya kuzaliwa - Number of babies breastfed within one hour after birth	Available	Not available	Not available
Caesarean section rate	Tally Sheet	Labor and delivery	Caesarian Section (CS)	Available	Not available	Not available
Uterotonic for prevention of post-partum hemorrhage	Tally Sheet	Labor and delivery	Idadi ya wanawake waliopata Oxytocin baada ya kujifungua Number of women receiving Oxytocin after childbirth	Available	Not available	Not available
Uterotonic for prevention of post-partum hemorrhage	Tally Sheet	Labor and delivery	Idadi ya wanawake waliopata Egometrine baada ya kujifungua	Available	Not available	Not available

Indicator	Data level	Document source	Indicator/element/ register column name	Numerator	Denominator	Full indicator
Uterotonic for prevention of post-partum hemorrhage	Tally Sheet	Labor and delivery	Idadi ya wanawake waliopata Misoprostol baada ya kujifungua Number of women receiving Misoprostol after childbirth	Available	Not available	Not available
Postnatal care for newborns (Facility-based)	Tally Sheet	Labor and delivery	Waliochagua kunyonyesha maziwa ya mama pekee (EBF) - Those who choose to exclusively breastfeed (EBF)	Available	Not available	Not available
Postnatal care for newborns (Facility-based)	Tally Sheet	Labor and delivery	Waliochagua ulishaji wa maziwa mbadala (RF) - Artificial breastfeeding (RF)	Available	Not available	Not available
Newborns with documented birth weight	Tally Sheet	Labor and delivery	Waliozaliwa hai Uzito<2.5kg - Live birth weight <2.5kg	Available	Not available	Not available
Low birth weight among livebirths (%)	Tally Sheet	Labor and delivery	Waliozaliwa hai Uzito<2.5kg - Live birth weight <2.5kg	Available	Not available	Not available
Newborns with documented birth weight	Tally Sheet	Labor and delivery	Waliozaliwa hai Uzito =>2.5kg - Live birth Weight => 2.5kg	Available	Not available	Not available
Stillbirth rate in a health facility	Tally Sheet	Labor and delivery	Waliozaliwa wafu Macerated (MSB) - Macerated (MSB)	Available	Not available	Not available
Stillbirth rate in a health facility	Tally Sheet	Labor and delivery	Waliozaliwa wafu Fresh (FSB) - Fresh still Birth (FSB)	Available	Not available	Not available
Newborns with documented birth weight	Tally Sheet	Labor and delivery	Waliozaliwa hai Uzito =>2.5kg - Live birth weight =>2.5kg	Available	Not available	Not available
Newborn resuscitation with bag and mask	Tally Sheet	Labor and delivery	Idadi ya watoto waliosaidiwa kupumua - bag and mask - Helping babies breathe - bag and mask	Available	Not available	Not available
Newborns breastfed within one hour of birth	Tally Sheet	Labor and delivery	Idadi ya watoto walionyonyeshwa ndani ya saa moja baada ya kuzaliwa - Number of babies breastfed within one hour after birth	Available	Not available	Not available

Indicator	Data level	Document source	Indicator/element/register column name	Numerator	Denominator	Full indicator
Caesarean section rate	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Caesarian Section (CS)	Available	Not available	Not available
Uterotonic for prevention of post-partum hemorrhage	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Ergometrine/Oxytocin injectable/ misoprostol-stockout	Available	Not available	Not available
Uterotonic for prevention of post-partum hemorrhage	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Mama waliopata egometrine baada ya kujifungua - Mothers who received egometrine after delivery	Available	Not available	Not available
Uterotonic for prevention of post-partum hemorrhage	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Mama waliopata misoprostol baada ya kujifungua - Mothers who received misoprostol after childbirth	Available	Not available	Not available
Uterotonic for prevention of post-partum hemorrhage	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Mama waliopata oxytocin baada ya kujifungua - Mothers who received oxytocin after childbirth	Available	Not available	Not available
Low birth weight among livebirths (%)	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Mapacha waliozaliwa hai uzito<2.5kg - Twins live birth weight <2.5kg	Available	Not available	Not available
Newborns with documented birth weight	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Mapacha waliozaliwa hai uzito<2.5kg - Twins live birth weight <2.5kg	Available	Not available	Not available
Low birth weight among livebirths (%)	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Mapacha waliozaliwa hai uzito=>2.5kg - Twins live birth weight =>2.5kg	Available	Not available	Not available
Newborns with documented birth weight	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Mapacha waliozaliwa hai uzito=>2.5kg - Twins live birth weight =>2.5kg	Available	Not available	Not available

Indicator	Data level	Document source	Indicator/element/ register column name	Numerator	Denominator	Full indicator
Newborns with documented birth weight	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Waliozaliwa hai Uzito<2.5kg - Live birth weight <2.5kg	Available	Not available	Not available
Low birth weight among livebirths (%)	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Waliozaliwa hai Uzito<2.5kg - Live birth weight <2.5kg	Available	Not available	Not available
Low birth weight among livebirths (%)	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Waliozaliwa Hai uzito=>2.5kg - Live birth weight =>2.5kg	Available	Not available	Not available
Newborns with documented birth weight	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Waliozaliwa Hai uzito=>2.5kg - Live birth weight =>2.5kg	Available	Not available	Not available
Newborns breastfed within one hour of birth	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Watoto walionyonyeshwa saa moja baada ya kuzaliwa - Newborn Breastfed within one hour of birth	Available	Not available	Not available
Uterotonic for prevention of post-partum hemorrhage	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	% Mothers given uterotonic during AMTSL within 1 hour after delivery	Available	Not available	Not available
Institutional maternal mortality ratio (per 100,000 deliveries)	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	Area 11.2.8 Maternal death audit within 24 hours	Available	Not available	Not available
Newborn resuscitation with bag and mask	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	Children assisted Breathing	Available	Not available	Not available
Newborn resuscitation with bag and mask	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	Children assisted breathing (suction)	Available	Not available	Not available

Indicator	Data level	Document source	Indicator/element/register column name	Numerator	Denominator	Full indicator
Caesarean section rate	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	Delivery Abnormal <20 years rate (C/S, breech, vacuum)	Available	Not available	Not available
Caesarean section rate	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	EAC: Caesarean Sections performed	Available	Not available	Not available
Low birth weight among livebirths (%)	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	EAC: Live births under 2500 grams	Available	Not available	Not available
Stillbirth rate in a health facility	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	EAC: Stillbirths	Available	Not available	Not available
Institutional maternal mortality ratio (per 100,000 deliveries)	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	HPS_Material death audits	Available	Not available	Not available
Pre-discharge neonatal mortality rate	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	HPS_Perinatal death audits	Available	Not available	Not available
Institutional maternal mortality ratio (per 100,000 deliveries)	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	Number of maternal death	Available	Not available	Not available
Low birth weight among livebirths (%)	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	Number of maternal death	Available	Not available	Not available
Newborn resuscitation with bag and mask	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	Percentage of newborn resuscitated	Available	Not available	Not available

Indicator	Data level	Document source	Indicator/element/ register column name	Numerator	Denominator	Full indicator
Stillbirth rate in a health facility	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	Percentage (%) of FSB among reported births	Available	Not available	Not available
Newborns with documented birth weight	Register	KMC	Weight at KMC admission	Available	Not available	Not available
Premature (LBW) babies initiating KMC	Register	KMC	Date of discharge from KMC unit	Available	Not available	Not available
Newborns with documented birth weight	Register	KMC	Weight at discharge	Available	Not available	Not available
Postnatal care for women (Facility-based)	Electronic Health Information System (e.g., DHIS2)	Postnatal Care	Mama waliohudhuria Postnatal kati ya siku ya 3-7 - Mothers attended PNC between 3-7 days	Available	Not available	Not available
Postnatal care for women (Facility-based)	Electronic Health Information System (e.g., DHIS2)	Postnatal Care	Postnatal waliohudhuria huduma baada ya kujifungua ndani ya saa 48 - Postnatal attendance after delivery within 48 hours	Available	Not available	Not available
Postnatal care for women (Facility-based)	Electronic Health Information System (e.g., DHIS2)	Postnatal Care	Postnatal waliomaliza mahudhurio yote ya huduma baada ya kujifungua - Those who finished all postnatal care visits after delivery	Available	Not available	Not available
Postnatal care for newborns (Facility-based)	Electronic Health Information System (e.g., DHIS2)	Postnatal Care	Watoto waliohudhuria mahudhurio yote postnatal - Babies who received all postnatal care attendances	Available	Not available	Not available
Postnatal care for newborns (Facility-based)	Electronic Health Information System (e.g., DHIS2)	Postnatal Care	Watoto waliohudhuria PNC kati ya siku ya 3-7 - PNC within 3-7 days after delivery	Available	Not available	Not available
Premature (LBW) babies initiating KMC	Electronic Health Information System (e.g., DHIS2)	Postnatal Care	Watoto waliozaliwa na uzito <2.5Kg wakapewa KMC - Babies born with <2.5Kg and received KMC	Available	Not available	Not available

Indicator	Data level	Document source	Indicator/element/ register column name	Numerator	Denominator	Full indicator
Low birth weight among livebirths (%)	Electronic Health Information System (e.g., DHIS2)	Postnatal Care	Watoto waliozaliwa na uzito <2.5Kg wakapewa KMC - Babies born with <2.5Kg and received KMC	Available	Not available	Not available
Newborns treated for neonatal sepsis/infection	Electronic Health Information System (e.g., DHIS2)	Postnatal Care	Watoto wenye uambukizo mkali (Septicaemia) - Babies with severe infection (Septicaemia)	Available	Not available	Not available
Newborns breastfed within one hour of birth	Register	Postnatal Care	Unyonyeshaji ndani ya saa moja - Breastfeeding within one hour after delivery (Y/N)	Available	Not available	Not available
Postnatal care for newborns (Facility-based)	Register	Postnatal Care	Tarehe ya hudhuro - Date of child visit	Available	Not available	Not available
Low birth weight among livebirths (%)	Summary Form	Postnatal Care	Idadi ya watoto waliozaliwa nyumbani chini ya 2.5kg - Number of children delivered at home weight <2.5kg	Available	Not available	Not available
Low birth weight among livebirths (%)	Summary Form	Postnatal Care	Idadi ya watoto waliozaliwa nyumbani walioanzishiwa huduma ya kangaroo (KMC) - Number of children delivered at home weight <2.5kg initiating KMC	Available	Not available	Not available
Premature (LBW) babies initiating KMC	Summary Form	Postnatal Care	Idadi ya watoto waliozaliwa nyumbani walioanzishiwa huduma ya kangaroo (KMC) - Number of children delivered at home weight <2.5kg initiating KMC	Available	Not available	Not available
Stillbirth rate in a health facility	Summary Form	Postnatal Care	Vifo vya watoto wachanga waliozaliwa nyumbani (perinatal) - neonatal death born at home	Available	Not available	Not available
Low birth weight among livebirths (%)	Tally Sheet	Postnatal Care	Idadi ya watoto waliozaliwa nyumbani chini ya 2.5kg - Number of children delivered at home weight <2.5kg	Available	Not available	Not available

Indicator	Data level	Document source	Indicator/element/register column name	Numerator	Denominator	Full indicator
Low birth weight among livebirths (%)	Tally Sheet	Postnatal Care	Idadi ya watoto waliozaliwa nyumbani walioanzishiwa huduma ya kangaroo (KMC) - Number of children delivered at home weight <2.5kg initiating KMC	Available	Not available	Not available
Premature (LBW) babies initiating KMC	Tally Sheet	Postnatal Care	Idadi ya watoto waliozaliwa nyumbani walioanzishiwa huduma ya kangaroo (KMC) - Number of children delivered at home weight <2.5kg initiating KMC	Available	Not available	Not available
Stillbirth rate in a health facility	Tally Sheet	Postnatal Care	Vifo vya watoto wachanga waliozaliwa nyumbani (perinatal); - Number of neonatal death for babies born at home	Available	Not available	Not available
Postnatal care for women (Facility-based)	Electronic Health Information System (e.g., DHIS2)	RCH: Postnatal	% ASRH_Waliohudhuria huduma baada ya kujifungua ndani ya saa 48 umri chini ya miaka 20 - % of mothers who receive postnatal within 48 hours age less than 20 years	Available	Not available	Not available
Postnatal care for women (Facility-based)	Electronic Health Information System (e.g., DHIS2)	RCH: Postnatal	% of Mothers who received Post Natal Care within 48 hours (2 days) after delivery - % of Mothers who received Post Natal Care within 48 hours (2 days) after delivery	Available	Not available	Not available
Postnatal care for women (Facility-based)	Electronic Health Information System (e.g., DHIS2)	RCH: Postnatal	% of Mothers who received Post Natal Care within 7 days after delivery	Available	Not available	Not available
Postnatal care for women (Facility-based)	Electronic Health Information System (e.g., DHIS2)	RCH: Postnatal	PS_Postnatal care	Available	Not available	Not available
Newborns with documented birth weight	Summary Form	IPD	Low birth weight and Prematurity complications	Available	Not available	Not available
Newborns treated for neonatal sepsis/infection	Summary Form	IPD	Neonatal Septicaemia (Local infections)	Available	Not available	Not available

Indicator	Data level	Document source	Indicator/element/register column name	Numerator	Denominator	Full indicator
Newborns with documented birth weight	Tally Sheet	IPD	Low birth weight and Prematurity complications	Available	Not available	Not available
Newborns treated for neonatal sepsis/infection	Tally Sheet	IPD	Neonatal Septicaemia (Local infections)	Available	Not available	Not available
Pre-discharge neonatal mortality rate	Electronic Health Information System (e.g., DHIS2)	Death	Death in health facilities - neonatal	Available	Not available	Not available
Institutional maternal mortality ratio (per 100,000 deliveries)	Electronic Health Information System (e.g., DHIS2)	Death	Death in health facilities - maternal	Available	Not available	Not available
Pre-discharge neonatal mortality rate	Register	Death	Mimba ya watoto pacha - Multiple pregnancy?	Available	Not available	Not available
Stillbirth rate in a health facility	Register	Death	Mtoto amezaliwa mfu - Stillbirth	Available	Not available	Not available
Newborns with documented birth weight	Register	Death	Uzito wa mtoto - Birth weight of the baby	Available	Not available	Not available
Institutional maternal mortality ratio (per 100,000 deliveries)	Register	Death	Je marehemu alikuwa mjamzito? - Was the deceased pregnant?	Available	Not available	Not available
Premature (LBW) babies initiating KMC	Register	Labor and delivery	Uzito wa mtoto - Weight of the baby	Not available	Available	Not available
Stillbirth rate in a health facility	Summary Form	Labor and delivery	Jumla ya watoto waliozaliwa hai - Total of live births	Not available	Available	Not available
Newborn resuscitation with bag and mask	Summary Form	Labor and delivery	Jumla ya watoto waliozaliwa hai - Total of live births	Not available	Available	Not available

Indicator	Data level	Document source	Indicator/element/ register column name	Numerator	Denominator	Full indicator
Newborns with documented birth weight	Summary Form	Labor and delivery	Jumla ya watoto waliozaliwa hai - Total of live births	Not available	Available	Not available
Level 2 inpatient unit for small or sick newborns (ENAP coverage target - Being defined)	Summary Form	Labor and delivery	Jumla ya watoto waliozaliwa hai - Total of live births	Not available	Available	Not available
[Respiratory support for small or sick newborns including continuous positive airway pressure (CPAP)] being defined	Summary Form	Labor and delivery	Jumla ya watoto waliozaliwa hai - Total of live births	Not available	Available	Not available
Pre-discharge neonatal mortality rate	Summary Form	Labor and delivery	Jumla ya watoto waliozaliwa hai - Total of live births	Not available	Available	Not available
Low birth weight among livebirths (%)	Summary Form	Labor and delivery	Jumla ya watoto waliozaliwa hai - Total of live births	Not available	Available	Not available
Preterm birth (facility based)	Summary Form	Labor and delivery	Jumla ya watoto waliozaliwa hai - Total of live births	Not available	Available	Not available
Postnatal care for newborns (Facility-based)	Summary Form	Labor and delivery	Jumla ya watoto waliozaliwa hai - Total of live births	Not available	Available	Not available
Newborns breastfed within one hour of birth	Summary Form	Labor and delivery	Jumla ya watoto waliozaliwa hai - Total of live births	Not available	Available	Not available
Newborns treated for neonatal sepsis/infection	Summary Form	Labor and delivery	Jumla ya watoto waliozaliwa hai - Total of live births	Not available	Available	Not available
Chlorhexidine cord cleansing	Summary Form	Labor and delivery	Jumla ya watoto waliozaliwa hai - Total of live births	Not available	Available	Not available

Indicator	Data level	Document source	Indicator/element/ register column name	Numerator	Denominator	Full indicator
Stillbirth rate in a health facility	Tally Sheet	Labor and delivery	Jumla ya watoto waliozaliwa hai - Total of live births	Not available	Available	Not available
Newborn resuscitation with bag and mask	Tally Sheet	Labor and delivery	Jumla ya watoto waliozaliwa hai - Total of live births	Not available	Available	Not available
Newborns with documented birth weight	Tally Sheet	Labor and delivery	Jumla ya watoto waliozaliwa hai - Total of live births	Not available	Available	Not available
Level 2 inpatient unit for small or sick newborns (ENAP coverage target - Being defined)	Tally Sheet	Labor and delivery	Jumla ya watoto waliozaliwa hai - Total of live births	Not available	Available	Not available
[Respiratory support for small or sick newborns including continuous positive airway pressure (CPAP)] being defined	Tally Sheet	Labor and delivery	Jumla ya watoto waliozaliwa hai - Total of live births	Not available	Available	Not available
Pre-discharge neonatal mortality rate	Tally Sheet	Labor and delivery	Jumla ya watoto waliozaliwa hai - Total of live births	Not available	Available	Not available
Low birth weight among livebirths (%)	Tally Sheet	Labor and delivery	Jumla ya watoto waliozaliwa hai - Total of live births	Not available	Available	Not available
Preterm birth (facility based)	Tally Sheet	Labor and delivery	Jumla ya watoto waliozaliwa hai - Total of live births	Not available	Available	Not available
Postnatal care for newborns (Facility-based)	Tally Sheet	Labor and delivery	Jumla ya watoto waliozaliwa hai - Total of live births	Not available	Available	Not available
Newborns breastfed within one hour of birth	Tally Sheet	Labor and delivery	Jumla ya watoto waliozaliwa hai - Total of live births	Not available	Available	Not available

Indicator	Data level	Document source	Indicator/element/ register column name	Numerator	Denominator	Full indicator
Newborns treated for neonatal sepsis/infection	Tally Sheet	Labor and delivery	Jumla ya watoto waliozaliwa hai - Total of live births	Not available	Available	Not available
Chlorhexidine cord cleansing	Tally Sheet	Labor and delivery	Jumla ya watoto waliozaliwa hai - Total of live births	Not available	Available	Not available
Pre-discharge neonatal mortality rate	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Jumla ya mapacha waliozaliwa hai - Total number of live birth twins	Not available	Available	Not available
Low birth weight among livebirths (%)	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Jumla ya mapacha waliozaliwa hai - Total number of live birth twins	Not available	Available	Not available
Preterm birth (facility based)	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Jumla ya mapacha waliozaliwa hai - Total number of live birth twins	Not available	Available	Not available
Postnatal care for newborns (Facility-based)	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Jumla ya mapacha waliozaliwa hai - Total number of live birth twins	Not available	Available	Not available
Newborns breastfed within one hour of birth	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Jumla ya mapacha waliozaliwa hai - Total number of live birth twins	Not available	Available	Not available
Newborns treated for neonatal sepsis/infection	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Jumla ya mapacha waliozaliwa hai - Total number of live birth twins	Not available	Available	Not available
Chlorhexidine cord cleansing	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Jumla ya mapacha waliozaliwa hai - Total number of live birth twins	Not available	Available	Not available
Pre-discharge neonatal mortality rate	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Premature (LBW) babies initiating KMC	Not available	Available	Not available

Indicator	Data level	Document source	Indicator/element/register column name	Numerator	Denominator	Full indicator
Low birth weight among livebirths (%)	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Premature (LBW) babies initiating KMC	Not available	Available	Not available
Preterm birth (facility based)	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Premature (LBW) babies initiating KMC	Not available	Available	Not available
Postnatal care for newborns (Facility-based)	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Premature (LBW) babies initiating KMC	Not available	Available	Not available
Newborns breastfed within one hour of birth	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Premature (LBW) babies initiating KMC	Not available	Available	Not available
Newborns treated for neonatal sepsis/infection	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Premature (LBW) babies initiating KMC	Not available	Available	Not available
Chlorhexidine cord cleansing	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Premature (LBW) babies initiating KMC	Not available	Available	Not available
Pre-discharge neonatal mortality rate	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Watoto waliozaliwa hai - Live birth (babies)	Not available	Available	Not available
Low birth weight among livebirths (%)	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Watoto waliozaliwa hai - Live birth (babies)	Not available	Available	Not available
Preterm birth (facility based)	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Watoto waliozaliwa hai - Live birth (babies)	Not available	Available	Not available

Indicator	Data level	Document source	Indicator/element/register column name	Numerator	Denominator	Full indicator
Postnatal care for newborns (Facility-based)	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Watoto waliozaliwa hai - Live birth (babies)	Not available	Available	Not available
Newborns breastfed within one hour of birth	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Watoto waliozaliwa hai - Live birth (babies)	Not available	Available	Not available
Newborns treated for neonatal sepsis/infection	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Watoto waliozaliwa hai - Live birth (babies)	Not available	Available	Not available
Chlorhexidine cord cleansing	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Watoto waliozaliwa hai - Live birth (babies)	Not available	Available	Not available
Postnatal care for women (Facility-based)	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	Total number of institutional delivery	Not available	Available	Not available
Antenatal corticosteroid use	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	Total number of institutional delivery	Not available	Available	Not available
[Mother & newborn services without separation] UNDEFINED	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	Total number of institutional delivery	Not available	Available	Not available
Institutional maternal mortality ratio (per 100,000 deliveries)	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	Total number of institutional delivery	Not available	Available	Not available
Caesarean section rate	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	Total number of institutional delivery	Not available	Available	Not available

Indicator	Data level	Document source	Indicator/element/register column name	Numerator	Denominator	Full indicator
[Measure of respectful experience of care] UNDEFINED	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	Total number of institutional delivery	Not available	Available	Not available
Uterotonic for prevention of post-partum hemorrhage	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	Total number of institutional delivery	Not available	Available	Not available
Pre-discharge neonatal mortality rate	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	Jumla ya vizazi hai	Not available	Available	Not available
Low birth weight among livebirths (%)	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	Jumla ya vizazi hai	Not available	Available	Not available
Preterm birth (facility based)	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	Jumla ya vizazi hai	Not available	Available	Not available
Postnatal care for newborns (Facility-based)	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	Jumla ya vizazi hai	Not available	Available	Not available
Newborns breastfed within one hour of birth	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	Jumla ya vizazi hai	Not available	Available	Not available
Newborns treated for neonatal sepsis/infection	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	Jumla ya vizazi hai	Not available	Available	Not available
Chlorhexidine cord cleansing	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	Jumla ya vizazi hai	Not available	Available	Not available

Indicator	Data level	Document source	Indicator/element/register column name	Numerator	Denominator	Full indicator
Stillbirth rate in a health facility	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	Total Deliveries Children (Singlet and twins)	Not available	Available	Not available
Newborn resuscitation with bag and mask	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	Total Deliveries Children (Singlet and twins)	Not available	Available	Not available
Newborns with documented birth weight	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	Total Deliveries Children (Singlet and twins)	Not available	Available	Not available
Level 2 inpatient unit for small or sick newborns (ENAP coverage target - Being defined)	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	Total Deliveries Children (Singlet and twins)	Not available	Available	Not available
[Respiratory support for small or sick newborns including continuous positive airway pressure (CPAP)] being defined	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	Total Deliveries Children (Singlet and twins)	Not available	Available	Not available
Low birth weight among livebirths (%)	Summary Form	Labor and delivery	Waliozaliwa hai Uzito =>2.5kg - Live birth Weight => 2.5kg	Not available	Not available	Available
Newborn resuscitation with bag and mask	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Watoto waliosaidiwa kupumua Bag and Mask - Helping babies breathe - Bag and Mask	Not available	Not available	Available
Caesarean section rate	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Proportion of deliveries by caesarean Section	Not available	Not available	Available

Indicator	Data level	Document source	Indicator/element/ register column name	Numerator	Denominator	Full indicator
Caesarean section rate	Electronic Health Information System (e.g., DHIS2)	Labor and delivery	Caesarean Sections rate	Not available	Not available	Available
Institutional maternal mortality ratio (per 100,000 deliveries)	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	Institutional Maternal Mortality ratio (per 100,000)	Not available	Not available	Available
Low birth weight among livebirths (%)	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	Low birth weight among newborns (twins)	Not available	Not available	Available
Low birth weight among livebirths (%)	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	Low birth weight among newborns (single)	Not available	Not available	Available
Low birth weight among livebirths (%)	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	Percentage of low birth weight among livebirth	Not available	Not available	Available
Institutional maternal mortality ratio (per 100,000 deliveries)	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	Maternal Mortality Ratio (Institutional)	Not available	Not available	Available
Low birth weight among livebirths (%)	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	Percentage of newborn alive with birth weight less than 2.5kg	Not available	Not available	Available
Low birth weight among livebirths (%)	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	Proportion of newborn alive with birth weight <2.5kg	Not available	Not available	Available
Stillbirth rate in a health facility	Electronic Health Information System (e.g., DHIS2)	RCH: Labour and delivery	Still birth rate	Not available	Not available	Available

Indicator	Data level	Document source	Indicator/element/register column name	Numerator	Denominator	Full indicator
Postnatal care for newborns (Facility-based)	Electronic Health Information System (e.g., DHIS2)	RCH: Postnatal	% of Newborns who received Post Natal Care within 7 days after delivery	Not available	Not available	Available
Newborns breastfed within one hour of birth	Electronic Health Information System (e.g., DHIS2)	RCH: Postnatal	% of newborns breast fed within one hour after delivery	Not available	Not available	Available
Premature (LBW) babies initiating KMC	Electronic Health Information System (e.g., DHIS2)	RCH: Postnatal	Percentage of Low birth weight Newborns (2.5 kg) offered Kangaroo Mother Care (KMC)	Not available	Not available	Available
Postnatal care for women (Facility-based)	Electronic Health Information System (e.g., DHIS2)	RCH: Postnatal	Postnatal care <48 hours rate	Not available	Not available	Available
Pre-discharge neonatal mortality rate	Electronic Health Information System (e.g., DHIS2)	Death	Perinatal mortality rate	Not available	Not available	Available

Section 4. All levels RHIS – Newborn indicators and data element availability with definitions that differ from WHO- or nationally recommended definitions

Background

Section four of this report summarizes newborn data for indicator measurement at all levels of the RHIS that have been mapped. This section shows all occurrences in RHIS where definitions do NOT match standardized WHO- or nationally recommended core/optional newborn indicators.

This section can be used to consider the reason for any difference from the standard WHO definitions. If there is no specific reason for the difference, then this section provides an opportunity to highlight where to consider updating the definitions.

Results

The uploaded mapping data did not include any data elements or indicators where the definition differed from the exact WHO- or nationally recommended definition. The table below is provided as an example of a template that can be used when data elements or indicator definitions differ from the exact WHO or nationally recommended definition.

Table3 3. Indicator measurement sources when numerator, denominator, indicator definitions differ from WHO recommendations, by data level and source

Indicator	Type	Data level	Document name	Indicator/element/column name
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Section 5. Documentation burden

Background

Section five summarizes the total RHIS load for newborn measurement at all levels.

RHIS load is presented as a balance of WHO- or nationally recommended core/optional indicators with *other* newborn data.

If the balance (proportion) is mostly *other* newborn data, this section can be used as an opportunity to consider whether streamlining certain data sources may be feasible. Please note: some data elements are necessary to collect even if they are not on the recommended indicator list (e.g., identification information).

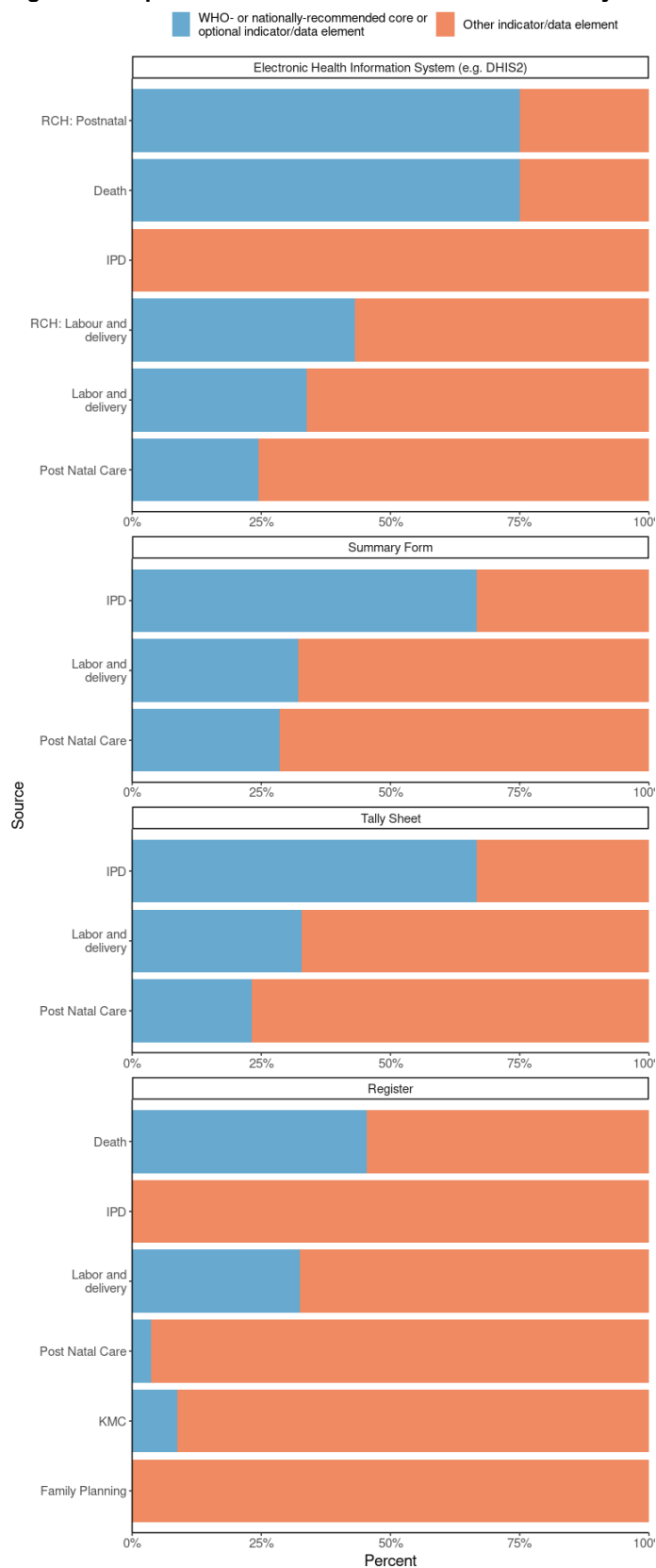
This section can be used to consider whether the RHIS load for newborn measurement is appropriate or excessive. For example, if a large proportion of routine register newborn data are *other* newborn data, this may represent excessive documentation typically for frontline health workers. Excessive documentation burden may detract from time available to provide care for women and newborns. Consider if reducing the duplicate data collection may improve data quality and quality of care.

Results

Figure 3 contains information on the burden of documentation. Among all newborn-specific and newborn-related data, the proportion of WHO- or nationally recommended core/optional data are shown, for each source mapped.

Of **514** data elements or indicators identified during this mapping that are specific or related to the newborn, **151 (29.4%)** are included in the WHO indicator recommendations.

Figure 3. Proportion of newborn data WHO- or nationally recommended as core/optional



Appendix 1. Indicators and definitions

The standard indicators and definitions are selected from the Mother and Newborn Information for Tracking Outcomes and Results (MoNITOR) online indicator Toolkit (version titled: “indicator_database_13Nov2020.xlsx”) which can be found here <https://monitor.srhr.org/>. If country-specific changes were made to the Mapping Excel Tool “definitions” page, the updated indicators will be shown here.

Table 4Appendix 1. Indicators and definitions

Indicator	Indicator definition	Numerator definition	Denominator definition	Indicator type	Domain	Continuum	Use
Institutional maternal mortality ratio (per 100,000 deliveries)	Number of maternal deaths in health facilities/institutions per 100,000 deliveries	Number of maternal deaths in health facilities/institutions	Total number of women who gave birth in a facility	Impact	Mortality	All	Optional
Stillbirth rate in a health facility	Stillbirths [Note: Baby born with no sign of life and weighing at least 1000g or after 28 weeks gestation] This indicator should be routinely disaggregated by fresh and macerated when possible.	Number of stillbirths	Number of live births and stillbirths in facility	Impact	Mortality	Intrapartum	Core
Pre-discharge neonatal mortality rate	Percentage of babies born live in a facility who die prior to discharge	Number of babies born live in a facility who die during the first 28 days of completed days of life and die prior to discharge from the facility, per 1000 live births in a given year or period	Number of babies born live in a facility	Impact	Mortality	Postnatal	Optional
Low birth weight among livebirths (%)	Percentage of live births that weigh less than 2500 grams.	Number of live-born neonates with weight less than 2500 g at birth	Total number of live births	Impact	Risk-factors and behaviors	Postnatal	Core

Indicator	Indicator definition	Numerator definition	Denominator definition	Indicator type	Domain	Continuum	Use
Preterm birth (facility based)	Percentage of births in health facility that are pre-term (less than 37 weeks gestation)	Number of newborns born under 37 weeks gestation	Total number of live births in facility	Impact	Risk-factors and behaviors	Postnatal	Optional
Caesarean section rate	Percentage of deliveries by caesarean section.	Number of caesarean sections.	Number of total deliveries in facility.	Outcome	Service coverage	Intrapartum	Core
Postnatal care for women (Facility-based)	Percentage of women with postnatal care (PNC) Note: The numerator includes both women who gave birth in the health facility and those who gave birth outside the health facility.	Number of women with postnatal care	Number of deliveries in facility	Outcome	Service coverage	Postnatal	Core
Postnatal care for newborns (Facility-based)	Percentage of newborns with postnatal care (PNC) Note: The numerator includes both women who gave birth in the health facility and those who gave birth outside the health facility.	Number of newborns with postnatal care	Number of live births in facility	Outcome	Service coverage	Postnatal	Core
Newborns breastfed within one hour of birth	Percentage of babies born alive in a facility who are breastfed within 1 hour of birth.	Number of babies born alive in a facility who are breastfed within 1 hour of birth	Total number of live births in a facility	Outcome	Risk-factors and behaviors	Postnatal	Core

Indicator	Indicator definition	Numerator definition	Denominator definition	Indicator type	Domain	Continuum	Use
Newborn resuscitation with bag and mask	Percentage of newborns not breathing and/or crying spontaneously at birth and, subsequently, required additional resuscitation actions (stimulation and/or bag and mask) to be performed.	Number of newborns who were not breathing spontaneously or crying at birth and, subsequently, required resuscitation (stimulation and/or bag and mask) to be performed.	Total number of live births in the facility	Outcome	Service coverage	Postnatal	Core
Premature (LBW) babies initiating KMC	Percentage of newborns weighing $\leq 2,000\text{g}$ who are initiated with KMC (or admitted to KMC unit, if separate unit exists).	Number of newborns weighing $\leq 2,000\text{g}$ who are initiated on KMC (or admitted to KMC unit, if separate unit exists)	Total number of newborns weighed	Outcome	Service coverage	Postnatal	Core
Newborns treated for neonatal sepsis/infection	Percentage of newborns with suspected severe bacterial infection who receive appropriate antibiotic therapy	The number of newborns who receive treatment (at least one injection of antibiotic) for suspected serious bacterial infection in the facility.	Total number of live births in the facility	Outcome	Service coverage	Postnatal	Core
Chlorhexidine cord cleansing	Percentage of newborns who received at least 1 dose of chlorhexidine to the cord within 24 hours of birth.	Number of newborns who received at least one dose of chlorhexidine (7.1%) to the cord within 24 hours of birth	Total number of live births	Outcome	Service coverage	Postnatal	Optional
Antenatal corticosteroid use	Percentage of newborns with confirmed ultrasound gestational age of less than 34 weeks whose mothers received antenatal corticosteroids.	All women who gave birth in a facility at <34 completed weeks and received one dose of ACS for risk of preterm birth	Total number of women with a live birth	Outcome	Service coverage	Antenatal	Optional

Indicator	Indicator definition	Numerator definition	Denominator definition	Indicator type	Domain	Continuum	Use
Newborns with documented birth weight	Percentage of newborns born in a facility with documented birth weight before discharge.	Number of newborns born in a facility with documented birth weight before discharge	Total number of live births in a facility	Outcome	Service coverage	Postnatal	Core
Companion of choice during labor and/or childbirth	Percentage of women who wanted and had a companion of choice supporting them during labor and/or childbirth in the health facility.	Number of women who wanted and had a companion of choice supporting them during labor and/or childbirth in the health facility in a given period	Total number of women who wanted a companion of choice during labor and/or childbirth	Outcome	Service coverage	Intrapartum	Optional
[Mother & newborn services without separation] UNDEFINED	Not yet defined	Capture any measure related to this concept	Live births				Desired
[Measure of respectful experience of care] UNDEFINED	Not yet defined	Capture any measure related to this concept	Total births				Desired
Level 2 inpatient unit for small or sick newborns (ENAP coverage target - Being defined)	Not yet defined	Capture any measure related to this concept	Total births				Desired
[Respiratory support for small or sick newborns including continuous positive airway pressure (CPAP)] being defined	Not yet defined	Capture any measure related to this concept	Total births				Desired

Indicator	Indicator definition	Numerator definition	Denominator definition	Indicator type	Domain	Continuum	Use
Uterotonic for prevention of postpartum hemorrhage	<p>Percentage of women who gave birth in a facility who received a prophylactic uterotonic immediately after birth for prevention of postpartum hemorrhage.</p> <p>[Note: the standard for operationalizing «immediately» is within one minute]</p>	Number of women who gave birth in a facility who received a prophylactic uterotonic immediately after birth.	Total number of women who gave birth in a facility.	Outcome	Service coverage	Intrapartum	Core

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