
ANALYTICAL REVIEW
Analytical Review

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Ministry of Health, Uganda & the World Bank

In collaboration with

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Countdown to 2030 for Women’s, Children’s and Adolescents’ Health
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## Acronyms

- **AIDS**: Acquired Immuno Deficiency Syndrome
- **ADHO**: Assistant district health officer
- **ANC**: Antenatal Care
- **ART**: Anti-Retroviral Treatment
- **AYFs**: Adolescent youth friendly services
- **BDR**: Birth and death registration
- **CRVS**: Civil Registration and Vital Statistics
- **CSOs**: Civil Society Organisations
- **DHIS**: District health information system
- **DHO**: District health officer
- **EmNOC**: Emergency Obstetric and Neonatal Care
- **HC**: Health Centre
- **HMIS**: Health management information system
- **IC**: Investment Plan
- **ICCM**: Integrated Community Case Management
- **IMR**: Infant mortality rate
- **IPs**: Implementing partners
- **IPT**: Intermittent Presumptive Treatment
- **ITN**: Insecticide Treated Nets
- **M&E**: Monitoring and Evaluation
- **MCH**: Maternal and Child Health
- **Malaria Indicator Survey**
- **MMR**: Maternal Mortality Ratio
- **MoH**: Ministry of Health
- **MPDR**: Maternal and Perinatal Death Reviews
- **MVRS**: Mobile Vital Records System
- **NIRA**: National Identification and Registration Authority
- **ORS**: Oral Rehydration Salt
- **PMA**: Performance Monitoring and accountability
- **PMTCT**: Prevention of Mother to Child Transmission
- **PNC**: Post Nataal Care
- **RMNCAH**: Reproductive, Maternal, Neonatal Child and Adolescent Health
- **SP**: Sharpened Plan
- **SRH**: Sexual Reproductive Health
- **UDHS**: Uganda Demographic Health Survey
- **UPHIA**: Uganda population HIV impact assessment
- **VHT**: Village Health Team
- **WHO**: World Health Organization
EXECUTIVE SUMMARY

This End-line review report highlights progress attained, lessons and challenges experienced during the implementation of the Investment Case (IC) for the Sharpened Plan and makes recommendations for the development of the next Sharpened Plan and Investment Case (IC). The focus of the report is on the progress in the implementation of the five strategic shifts and resource commitments, assessing performance against targets for the implementation period 2015/16-2019/20. The review was undertaken by the Maternal Newborn and Child Health Centre of Excellency, School of Public Health, Makerere University, Uganda; in collaboration with the Countdown to 2030 for Women’s, Children’s, and Adolescents Health, the Uganda Ministry of Health and the World Bank.

The report is based on analysis and synthesis of existing data, especially the routine HMIS/DHIS2 data which was used to assess progress on most of the indicators, focusing on trends from 2015 to 2019. All health-related surveys conducted in 2015 or later were considered (PMA, MIS, and UDHS). The UDHS 2016 helps strengthen the baseline but cannot be used to provide information on the performance of the sharpened plan as it does not cover the implementation period. Data on the health system were obtained from the Ministry of Health, World Bank, and development partners. In addition, a desk review was done, and primary data collection among key informant interviews were conducted at the national level and in 15 districts during July-August 2020.

The Investment Case has five impact indicators: maternal mortality rate, stillbirths rate, infant mortality rate, under-five mortality rate, and teenage pregnancy. These indicators could not be measured as no new national population level data are available on maternal, newborn and child survival. However, we used the health facility DHIS-2 data to assess the changes in the institutional maternal mortality and stillbirths. Institutional maternal mortality appears to be falling and was below 100 per 100,000 health facility deliveries in 2019 according to DHIS2 data but the data on maternal death audits showed higher mortality.

The overall stillbirth rate was 17.4 per 1,000 births in health facilities in 2019. This presented a decline since 2016 when 21.8 per 1,000 were either macerated or fresh stillbirth. The target of the sharpened plan for 2020 was 12 per 1,000. The high burden group of districts have higher mortality than the lower/ intermediate burden group of districts, but in 2019 the gap was reduced. Fresh stillbirth rates are used as an indicator of the quality of care at the time of delivery and constitute about half of all stillbirths in Uganda. The fresh stillbirth rate also declined gradually from 11.0 to 8.7 per 1,000 births between 2016 and 2019.
Based on the PMA-2020 surveys, the adolescent fertility did not decline during 2014-2018, remaining at 29% of girls 15-19 who had begun childbearing or were pregnant, which is one of the highest in sub-Saharan Africa.

To accelerate progress for the five IC strategic outcomes, the IC outlines 4 major shifts on high impact solutions: focus on high burden districts, coverage of high impact interventions, and mutual accountability. The shift on high impact solutions performed relatively better while the one of multisectoral approach was found to be the weakest link. Progress on adolescent health is extremely low, largely explained by its multisectoral nature and Uganda's fragile policy landscape for ASRH. The IC’s “shift” approach presents multiple overlaps for RMNCAH which were not optimally leveraged. The focus on high burden districts (mostly those with larger populations) could only be assessed in terms of institutional mortality declines (maternal deaths and stillbirths) which was about equally strong in both high priority and low/intermediate priority districts. Data on increased resources and processes for high priority districts were not available. The coverage of high impact interventions is gradually expanding but too slow as by 2019 most were still a long way off the 2020 targets of the sharpened plan. Data on the supply side (human resources etc.) were not available to show the size of the investments.

**Pre-pregnancy indicators’ progress are below the set target:** Increased use of modern contraceptive among women of reproductive ages, but well short of targets for unmet need and Teenage pregnancy remains high, with little change over time. Most of the Pregnancy and birth indicators’ progress are also short of the target: maternal and newborn institutional utilization indicators (ANC, delivery, and postnatal care) are falling well short of the ambitious 2020 targets of the Sharpened Plan except postnatal care which is reported as reaching the target, although there could be data issues. There was stagnation in ITN use by pregnant women which was unexpected given many recent ITN distribution campaigns. Also, data from the national panel survey shows steep increases in childhood anaemias and in anaemia among women of child bearing age, especially the East and the Northern regions.

**The Neonatal and child health** intervention coverage indicators could not be measured, except early initiation of breastfeeding which was high and met its target; full immunization coverage increased but remained far from the target of 80% and only 1 in 5 districts met this target; and Malaria parasite prevalence in children under 5 years met its target, but coverage of ITN among children and treatment of fever did not improve and remained far from the national targets in the UMIS 2018/19.

Nutritional data shows some improvements in stunting especially in eastern Uganda, but stunting has persistently remained high in the Western region. A decomposition analysis showed that the main explanatory factor to a decrease in national stunting rates were belonging to a household that had a mosquito bed net, and better maternal nutrition and education. Other contributing factors were a low dietary diversity, meal frequency and minimum acceptable diet in children and among women of reproductive age, together with a high dependency on staple foods have been key contributors to this.
For both the high and low burden districts, the comparison of progress in coverage indicators by district implementation phase suggests a possible acceleration in the earliest implementation group of districts in 2019, but it is too early to assess whether the investments have an impact. The differences between high and low/intermediate priority district groups were small and no differences could be observed in the trend. However, the low/intermediate priority district group have much lower C-section rate and somewhat higher stillbirth rates, suggesting poorer access and quality of delivery care in these districts.

Furthermore, the sharpened plan’s indicators provide little insight into progress of multisectoral interventions with one exception – improved sanitation. Major progress was observed in the percent of households with improved sanitation (from 19% to 44% during 2016 – 2018/19). No new data were available on nutrition (child stunting and anemia in women) and on out-of-pocket health expenses. There was little change in adolescent sexual and reproductive health (teenage pregnancy and child marriage). The data on collective action and mutual accountability were not yet available. Also, the NIRA data on birth registration and notification CRVS component show some progress in 2020 compared to 2019.

In terms of financing, external financing represents a large share of total health expenditure. However, most of donor funding is intervention-based, thus creating challenges for donor funding harmonisation leading to high transaction costs. The largest share of the external contributions to RMNCH is provided by the USA, the Global Fund and GAVI. Noteworthy, the increase in external financing to finance RMNCH services in Uganda has not met the population growth rate and increased health needs. The lack of country level recent data on expenditure for RMNCH and on sub-national external financing poses major challenges to programming, monitoring and evaluation.

This review has heeded various implementation’s facilitators and barrier that have been gathered through consultation with various implementation stakeholders and review of records. First, the Investment Case (IC) was a new way of “doing business”. This adaptive learning process, steered by leadership at the Ministry of Health, unified national level stakeholders. It not only fostered cohesion but also provided clarity on priorities and resource allocation among partners. The implementation was mainstreamed in routine RMNCAH activities but without much thought to bottom-up causality and strategic input – especially limited district involvement. This was exacerbated by the lack of a clear standardized implementation framework and multiple partners with diverse contributions, approaches and constraints.

Second, the IC visibility and conceptualisation were very limited at the sub-national level; knowledge about the IC/SP was at only 15% among Assistant District Health Officers (ADHOs) despite their key RMNCAH stewardship role. Additionally, there was limited understanding of critical stakeholders at sub-national level which affected IC/SP adaptation and operationalization. Last, there were efforts to increase funding; and significant RMNCAH investment has been made by the government and partners. There is evident progress across some of the strategic shifts;
however, resources still remain both insufficient and current progress is below the intended targets. A lot of the observed progress relates to process issues, contributing more to quality improvement, than directly on outcomes. Health system bottlenecks and constraints continue to significantly undermine registered or potential progress. Disproportionate focus has been on the supply side, with glaring gaps in demand side initiatives and intersecting points. This disharmony and a one-way approach to social accountability reinforced by weak community health systems was found to be a key limitation and explanatory factor for slow progress.

In conclusion, the country made steady progress during the implementation period of the investment case on several key indicators of the RMNCAH continuum of care, but most did not reach the set targets. However, the progress is too slow to reach the ambitious targets of the Sharpened Plan and the investment case. By 2019, there was no evidence that the targeting of high population districts accelerated the trends in those districts, which would be expected on the timing of implementation in districts. The main cause for this was limited implementation despite the availability of additional resources from the GFF. Implementation was hindered by challenges in sorting out implementation arrangements at the centre (vertical approach) with a limited subnational coordination and management mechanisms. Overall, we consider the IC implementation period of 2016/17-2019/20 was a learning and foundational phase, whose lessons should be used to inform the next phase. Systems have been put in place, partnerships explored, gaps or bottlenecks identified, and some progress registered. In the light of the review findings on the progress and implementation facilitators as well as barriers, several recommendations were drawn for the next implementation phase. We categorise the recommendations in terms of M&E and program implementation.

RECOMMENDATIONS

A) M&E recommendations

1. **The IC impact indicators are limited to “survival”, except for adolescent fertility;** the survival and thrive pathway or mechanism is not well addressed. A new IC theory of change with a clear M&E framework that shows the survival pathways by including the “thrive” and “transform” child health (0 – 19 years) indicators should be considered.

2. **The use of indicators for the four main outputs of the investment case / sharpened plan** with 29 indicators and an M&E framework with 81 indicators (in total too many indicators), with some overlap between the two sets, is confusing and should be streamlined.

3. **There are too many indicators in the M&E framework (overall > 100) especially for health systems,** of which many could not be measured accurately. The new framework should limit itself to less than 50 indicators and still be able to address the strategic priorities. In addition, mechanisms need to be put in place to develop and operationalize routine collection of measurable health systems indicators.
4. Apart from an emphasis on district disaggregation (the priority groups), equity is not well represented in the M&E framework. There should be some equity-specific indicators with targets as equity is a cornerstone of UHC.

5. It is worthwhile to consider the use of indexes to capture progress in specific areas or overall, in a summative manner, which should help communication of results while maintaining clarity and transparency especially when comparing the overall district or regional performances.

6. Systematic documentation and sharing of documents and data needs improvement to facilitate rapid and transparent assessments of progress and performance and use of data for action. Investment is needed to ensure such a coordinated mechanism is available from the beginning and throughout implementation.

7. Regular inclusive review of progress and performance, informed by analytical reports, were not held as planned, and should become a critical instrument to improve implementation and maximize engagement of all stakeholders. One possible and important mechanism to complement this is having implementation research to be embedded in program implementation. In addition, a comprehensive endline evaluation should be part of the inclusive review of program performance.

8. The RMNCAH investment case / Sharpened Plan did not consider sufficiently how its district focused monitoring could be linked to or benefit from the successful and institutionalised Ministry of Health overall system of monitoring with District League tables. We strongly recommend that the two be linked.

B) Policy, Governance and leadership recommendations

1. Develop a new RMNCAH/N policy and strategic plan: Uganda’s Roadmap for Accelerating the Reduction of Maternal and Neonatal Mortality and Morbidity expired in 2015. A new such Roadmap/policy is needed and should form the basis for future partnership engagements, investments and programming for RMNCAH/N in the country.

2. Urgently finalise the Adolescent Sexual and Reproductive Health Policy and Strategy: Adolescent pregnancy and related issues remain one of Uganda’s critical determinants of reproductive health and other outcomes, including the human development capital. The review found that adolescent pregnancy has stagnated or is increasing (one in five pregnant women). Uganda should urgently finalise and operationalize this policy, taking a strong multi-sectorial approach.

3. Finalise the Community Health Systems (CHS) policy and strategy: The review found that uptake of many evidence-based interventions was below the set targets, mainly because current interventions are mainly supply-side or have a weak demand-side component. The widespread disruptions of services during the COVID-19 pandemic has even made this worse. Uganda should therefore urgently finalise and operationalize its CHS policy and strategy.
Such a strategy should be grounded in strong community involvement, mobilisation of community owned resources, enhancing community accountability, and linkage to facility care.

4. Enhance the multi-sectorial approach to implementation: Many determinants of the performance of the health sector are in other sectors (e.g. Adolescent health, early child development and nutrition, control of diarrhoeal diseases, and injuries and substance abuse). Uganda should therefore further streamline and strengthen the multi-sectorial approach to implementation.

5. Use an enhanced Regional Approach to coordination, planning and implementation in order to improve efficiency in the health system: The review found a lot of missed opportunities for improved performance in the health sector. For instance many evidence-based interventions that are already policy, programme and are routine did not achieve the set targets (e.g immunisation). Challenges included limited financing, human resources and support supervision to districts and lower level facilities and communities because of expansion of the number of districts, cities and municipalities.

6. Develop an urban health policy and strategy: Uganda is rapidly urbanising and many independent urban authorities have been created recently yet the health delivery issues have not been adequately addressed. As a result, many indicators in urban areas have worsened. An Urban Health Policy and Strategy should urgently be developed and operationalized.

7. Enhance mechanisms for partner coordination, management and accountability: The MoH and partners should work to strengthen national and subnational RMNCAH/N networks to accelerate capacity for joint action. In order to do so, there must be a transparent framework for partner coordination, participation, contribution, and accountability. More functional partner networks will generate organizational commitments to shared network goals and accelerate the capacity for strong, equity-based RMNCAH/N programming in the country.

8. Adopt a policy of embedding implementation research (IR) into all routine programming in order to facilitate scale up of effective and scalable programs: Given the complexity of health care and the need for rapid scale-up, the government and partners should ensure that program implementation is informed by evidence including IR as its iterative nature will aid development of successful models for wider district, regional and national-level scale-up. The need for IR is even more urgent now during this COVID-19 pandemic as new models of services delivery to ensure services continuity are needed. It could also lead to improved dialogue and action between academic, policy, and budgetary realms that capitalize on Uganda’s own existing expertise.
C) Financing Related recommendations

In line with the spirit of the GFF supported investment case, financing for RMNCAH/N needs to be streamlined as follows:

- Funding from partners should align with the government’s planning and budgeting cycles and priorities. These partners also need to be accountable and regularly reporting to the MoH.
- Improve the timely availability of granular data on RMNCAH/N expenditure, with a focus on district level expenditures;
- Track off-budgeting financing, analysing trends by area, channel and its volatility;
- Conduct rigorous evaluations of major donor funded projects;
- Regularly assess the impact of the resources allocation formula on horizontal equity and revise it as needed.

D) Program implementation recommendations

1. Popularise the Investment Case/Sharpened Plan (IC/SP) among implementers at all levels: The review found that there was limited understanding of the IC/SP at district level including among Assistant DHOs in charge of RMCAH/N. The next IC/SP should be developed and implemented with broad participation of implementers and beneficiaries, and after that, it should be extensively disseminated.

2. Build the capacity of implementers in the new way of doing business (“the strategic shifts”) that is the building block of the IC/SP: Besides not generally being well informed about the IC/SP, many district staff other than the DHO lack adequate management skills to implement the IC/SP. Therefore, like it was done with DHOs and MOs who manage Health Sub-Districts, efforts should be made to build the planning and management capacity of Assistant DHOs in charge of RMCAH/N as they are the pillars for implementation.

3. In order to advance the UHC and SDG national agenda, Uganda must strengthen access, coverage and quality of clinical services including basic and emergency maternal, newborn, child and obstetric services. The current low under five mortality yet high maternal and neonatal deaths calls for a good PHC system with an integrated high quality clinical and referral system. Options here include decongesting hospitals by strengthening lower level health units and preventive services so that hospitals deal mainly with acute and referred cases.

4. Consolidate and leverage listed gains such as the IC-driven cohesion and clarity among IPs. Notable achievements with potentially important contribution to positive RMNCAH+N outcomes such as the CVRS systems will also need to be intentionally nurtured and provided with space to both challenge and contribute.
5. Develop and widely disseminate a standardized implementation framework for the next Sharpened Plan. The framework needs to be very clear on scope of work and depth of coverage. Alongside it there will be need for ongoing monitoring and tracking both partners and their progress. Harmonization across interventions, geographies and other scope will be a critical ingredient necessary for successful implementation. IP reporting and accountability, including on their constraints and limitations, will have a large bearing on IC/SP success.

6. Revisit the approach to policy dialogues, sensitisation and visibility, especially in light of the need to bridge the demand-supply side continuum of healthcare. More neutral, and including demand side, actors will need to be held accountable as they are also supported to promote social accountability that is supportive of initiatives on the supply side. For example, instead of exclusively contracting an implementing partner, health consumer agencies could be supported alongside to publicize the next IC/SP while also promoting the message of health-supportive social accountability. Rigorous continuous IC monitoring and engagement is necessary.

7. Prioritize health system strengthening (HSS) to consolidate gains from other health sector boosts. Ensure resources, time and action alignment for wider coverage and higher impact. Addressing long-standing and well-known health system bottlenecks will go a long way in supporting this; for example, through addressing delays in financing or space issues at health facilities. Ensure that HSS initiatives such as infrastructural developments align with drivers of quality improvement such as RBF to consolidate any registered gains.

8. There is need to innovatively leverage existing and upcoming windows of opportunity for RMNCAH+N gain. For example while Covid-19, NDP and other multisectoral platforms contributing to national development, and the recently (October 2020) launched Community Health Strategy. In addition, due to the recently elected Local Council 1 and IIIs, and now the forthcoming national elections, Uganda will have thousands of new leaders’ right from the community to national level. These need to be brought on board to support and ensure accountability for RMNCAH+N.
BACKGROUND

Despite commendable progress made in improving survival and overall quality of life of women, children, and adolescents in Uganda, poor Reproductive, Maternal, Newborn, Child and Adolescent Health (RMNCAH) indicators persist. Uganda’s 2016 demographic and health survey estimated maternal mortality at 336/100,000; under five mortality at 64/1,000; infant mortality at 43/1,000; and neonatal mortality at 27/1,000 live births. Additionally, one in four adolescents had begun childbearing. To address this and in line with the sustainable development goals agenda, Uganda revised its 2013 RMNCAH Sharpened plan into the Investment Case (IC) for RMNCAH Sharpened Plan for Uganda 2016/17-2019/20 (herein IC).

The IC aimed to redirect efforts towards accelerating progress towards universal coverage, with the goal of ending preventable maternal, newborn, child and adolescent deaths in Uganda, and promoting general wellbeing and functioning. The main thrust of the IC was to address major health system bottlenecks to enable scale-up of high-impact interventions. The IC focused on five strategic shifts and delivery of a priority intervention package at all health system levels. The shifts included: i) emphasizing evidence-based high impact solutions; ii) Increasing access for high burden populations; iii) Geographical focusing/sequencing; iv) Addressing the broader multi-sectoral context; and v) Ensuring mutual accountability for RMNCAH outcomes. In addition, the IC specified key resources and other commitments that were necessary for implementation success.

On behalf of Uganda’s Ministry of Health and the World Bank/Global Fund Financing country secretariat, an end-line review of the progress and performance of the IC was conducted by the Countdown to 2030 for Women’s, Children’s and Adolescents’ Health. This is a collaboration involving the School of Public Health at Makerere University and the University of Manitoba; supported by Sick Kids-Canada and the London School of Hygiene and Tropical Medicine. This performance report highlights progress attained, lessons and challenges experienced during implementation of the IC. The findings and recommendations of the review should inform the development of the next RMNCAH Sharpened Plan (2020/21-2024/25) and the related investment case.

The objective of the end-line review was to provide a statistical review and qualitative analysis of the status and results of implementation of the Investment Case for RMNCAH Sharpened Plan (2016/17-2019/20). Specifically, the reviewed aimed to:

1. To assess progress in the implementation of the five strategic shifts
2. To assess the extent of financing (and other resources) of the IC and strength of contribution by key stakeholders provided for in the design of the IC
3. To assess the suitability of the implementation arrangements (structures, management, and coordination)
4. To identify and describe factors that enabled or hindered realization of the objectives of the IC and implementation of key interventions
5. To identify and describe key lessons learned beyond the enabling and hindering factors
6. To generate recommendations to inform the design of a follow-on IC/RMNCAH strategic plan

The first part of this report reviews the monitoring and evaluation plan for the IC, assessing the extent to which its main features have been implemented including processes, targeting strategies and use of indicators. An overview of the methods used to generate data used to compile this report is then given. This is followed by the findings focusing on the core aspects of the IC including progress towards achievement of the IC goals, progress in the implementation of the strategic shifts and the commitments made especially financial resources; incorporating corresponding indicators of the M&E framework such as those for the continuum of care for coverage of high-impact interventions. The report ends with potential recommendations to inform development of the next RMNCAH sharpened plan and investment case.
04

M E T H O D S

The end-line review was completed through three complementary approaches – desk review, secondary data analysis and primary qualitative data collection.

4.1. Desk Review

A review of various documents related to RMNCAH was conducted to summarize existing evidence on the implementation of the IC, to identify emerging issues and inform the primary data collection phases based on gaps identified. The primary sources of information were grey literature from the MoH and partners involved in implementing the IC. Documents reviewed were those presenting work done during the IC implementation period (2016/17-2019/20), specifically detailing implementation aspects of the IC. Key documents included in the review are the MoH annual progress report, Annual Health Sector Performance Reports, IC supervision reports, Newborn steering committee meeting minutes, and MCH cluster meeting. Reports from implanting partners such as AMREF, UNICEF, USAID, PSI, JSI, Save the children, GAVI, DFID, and Islamic development bank were also reviewed.

4.2. Secondary data analysis

Implementation progress

This included analysis of raw or summarized data specifically from DHIS-2, PMA 2020, and MVRS. We could not use the national surveys (DHS and MIS) because there were no available post-2016 survey that we could use to evaluate the changes in the IC implementation indicators. The DHIS2 data was used for the analysis of institutional maternal mortality and stillbirths, facility utilization indicators, and other child health indicators except mortality. The PMA-2020 was used to assess the changes in teenage pregnancy while MVRS was used for birth and death registration indicators. We assessed the trend in RMNCH coverage through an index comparing districts that had been prioritized in the investment case (51 districts plus Kampala and Wakiso) with districts that had not been prioritized (81 districts).

Financing

The analysis of health financing trends for Reproductive Maternal New-born and Child Health (RMNCH) includes an assessment of trends in total levels of financing, in external financing and the performance of major donor funded projects aiming to improve RMNCH, and an analysis of the
The lack of recent data on financing for RMNCH, including no NHA since 2015/16, is an impediment to programming and monitoring efforts. Therefore, it is critical to conduct a NHA with RMNCH subaccounts, support the efforts of the Ministry of Health to institutionalise tracking of off-budget financing, incentivise the provision of funding on budget or through basket funds to increase aid effectiveness and regularly monitor the impact of the resources-allocation formula in horizontal equity. The assessment of the RMNCH financing trends at national and subnational levels in the Uganda Sharpened Plan 2016/17-2019/20 requires recent data. However, in several instances, recent data were not available. This chapter draws upon a combination of quantitative data analysis collected from a variety of national and international sources and the secondary review of qualitative evidence, for the most recent years available, even if such data predated the Sharpened Plan. This chapter relies on the following data sources and methods:

1. Data on overall health expenditure and RMNCH expenditure was extracted from the National Health Accounts (NHA) reports from FY 2010/11 to FY 2015/16. The data were analysed by source of funds and expenditure categories;

2. Data on immunization financing was extracted from the Resources Tracking report for Immunization in Uganda report for 2014/15 and 2015/16 and analysis was done for the major sources of funds;

3. Data on family planning expenditure was extracted from the 2018 Resources flows survey on family planning and analysed in terms of the source of funds;

4. Data on overall external financing was extracted using the OECD’s Creditor Reporting System data. The Muskoka2 algorithm was utilised to estimate RMNCH disbursements and enabled the trends analysis over a longer time period and with much greater granularity than the NHA. The analysis examines trends by donor, spending area, channel of disbursement and volatility;

5. The evaluation report of Uganda Reproductive Health Voucher Project (URHVP) and the 2019/20 annual performance report of the Uganda Reproductive, Maternal and Child Health Project (URMCHIP) were reviewed to identify main achievements and challenges with the implementation of these major RMNCH projects in Uganda.

6. Data on domestic expenditure in the health sector was extracted from the Annual Health Sector Performance Reports between FY 2015/16 and FY 2018/19 and analysed by grant type, while data on district level allocations was extracted from the Health Sector Grant and Budget Guidelines to Local Governments from FY 2016/17 and 2020/21 and analysed in per capita terms making reference to the FY 2016/17 districts. Further analysis was undertaken to understand differences in the allocations across sub-regions, as defined in the 2016 Uganda Demographic and Health Survey (UDHS), and Global Financing Facility (GFF) priority districts;

7. Lorenz and Concentration curves were estimated using district level per capita allocation data and 2016 estimates of district level income per capita. In the absence of more recent income data, 2020 values of district level income per capita were estimated inflating the 2016 estimates, based on the difference between 2016 and 2020 national GDP per capita;
8. All UGX figures were converted into constant 2018 UGX based on World Bank domestic inflation rates for each year. Figures were then converted to USD using the exchange rate for 2018 reported by the World Bank.

Despite the rigorous methodology followed, this analysis is hampered by the lack of recent data and no NHA since 2015/16. In addition, the lack of sub-national data on external financing and out of pocket expenditures did not allow for an in-depth sub-national analysis of overall health expenditure patterns. In several instances, the data sources include a mix of budget and expenditure data.

4.3. Primary qualitative data collection

The qualitative assessment was done at national, sub-national, facility and community levels. In addition to IC implementation fidelity and progress across the five strategic shifts, suitability of implementation arrangements was also assessed, and enabling factors, hinderances and bottlenecks were determined. From these findings we draw lessons and propose recommendations. Figure 1 indicates the key questions for different dimensions.

Figure 1: Key dimensions and questions

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The qualitative review was cross-sectional, mixed method and multi-level by design. Methods used were in-depth interviews (IDI), Key informant interviews (KII) and focus group discussions (FGD). Cursory document review at sub-national level was undertaken as was observation at facility and community level. A total of 18 districts were visited representing diversity across the level of RMNCAH burden, implementation wave, performance, geopolitical context, and other unique features such as refugee-hosting districts. The overall participant sample size is 396. All interviews were audio recorded and data management included transcribing and double-coding before analysis using Nvivo 12 and guided by endline review objectives. The analysis of qualitative findings was also guided by a hybrid fusion of useful frameworks including thematic analysis Thematic (Braun & Clarke, 2006, 2013), policy analysis triangle (Walt & Gilson, 1994) and critical realism (Pawson & Tilley, 2003).

**Figure 2: Qualitative analysis framework**

- **Context - Mechanism - Outcome (C-M-O):** What works, for whom, when and why?
- **Health Policy Triangle:** Which actors are affecting what, how and in what context(s)?
  (Pawson & Tilley, 2000; Walt & Gilson, 1994)
05

FINDINGS

This section presents key findings from the review tailored to the log frame of the Sharpened Plan. These findings are on the reviews of the IC M&E system, implementation performance, and the facilitators of the implementation.

5.1. Monitoring and Evaluation context for the IC

The monitoring component of the Sharpened Plan has multiple dimensions which were considered in the end-line review.

Impact

The overall goal of the Sharpened Plan was: “to end preventable maternal, newborn, child and adolescent deaths and improve the health and quality of life of women, adolescents and children in Uganda”. Five impact indicators with 2020 targets were selected, including four indicators on maternal and child mortality and one on teenage pregnancy. Since Uganda entirely depends on surveys (Demographic and Health Surveys) for its mortality measurement and the next survey is planned for 2020/2021, there was no representative data to assess the impact indicators.

Outputs

The log-frame for the Sharpened Plan includes four outputs with 29 indicators with targets. These four outputs are linked to the main strategic shifts of the Plan. Within each strategic shift, the process for achieving the designed impact are articulated. These outputs in form of the strategic shifts are explained as below.

Greater coverage in high-burden districts and populations: the high burden districts were selected based on each of four indicators (unmet need for FP, neonatal mortality, teenage pregnancy and child mortality). The burden was measured as numbers of the target population affected (not rates), based on the DHS 2011 and the 2014 census population projections. The top 40 districts were selected as high burden. The high burden group consisted mainly of the most populous districts
of Uganda (see M&E framework). The five indicators in the log frame for this output are largely operational (e.g. increased budget for high mortality districts, reduced gaps in midwives staffing, presence of functional HC III in sub-counties) or quality of care (institutional mortality). It should be noted that, the analyses at the time were based on 112 districts which is now up to 135 districts due to the creation of new districts. The DHIS2 staff kept up with these changes and therefore, 53 high burden districts that have originated from the original 40 districts were included in the review. The average population of the high burden districts was 462,000 in 2019, compared to 193,000 in the low or intermediate burden districts. The approach used to select priority districts was crude: basically, the 44 districts with the highest population were selected, plus nine others.

**Expanded coverage of high impact interventions**: the seven indicators for this output are a mix of coverage indicators (unmet need for contraception, treatment of children with diarrhoea with ORS and zinc, and newborns receiving treatment for sepsis) and service access indicators (e.g. no stock outs of life saving commodities, comprehensive EmONC in HC IV, health workforce trained in youth friendly services). Several indicators were difficult to measure and also the criteria of what constitutes a high-impact intervention seems to have been interpreted loosely (e.g. youth friendly information and services).

**Non health sector interventions that impact maternal, newborn and child vulnerability and deaths harnessed**: the 6 indicators for this output are similar to the cross-cutting indicators in the M&E framework.

**Collective action and mutual accountability for ending preventable maternal, newborn and child deaths**: 10 indicators were selected of which three were related to resource allocation (derived from NHA and joint RMNCH program reviews), six indicators related to the development of a CRVS system and one on maternal and perinatal death reviews.

**M&E framework indicators**

The indicators of the log frame (impact and the four outputs) are complemented by an M&E framework that described a much larger range of indicators with baselines, targets and data sources. The M&E framework includes the life course phases of the continuum of care (pre-pregnancy, pregnancy, birth, postnatal, neonatal and childhood), cross-cutting issues and health systems strengthening. There are 81 indicators, including 41 indicators classified as health systems strengthening. The list of indicators in the M&E framework includes most indicators in the summary log frame but not all. The endline review aimed to include all relevant indicators to assess progress and performance, but no data were available for many.

Many indicators of the log frame do not appear in the M&E framework set of indicators and the log frame and M&E framework are not well linked. There are far too many indicators, especially on the health system, (about 100 if we combine the two approaches) and many could not be measured.
M&E Practices

Uganda has a sound overall M&E system of the annual health sector reviews, which is very well documented with annual performance reports, including district league tables and standardized performance assessment of hospitals and large health centers. In fact, Uganda’s monitoring system is one of the stronger government health sector monitoring systems in Africa. RMNCAH is a critical component of that health sector performance monitoring system with over half of the indicators and targets.

The effort to intensify M&E of the sharpened plan did only partially materialize. The health sector stakeholders agreed to compile annual progress reports, midterm review and endline evaluation reports on implementation of the Investment Case for RMNCAH Sharpened Plan, which would be presented and discussed in the RMNCAH Assemblies, held every year. No annual progress reports in relation to the Sharpened Plan were available in the public domain.

The M&E component of the Sharpened Plan demands good quality and frequent data. Comprehensive household surveys with a large RMNCAH-N component, the Uganda DHS, are conducted once every five years and leave an important data gap for many indicators. This is only partially offset by disease- or program-specific surveys such as malaria indicator surveys (conducted 2015 and 2018/19), population HIV impact assessment (PHIA) surveys (UPHIA in year, but frequency unclear), and family planning surveys (PMA 2020, annual since 2015, last one 2018).

The Uganda HMIS, based on the DHIS2 platform, is working relatively well with high reporting rates by facilities and districts. There are challenges in terms of the quality of data and the target populations needed to compute the population level coverage of interventions, especially at the local level when the “noise” in the data increases compared to the national level where errors may cancel each other.

Facility level data quality assessments in 2018 and 2019 have shown substantial differences between recorded (registers) and reported numbers of events for selected indicators. A regular system of facility surveys to assess service readiness and verify key indicator reporting (such as availability of essential medicines) is not in place. The last health facility survey was conducted in 2014.

The Ministry of Health is responsive in terms of providing requested data from the DHIS2 for specific purposes, but a system of greater access to the data to for instance collaborating academic institutions is not yet in place. Such access would enhance the use of data and could lead to improvements in data quality and analysis.

---

1  Provide reference to the reports
Uganda has a district league table system in place since 2003. It is an admirable effort which has been maintained consistently throughout the years, even though data quality and communication (explaining the rankings) are persistent challenges. This system can be improved with further attention for data quality in DHIS2, use of survey data and engagement of analysts in country public health institutions in the ministry of health-led analyses. Communication of results can benefit from targeted presentation through grouping of results (e.g. by socioeconomic status or targeting status such as done in the Sharpened Plan). It is an opportunity for the RMNCAH investment case / Sharpened Plan to link its district focused monitoring could be linked to or benefit from the District League table experiences.

There is a need to strengthen data sources if the M&E system is to function well. This could include one mini survey of key RMNCAH indicators in-between the two DHS surveys, greater investment in DHIS2 data quality, development of analytical capacity through MOH – academic institutional collaborations, and regular health facility surveys.

5.2. Progress towards achievement of the IC goal - Impact

The Sharpened Plan selected five indicators for the measurement of progress towards the goal of ending preventable deaths among women, children, and adolescents. These are maternal, under-5, infant and neonatal mortality, as well as teenage pregnancy rate. Progress towards reducing the four mortality indicators was not assessed due to lack of relevant data. The last UDHS was conducted in 2016 and the next is planned in 2021. The 2018/19 Malaria Indicator Survey include retrospective data on under-five, infant and neonatal mortality (for the five-year period prior to the survey) but these data have not yet been analyzed. The most recent predictions (estimates) from the UN agencies show a continued decline of maternal and child mortality, but these results cannot be used to assess the impact of the Sharpened Plan, as no post 2016 data have been used. However, we rely on the health facility data that is collected through DHIS-2 for the assessment of institutional maternal and newborn (stillbirths) mortalities. For teenage pregnancy, we use the PMA2020 data.
Maternal mortality and stillbirth

Institutional mortality was assessed with maternal mortality and stillbirth rates (Figure 3). Both experienced declines, especially maternal mortality. These data however need to be validated by in-depth studies of maternity / birth registers as underreporting tends to be a common problem. The number of reported maternal deaths into the DHIS2 was 1092 in 2019, down from 1337 in 2017 and 1169 in 2018. However, the number of audited maternal deaths reported for the same years were 1065, 885 and 1480 for 2017-2019. In 2019 the number of audited deaths was well above the reported maternal deaths. Further assessment showed that often in districts the number of reported audited maternal deaths exceeded the number of maternal deaths reported. It is not clear if those non-reported deaths refer to community deaths that are audited or there is some other factor influencing this discrepancy. If we use the maximum value for each district year (either reported or audited number) maternal mortality has not changed since 2017 (except a dip in 2018) and was 146 per 100,000 live births.

Based on the DHIS2 reported maternal deaths only the institutional maternal mortality ratio has been declining from 126 in 2016 to 103 in 2018 and 91 per 100,000 deliveries in 2019. In 2015/16 maternal mortality appears to have been considerably higher (181 in 2016). The decline was observed in both the high and low/intermediate priority district groups. Figure 3 also shows that maternal mortality is much higher in the high priority / burden districts than in the other group of districts. This is likely due to the presence of referral hospitals in the larger population districts which tend to report larger numbers of maternal deaths.

The overall stillbirth rate was 17.4 per 1,000 births in health facilities in 2019 (Figure 3). This presented a decline since 2016 when 21.8 per 1,000 were either macerated or fresh stillbirth. The target of the sharpened plan for 2020 was 12 per 1,000. The high burden group of districts have higher mortality than the lower/ intermediate burden group of districts, but in 2019 the gap was reduced. Fresh stillbirth rates are used as an indicator of the quality of care at the time of delivery and constitute about half of all stillbirths in Uganda. The fresh stillbirth rate also declined gradually from 11.0 to 8.7 per 1,000 births between 2016 and 2019.
These figures must be interpreted with great caution. For instance, underreporting of maternal deaths is common, e.g. for abortion, and especially the quality of care is substandard. The percentage of maternal deaths reported through the HMIS that were notified was 57% in 2018/19 and the percentage that were reviewed (audited) was 51% in 2018/19. These proportions are increasing but still far from universal coverage. The discrepancy between DHIS reported deaths and audited deaths needs to be clarified to provide more reliable estimates of maternal mortality.

**Child health**

As alluded to earlier, data on under-five, infant and neonatal mortality to measure the changes in these outcome indicators beyond 2016 is not available. Nevertheless, the DHIS2 data continue to show the predominance of maternal, newborn and child health with outpatient and admission data. In 2018/19 nearly 10 million visits of children under five years were reported for outpatient care, corresponding with more than 1 visit per child per year. Malaria and upper respiratory infections were by far the most common causes (>50% of all visits), followed by diarrhea, pneumonia and skin diseases. Children under 5 comprised 44% of all hospital admission in 2018/19, with malaria, pneumonia, and diarrhoeal diseases as leading diagnoses. The leading causes of death among under-fives in hospitals were malaria, other neonatal conditions, prematurity, pneumonia, and anemia in both 2017/18 and 2019/20.
Teenage pregnancy

The fifth impact indicator is teenage pregnancy with a targeted reduction from 24% to 14% during the Sharpened Plan period. The annual PMA 2020 surveys provide insights in the trend post-2016. The indicator used is the percent of girls 15-19 years who are pregnant at the time of the survey or have given birth. Uganda has a high level of adolescent pregnancy and there was no major decline. In the 2018 PMA survey round 28.8% of adolescents were pregnant or had ever given birth, compared to 27.0% in 2017 and 31.1% in 2016 (Figure 4).

Figure 4: Percent of girls 15-19 years who have given birth or are pregnant, PMA and DHS surveys

To achieve progress in reducing maternal mortality, child mortality and teenage pregnancy, the investment plan had five strategic shifts with enormous process and inputs. However, in this review, it was heeded that there was no standard implementation model to guide the multiple partners. Thus, it may be difficult to determine implementation fidelity and adaptations made to implementation of the IC. However, a plethora of RMNCAH+N interventions have been implemented across the five shifts, different geographical areas and implementation waves. In addition, both district leaders and Implementing partners (IPs) are mindful of national priorities and integration into routine activities was found to be high albeit the existence of contextual variations:

I can’t tell you that we had a parrarell Plan but we looked at the components of that plan and integrated them in the health system

(DHO 7)
As much as we all had intended to support the investment case and implement alongside it, it was quite difficult because still everyone was pursuing their priorities at the end of the day. So for us what we did was to see then respond what the district needs were. Knowing what the gaps were, knowing that whatever we are doing ... would contribute over all to the reduction in maternal, newborn health and child deaths

(National level participant, #8)

What we are implementing is still in line with RMNCAH though for us we are more on MCH. We added only contraceptives

(District IP, 12)

While all key population categories across the RMNCAH continuum of care still need attention, adolescent health is perhaps the most outstanding. Adolescent sexual and reproductive health (ASRH) had notably poor performance and many explanatory factors exist for this including: 1) ASRH is complex, requiring a multisectoral and holistic approach for success to be realized; 2) The policy framework for ASRH is very fragile and polarized in approach – there is a conflicting moralist Vs. science view on which interventions to prioritize or even authorize, but leaning more towards the former; 3) The fragile policy landscape, including delayed policy conclusions and conflicting leadership positions on related issues such as availing contraception or condoms for HIV/STI prevention, limits donor investment in ASRH; 4) the few existing partners offer a limited specialized, lean menu of services e.g. HIV/AIDS, focusing on pregnant adolescents or even categorizing contraception as Family Planning does not resonate with most adolescents; 5) While some attempt has been made to offer AYFS, the spread is very thin and with variation in scope and generally the existing health system infrastructure, human resources and supplies cannot adequately and effectively address ASRH issues. Yet adolescents continue to be largely disengaged and have low knowledge on SRH matters, engage in risky behaviour and also face teenage pregnancies, early marriages, rape alongside other forms of SRH challenges. Moreover, the tracking indicators for adolescent health were reported as not very clear in the concluded implementation phase.

5.3. The progress in the implementation of each of the strategic shift

OUTPUT 1: Greater coverage in high-burden districts and populations

The first output aims to increase coverage of priority interventions in high-burden districts and populations. The selection of high burden districts was based on the estimated numbers of deaths (neonatal and child), women with unmet need for family planning, and teenage pregnancies. The main sources of data for this selection were the UDHS 2011 and the 2014 population census. The high burden group consisted mainly of the most populous districts of Uganda (see M&E framework). The drivers and facilitators for relatively better performance on this output include: diverse partnerships, increased funding, an active coordination platform at central level through
the TWG, being led by the data, the incentivized clampdown on TBAs and transitioning many into VHTs; CSO working environment – the planning, designing, measuring, reporting, rewarding and timelines of most CSOs position them to take on mostly time bound interventions that are easy to measure, quick to report on, with quick results and easy for health sector agencies. The downside to this is that it is costly and potentially drowns out investment in other “intangible” shifts and processes like advocacy. It also limits meaningful involvement of key stakeholders and other sectors.

Implementation of high impact solutions also highlighted gaps in across the continuum of regulation of health professionals (including training, licensing accreditation, supervision and support) which have a bearing on key issues like patient safety and quality of care.

Finally, notable challenges in the shift on high impact interventions can be explained by the demand side – specifically socio-behavioral factors and fragile community health systems. Longstanding sociocultural norms and alternative services – including an “underground” TBA network continue to impede progress in RMNCAH outcomes.

The log frame proposed five indicators for Output 1. The first output indicator - institutional mortality - was assessed with maternal mortality (Figure 1) and stillbirth rates (Figure 9). Both experienced declines, especially maternal mortality. These data however need to be validated by in-depth studies of maternity / birth registers as underreporting tends to be a common problem. We also assessed the trend in RMNCH coverage through an index comparing districts that had been prioritized in the investment case (51 districts plus Kampala and Wakiso) with districts that had not been prioritized (81 districts). There was little difference between the three groups.

- **The involvement of professional bodies like UPA and AOGU** was integral to the success of this strategic shift on high impact solutions. Arrangements to sustain their engagement should be prioritized. In addition to professional bodies, regulatory bodies and training institutions for health professionals needs to also be progressively engaged and curricula revisited as necessary.

- **Social accountability** has availed the voice, various tools and spaces for service users to exert pressure and demand for better services. However, it has taken on a predominantly deficit approach which is largely unilateral, contributing to disharmony between providers and service users. Rethinking the delivery of services in the context of social accountability is now necessary; and without strong community health systems it is unlikely that IC/SP targets will be achieved. To achieve further progress it will be necessary to strengthening community health systems with emphasis on not only community rights but also responsibilities. It will require fresh conceptualisation and repackaging as a continuum of care that begins from individuals in the household within a community that is mutually supportive of the healthcare system and not one that vilifies it. This model of community-facility partnership, with a key focus on prevention, should have clear rewards and sanctions for both sides. Investing in prevention is necessary as it presents multiple benefits and will help consolidate the gains achieved under this shift of high impact solutions.
of districts, while the coverage index increased considerably all three groups during 2017-2019 (Figure 11). In 2019, the prioritized districts covered 61% of all women, children and adolescents in need of interventions, including 10% living in Wakiso and Kampala districts.

Table 1: A summary of indicators related to coverage in high-burden districts and populations

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Target</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proportion of regions, districts or sub-districts with previously highest mortality registering an institutional mortality reduction</td>
<td>50% reduction in institutional mortality by 2020</td>
<td>20% decline in maternal mortality 2017-2019 from 126 to 91 per 100,000 but some data quality issues; modest decline in stillbirth rate. The decline was equally strong in high and low/intermediate burden districts.</td>
</tr>
<tr>
<td>Proportion of regions, districts or sub-districts with previously highest mortality with increased budget allocations to high impact interventions by 2020</td>
<td>Target 90%</td>
<td>Data needs: Budget information by district 2019/2020 and an earlier year for comparison</td>
</tr>
<tr>
<td>Percentage narrowing in midwives staffing differences between regions, districts or sub-districts with previously highest mortality rates compared to those with lowest mortality</td>
<td>20% by 2020</td>
<td>Data needs: midwives by district or subdistrict, 2016 and 2019/20</td>
</tr>
<tr>
<td>Percentage of sub-counties with functional HC IIIs</td>
<td>??</td>
<td>Data needs: health facility information by subcounty</td>
</tr>
<tr>
<td>Plans and decisions made based on equity, gender and rights sensitive data available (resource allocations, staff positions created, involvement of beneficiaries)</td>
<td>??</td>
<td>Qualitative assessment</td>
</tr>
</tbody>
</table>

Note: ?? – data was not available

OUTPUT 2: Expanded coverage of high impact interventions

Overall, small improvements have been made in several areas of the continuum of care such as antenatal and delivery care, and child immunization but not in malaria intervention coverage, despite the fact that it remains the leading cause of childhood deaths in Uganda. Most improvements are falling well short of ambitious targets for 2020. This is supported by qualitative findings which
found comparatively better performance for this output, being implemented across all geographies. Multiple high-impact interventions, mostly skewed towards the supply side, have been implemented and progress is evident across the continuum of care. For example, immunization coverage has increased, child mortality has declined, and generally there is improved quality of care. There is also increased ANC and hospital deliveries, utilization and client satisfaction, improved health worker skills for example in newborn care, partograph use and evidence-based decision-making.

However, the interventions implemented were varied in nature, not standardized and IPs were not implementing a comprehensive package in their different operational sites. Therefore, a gap still remained in the coverage, depth and coordination. Moreover, the targets for related indicators were ambitious for prescribed timelines and there was also some concern around sectoral capacity to effectively implement some interventions:

*The health component itself is not yet really there and so we still needed to focus on the core health aspects that needed to be aligned together... For example, training on IMCI. We last trained more than 15 years ago and that is the countrywide training... so just going back to say that “where are the current standard guidelines and training curricula that are up to date so that we can first spread those within the health sector?”*

(National Level Participant, 19)

Also, successfully implementing some interventions such as postnatal care still low – partly because of space (infrastructure and broader health system constraints). Performance on neonatal care is also not positive especially in regard to stillbirth and pre-term births.

For three of the eight indicators under output 2, data were available from surveys, HMIS or the Ministry of Health annual performance report 2018/2019. The proportion of HC IV with comprehensive EmNOC was only 47% which was due to lower availability of blood transfusions. C-sections were available in 81% of HC IV. The other two indicators, availability of essential commodities and unmet need for contraception did not meet their targets.
Table 2: Indicators related to expanded coverage of high impact interventions

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Target</th>
<th>Achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proportion of facilities with no stock outs of lifesaving commodities</td>
<td>Raised to 80%</td>
<td>41% - Availability of a basket of commodities (% of facilities that had over 95%)</td>
</tr>
<tr>
<td>Percentage of sub counties with functional HC IIIs</td>
<td>Target 100% by 2020</td>
<td>??</td>
</tr>
<tr>
<td>Proportion of nurses, midwives, VHTs providing lifesaving interventions**</td>
<td>increased to &gt;60%</td>
<td>??</td>
</tr>
<tr>
<td>Unmet need for contraception</td>
<td>reduced from 34.4% to 10%</td>
<td>26% unmet need in 2018 (PMA 2020 survey); slow decline; target in M&amp;E section was 29% (baseline 28%)</td>
</tr>
<tr>
<td>Percentage of HC IVs with comprehensive EmONC</td>
<td>over 80%</td>
<td>47% offer C-section and blood transfusion; 81% C-section only</td>
</tr>
<tr>
<td>Health professionals trained and providing youth friendly information</td>
<td>Not target</td>
<td>??</td>
</tr>
<tr>
<td>Percentage children treated for diarrhoea with zinc and ORS</td>
<td>No target</td>
<td>??</td>
</tr>
<tr>
<td>Percentage newborn receiving treatment for sepsis 0-28 days</td>
<td>No target</td>
<td>??</td>
</tr>
</tbody>
</table>

Note: ?? – data was not available
** No data available yet; definition indicator not clear

The continuum of care

The M&E framework of the Sharpened Plan highlights several indicators along the continuum of care: pre-pregnancy and adolescence, pregnancy, birth, postnatal, neonatal and childhood. In the assessment of district progress with DHIS2 data we compared the coverage and other indicators between high burden and low/intermediate burden districts, as well as the time trends by timing of implementation (the four groups).

District groupings: Comparison focuses on progress in the 53 high priority districts and the 82 intermediate/low priority group. Since the prioritization was driven by numbers rather than rates, the larger population districts tend to be overrepresented in the high priority group. Focusing on large number districts may help accelerate national progress, but also has the potential to increase inequalities in coverage between high and low coverage districts.
Implementation phases: District implementation was done through the Uganda Reproductive Maternal and Child Health Services Improvement project (URMCHIP) with funding from GFF/World Bank in three phases - Phase 1 (started January 2019) covered 27 districts; Phase 2 (started July 2019) covered 51 districts; and Phase 3 (started March 2020) covered 53 districts. Implementation in the remaining 4 districts was funded by USAID. The Results-based funding program was implemented as one of the three components of the URMCHIP project. Of the 53 high burden districts, 20 were in Phase 1; 9 in Phase 2; 23 in Phase 3 and only one was USAID funded.

<table>
<thead>
<tr>
<th>Implementation phase</th>
<th>High burden</th>
<th>Low/Medium burden</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phase 1 (Jan. 2019)</td>
<td>20</td>
<td>7</td>
<td>27</td>
</tr>
<tr>
<td>Phase 2 (Jul. 2019)</td>
<td>9</td>
<td>42</td>
<td>51</td>
</tr>
<tr>
<td>Phase 3 (Mar. 2020)</td>
<td>23</td>
<td>30</td>
<td>53</td>
</tr>
<tr>
<td>USAID funded</td>
<td>1</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>53</strong></td>
<td><strong>82</strong></td>
<td><strong>135</strong></td>
</tr>
</tbody>
</table>

Roll out of RBF Schemes by project in Uganda.

PRE-PREGNANCY AND ADOLESCENCE

There are five indicators in the M&E plan. Two indicators are not presented here as no data were available and their utility is questionable in this context, partly because of the subjectivity of the data (e.g. unclear definitions, variation in the need for care). This includes health professionals trained and providing youth friendly information and health services, which had a target of 50%, and percentage of women with problems in accessing health care which had a target of 30% compared to 65% baseline (unknown source). No new data were available.

The M&E indicator on family planning referred to modern contraception (reproductive age) which presumably means all women 15-49 years. However, the baseline statistic in the M&E plan (35%) and target (42%) refer to currently married women based on the UDHS 2016. Therefore, we focus here on currently married women and not all women of reproductive ages for both unmet need and modern use of contraceptives.

Unmet need for modern contraceptive methods declined among currently married women. In 2016, the UDHS showed 28% of women had unmet need. The PMA surveys reported slightly higher unmet need (35% in 2015 and 31% in 2016), which declined to 30% in 2017 and 26% in 2018. This is better than the target of the Sharpened Plan which mysteriously stood at 29%, an increase of unmet need compared to the baseline.
The national data from the annual PMA 2020 surveys shows that modern contraceptive use among women 15-49 years increased between 2015 and 2018 from 30% to 36%. This however fell well short of the target of 42% (Figure 5). Subnational data are not available. Modern contraceptive prevalence among currently married women was 35% in the UDHS 2016, considerably higher than in the PMA survey in 2016, although this difference was not statistically significant. There was a significant shift in the methods mix. In PMA 2016, injectable methods were the lead method among married contraceptive users (64%) but in the PMA 2018 this proportion had declined to 46%. Implants, a long acting method, increased from 16% to 27% of users.

**Figure 5: Modern use of modern contraception among current married and all women 15-49 years**
(Source: annual PMA surveys)

Teenage childbearing remains common in Uganda with more than a quarter of girls 15-19 years who have given birth or are pregnant at the time of the survey (Figure 6). The baseline was 26% in the UDHS 2016 (28% according to the PMA 2016 survey) and in the 2017 and 2018 PMA surveys no change was observed: still 26%.
Figure 6: Teenage childbearing: girls 15-19 who are pregnant or have given birth, PMA and UDHS surveys (age adjusted for comparative purposes)

Table 3: Pre-pregnancy and adolescence indicators

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Baseline</th>
<th>Result</th>
<th>Progress</th>
<th>Target</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unmet need for modern contraception (married women)</td>
<td>28% (UDHS 2016)</td>
<td>26% (PMA 2018)</td>
<td>26% (PMA 2018)</td>
<td>29.3%</td>
<td>Surpassed target which was however set as an increase in unmet need (in error)</td>
</tr>
<tr>
<td>Modern contraception (reproductive age)</td>
<td>35% (UDHS 2016)</td>
<td>36.3% (PMA 2018)</td>
<td>36.3% (PMA 2018)</td>
<td>42.1%</td>
<td>Increase greater between PMA surveys (30% to 36%) than between DHS and PMA surveys</td>
</tr>
<tr>
<td>% Teenage pregnancy</td>
<td>25% (UDHS 2016)</td>
<td>26% (PMA 2018)</td>
<td>26% (PMA 2018)</td>
<td>15%</td>
<td>Little progress and far from target</td>
</tr>
</tbody>
</table>
PREGNANCY AND BIRTH
This section includes pregnancy care, delivery care and postnatal care related indicators. Most indicators had baselines from the UDHS 2016 in the M&E plan, but annual DHIS2 coverage estimates are used to assess progress. Several indicators were omitted because of lack of reliable data including the percentage of post abortion care clients who left the facility with a contraceptive method; percentage of pregnant women told about pregnancy danger signs; increased coverage of active management of 3rd stage. Ten indicators remained, all with targets.

ANTENATAL CARE
Two indicators refer to utilization of ANC and two indicators to malaria and HIV-specific interventions. Virtually all women in Uganda attend ANC at least once. In the UDHS 2016, 97.3% made at least one ANC visit with little variation between the regions and the median month of pregnancy for the first visit was 4.7 months: 29.1% attended before 4 months. In the UMIS 2018/19 a small increase was observed (31.7%). The DHIS2 data for 2016-2019 (2015 had poor data and was excluded) show lower coverage at 18-19% during 2016-2018, but a small increase to 21.6% in 2019. The difference between the survey and the facility HMIS data may partly be related to different cut-offs (4 months of pregnancy, 12-16 weeks in HMIS) and misreporting of pregnancy duration by the women or the health worker.

In the UMIS 2018/19, 57% of women reported 4 or more ANC visits, compared to 60% of women in the UDHS 2016. The HMIS data show lower coverage with 38% in 2015 and 2016 and then a gradual increase to 46% in 2019 (Figure 7). It is very well possible that the HMIS data are more accurate than the survey, where women may overreport the number of visits during pregnancy, which has been observed in several countries.

2 The survey data refer to the 5-year period before each survey for the ANC indicators
The coverage of intermittent preventive therapy (IPT) with 2 doses of SP for malaria prevention increased considerably in the most recent survey, from 49% in UMIS 2014/15, 46% in the UDHS 2016 to 72% in the UMIS 2018/19 (all figures for the two-year period preceding the survey). Also, IPT3 increased strongly to 41% in 2018/19 from 17% in 2016. This increase is also observed in the HMIS data from 54% to 66% during 2016-2019 (Figure 8).

HIV positive pregnant women not on ART should receive ARVs for elimination of mother to child transmissions and for their own treatment. In the Uganda PHIA survey in 2016, among HIV-positive mothers who gave birth in the 12 months before the survey, 72.9% were already on ART.
prior to pregnancy. Among all HIV-positive women who gave birth in the 12 months preceding the survey, 95.3% reported use of ART during pregnancy, which indicated high coverage of ART provision for PMTCT. The HMIS data showed that 88% of pregnant women newly received ART during pregnancy, delivery or postpartum in 2016. This did not increase in 2018/19 (91% in annual health systems performance report; 83% in 2019 HMIS), falling short of the 95% target.

**DELIVERY CARE**

The percent of deliveries in health facilities increased steadily over time according to the HMIS data. In 2016 57.5% of deliveries occurred in health facilities and in 2019 this was 66.9%. The most common place of delivery was HC III (39% of deliveries in health facilities), followed by general hospitals (19%), HC IV (17%) and HC II (13%) – which per MoH policy is not recommended. About one in 11 deliveries took place in regional or national referral hospitals.

C-section is not part of the M&E framework of the Sharpened Plan. It is however a very useful indicator of emergency obstetric care. The percent of deliveries by C-section is increasing in Uganda, especially in 2018 and 2019. In 2016 6.2% of deliveries were by C-section, in 2019 8.0%. The health system section of the M&E plan includes further indicators on emergency obstetric and newborn care. These data show that there was an increase in the percent of HC IV offering C-section from 70% in 2016/17 and 78% in 2017/18 to 81% in 2018/19 (Figure 9).

**Figure 9: Percent of deliveries in health facilities and percent by C-section among all deliveries, Uganda, HMIS 2015-2019.**
POSTNATAL CARE

The two indicators of the Sharpened Plan (postnatal care for mothers within 48 hours and newborns within 48 hours) do not have an exact equivalent in the HMIS system. The indicators are postnatal care within 6 hours and within 6 days. The percent receiving postnatal care with 6 hours is very high and exceeding the target. In 2016 it was 61%, increasing to 78% in 2017, 84% in 2018 and 94% in 2019. Most of these women will still be in the health facilities where they deliver, but it appears a significant part of women goes to a health facility within 6 hours after home delivery, if these HMIS data are correct. The percentage visiting health facilities after 6 days is increasing but still low at 30% in 2019, up from 13% in 2016.

Almost all mothers who were HIV positive received ARVs. According to the UPHIA, 95% of women used ARVs during the last pregnancy in the last 12 months. The HMIS data suggested that all eligible women accessed ARVs.

Table 4: Pregnancy and birth indicators

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Baseline</th>
<th>Results</th>
<th>Progress</th>
<th>Target</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>% First ANC visit in 1st trimester</td>
<td>29% (UDHS 2016) 19% (HMIS 2016)</td>
<td>32% (UMIS 2018/9) 21.6% (HMIS 2019)</td>
<td></td>
<td>50%</td>
<td>Small increase in 2019 but far from target</td>
</tr>
<tr>
<td>% Women attending 4+ ANC visits (anytime during pregnancy)</td>
<td>60% (UDHS 2016) 38% (HMIS 2016)</td>
<td>57% (UMIS 2018/9) 45.6% (HMIS 2019)</td>
<td></td>
<td>69%</td>
<td>HMIS increase in 2019, but overall too slow for target</td>
</tr>
<tr>
<td>% Pregnant women taking 2+ doses IPT</td>
<td>46% (UDHS 2016) 54% (HMIS 2016/7)</td>
<td>72.1% (UMIS 2018/9) 66% (HMIS 2018/9)</td>
<td></td>
<td>93%</td>
<td>Large increase but not sufficient for the target</td>
</tr>
<tr>
<td>% Pregnant women accessing antiretrovirals for PMTCT</td>
<td>88% (HMIS 2016)</td>
<td>83% (HMIS 2019) 91% (HMIS 2018/9)</td>
<td></td>
<td>95%</td>
<td>High coverage but still about 1 in 9 women do not get ARVs</td>
</tr>
<tr>
<td>% Pregnant women sleeping under ITNs</td>
<td>64% (UDHS 2016) 75% (UMIS 2014/5)</td>
<td>65.4% (UMIS 2018/9)</td>
<td></td>
<td>90%</td>
<td>No increase, and lower than in 2014/15</td>
</tr>
</tbody>
</table>
Birth

<table>
<thead>
<tr>
<th></th>
<th>% Institutional deliveries</th>
<th>Stillbirth rate per 1,000 births</th>
</tr>
</thead>
<tbody>
<tr>
<td>% Institutional deliveries</td>
<td>73% (UDHS 2016)</td>
<td>21.8 (HMIS 2016, revised)</td>
</tr>
<tr>
<td></td>
<td>60% (HMIS 2016)</td>
<td></td>
</tr>
<tr>
<td>% Institutional deliveries</td>
<td>67% (HMIS 2019)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>89% (HMIS 2019)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Steady increase, but well below target; HMIS lower than UDHS</td>
<td>12 (HMIS 2019)</td>
</tr>
<tr>
<td>Stillbirth rate per 1,000 births</td>
<td>89% (HMIS 2019)</td>
<td>17.4 (HMIS 2019)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>67% (HMIS 2019)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>60% (HMIS 2016)</td>
</tr>
</tbody>
</table>

Post-natal

<table>
<thead>
<tr>
<th>% Postnatal care for Mothers within 48 hours (6 hours)</th>
<th>% Postnatal care for newborns within 48 hours (6days)</th>
<th>% eligible HIV+ mothers that access ARVs</th>
</tr>
</thead>
<tbody>
<tr>
<td>61% (HMIS 2016)</td>
<td>13% (HMIS 2016)</td>
<td>95% (UPHIA 2016)</td>
</tr>
<tr>
<td>94% (HMIS 2019)</td>
<td>30% (HMIS 2019)</td>
<td>100% (HMIS year)</td>
</tr>
<tr>
<td>70% (HMIS indicators not the same but major increase)</td>
<td>85% (As above)</td>
<td>95% (HMIS data)</td>
</tr>
</tbody>
</table>

Comparison of district performance by priority group

Figure 9 shows the coverage rates of early ANC (per 100 pregnant women), four or more ANC visits (per 100 pregnant women), and institutional delivery care (per 100 deliveries), C-section rates (per 1,000 deliveries) and stillbirths (per 1000 births) for the period 2015-2019 based on the HMIS data. For the two ANC indicators, there are no differences between the two groups of districts. Both groups show a gradual positive trend and the increases are most pronounced in 2019.

Institutional delivery care in the two groups increased at a parallel linear pace over time. The only difference is that coverage was about 5% higher in the high priority group of districts compared to the low/intermediate priority group. There are however major differences in the C-section rates. While the C-section rates increased rapidly in both groups, the high priority group of districts had a C-section rate that is twice as high as in the low/intermediate priority group. This may partly be due to a greater level of urbanization in the high priority group where most districts with larger populations are represented.
Finally, stillbirth rates among health facility births are higher in the low/intermediate priority group: about 4 per 1,000 higher in 2016 and also in 2019. Both groups however show a decline over time.

**Figure 10: Selected indicators (ANC early attendance, ANC 4 or more visits, institutional delivery (per 100 deliveries), C-section rates (per 1,000 deliveries) and stillbirths (per 1,000 births) by low/intermediate and high district priority group, HMIS data, 2015**

We also assessed the trend in coverage and quality for 11 interventions using a summary measure (Figure 11). An index can provide a general overview of the differences between regions and the overall trend. Using the Countdown example of the RMNCH composite coverage index, a combined index was computed including 11 indicators of maternal and child health provides an indication of the regional situation. The DHIS2-based MNCH coverage index combines the following indicators, all derived from DHIS2: ANC visit before 12 weeks, ANC 4 visits, IPT2, institutional delivery, C-section (with 15% as the maximum, equaling 100% coverage), stillbirth rate as a proxy for the quality of intrapartum care (with 30 or higher per 1000 births as 0% coverage and 0 per 1000 as 100%), early initiation of breastfeeding (within 24 hours), postnatal care within 6 hours, penta3 vaccination, measles and PCV3 vaccination (unweighted), all based on the DHIS data for 2016–2019. All indicators were given equal weight in the index.

In 2019, the prioritized districts covered 61% of all women, children and adolescents currently not reached by the essential interventions, including 10% living in Wakiso and Kampala districts. The 51 priority districts have an estimated 50.5% of all live births, showing that the prioritization of districts indeed targets a larger proportion of non-reached women and children than no prioritization. The proportion of live births in Wakiso and Kampala is 10.7%, which corresponds with the 10% in need (no targeting).
Figure 11: RMNCH index based on 11 indicators by low/intermediate (81 districts), high district priority group (51 districts) and Kampala/Wakiso priority districts, HMIS data, 2017-19.

Assessment of district performance by implementation start

The districts were also grouped according to initiation phase. The three groups used here were initiated in January 2019, July 2019 and March 2020 respectively. Four districts supported by USAID are not included in this analysis as the number of districts is too small to form a group.

We considered ANC4 and delivery coverage for the three groups according to phase of initiation. Ideally, one would expect greater effects in the group that started to implement first – January 2019. However, the most recent HMIS data derived coverage refers to the year 2019 as a whole (mid-point would be 6 months of implementation of phase 1 districts) which may affect our ability to show results.

Figures 12 shows the trends in ANC4 and delivery coverage 2015-2019 in the three implementation phase groups. The districts in the third group have higher levels of coverage for both indicators than the two earlier implementation groups. The difference between the phase 1 and phase 2 groups is negligible, and both show an accelerated increase of ANC4 and deliveries in 2019. There is no evidence that Phase 1 districts have made greater progress.
NEONATAL AND CHILD HEALTH

There are three newborn and twelve child health indicators in the Sharpened Plan. Three indicators could not be measured (% cases of severe neonatal infection managed; % of districts implementing district wide kangaroo mother care for low birthweight babies; % of facilities with IMCI trained clinicians) as they need better definitions or had no facility data. In addition, two indicators of care-seeking behavior for sick children are derived from household surveys and no new data are available: % children with ARI treated with antibiotics and % children under-5 that take ORT/Fluids for diarrhoea. That leaves 10 indicators on neonatal and child health for this review.

Reports reviewed elucidated a number of activities that have been implemented with respect to neonatal care. For example, under the URMCHIP project, rapid assessment of neonatal care in health facilities is being conducted, as well as training of essential staff and continuous mentorship and supervision of health workers. The Ministry is scheduled to start placing health workers in centers of excellence in neonatal care for mentorship. Areas of focus identified include provision of essential equipment (baby warmers, incubators, chairs for kangaroo mother care and oxygen concentrators for new born care); space for provision of neonatal care services, essential drugs for management of new born conditions; and knowledge and skills on the management of neonatal conditions among others.

In addition, it’s reported that 71 districts are implementing ICCM through VHTs in collaboration with public health facilities; towards reduction of child morbidity and mortality due to malaria,
pneumonia and diarrhea supported by different partners. The URMCHIP project has supported ICCM supervision in 24 districts in FY 2019/20, although noting low levels of reporting on ICCM indicators in DHIS2; attributed to lack of remuneration and transport for the VHTs specifically, bicycles; stock out of key commodities/drugs; lack of registers for accurate reporting; lack of other logistics which includes torches to facilitate their work when called at night, rain coats; lack of adequate human resource to supervise VHTs; and attrition of VHTs due to death, relocation, old age and loss of morale (URMCHIP Progress Report 2020). A case study on child health successes and failures (2020), reports that limited progress has been observed in child health.

**Breastfeeding initiation**

Initiating breastfeeding with the first hour of life was reported by 66% of mothers in the UDHS 2016. The HMIS provides data on breastfeeding initiation which presumably refer to all babies born in health facilities. In 2016, 79% were breastfed within 1 hour. This increased to 85% in 2017, 89% in 2018 and 91% in 2019. It is surprising that the HMIS data are considerably higher than the population rates from the DHS as one would expect that early breastfeeding in community births are higher than in facilities. This may need further investigation to make sure the HMIS is not over reporting.

**Immunization**

The HMIS data on immunization show little change over time. The percent of children who received all vaccinations increased modestly from 59% in 2016 to 64% in 2019. There was no increase in the coverage of the third dose of pentavalent vaccine (89% in 2016 and 88% in 2019), but measles coverage increased from 76% to 81%. The UDHS 2016 showed lower coverage rates for penta3 than the HMIS 2016 (2015 data were not usable) (79%).

In 2016, 20 of the 135 districts had full immunization coverage among infants above 80%. This increased to 21 in 2017 and 28 in 2018. In 2019, 27 districts had full coverage above 80% (20% of districts), which was well short of the target of 90% of districts.

---

3 For the immunization coverage rates we used the reported number penta1 vaccinations as denominator, with an adjustment for unvaccinated children. See appendix for methodological details.
Malaria

The MIS 2018/19 showed a major decline in the percent of children 0-59 months with parasitemia since the previous MIS 2014/15: from 19% to 9%. There were major differences between the regions of Uganda. Karamoja, West Nile and Busoga all had parasitemia above 20%, Lango and Acholi between 10% and 20% and all others less than 10%. These results are according to blood slide with microscopy. The rapid diagnostic test was positive for 16.9% of children in 2018/19, compared to 29.9% in MIS 2014/15.

The use of ITN remained at 60% of children under 5 according to the MIS 2018/19. This was no increase since 2014/15 and lower than a decade earlier (74% in the MIS 2009).

The percent of children with fever in the last 2 weeks was 26% in UMIS 2018/19, down from 33% in UDHS 2016 and 31% in UMIS 2014/15. Most children with fever were taken to a health facility (87%), as in previous surveys. The percent of children who were taken for diagnosis and treatment the same or the next day was 57% in the UDHS 2018/19, up from 48% in the UDHS 2016. Of the under-fives with fever, 62% received antimalarials and ACT was the most common treatment (88%) as in 2016 and 2014/15. The overall percent of children with fever who received ACT declined from 63% in the UDHS 2016 to 55% in the UMIS 2018/19, which was well short of the indicator target of 85%. The indicator however is not precise enough. Only confirmed cases should be treated with ACT and a decline in confirmed cases among children with fever would translate into a decline in the percent of children with fever who are treated with ACT. Therefore, the data on this indicator cannot be interpreted as a decline in ACT use for malaria in children.

Figure 13: Full immunization coverage and coverage with pentavalent 3rd dose, measles and BCG vaccinations in the first year of life, HMIS, 2016-2019.
Figure 14: Treatment patterns for malaria among children under 5 years with fever in the last two weeks as reported by the mother, UMIS 2014/15, UDHS 2016, UMIS 2018/19.

HIV

Less than one percent (0.5%) of Ugandan children (ages 0-14 years) were living with HIV in the UPHIA 2016/17. Based on parents’ reports, adjusted for ARVs detected in children’s blood, only 56.3% of children diagnosed with HIV in UPHIA had been previously diagnosed and more than half of children (54.3%) who living with HIV were not on ART. The lowest level of viral load suppression (39.3%) found in any subpopulation (by age group) examined in UPHIA 2016-2017 was found among children.
<table>
<thead>
<tr>
<th>Indicator</th>
<th>Baseline</th>
<th>Result</th>
<th>Progress</th>
<th>Target</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Neonatal</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% of mothers initiating breast feeding within 1 hour</td>
<td>66% (UDHS 2016)</td>
<td>91% (HMIS 2019)</td>
<td></td>
<td>80%</td>
<td>Target met for facility births;</td>
</tr>
<tr>
<td>% Districts with &gt;80% full immunisation coverage</td>
<td>15% (HMIS 2016)</td>
<td>20.0% (HMIS 2016)</td>
<td></td>
<td>90%</td>
<td>Small increase but far from target</td>
</tr>
<tr>
<td>% children fully immunized</td>
<td>55% (UDHS 2016)</td>
<td>64.1% (HMIS 2019)</td>
<td></td>
<td>80%</td>
<td>Modest increase according to HMIS data</td>
</tr>
<tr>
<td>Prevalence of malaria in U5s</td>
<td>19% (UMIS 2014/5)</td>
<td>9.1% (UMIS 2018/9)</td>
<td></td>
<td>&lt;25%</td>
<td>Prevalence based on microscopy</td>
</tr>
<tr>
<td>% Under-5 children that slept under LLINs</td>
<td>62% (UMIS 2014/5)</td>
<td>60.3% (UMIS 2018/9)</td>
<td></td>
<td>90%</td>
<td>No improvement</td>
</tr>
<tr>
<td>% children with fever treated with ACTs</td>
<td>67% (UMIS 2014/5)</td>
<td>55% (UMIS 2018/19)</td>
<td></td>
<td>85%</td>
<td>Derived from UMIS &amp; UDHS published data; indicator should be confirmed malaria cases</td>
</tr>
<tr>
<td>% children with fever treated within 24 hours</td>
<td>48.1% (UDHS 2016)</td>
<td>56.9% (UMIS 2018/9)</td>
<td></td>
<td>80%</td>
<td>Progress but target much higher</td>
</tr>
<tr>
<td>% HIV+ children accessing ARVs</td>
<td>52% (source)</td>
<td>54% (UPHIA 2016/7)</td>
<td></td>
<td>90%</td>
<td>No data after 2017</td>
</tr>
<tr>
<td>% Under-5 that receive vitamin A supplementation</td>
<td>54%</td>
<td></td>
<td></td>
<td>80%</td>
<td>Still to be analysed</td>
</tr>
</tbody>
</table>
**Comparison of district performance by priority group**

In general, full immunization coverage, as well as coverage with three doses of pentavalent vaccination, was slightly higher in the low/intermediate priority group of districts (Figure 15). There was a small increase in full immunization coverage in 2018 in both groups and only in the low/intermediate priority group in the subsequent year.

*Figure 15: Full immunization and pentavalent third dose coverage among infants by low/intermediate and high district priority group, HMIS data, 2016-19.*

**Assessment of district performance by implementation start**

The USAID-supported districts (group 4) have the higher level of immunization coverage throughout 2016-2019 without much change over time. There is no evidence of an early impact of the implementation of the project in the 2019. Full coverage increased in the phase 1 group of districts, but the phase 3 districts experienced a much larger increase. For pentavalent third dose there was little change over time in any of the groups.
Figure 16: Percent of infants who are fully immunized (left panel) or have received pentavalent vaccination (three doses) (right panel), according to the GFF investment case implementation start, HMIS, 2015-2019.

**Monthly data analysis**

We selected three indicators for monthly analysis: ANC4, institutional delivery and DPT3/pentavalent third dose. We focused on absolute numbers reported to avoid any potential biases with denominators and analysed the monthly data from January 2017 to March 2020. We would expect that the early implementation phases (phase 1 especially) result in greater positive changes than the later starter districts (phase 3).

Figure 17 shows the monthly trends for the three indicators, as well as the absolute difference between the two priority district groups by quarter. An increase of the difference would mean faster changes in the high priority district group. There is little evidence of this occurring.
Figure 17: Monthly trends for the three indicators and absolute difference between the two priority district groups by quarter

Figure 18 presents the trend in institutional deliveries in the three district groups according to implementation phase. Comparing the trends between early and late implementation groups and between mid and late implementation groups shows no major differences over time. The lower panel shows the absolute differences between the groups which we expect to go down after implementation. This happened after Q3 2019 for the early implementation group of districts, and to a lesser extent a little later for the mid implementation group. The main cause of the reduction of the difference however was not a more rapid increase in the early or mid implementation groups but a decline of more than 10,000 deliveries in the late implementation group.

A similar trend was observed for ANC4, with a reduction of the gap with late implementation districts, mainly due to a greater decline in the late implementation districts (Figure 19). The gaps between the groups however remained the same In Q4/2019 and Q1/2020.
Figure 18: Number of deliveries in health facilities by quarter and implementation district group, with absolute differences between the early and mid-implementation groups with the later implementation group in the lower panel.
Figure 19: ANC4 by quarter and implementation district group, with absolute differences between the early and mid-implementation groups with the later implementation group in the lower panel.

For DPT3 vaccinations to infants the gap between the late implementation group and the early and mid-implementation groups increased during Q1 2020. All groups experienced a strong decline in Q4 2019, greater than in previous years, which may partly be due to supply issues. The recovery from this dip in numbers was somewhat greater in the districts that had not yet started the implementation of the investment case interventions than in those who had started.
Figure 20: Number of DPT3 vaccination in health facilities by quarter and implementation district group, with absolute differences between the early and mid-implementation groups with the later implementation group in the lower panel.
OUTPUT 3: Non-health sector interventions that impact on maternal, newborn and child vulnerability and deaths harnessed

The multisectoral link and broader non-health sector interventions have a direct and significant impact on RMNCAH outcomes. In implementing the investment case the effect on non-health sector interventions has been both positive and detrimental to the achievement of IC targets. The non-health sectoral issues continue to contribute to the burden for example through malaria, nutrition and WASH; and progress was registered where these were addressed by non-health actors. Most interventions were skewed to reactive and focus on addressing problems instead of balancing it out with investing in the potentially impactful prevention processes on the demand side. Generally, rational measures (for example UDHS data) and processes (e.g. pilots, implementation waves under RBF) were used and this is commendable. Inspite of this however, this strategic shift did not perform well. In terms of implementation experiences and reported RMNCAH outcomes, little difference was observed across districts in the different implementation wave phases. In addition, some key stakeholders did not fully understand the categorization criteria under this strategic shift, reporting it to be unclear or even not the sole determinant.

The key explanatory factor for this observation was resource-related. Funding delays impacted on implementation timing and outcome, as seen in the excerpt below:

If you don’t have inputs, what do you expect? It renders the whole process almost null and void. Even when you eventually get the funds and begin implementing, you would have lost a precious resource of time, so catching up is not easy. You basically spent the first two years trying to get off the ground and before you know it the time is up. That is what happened with the investment case

(National level participant #2)

The M&E framework also includes several so called “Cross-cutting areas” indicators which partly overlap with the indicators of log-frame, including girl marriage, anemia in women (pregnancy this time), stunting prevalence and improved sanitation (output 3). Two additional indicators that fit under output 4 are % DHOs with capacity to analyse data, plan and implement RMNCAH programs with a target of 95% and percent of facilities holding MPDSR. The latter indicator was evaluated in the 2018/19 annual performance report of the ministry of health using HMIS data. About half (51%) of maternal deaths and just 3.8% of perinatal deaths were estimated to have been reviewed in 2018/19.

Teenage pregnancy, as described under impact indicators, has generally shown little improvement over time. Similarly, girl child marriage rates remained high. In the UDHS 2016, 43% of girls was
married by the age of 18. The median age at first marriage of 19.4 years. In the PMA2020 survey in 2018, the median at first marriage for rural girls was 19.0 years and for urban girls 20.6 years. Anemia testing for adult women was not included in the UMIS 2018/19, so no new data were available since the UDHS 2016 (32% of women anemic).

The percent of households with improved sanitation facilities increased dramatically between 2016 (UDHS) and 2018/19 from 19% to 44%. This remarkable increase is still far from the ambitious target of over 80% of the sharpened plan but it does represent major progress.

Table 6: Other non-health sector indicators

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Target</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teenage pregnancy and motherhood</td>
<td>reduced from 24% to &lt;15%</td>
<td>No major decline (29% in 2018)</td>
</tr>
<tr>
<td>Girls married by age 18</td>
<td>reduced from 46% to &lt;10%</td>
<td>No major change</td>
</tr>
<tr>
<td>Stunting among children under 5 years</td>
<td>reduced from 33% to &lt;25%</td>
<td>Inputs from SickKids, but no new data since 2016</td>
</tr>
<tr>
<td>Anaemia in non-pregnant women</td>
<td>reduced to &lt;20%</td>
<td>??</td>
</tr>
<tr>
<td>Households with access to improved sanitation</td>
<td>increased from 16% to &gt;80%</td>
<td>44% used improved facilities in MIS 2018/19, compared to 19% in UDHS 2016</td>
</tr>
<tr>
<td>Out-of-pocket expenditures for the poor</td>
<td>reduced to &lt;15%</td>
<td>??</td>
</tr>
</tbody>
</table>

In addition to ASRH under high burden population shifts, the component of multisectoral partnership in RMNCAH also performed poorly. It is also inextricably linked and partly explains the poor performance of ASRH as shown earlier. Engaging of multi-sectoral stakeholders was reported to be difficult mainly due to having different priorities, viewpoints, capacity, timelines, systems and structures, from those predominant in the health sector. An attempt was made to bring multiple stakeholders from different sectors and constituencies in the development of the IC/SP; however, this engagement was not sustained throughout the process – especially at implementation phase; and neither was the contribution of these key stakeholders sufficiently leveraged for improved RMNCAH:

There is [Ministry of] education, gender, and for child health the agriculture team is really important, local government as the main implementation stewards at the district level is important and Ministry of Finance. I think Ministry of Finance has participated more than all the other sectors although their attendance was not really frequent. The intention was to have a broad representation of stakeholders at those cluster technical working group and Ministry of Health really reached out to all the stakeholders... for example the religious
bodies... although we started with them, somewhere along the way they dropped out. They came initially but when they found that they were not benefiting much and that there was no room to contribute to specific components within the implementation, when there was no mention of progress reports and all these other challenges, I think interests from these players also dropped and they started dropping out in attendance.

(National level participant #3)

If you look at all those things around adolescent health the conversation between the different ministries Ministry of Education, Ministry of Health, it is not good. But also other linkages around ECD, of course they are bits of it under Ministry of Gender ... so when it comes to intersectoral linkages they were key things that were missing. I know that when we designed the SP for example cultural leaders and the private sector were very instrumental but over the years I think we didn't tap into the passion of the cultural leaders so most of them went silent or just left. Then also the private sector, we looked at them more from the service provision point of view that is the facilities PNFPs or PHPs but we didn't look at the other bit of the sector for example what do the other bit of the sector like for example how could the telecommunications have contributed, the big taxpayers of in the private sector how could they contribute to the agenda, we really didn't tap in to that.

(National level participant #14)

However, the broader macro policy landscape is getting better and enabling for linkage, integration and multisectoral partnership; for example, with the current NDP approach, OPM intersectoral meeting and the new Community Health Strategy. These are significant windows of opportunity that should be fully utilized as they present.

**Gender and equity**

The IC tried to integrate gender and equity in its design, mostly through some of its shifts – for example the shift that targeted high burden populations. Gender and equity overlaps were also noted with adolescent health. Overall, however, as outlined in performance of the different shifts, this has also not registered so much success. By default, RMNCAH services are mostly utilized by the female gender. There is limited engagement of men and boys in most of the interventions which are also skewed to the supply side. And this limited male engagement could partly explain issues around the level of unmet need for contraception, access to and utilisation of RMNCAH services. Generally, Gender/equity is as elusive as social accountability, and both can partly be explained by disproportionate focus on the supply side with limited community-facing and preventive interventions.

The national strategy to end child marriage and teenage pregnancy 2014/15-2019/2020 is being implemented. Additionally, the national integrated early childhood development policy action plan
2015-2021 has been developed. The Ministry is currently reviewing ADH in other policies and is to develop a national implementation plan. Training of 879 health workers on AFHS and SGBV; and mentorships for 56 health facilities in 22 districts (Karamoja and refugee hosting districts) has been undertaken. 16 districts have been supported to establish coordination platforms with support from Danida and UK AID through UNFPA.

With URMCHIP support, building health provider capacity for 1000 health workers and 400 health facilities HCIIIs and HCIVs responsiveness to ADH needs and challenges is planned for 40 high burdened districts. Under the Project, a training of 90 trainers (ToTs) for health workers was completed. Subsequently, 1200 community resource persons including VHTS and 1200 young peer mobilisers as well as 60 university health providers were to be trained in March 2020. This was put on hold due to the COVID-19 pandemic.

The Ministry has also adapted the Information Education and Communication (IEC) guidelines and pretested ADH materials in selected districts. However, dissemination of the pre-tested materials has been delayed by the COVID-19 lockdown. Other critical activities that have been prioritized include community parents, teachers, and health provider dialogues, engagement of cultural and religious leaders, school outreaches during Bazaars especially in universities that have reported high risk and unhealthy practices. In February and March 2020, the Ministry had dialogue meetings with the kingdoms of Busoga, and Arua with over 300 people in each of the meetings. University bazaars were covered during which young people were mobilized and provided with appropriate reproductive health information. ADH, Maternal and Reproductive materials were reviewed and are due for printing. Engagement of media houses was submitted to procurement and is awaiting approval. Once contracted, the media houses will improve information dissemination.

**Nutrition status of children and women**

Population level data on nutrition and anaemia status in the country is not available as the last DHS was done in 2016. Therefore, to estimate the nutrition and anaemia status, we used reports from the National Information Platforms for Nutrition (NIPN). The NIPN is an international initiative funded by the European Union, institutionalized and hosted in UBOS (Analysis Unit) and OPM (Policy Unit) in collaboration with all sectors involved in the UNAP and is technically supported by UNICEF. The platform was started to strengthen the capacity to track progress in meeting national objectives to prevent malnutrition in all its forms and monitor nutrition investments; and to build the capacity of national policy makers and program planners to make better use of evidence in designing and implementing nutrition policies, projects and programs.

**The Data sources – the Uganda panel data platform**

Annual longitudinal - sectional household survey tracks (traces) the panel households from 2009/10 (wave 1) to the current wave 8 which was completed in 2019. The surveys are conducted annually over a 12-month period on a nationally representative sample of 3,220 households. Each
household is visited 2x/year (full interview 1x/year). The sample size every 6 months for the “full” interview (nationally representative estimate) is 3200 Households, 3900 Women 15-49 years; 1700 Children 6-59 months. The sample is chosen to be representative of national, urban/rural and all five 5 regions of Uganda. The survey oversampled Karamoja in 2018 and 2019.

**Key highlights of the nutrition status of women and children in Uganda**

- Stunting is persistently high in the Western region
- Anaemia is rising in both women and children
- Anaemia still higher among pregnant women
- Low dietary diversity, meal frequency and minimum acceptable diet in children
- Low dietary diversity among women of reproductive age
- A high dependency on staple foods
- Low household meal frequency
- Provision of meals at school is lowest in Northern and Western regions

**Increasing low birth weight:** every 1 in 10 children were born with low birth weight. National low birth weight increased from 4.4% in 2018/2019 to 8.5% 2019/2020, with rural areas having the highest percentage from 5.5% in 2018/2019 to 8.9% in 2019/ 2020 and urban increased from 2.6% in 2018/2019 to 7.9 in 2019/2020. Regionally the central region has the highest standing at 10.8% from 4.0% in 2018/2019 followed by northern region from 4.9% to 9.7%, eastern increased from 3.7% to 8.1 and western having the least children born with low birth weight at 5.4% from 4.8%.

**Table 7: Low birth weight among newborns in Uganda**
Reduction stunting in the country: Stunting rates reduced nationally from 33.8% to 25%, 2009/10 to 2019/2020 respectively. Regionally western had the highest stunting rates standing at 33.1% and northern had the lowest standing at 22.7% while eastern and central had 23.8% and 24.3% respectively.

Table 8: Stunting among children 6 to 59 months in Uganda

![Graph showing stunting rates](image)

Comparative analysis of stunting using DHS 2016

Under-five stunting prevalence affected 29% of Ugandan children in 2016. A 2016 district-level map (Figure 3a) demonstrates the large sub-national variation in stunting, and underscores the higher burden of chronic malnutrition in the Northern and Western regions. Prevalence ranges from 4.5% in Kween to 84.6% in Bududa (Figure 3b), with 44/112 districts having a higher stunting prevalence than the national average. Inequalities in stunting have improved over time, but there is room for progress. In 2016, under-5 stunting was 14% points lower among children from the richest households when compared to the poorest; 18% points lower among children of mothers with secondary or higher education when compared to mothers with no education; 7% points lower among children living in urban versus rural areas; and 4% points lower among girls when compared to boys.
Figure 21a: District-level stunting prevalence in 2016.

Figure 21b: District-level stunting prevalence in 2016.
A decomposition analysis was conducted to determine and rank the predictors of change in height-for-age z-score (HAZ) from 2000 to 2016 (Figure 4). The main explanatory factor was belonging to a household that had a mosquito bed net. Improvements in bed net coverage represented 36% of the total HAZ changed explained. Better maternal nutrition accounted for 17% of the total HAZ change explained, followed by improved maternal education (14%), maternal and newborn healthcare (11%), and paternal education (5%). Greater access to piped water and higher household wealth each accounted for 4% of the total change in HAZ. This was followed by improved open defecation, inter-pregnancy intervals, women’s empowerment around health care decisions, and maternal anemia, which each represented 2% of the total HAZ change. Reductions in adolescent births (<1%) and diarrhea (<1%) were important, but contributed less when compared to the other factors. Overall, 82% of the total HAZ change was explained. Uganda’s decline in stunting over time was therefore the result of multi-sectoral actions and interventions from both within and outside of the health sector.

Figure 22: Decomposing predicted change in HAZ (% contribution of determinants) from 2000 to 2016.

Childhood wasting: Childhood wasting reduced nationally from 4.0% to 2.6% between 2018/19 and 2019/20. It is highest in the northern region at 3.8% and lowest in central region at 1.3%. 
Childhood underweight: Nationally, childhood underweight has stagnated around 7.8% between 2015/16 and 2019/20. Rural households (9.1%) and the northern region (10.5%) have a higher proportion of children under 5 years who are underweight.

Table 9: Wasting among children 6 to 59 months in Uganda

Childhood anaemia: Nationally, childhood anemia increased from 30.4% to 44.3% among children under five years. Thus every 4 in 10 children 6-59 months are anaemic with east (57.5%) and the northern region (51%) having the highest rates in the country.

Table 10: Underweight among children 6 to 59 months in Uganda
Table 11: Anaemia among children 6 to 59 months in Uganda

4 in 10 children 6-59 months anaemic

Table 12: Anaemia among women of 15 to 49 years in Uganda

Anaemia in women of child bearing age: Nationwide, anaemia in women of reproductive age is worsening, increasing from 15.4% in 2018/19 to 25.8% in 2019/20. Thus 3 in every 10 women of reproductive age are anaemic with rural regions having more anaemic women at 25.8% compared to urban areas (24.9%). Regionally it is highest in the East at 33.6% and lowest in the North at 19.2%.
OUTPUT 4: Collective action and mutual accountability

The fourth output includes 10 indicators that aim to capture collective action and mutual accountability. At present, data availability on the collective action and mutual accountability is limited, including the performance reporting and transparency, commitments by partners and disbursement. According to a WEMOS/CEHURD report the project’s disbursement remained low after three years of implementation (23% by June 2019).

CRVS

Birth Registration is part of the Civil Registration and Vital Statistics systems that provides children with the right to legal identity and official recognition by the State. However, the review findings indicate that the universal birth registration remains a challenge. The implementation of the CVRS is under the mandate of the National Identification Registration Authority (NIRA) and there is a legal strong legal and regulatory framework for introduction of compulsory civil registration in Uganda. The development and strengthening of the CVRS component has already registered some progress, for example in the area of scaling up B&D registration, improving M&E and also integrating these systems with the Ministry of Health. Like any other institution at inception, NIRA’s start was bumpy but its systems are getting more robust and its coverage wide enough to support the national development agenda, including improving health outcomes. Investment in this Strategic Shift can partly explain the relative success of Shift 1 on high impact solutions.

• Systems have taken baby steps and are midpoint in robustness but are promising. While NIRA’s contributing was not largely felt by the other IC/SP stakeholders through progress reports, its positioning is much better now and recent inter-institutional developments including signing of an MOU with MoH, national scaleup and active involvement in DHT platforms, recruitment and system strengthening are likely to significantly contribute to improved RMNCAH outcomes. The explanatory factors for performance of this shift is human resources, developing systems, time and supportive partnership and funding - especially through the URMCHIP project.

Increasingly we have evidence that there is better documentation. Within this period, we have had one round of review of HMIS and a lot of the changes that have happened in there have been informed by the needs of the implementation on the ground. We have enhanced documentation around surveillance including mortality data and periodically sometimes as often as on a weekly basis get these reports coming though. We have had documentation related to mortality ... we consistently every year have a report highlighting where the improvements happened, where the gaps are, what is needed to be focused on as a country and these form important tools to guide implementation especially for new partners that are coming on board

(National Level participant, #11)
The Ministry of Health through the URMCHIP project has started the process of strengthening capacity to scale-up delivery of births and deaths registration services by supporting the principle CRVS institutions at central and subnational levels to carry out their mandate to provide BDR services and to scale-up BDR services. Planned interventions include; development and dissemination of a national CRVS policy and communication strategy; development of the birth and death registration (BDR) protocols and manuals; and scaling up births and deaths registration across the country including procurement and securing of appropriate infrastructure, materials and systems for BDR. NIRA has prioritized registering the backlog of notifications in the Mobile Vital Records System (MVRS) which was developed with support from UNICEF. The system has been upgraded to include modules on registration of births and deaths. Procurement of ICT equipment for all HCIVs to increase coverage of the MVRS is in advanced stages. NIRA approved a draft report for the Communication Strategy for NIRA but the stakeholders’ workshop to review the strategy has been delayed by the COVID-19 lockdown and other options for finalizing this assignment are being explored including e-consultations. Birth and death notification and registration modules are operational and have been rolled out to all NIRA District offices.

The reported figures on birth registration are based on MVRS indicate an increase in birth registration is observed between 2016-2018 (13% point increase) but later reducing by the 13% point in 2019. As of 2019, 1 out 10 of the reported births were registered at national level. Figure 21 shows the national level trends in the percentage of birth notifications and registrations

**Figure 21: National level trends in the percentage of birth notifications and registrations**

![Figure 21: National level trends in the percentage of birth notifications and registrations](www.mobilevrs.co.ug)
The target was to increase access, coverage and quality of Birth Registration services from the current 60% to 90% by 2020. This target seems ambitious given the current estimates. Furthermore, although at baseline the birth registration was estimated at 60%, the current definitions and process birth registration are different from those used for the baseline estimation, which may affect the endline estimates. The Birth and Death Registration basically has three steps. Step one is Notification – this is done by the Health facility for events of Birth/ death that occur in Health centres and Hospitals. The Hospital Administrator notifies the area Registration officer known as a district Registration officer of all these events that occur in their respective facilities. Step two is Registration – this is done by the Registration officer who has the event registered at our respective NIRA office. Step three is Certification – the certification is also done by the registration officer after payment of the prerequisite fees and a receipt availed to the officer as proof of payment. A certificate will then be produced, signed and issued to the client as proof of birth/death Registration.

Comparing the regions, a steady increase in birth registration is observed 2016 and 2018 in both regions but thereafter plummeting in Eastern and Northern region. In eastern region, birth registration increased by 30% point (from 13% in 2016 to 43% in 2018) but later reduced by almost the same percentage point. In Northern Uganda, birth registration increased by 15% point but later reduced by 28% point. Figure 22 shows the regional trends in the percentage of birth notifications and registrations.

**Figure 22: Regional trends in the percentage of birth notifications and registrations**

Source: www.mobilevrs.co.ug
The system for death registration and autopsies is not available, however, the consultancy contract for the development of the communication strategy has been signed. The process for work on Birth, Death and Adoption Order Registration solution started in March 2020. A draft contract has been submitted to the Solicitor General for review and approval. The contract for procurement of equipment to connect NIRA headquarters and District offices was signed on 15th November 2019 and delivery done in Feb 2020. Installations in the five divisions of Kampala commenced in March 2020 but process stalled by COVID-19 pandemic.

BDR equipment were procured including computers, printers, LANs, server racks, servers and UPSs among others. Delivery and installation of 234 Desktops, 234 UPS, 117 printers, 121 servers, 121 server racks, 121 displays and 121 UPS in 117 Districts was completed and migration of data from the old to the new servers has been completed in 44 out of the 117 beneficiary districts. Training on notification of birth and death using MVRs and equipping all the duty bearers in the 6 regions on the revised MVRS system started in July 2019 with the Central region. Outreaches (mobile birth and death registration) have been held in Kanungu, Bukwo and Amudat (Feb, 2020).

Intelligent Integrated computer systems for EMRS where the ICD11 will be hosted has been piloted in 7 RRHs and will be rolled out countrywide once the equipment is made available. MCCoD module & ICD 11 coding tool have been integrated in DHIS2 and IICS and Off-site testing completed. Final tuning and handover were expected end May 2020. Harmonization of death related data tools and development of CRVS data management plan and SoPs between NIRA, MoH and UBOS was completed in February 2020. Technical Assistance will be required to integrate ICD11 into DHIS2; a request was sent to WHO.

MPDSR

MPDSR guidelines were launched in 2017, which was followed by capacity building of health workers, district leaders and stakeholders on the guidelines. According to the MPDSR 2018/19 report, while maternal and perinatal death notifications is high (97.8%) 131/134 districts, only 76(58%) districts conduct death reviews/audits. There are gaps in linkage between facilities, district leadership and functionality of district committees.

There was an increase in the number of maternal death reviews, but still below target. In 2016/17, a total of 1,118 maternal deaths were reported through the HMIS of which, 24%(267) were reviewed/audited. In 2017/18, a total of 1,111 maternal deaths were reported of which, 50%(555) were notified and reviewed/audited. In 2018/19 a total of 1,083 maternal deaths were reported of which, 57%(616) were notified and 51%(553) were reviewed/audited. This is below the HSDP target of 65%.

It should be noted that there are variations in the figures reported in the documents informing this section (AHSPR 2017/18, AHSPR 2018/19, MPDSR report 2018/19). Nonetheless, there's been a general decrease in total maternal deaths reported through HMIS. There was an increase in proportion of deaths notified 33.5% (2016/17) to 57% (2018/19); as well as proportion of deaths reviewed from 24%(2016/17) to 51%(2018/19).
Reports show improvement in perinatal death notification from 11.7% in 2016/17 to 19.6% in 2018/19; as well as perinatal death reviews from 1.5% to 3.6% in the same period [a total of 29,179 perinatal deaths were reported, of which 19.4%(6,672) were notified and only 5.9%(1,732) were reviewed]. According to the MPDSR 2018/19 report, most perinatal reviews done were early neonatal deaths at 32.3%(340/1054) and fresh still births at 30.5%(321/1054).

**MPDSR response:** Guidelines were rolled out with subsequent trainings/orientation. Event tracer tool is being piloted to address low notification rates; feedback and mentorship, parliamentary meetings, data spot checks conducted, revision of MPDSR tool to align with HMIS, monthly updates submitted to MCH TWG. A national PDSR ToT (65 trainees) was conducted to improve perinatal death reviews.

**Challenges:** weak district leadership, inadequate engagement of political leadership, lack of feedback to referring facilities, inadequate support for MPDSR activities from supervising RRHs and poor linkage of MPDSR activities to quality improvement. Other issues identified include; delayed referral of patients from lower to higher facilities, poor reporting and documentation which arises from inadequate materials like MPDSR tools and referral forms, limited support to MPDSR committees by health facility leadership and district MPDSR committees in owning recommendations and taking action.

**RESOURCE COMMITMENTS – FINANCING FOR RMNCAH/N**

**Summary of the findings**

- **External financing represents a large share of total health expenditure.** Most of the funding is intervention-based, thus creating challenges for donor funding harmonisation and to ensure the Ministry of Health can adequately exercise stewardship power. Additionally, channelling funding off budget undermines the government public financial management systems and lead to high transaction costs.
- **Over 75% of the external contributions to RMNCH is provided by the Global Fund, the USA and GAVI.** The high dependency on these donors creates potential financial sustainability challenges and limits the stewardship role of the Ministry of Health. Recently, a donor transition plan has been developed to ensure a smooth transition between donor and government financing.
- **The amount external financing channelled into the Uganda health sector over the past decade has not met the population growth rate.** In fact, between 2014 and 2018, per capita aid for RMNCH has remained roughly constant. Additionally, some donor-funded projects have failed to achieve the stated objectives. For example, the World Bank funded URVHP was not able to adequately reach poor women, who were the initial target of the initiative due to programme design weaknesses and other implementation issues.
Since FY 2018/19 there has been a substantial increase in domestic allocations to the health sector and a needs-based resource allocation formula was introduced to determine the size of district level NWR PHC allocations and ultimately improve equity of resources allocation. However, NWR represents only moderate share of the overall district level allocation, whereas most of funding is allocated through the wages grant.

**TOTAL HEALTH EXPENDITURE TRENDS**

Between FY 2010/11 and 2015/16, the overall expenditure on reproductive health as defined by the NHA (including family planning, maternal and neonatal conditions) reduced in real terms, declining from UGX 937,414 to 862,654 million (USD 251.5 and 231.2 million) (Figure 23). However, expenditure on reproductive health as a percentage of total health expenditure (THE) increased from 12% to 15%. Between FY 2010/11 and 2015/16, government expenditure as a share of total reproductive health expenditure increased from 13.1% to 20.3%, whereas private expenditure on reproductive health has been constant at around 63%. Private expenditure (in the form of out of pocket payments or insurance contributions) is greatest for maternal and perinatal conditions, accounting respectively for 81 and 87% in FY 2010/11 and 63% and 71% in FY 2015/16.

Expenditure on maternal and perinatal conditions increased by 6.8% and 13.3% between 2010/2011 and 2015/2016, whereas expenditure on family planning and other maternal conditions (e.g. general child health and nutritional deficiencies) decreased by 56.3% and 64.2% over the same timeframe (Figure 24).

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4 Expenditure are classified as follows: “Public”: from the Government of Uganda, “Private”: from individuals, “Development Partners”: from third party donors.
Between FY 2011/12 and 2015/16, total immunization financing has almost tripled in real terms rising from UGX 116,113 million (USD 31.2 million) to UGX 316,470 million (USD 84.9 million). This increase is primarily driven by an increase in funding from GAVI. In FY 2014/15 and 2015/16 they provided the largest share of resources with contributions of UGX 145,718 million (USD 39.1 million) and 205,410 million (USD 55.1 million), corresponding to 57% and 65% of the overall immunization expenditure. District Health Offices and government facilities provided the majority of immunization services but did not manage an equal share of resources.

Source: Authors’ calculations from NHA FY 2010/11 to 2015/16.

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The family planning 2018 Resources flows survey on family planning in Uganda revealed that between 2016 and 2017, the total resources envelope for Family Planning increased from UGX 88,001 million (USD 22.4 million) to UGX 111,979 million (USD 30 million). However, international organizations still account for 73% of the overall resources. Among Government, Ministries, Departments and Agencies (MDAs), 93% of the funds were utilised for the purchasing and distribution of family planning commodities. 

**EXTERNAL FINANCING**

Since FY 2010/2011, development partners contributions to THE estimated in the NHA has been above 40%, reaching UGX 2,402,766 million (USD 644.8 million) in FY 2015/16. However, between FY 2010/11 and 2015/16 the overall expenditure decreased in real terms. Specifically, external expenditure on reproductive health decreased from UGX 207,821 million (USD 55.8 million) to UGX 170,752 million (USD 45.8 million) between FY 2010/11 and FY 2015/16.

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The analysis of OECD’s Creditor Reporting System data with the Muskoka2 algorithm estimates that total RMNCH (which includes those health areas reflected in the NHA but also includes child health, HIV and sexual health funding, and a share of funding from other areas that are felt to benefit RMNCH such as health system strengthening, water and sanitation and humanitarian aid) disbursements amounted to USD 285 million in 2011 increasing to USD 461 million in 2016 and then declined by 3%, reaching USD 446 million in 2018. This was reduction primarily driven by the reduction in funds from GAVI, the Global Fund and the United Kingdom, which respectively diminished by 45%, 22% and 45%.

Over the full time period 2009 and 2018, the United States (USA), the Global Fund and GAVI represented the biggest donors, however, the pattern of funding has varied over time. Funds from the USA grew from 52% to 57% over this period and those from the global health initiatives increased from 11% to 27%. (Figure 26) In 2018 alone, they respectively provided 2018 USD 256 million (US), 86 million (Global Fund) and 36 million (GAVI), corresponding to 57%, 19% and 8% of the overall external financing. The World Bank GFF do not report to the OECD’s CRS, so we are unable to report on funding allocations to Uganda. However, World Bank (IDA and IDRB) project funding is reported on the Ministry of Health Budget Framework Paper (BFP).

Figure 26: Aid for RMNCH by donor

Source: Author’s calculations from

In proportional terms, funding remained roughly stable across child, maternal and new-born, reproductive health and other categories. The largest increase in proportional terms between 2009 and 2018 was observed for maternal and new-born health, as external financing increased by 90%, from USD 26 million to USD 53 million. However, this represents only on average only 9% of total RMNCH funding over the time period considered. Between 2016 and 2018, a decline in external financing for RMNCH from USD 575 to 545 million was observed. Whilst external financing for child health and maternal and neonatal health decreased by 16% and 15% during this period, aid for reproductive health increased by 9%.

Figure 27: External Financing by area

Over the period 2009-2018, funding for maternal and neonatal health per birth was far lower compared to per capita funding reproductive health per woman in reproductive age and for child health per child, roughly 30% and 25% of the annual funding respectively. Specifically, external financing for reproductive health (defined here as family planning, sexual health, and sexually transmitted infections, including HIV) has stagnated at USD 25 per woman aged 15-49, aid for maternal and new-born health increased in 2012 and subsequently stagnated at around USD 6 and donor assistance for child health has generally remained at around USD 18 per child under five since 2014.

Source: Author’s calculations from resources tracking for immunization expenditure


External financing can be delivered as project grants or through government in the form of general budget support or basket funding, with the latter pooled funding modalities being preferred from an aid effectiveness perspective as it gives greater government control over funds and reduces transaction costs. External funding delivered as general budget support has decreased over time, declining from 6.9% to 0%. This can be explained in relation to the progressive reduction of on budget support, and the progressive minor reliance on the Poverty Action Fund (PAF), an initiative introduced in 1998 to channel resources for priority programs with direct poverty benefits. Most donor funding has been instead delivered as project grants, which represented 78% of funding modality on average over the period 2009-2018. As of 2018, 85% of the funding was disbursed as project-funding, 8% for specific purpose programmes and funds and 2% in the form of technical assistance.

From an aid effectiveness perspective, funding channelled through the government is preferable is it gives greater control over resources and reduces the risk of duplication / fragmentation of funding. Between 2009 and 2018, the amount of funding channelled through the central government has decreased from 60% to 44%. Instead funding has been channelled increasingly through donors, international organisations and NGOs increasing from 15% to 30%. Specifically, throughout the period, virtually no funding was channelled through local governments and as of 2010 the proportion of funding channelled through public sector institutions dropped from 57% to 15% and subsequently to 0% in 2013 (data not shown). Since 2014, the proportion of funding channelled through the central government increased progressively, and ultimately reached 42% in 2018. As of 2016, funding has also been channelled through the private sector.
While total external financing of RMNCH has not significantly fluctuated overall, volatility has been high within specific RMNCH priorities (Figure 30). Funding to malaria from the Global Fund, demonstrates funding highs and lows every two years, which may correspond to bed net campaigns. US and UK funding is also quite variable over time (Figure 31). In the case of HIV funding (Figure 32), a big drop in US funding was observed in 2015 (a reduction of USD 56 million), though this was partially offset by an increase in Global Fund financing (an increase of USD 27 million) (7).

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Figure 30: Volatility in external financing of RMNCH for the leading donors

Source: Author’s calculations

Figure 31: Volatility in external financing for Malaria for the leading donors

Source: Author’s calculations


As part of the efforts to improve RMNCH related health outcomes, the Uganda Reproductive Health Voucher Project (URHVP) was introduced in 2015. A total of USD 17.3 million were made available for the project, disbursed in the form of a USD 13.3 million grant from the World Bank and SIDA, USD 3 million from the Ministry of Health as well as additions from UNFPA. The initiative aimed at providing 132,400 pregnant women access to a defined package for safe delivery services from contracted providers and build national capacity to mainstream and scale up implementation of safe delivery voucher schemes. Beneficiaries were identified using a Poverty Grading Tool which gathered information on access to health services, water, land, shelter, livestock, sanitation, as well as the nutritional intake and home utensils. Districts in the Southwest region were selected to follow on a pilot project, whereas those in the Eastern region were selected basing on maternal mortality outcomes, poverty rates and facility-based delivery levels. Vouchers were produced and distributed using a patient level database. Although 71% of the vouchers were distributed and redeemed during the project duration, only 32% of the mothers were classified as poor. This is due to a combination of design weaknesses and implementation failures, namely due to the poor geographic targeting approach taken and poor or delayed payments which significantly affected quality.


The initiative is a form of Public Private Partnership (PPP) targeting poor women failing to access sexual and reproductive health services. The project was implemented between October 2014 and December 2019 in the Southwest and Eastern regions of the country.
In 2017 the Ministry of Health signed with the World Bank the Uganda Reproductive Maternal and Child Health Services Improvement Project (URMCHIP). A recent analysis of the results-based financing (RBF) outputs indicates performance has improved across most of the incentivised indicators based on routine data. For example, DHIS2 data indicate that between FY 2015/16 and 2019/20 pregnant women receiving the 1st Antenatal care within the first trimester has increased from 19.1% to 26.1%, and the percentage of women receiving pregnant women receiving IPT2 raised from 53% to 81%. However, DHIS data cannot be reliably used to measure the effect of RBF, as there can be an incentive for providers to over-report to maximise RBF payments. Despite these achievements, an increase in maternal deaths was registered, especially between March and June 2020 a period corresponding to the COVID-19 lockdown, which significantly restricted movements. 

DOMESTIC FINANCING

The Ugandan Government budget formulation does not allow for the identification of the amount of resources channelled to RMNCH, although the provision of RMNCH commodities is one of the outputs under the National Medical Store (NMS). Therefore, this section of the report will analyse broader health care expenditure including budgets to local governments under the primary healthcare grant, which provides the resources to district health offices, health centres II, III and IV and district hospitals.

In 2018/19, a needs-based resource allocation formula was introduced to determine the size of the non-wage recurrent grant (NWR) and conditional development transfers to districts. The indicators and relative weight of the indicators in the formula have been revised multiple times. In FY 2020/21, the allocation criteria for the NWR component of the district level grant consisted of population (60%), poverty headcount (20%), infant mortality rate (10%) and population in hard to reach and stay areas (10%). The same indicators were used for the hospital NWR allocation based on the geographic areas covered. Conditional development transfers are instead determined by looking at the number of existing public HC II, III, IV and hospitals (50%) population per public or private-not for profit HC III, IV and hospitals (50%).

The project is structured in three components:

1. Results based financing which has been currently rolled out in 131 districts;
2. Strengthening Health Systems to Deliver RMNCAH Services which comprises of a set of interventions aimed at improving human resource management, improving availability of essential drugs and supplies, improving availability and functionality of medical equipment in health facilities, improving health infrastructure of PHC health facilities and improving quality of care and supervision;
3. Strengthening Civil Registration and Vital Statistics which ultimately aims to develop a Birth Death and Adoption Order Registration (BDAR) solution.
Between FY 2015/16 and 2018/19 there has been an increase in overall domestic financing for health in real terms from UGX 903,560 million (USD 242.4 million) to 1,159,900 million (USD 311.2 million), corresponding to a per capita increase from UGX 25,451 (USD 6.83) to UGX 30,394 (USD 8.15). The largest proportional increase was made in the development grant, which augmented by 126%, rising from UGX 82,654 million (USD 21.6 million) to UGX 187,248 million (USD 50.2 million). (Figure 33)

**Figure 33: Budget outturns by vote**

In the health sector, the local government grant accounts for the largest share of the expenditures, reaching 79.18% in FY 2018/19. (13–17)

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18 The budget is structured in votes. These include the Ministry of Health, the Uganda AIDS Commission, the Uganda Cancer Institute, the National Medical Stores, Kampala Capital City Authority, the Health Services Commission, the Uganda Blood Transfusion Services, Mulago Hospital Complex, Bubika Hospital, Arua Referral Hospital, Fort Portal Referral Hospital, Gulu Referral Hospital, Hoima Referral Hospital, Jinja Referral Hospital, Kabale Referral Hospital, Mabale Referral Hospital, Soroti Referral Hospital, Lira Referral Estimates, Mbarara Referral Hospital, Mubende Referral Hospital, Moroto Referral Hospital, Naguru Referral Hospital, the Uganda Virus Research Institute and Local Governments. Budget allocations are made through three grants: the development grant to aimed maintaining infrastructure and upgrading health facilities, the non-wage recurrent grant to the operating expenditures of health centres, district hospitals and district health offices, and finally the wage grant for staff salaries.

The analysis of local governments’ indicative planning figures (IPFs) for between FY 2016/17 and 2020/21 indicates that a sharp budget increase was registered in FY 2018/19. This was associated with the start of the World Bank funded Uganda Intergovernmental Fiscal Transfer (UgIFT) project, an initiative aimed at improving the adequacy and equity of fiscal transfers to the districts for health and education services.

The sub-regional analysis indicates the largest per capita amount was allocated to Bugisu sub-region since FY 2017/18, and this was over twice as large as the per capita allocation to South Buganda, which was allocated the smallest amount. In absolute terms, between FY 2016/17 and 2020/21 North and South Buganda sub-regions were budgeted the largest amounts whereas Karamoja the smallest.

![Figure 34: Sub-regional per capita allocations FY 2020/21](source: Author’s calculations)

When considering domestic financing levels at district level by GFF phase, we can see an increase in overall and per capita allocations for districts across all phases over time. Districts in phases 1-3, had the sharpest increase in overall and per capita allocations between 2016-2018, with the rate of increase reducing in the last 2 years. Whilst in absolute terms GFF phase 4 districts received the smallest domestic budget between FY 2016/17 and 2020/21, and those in phase 3 the largest. GFF Phase 1 districts received the smallest per capita domestic allocations throughout the period of analysis. GFF Phase 2 districts received the highest domestic per capita budget until FY 2018/19 when GFF Phase 4 started to receive the highest per capita budget.
When examining the domestic financing allocations by district according to measures of district wealth (GDP), the allocations are found to fairly equal across districts and only marginally pro-poor overall (concentration index = -0.05; concentration curve is very close to the 45 degree line), with little variation over time. The concentration index is not statistically significantly different from 0 (or an equal distribution). When considering the different types of expenditure, non-wage expenditure became more pro-poor in 2020/2021 compare to 2016/2017 (with CI changing from -0.01 to -0.05, and being significantly pro poor in 2020). There was no change in wage and development spending over time, and these were generally equally distributed across districts.
Figure 36: Lorenz and Concentration curves for health expenditure per capita 2016/17 and 2020/21.

Source: Author’s calculations

Stakeholder commitments and institutional arrangements

Several stakeholders committed to the implementation of the IC. A narrative of progress on stakeholders’ commitments for the year 2018/19 showed that development partners, Civil society & IPs, professional bodies and media were generally on track; whereas limited or no progress had been made by district local governments, young people, the private sector and interreligions council of Uganda (Strategic shift 5).

With regard to young people, there’s increasing disaggregation of data for adolescents; peer-to-peer approach for advocacy and stakeholder engagement in advancing needs of youths and adolescents have been scaled-up. On the other hand, use of innovations and technologies for awareness creation on RMNCAH like social media;

- While MoH has capable MCH and HMIS teams, it is spread thin in terms of human resource capacity; and this constraint is also reflected at the sub-national level. So, there are limits to what can be accomplished within the constraints of that operational space. Documenting and reporting gaps, as well as limited analytical rigour in M&E systems have been noted and also reported by the participants of this endline review – basic data analysis is what normally undertaken (say for example in determining priority areas), and this is what is used to make decisions of a national magnitude. Leadership information sharing challenges were also major themes coming out of the data. Domestic resource investment in this and other shifts will also need to be more evident in the next phase.
inclusion of all vulnerable and marginalized adolescents and youths like PWDs (equality); youth servicing and youth-led organizations partnerships and availability/access to comprehensive youth friendly services are in need of accelerated performance. Also, of concern are areas where progress is stagnant including; approval of selected "youth-related" policies, review of 2016 adolescent health roadmap, and research capacity building for adolescents and youths.

Existing mechanisms and coordinating platforms were active with strong partner membership on related committees at national and sub-national level.

*I think the MCH Technical Working Group is the most active platform in whole ministry [of health]. I can’t even tell you how many meetings it holds; but they are many, they are consistent and they discuss critical issues. Partners are represented and many of them form sub-groups on other committees*

(National level participant #9)

*In the period of this plan we have seen a very good attempt at doing coordination, in fact I think more than ever we have different coordination platforms at national level in the form of technical working groups and committees that try to ensure that all partners, starting with the ones that are represented nationally are servicing this same agenda. I think it has worked very well in MCH technical working group which is the mother group that looks at the entire continuum*

(National level participant #11)

Annual assemblies have been held at national level consistently but still weak at regional and district levels. Supporting these was the scorecard to boost data analysis capacity at district levels which was monitored by the RMNCAH M&E desk to boost quarterly reviews given the results presented in the performance evaluation report for 2017/18.

The third annual national assembly on RMNCAH was held in August 2019, aimed at strengthening coordination and accountability for effective and efficient implementation of RMNCAH policies and program interventions at the national, regional, district and community levels. Areas of action arising included: establishing adolescent responsive services at both facility and community level in liaison with other relevant players such as Civil Society Organizations (CSOs) and schools; as well as strengthening male involvement programs for RMNCAH, HIV and gender-based violence. In addition, a call for increased and optimized use of health-sector financing was made; with a focus on government funding, national health insurance scheme and RBF. In the same spirit, government and donors were also implored to increase domestic resources for RMNCAH interventions and use the nationally agreed mechanisms for accountability and tracking of results of the investment case for RMNCAH.
In the early phases of the IC, a CSO enhanced engagement strategy was developed to facilitate meaningful participation of CSOs in the various stages of the IC implementation. The strategy defines roles and outlines processes and principles for engagement. Several CSO meetings (both national and international/regional) have been held during the implementation period of the IC, broadly discussing engagement, IC status, clarifying roles and responsibilities among other emerging issues. Some of the issues arising from these meetings include: lack of access to information which hampers CSO performance; and need for private sector engagement to enhance implementation (GFF CSO meeting report).

The World Vision’s report on tracking integration of GFF funds into the health budget framework included a component on CSOs participation in implementation of RMNCAH (Ojulong and Senfuka, 2019). According to this report, CSOs notably participated in the conceptualization of the IC, with some making financial commitments. The report describes several existing platforms for CSOs engagement but notes low awareness of CSOs about such platforms especially at district-level. This, coupled with lack of evidence and independent accountability monitoring from CSOs, has undermined the effectiveness of the platforms. The report further highlights limited access to relevant information and weak information exchange among CSOs, which affect meaningful participation. Other challenges include; weak capacity in advocacy and systematic accountability/monitoring for RMNCAH services; weak coordination and low levels of ownership of the coalition; and lack of an operational plan for the national engagement strategy.

The 2018 report on CSO accountability scorecard by World Vision found 65% participation rate of CSOs in RMNCAH services at national level. Good participation was reported in decision making (through various TWGs), programming and implementation, and capacity building at community. Participation was particularly poor in the area of monitoring, evaluation and accountability (33%), as well as resource tracking (44%). According to the report, through CSO advocacy, the budget for RH items under vote 116 increased to UGX 16bn in 2018/19 from UGX 8bn in 2017/18. There was good (75%) participation in forums for routine data and report sharing among RMNCAH stakeholders but low involvement in capacity building of community groups, health systems strengthening and post-abortion and sepsis management. At the local level, there were disparities in participation across the three districts studied whereby, CSO participation was particularly low in Mityana at 55% and high in Hoima at 78%.

Like the multisectoral approach, this shift on mutual accountability and strengthening data systems for improved RMNCAH currently has endless opportunities to draw from. There is a strong and consistent move, within MoH and her partners, towards implementation being led by data. Some progress has been registered in the first IC/SP implementation phase, although it has been largely foundational.
Table 7: Birth and civil registration indicators

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Target</th>
<th>Achievements</th>
</tr>
</thead>
<tbody>
<tr>
<td>All planned quality RMNCAH performance reports produced, debated and used to strengthen RMNCAH resources allocation</td>
<td>All</td>
<td>Data?</td>
</tr>
<tr>
<td>Proportion of commitments met on schedule by each partner (includes private sector and civil society)</td>
<td>Increase to &gt;75%</td>
<td>??</td>
</tr>
<tr>
<td>Proportion of resources allocated and spent based on previously made commitments and goals</td>
<td>Increase to &gt;75%</td>
<td>??</td>
</tr>
<tr>
<td>Children under 5 years are registered and issued Birth Certificates by 2020</td>
<td>90%</td>
<td>76.4% according to NIRA / NBS</td>
</tr>
<tr>
<td>Births registered within 30 days of occurrence by 2020</td>
<td>80%</td>
<td>12%</td>
</tr>
<tr>
<td>Deaths in a given year are continuously reported, registered and certified with key characteristics by 2020</td>
<td>50%</td>
<td>??</td>
</tr>
<tr>
<td>Maternal and perinatal deaths in hospitals and HC IVs notified, assigned cause of death, ICD Code and registered by 2020</td>
<td>100%</td>
<td>??</td>
</tr>
<tr>
<td>Deaths in hospitals have causes of death reliably determined, ICD coded and registered by 2020</td>
<td>100%</td>
<td>??</td>
</tr>
<tr>
<td>Deaths in communities have probable cause of death determined, coded and registered by 2020</td>
<td>50%</td>
<td>??</td>
</tr>
<tr>
<td>Percentage of health facilities conducting maternal and perinatal deaths reviews and response</td>
<td>??</td>
<td>51% is conducting maternal death reviews; 4% perinatal death reviews.</td>
</tr>
</tbody>
</table>

Note: ?? – data was not available
FACILITATORS AND BARRIERS FOR THE SHARPENED PLAN IMPLEMENTATION

- Significant quality improvement and improving access to RMNCAH services under was reported as a direct result of RBF. In the 2016/17-2019-20 implementation period RBF strongly leaned towards scaling up training and skills development while other investments supported by functionalising maternity units. Significant and instant RMNCAH progress was registered where these two initiatives intersected, unlike in places where RBF operated without corresponding effort on the Health System Strengthening (HSS) side. This proven success is one which needs to be consolidated and rolled over into the next phase.

- The critical role of ADHOs as RMNCAH stewards and champions cannot be overemphasized. Existing governance arrangements to have nurse/midwives as ADHOs is a significant step in the right direction; however, it has not been optimally leveraged to improve RMNCAH strategy, processes, activities and outcomes. Nearly all ADHOs also reported skill deficiencies in strategic planning and management; as well as meaningful engagement with policy. They therefore continue to operate with a frontline service delivery mentality. This design flaw can be corrected in the next implementation phase and ADHOs, alongside other RMNCAH champions, can be empowered to effectively perform their roles. However, addressing this gap will need to go beyond training or capacity building to meaningful engagement and opening up of restricted power centers or professional-structural spaces. It will also call for resource alignment and addressing prevailing health system constraints.

- The approach to policy dialogues, sensitization and visibility will need to be revisited. This is even more important now with the findings with this end-line review also showing the need to bridge the demand-supply side continuum of healthcare. More neutral and including demand side actors will need to be held accountable as they are also supported to promote social accountability that is supportive of initiatives on the supply side. For example, instead of exclusively contracting an implementing partner, health consumer agencies could be supported alongside to publicize the next IC/SP while also promoting the message of health-supportive social accountability. Rigorous continuous IC monitoring and engagement is necessary.

- Variations in district capacity have provided room for some civil society actors to “positively exploit” this leadership vacuum and implement activities without much but without much measurable success or clear contribution to government priorities. This is against the backdrop of worsened by fragile monitoring and support systems at the centre. District capacity needs to be strengthened to lead multiple RMNCAH stakeholders. Integration and linking, partner resource and activity tracking are critical in assessing progress.
Overall, the RBF program was critical to implementation of the IC/SP as it availed the resources, also putting in place motivation and mechanisms for improved performance.

RBF was a real gamechanger. It is kind of rewarding service providers for their services... the facilities became innovative in terms of how to attract clients for services and improvement in respectful maternity care was there.... in some of facilities they were offering hot water for mothers to bathe, giving soap to a mother and also receiving sheets for the babies, they were also places where they had TVs in the waiting room. Then also the money that the facilities were receiving ... if staff are motivated definitely they are going to improve in terms of attitudes and things like slapping women in maternity wards will reduce

(National Level participant #18)

At the national level, the IC was critical to determining RMNCAH priorities and alignment of partners. It was truly a participatory national-led initiative which created a sense of unity and secured stakeholder commitment on improving RMNCAH outcomes.

Investment areas were prioritized and everyone knew where Uganda was headed on RMNCAH issues...Each partner just had to think of how they can contribute to those priorities, and it was a good thing...everyone was on the same page.

(Development Partner #1)

However, this collective understanding and agreement on the IC at the centre was not found at the sub-national level, especially at the Second-Tier level of health leadership. While Districts Health Officers (DHOs) were knowledgeable, involved and supportive of the IC/SP linkages; their assistants, the ADHOs, were found to be grossly lacking in understanding and appreciation because of limited or no direct interface with the IC.

I have never heard of that word [Investment Case]. What is it? However, as a midwife I will just have to talk about some of the services we offer.

(ADHO #7)

I do not have much information about the Investment Case. However, I acknowledge that it must have been implemented at the district and extended to the facility as part of RMNCAH activities. What I know for sure is that we have witnessed new changes with how things are done in the area of maternal and child health

(MS, District Hospital #2)

The work of dissemination [of the Investment Case] was contracted out to one of the partners. Reports show that they [contracted partner] visited all districts

(National level participant #8)
While there was understanding and support for the Investment Case among national level actors, their diversity in capacity, commitment and focus areas needed a robust system for tracking and coordination. In addition, the lack of a standardised framework for implementation of the IC was a key barrier to achieving this.

They [MoH] tried to do a very good job with getting everyone on board with formulating the Investment Case and costing the [Sharpened] Plan. The only thing that was lacking was identifying the more practical steps ... what could have been in the implementation guidelines to really identify what the critical practical things that we were supposed to do on the ground... It [IC] was not really clear, it was very good in terms of the strategic planning and thinking but in terms of practical guidance on what we were going to touch during the next 3-5 years to move things forward was missing. So every IP has just been doing their own things and reporting when it ties in with what they want

(National level participant #15)

The guidance is clear and I think that the requirement that is part of implementation of a standardized approach across the country so that we have strengthened coordination.

(National level participant #6)

Coordination and reporting structures for the various implementing partners were reported as a key bottleneck. For example, some districts reported the difficulty in providing oversight to IPs with already established partnerships at the central level:

Before MOH engages in into partnerships with NGOs, there is need to find out and harmonise the actual problems faced by the service providers and users as well as the district administration so that the right programmes are rolled out. This will help in easy coordination.

(District level participant, 9)

This includes refugee hosting districts which do not have direct oversight over interventions in settlements. However, there was a variation in district oversight for implementation in their areas; which was reported to be grounded in lack of leadership at sub-national or supervision from the national level:

The things the districts say that “those NGOs come here with their own agenda”, where they are accused of having their own bulldozing agenda but it because in districts where the DHT is strong, they will plan or demand with NGOs on where to invest in maternal and child health. But where you find them [districts] not having any plan you also implement your activities – at least the local communities will benefit. CSOs might be there operating without so much restriction but government also has to wake up; you can’t talk of government priorities without government oversight

(District level participant # 14)
However, overall coordination remains a gap which is already acknowledged. It needs to be improved where gaps are identified and consolidated where strengths exist as seen in the excerpts below:

I think that at times coordination at national level has been good. It involved a lot of learning... initially the MCH technical working group was a large group with a lot of walk-in partners who are not regular, who come in once in a while to present something they might have done and we realized that it became a fairly un-strategic group because if every time you are talking about new things or not necessarily having a clear agenda and tracking specific issues that are important for us to monitor service delivery. Then the group was becoming fairly ineffective and so Ministry of Health had agreed that this group would become an invitation-only focusing on the key partners. But then would have the sub-committees ... and partners supporting these areas could join any of the sub-committee... and contributions could move upwards to the MCHTWG. If you have attended it [MCHTWG] lately, you will see the kind of structure now - with a clear agenda and with the updates and key issues arising from different sub-committees

(National level participant #4)

I think there has been an attempt. I can't really say it [coordinating partners better] has not worked, I can say that it is working in progress, it is an area that needs to be strengthened what happens in the district level coordination. And more importantly how does information from the district level coordination platforms get escalated for the issues that need to be escalated including the issue of partner mapping

(District level participant #46)
CONCLUSIONS

Uganda made steady progress during the implementation period of the investment case on several key indicators of the RMNCAH continuum of care, but most did not reach the set targets. However, the progress is too slow to reach the ambitious targets of the Sharpened Plan and the investment case. A main contributor to this slow progress was that there was delayed and limited implementation of the Sharpened Plan and the investment case, which was occasioned by challenges of managing the "shifts" model in the public sector. By 2019, there was no evidence that the targeting of high population districts accelerated the trends in those districts, which would be expected on the timing of implementation in districts. The main cause for this was limited implementation despite the availability of additional resources from the GFF framework and government. Implementation was hindered by challenges in sorting out implementation arrangements at the centre (vertical approach) with a limited subnational coordination and management mechanisms. Overall, we consider the IC implementation period of 2016/17-2019/20 was a learning and foundational phase, whose lessons should be used to inform the next phase. Systems have been put in place, partnerships explored, gaps or bottlenecks identified, and some progress registered. Amongst many priorities to be addressed, we highlight the following as critical going forward: 1) Strengthening management at all level including partnership coordination at all levels in order to ensure system efficiency; 2) Managing a multisectoral approach to implementation; 3) Improving community health systems; 4) Addressing adolescent sexual and RH, and fertility in general; 5) Improving quality of care with a special focus on basic and emergency MNCH care; 6) A special focus on malaria and malnutrition as they are critical determinants of most outcomes; 7) strengthening the capacity of districts to plan, manage and implement perhaps through a regionalised approach; 8) in view of COVID-19 pandemic, innovative mechanisms for implementation to ensure continuity of services; and 9) strengthening accountability mechanisms, use of data and evidence.
RECOMMENDATIONS

E) M&E recommendations

1. The IC impact indicators are limited to “survival”, except for adolescent fertility; the survival and thrive pathway or mechanism is not well addressed. A new IC theory of change with a clear M&E framework that shows the survival pathways by including the “thrive” and “transform” child health (0 – 19 years) indicators should be considered.

2. The use of indicators for the four main outputs of the investment case / sharpened plan with 29 indicators and an M&E framework with 81 indicators (in total too many indicators), with some overlap between the two sets, is confusing and should be streamlined.

3. There are too many indicators in the M&E framework (overall > 100) especially for health systems, of which many could not be measured accurately. The new framework should limit itself to less than 50 indicators and still be able to address the strategic priorities. In addition, mechanisms need to be put in place to develop and operationalize routine collection of measurable health systems indicators.

4. Apart from an emphasis on district disaggregation (the priority groups), equity is not well represented in the M&E framework. There should be some equity-specific indicators with targets as equity is a cornerstone of UHC.

5. It is worthwhile to consider the use of indexes to capture progress in specific areas or overall, in a summative manner, which should help communication of results while maintaining clarity and transparency especially when comparing the overall district or regional performances.

6. Systematic documentation and sharing of documents and data needs improvement to facilitate rapid and transparent assessments of progress and performance and use of data for action. Investment is needed to ensure such a coordinated mechanism is available from the beginning and throughout implementation.

7. Regular inclusive review of progress and performance, informed by analytical reports, were not held as planned, and should become a critical instrument to improve implementation and maximize engagement of all stakeholders. One possible and important mechanism to complement this is having implementation research to be embedded in program implementation. In addition, a comprehensive endline evaluation should be part of the inclusive review of program performance.

8. The RMNCAH investment case / Sharpened Plan did not consider sufficiently how its district focused monitoring could be linked to or benefit from the successful and institutionalised Ministry of Health overall system of monitoring with District League tables. We strongly recommend that the two be linked.
F) Policy, Governance and leadership recommendations


10. Urgently finalise the Adolescent Sexual and Reproductive Health Policy and Strategy: Adolescent pregnancy and related issues remain one of Uganda’s critical determinants of reproductive health and other outcomes, including the human development capital. The review found that adolescent pregnancy has stagnated or is increasing (one in five pregnant women). Uganda should urgently finalise and operationalize this policy, taking a strong multi-sectorial approach.

11. Finalise the Community Health Systems (CHS) policy and strategy: The review found that uptake of many evidence-based interventions was below the set targets, mainly because current interventions are mainly supply-side or have a weak demand-side component. The widespread disruptions of services during the COVID-19 pandemic has even made this worse. Uganda should therefore urgently finalise and operationalize its CHS policy and strategy. Such a strategy should be grounded in strong community involvement, mobilisation of community owned resources, enhancing community accountability, and linkage to facility care.

12. Enhance the multi-sectorial approach to implementation: Many determinants of the performance of the health sector are in other sectors (e.g. Adolescent health, early child development and nutrition, control of diarrheal diseases, and injuries and substance abuse). Uganda should therefore further streamline and strengthen the multi-sectorial approach to implementation.

13. Use an enhanced Regional Approach to coordination, planning and implementation in order to improve efficiency in the health system: The review found a lot of missed opportunities for improved performance in the health sector. For instance many evidence-based interventions that are already policy, programme and are routine did not achieve the set targets (e.g immunisation). Challenges included limited financing, human resources and support supervision to districts and lower level facilities and communities because of expansion of the number of districts, cities and municipalities.

14. Develop an urban health policy and strategy: Uganda is rapidly urbanising and many independent urban authorities have been created recently yet the health delivery issues have not been adequately addressed. As a result, many indicators in urban areas have worsened. An Urban Health Policy and Strategy should urgently be developed and operationalized.

15. Enhance mechanisms for partner coordination, management and accountability: The MoH and partners should work to strengthen national and subnational RMNCAH/N networks to accelerate capacity for joint action. In order to do so, there must be a transparent framework for partner coordination, participation, contribution, and accountability. More
functional partner networks will generate organizational commitments to shared network goals and accelerate the capacity for strong, equity-based RMNCAH/N programming in the country.

16. **Adopt a policy of embedding implementation research (IR) into all routine programming in order to facilitate scale up of effective and scalable programs:** Given the complexity of health care and the need for rapid scale-up, the government and partners should ensure that program implementation is informed by evidence including IR as its iterative nature will aid development of successful models for wider district, regional and national-level scale-up. The need for IR is even more urgent now during this COVID-19 pandemic as new models of services delivery to ensure services continuity are needed. It could also lead to improved dialogue and action between academic, policy, and budgetary realms that capitalize on Uganda’s own existing expertise.

**G) Financing Related recommendations**

In line with the spirit of the GFF supported investment case, financing for RMNCAH/N needs to be streamlined as follows:

- Funding from partners should align with the government’s planning and budgeting cycles and priorities. These partners also need to be accountable and regularly reporting to the MoH.
- Improve the timely availability of granular data on RMNCAH/N expenditure, with a focus on district level expenditures;
- Track off-budgeting financing, analysing trends by area, channel and its volatility;
- Conduct rigorous evaluations of major donor funded projects;
- Regularly assess the impact of the resources allocation formula on horizontal equity and revise it as needed.

**H) Program implementation recommendations**

9. **Popularise the Investment Case/Sharpened Plan (IC/SP) among implementers at all levels:**

The review found that there was limited understanding of the IC/SP at district level including among Assistant DHOs in charge of RMCAH/N. The next IC/SP should be developed and implemented with broad participation of implementers and beneficiaries, and after that, it should be extensively disseminated.

10. **Build the capacity of implementers in the new way of doing business (“the strategic shifts”) that is the building block of the IC/SP:** Besides not generally being well informed about the IC/SP, many district staff other than the DHO lack adequate management skills to implement the IC/SP. Therefore, like it was done with DHOs and MOs who manage Health Sub-Districts, efforts should be made to build the planning and management capacity of Assistant DHOs in charge of RMCAH/N as they are the pillars for implementation.
11. In order to advance the UHC and SDG national agenda, Uganda must strengthen access, coverage and quality of clinical services including basic and emergency maternal, newborn, child and obstetric services. The current low under five mortality yet high maternal and neonatal deaths calls for a good PHC system with an integrated high quality clinical and referral system. Options here include decongesting hospitals by strengthening lower level health units and preventive services so that hospitals deal mainly with acute and referred cases.

12. Consolidate and leverage listed gains such as the IC-driven cohesion and clarity among IPs. Notable achievements with potentially important contribution to positive RMNCAH+N outcomes such as the CVRS systems will also need to be intentionally nurtured and provided with space to both challenge and contribute.

13. Develop and widely disseminate a standardized implementation framework for the next Sharpened Plan. The framework needs to be very clear on scope of work and depth of coverage. Alongside it there will be need for ongoing monitoring and tracking both partners and their progress. Harmonization across interventions, geographies and other scope will be a critical ingredient necessary for successful implementation. IP reporting and accountability, including on their constraints and limitations, will have a large bearing on IC/SP success.

14. Revisit the approach to policy dialogues, sensitisation and visibility, especially in light of the need to bridge the demand-supply side continuum of healthcare. More neutral, and including demand side, actors will need to be held accountable as they are also supported to promote social accountability that is supportive of initiatives on the supply side. For example, instead of exclusively contracting an implementing partner, health consumer agencies could be supported alongside to publicize the next IC/SP while also promoting the message of health-supportive social accountability. Rigorous continuous IC monitoring and engagement is necessary.

15. Prioritize health system strengthening (HSS) to consolidate gains from other health sector boosts. Ensure resources, time and action alignment for wider coverage and higher impact. Addressing long-standing and well-known health system bottlenecks will go a long way in supporting this; for example, through addressing delays in financing or space issues at health facilities. Ensure that HSS initiatives such as infrastructural developments align with drivers of quality improvement such as RBF to consolidate any registered gains.

16. There is need to innovatively leverage existing and upcoming windows of opportunity for RMNCAH+N gain. For example while Covid-19, NDP and other multisectoral platforms contributing to national development, and the recently (October 2020) launched Community Health Strategy. In addition, due to the recently elected Local Council 1 and IIIs, and now the forthcoming national elections, Uganda will have thousands of new leaders’ right from the community to national level. These need to be brought on board to support and ensure accountability for RMNCAH+N.
### APPENDICES

#### M&E framework – health system strengthening

Health system data on infrastructure and human resources were obtained from human resources information system (HRIS) system for all districts. Financial data is to be obtained from district budgets and other national and regional sources, including national health accounts data on expenditures. Most recent published NHA?

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Baseline</th>
<th>Performance @ Endline (2019)</th>
<th>Progress</th>
<th>Target</th>
<th>Data source / Feasibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health systems strengthening</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medicines &amp; commodities</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% Facilities in district reporting no stock outs of one or more RMNCAH</td>
<td>TBD</td>
<td>41%</td>
<td>80%</td>
<td></td>
<td>DHIS2, Mtrac?</td>
</tr>
<tr>
<td>lifesaving commodities</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% districts with district level pharmacy staff in place</td>
<td>TBD</td>
<td></td>
<td>100%</td>
<td></td>
<td>HRIS</td>
</tr>
<tr>
<td>Index of service readiness by district and for intervention package by</td>
<td>TBD</td>
<td></td>
<td>100%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>level</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% CHWs using Gentamicin and dispersible amoxicillin to manage Possible</td>
<td>TBD</td>
<td></td>
<td>100%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bacterial infection in newborns</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Health workforce</td>
<td></td>
<td></td>
<td>50%</td>
<td></td>
<td>HRIS</td>
</tr>
<tr>
<td>% Narrowing in midwives staffing (public + private) differences between</td>
<td>TBD</td>
<td></td>
<td>100%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>districts and within districts</td>
<td></td>
<td></td>
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<tr>
<td>Proportion of regional hospitals offering in-service reskilling that</td>
<td>TBD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>quarter</td>
<td></td>
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<tr>
<td>Health workers newly recruited at hard to reach PHC facilities in the past</td>
<td>TBD</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>12 months</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>% of hard to reach villages in district with CHEWs/VHTs recruited</td>
<td>TBD</td>
<td></td>
<td>60%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>% districts with health managers trained in health leadership and management</td>
<td>10%</td>
<td>100%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% narrowing in midwives staffing differences between districts</td>
<td>TBD</td>
<td>20%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% narrowing in midwives staffing differences between sub-districts</td>
<td>TBD</td>
<td>20%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% facilities reporting at least 20% reduction in absenteeism of health workers from last year</td>
<td>TBD</td>
<td>100%</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td><strong>Health information</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>% Districts with timely RMNCAH analytical quarterly and annual reports</td>
<td>0</td>
<td>100%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% National RMNCAH analytical quarterly and annual reports produced on time</td>
<td>0</td>
<td>100%</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>% Private sector outlets reporting in HMIS in district</td>
<td>TBD</td>
<td>80%</td>
<td></td>
<td></td>
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<tr>
<td><strong>Health financing</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% private sector providers included in results-based funding</td>
<td>0%</td>
<td>50%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Out-of-pocket expenditures on RMNCAH as % of total health expenditure</td>
<td>66%</td>
<td>42%</td>
<td>15%</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Governance</strong></td>
<td></td>
<td></td>
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<tr>
<td>Support supervision reports showing progress from previous action points</td>
<td>NA</td>
<td>100%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Annual RMNCAH Assembly held</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
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</tr>
<tr>
<td>% Districts with previously the highest mortality rates registering a 50% reduction in mortality (Can we quantify high)</td>
<td>0</td>
<td>90%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% sub-districts with previously the highest mortality rates registering a 50% reduction in mortality</td>
<td>0</td>
<td>90%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% facilities /VHTs with RMNCAH case management quality standards met</td>
<td>TBD</td>
<td>100%</td>
<td></td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Metric</th>
<th>Target</th>
<th>Actual</th>
<th>Achieved (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>% HSD with functioning referral monitoring system (referral Map, referral completion)</td>
<td>TBD</td>
<td></td>
<td>100%</td>
</tr>
<tr>
<td>% Sick newborns identified and referred by CHWs</td>
<td>TBD</td>
<td></td>
<td>100%</td>
</tr>
<tr>
<td>EMONC and other emergency services</td>
<td>TBD</td>
<td></td>
<td>100%</td>
</tr>
<tr>
<td>% deliveries in EmONC Facilities in district</td>
<td>TBD</td>
<td>10.5%</td>
<td>100%</td>
</tr>
<tr>
<td>% HC IVs in district performing cEmONC</td>
<td>TBD</td>
<td>47%</td>
<td>100%</td>
</tr>
<tr>
<td>% of facility births receive high-quality care</td>
<td>TBD</td>
<td></td>
<td>90%</td>
</tr>
<tr>
<td>% HC III in district performing bEmOC</td>
<td>TBD</td>
<td>0</td>
<td>100%</td>
</tr>
<tr>
<td>% sub-Counties with EmOC facilities</td>
<td>80%</td>
<td>16%</td>
<td>100%</td>
</tr>
<tr>
<td>% HSDs with Ambulances covering more than 50 kms per day (average of the last two quarters) (%)</td>
<td>TBD</td>
<td></td>
<td>100%</td>
</tr>
<tr>
<td>Direct obstetric case fatality rate; Intrapartum and very early neonatal death rate</td>
<td>TBD</td>
<td></td>
<td>&lt;1%</td>
</tr>
<tr>
<td>HSD with emergency transportation time to cEmONC less than 30 minutes</td>
<td>TBD</td>
<td></td>
<td>100%</td>
</tr>
<tr>
<td>% Pregnant women registered in the first trimester out of the total expected pregnancies (%)</td>
<td>TBD</td>
<td>20.2%</td>
<td>100%</td>
</tr>
<tr>
<td>Registered pregnant women who delivered at health facility (%)</td>
<td>TBD</td>
<td>65.2%</td>
<td>100%</td>
</tr>
<tr>
<td>% deliveries in community given Misoprostol</td>
<td>TBD</td>
<td></td>
<td>100%</td>
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<tr>
<td>CRVS</td>
<td></td>
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<tr>
<td>Development and Adoption of the National CRVS Strategy (including communication and M&amp;E Plans)</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>% Health facilities notifying all birth into the births registration system</td>
<td>?</td>
<td></td>
<td>100%</td>
</tr>
<tr>
<td></td>
<td>?</td>
<td></td>
<td>100%</td>
</tr>
<tr>
<td>----------------------------------------</td>
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<tr>
<td>% health facilities using ICD for death registration</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>% pilot/scale up districts using community-based verbal autopsy tool for cause-of-death notification</td>
<td>0</td>
<td></td>
<td>100%</td>
</tr>
<tr>
<td>% Registered births in a given year</td>
<td>60%</td>
<td>76.4%</td>
<td>90%</td>
</tr>
<tr>
<td>% Registered deaths in a given year</td>
<td></td>
<td>13%</td>
<td>60%</td>
</tr>
</tbody>
</table>