



Fighting for Breath in Mali

A CALL TO ACTION TO STOP CHILDREN DYING FROM PNEUMONIA

Biggest killer,¹ yet forgotten

Pneumonia is the world's leading infectious killer of children, claiming the lives of more than 800,000 children under the age of five every year, more than 2,000 every day.

It is a shocking demonstration of pervasive health inequities disproportionately affecting the most deprived and marginalised children in low- and middle-income countries. It represents a violation of children's right to survival and development, as enshrined in the UN Convention on the Rights of the Child. Yet pneumonia has been largely forgotten on global and national health agendas. We can and must change this.

It is possible to combat pneumonia

It is possible to deliver the necessary solutions to combat pneumonia to all children. It is possible through Universal Health Coverage (UHC) and equitable access to quality primary health care to prevent, diagnose and treat pneumonia. It is possible through better immunisation coverage to protect children from some of the leading causes of pneumonia. It is possible through good nutrition to help their bodies to fight off infections and respond to treatment, as well as to prevent underlying causes of pneumonia. It is possible through improved water, hygiene and sanitation, and reductions in air pollution to help address risk factors that can cause pneumonia. It is possible through ensuring access to integrated service delivery and life-saving low cost antibiotics at the community level and strengthening the availability and quality of referral level care, to combat pneumonia and save lives.

Poverty and inequality aid and abet pneumonia deaths

Progress to address the number of children dying from pneumonia isn't fast enough or fair enough. Global, regional, national averages mask huge inequalities in countries. It is the poorest children who are most at risk because of high rates of malnutrition, and lack of access to basic quality health services for vaccinations, and diagnosis and treatment of common childhood illnesses. As a result, the poorest children are almost twice as likely to die before their 5th birthday compared to the richest. Innovations that could save hundreds of thousands of lives each year are not reaching children with the greatest need.

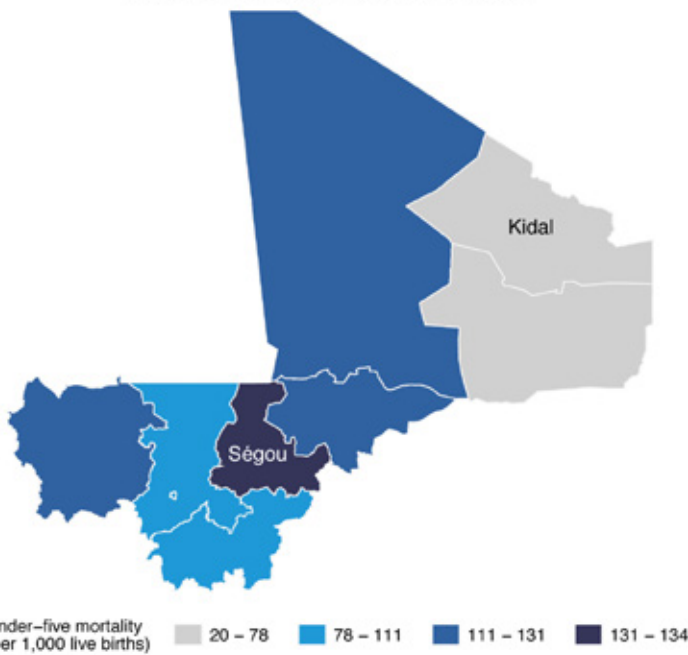
An unprecedented moment to push for action

The COVID-19 crisis is unlike any we have seen before. This pandemic is presenting the world with ever-evolving, unprecedented challenges, and has highlighted the need for building strong and accessible health systems offering free-at-point-of-use health services. The rapid responses from governments have demonstrated that when health is prioritised, it is possible to mobilise much needed resources to protect the health of all citizens. Universal health coverage can no longer be a point of debate. Strengthening health systems now to cope with COVID-19 will also improve services for the prevention, diagnosis and treatment of childhood pneumonia and have a lasting impact on child survival over the long term.

Now is the time to act. There are only ten years left to deliver on the Sustainable Development Goals (SDGs) - which require all countries to reduce child deaths to at least 25 per 1,000 live births - and only five years to achieve the Integrated Global Action Plan for the Prevention and Control of Pneumonia and Diarrhoea (GAPPD) pneumonia target - which requires all countries to reduce child pneumonia deaths to below 3 per 1,000 births. We need concerted action to improve policies, investment, innovations, and scale up of evidence-based interventions, if we are to leave no child behind and to save lives. Not only is combatting pneumonia possible, it is a must - a must for every child to be able to fulfil their right to survive and thrive.

Mali spotlight

Regional inequalities in child mortality in Mali



Data: DHS 2018

UNDER-FIVE MORTALITY²

GLOBAL TARGET

At least as low as

25 per 1000 live births is the SDG target rate for under five mortality by 2030.

MALI STATUS

98 per 1000 live births, under-five mortality rate in 2018.

Inequality, poverty and lack of access to health services contributes to

143 deaths per 1000 live births among the poorest households compared with just

57 deaths per 1000 live births amongst the richest households in 2018.

In Ségou Region where the mortality rate is

134 per 1000 live births, children are **7 times** more likely to die before the age of five than children in Kidal Region where the mortality rate is just

20 per 1000 live births in 2018.

HIGHEST RISK FACTORS FOR CHILD PNEUMONIA DEATHS IN MALI, 2017³

60%

caused by child wasting

47%

caused by indoor air pollution from solid fuels

15%

caused by no access to hand washing facility

PNEUMONIA RELATED UNDER-FIVE MORTALITY⁴

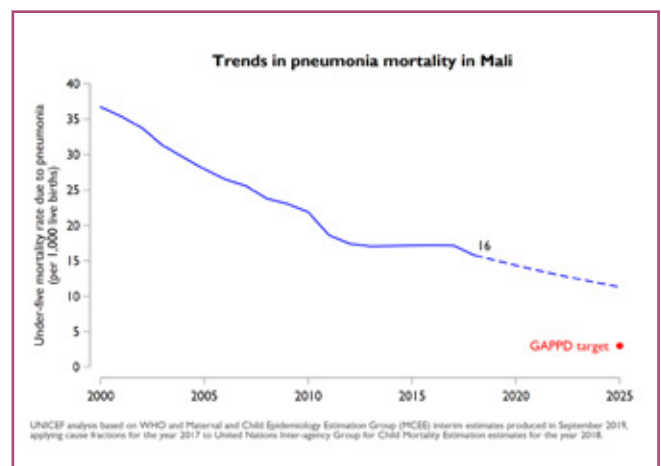
GLOBAL TARGET

3 per 1000 live births is the target pneumonia mortality rate for under-fives by 2025, as envisaged under the Global Action Plan for Pneumonia and Diarrhoea (GAPPD).

MALI STATUS

16 per 1000 live births, under five mortality rate due to pneumonia in 2018.

17% of child deaths were due to pneumonia in 2018, and it was the **biggest killer** of children under-five in 2017.



Pneumonia killed more than **12,557** children under-five in 2018 – more than **1** child every hour.

5% is the average annual rate of reduction in pneumonia mortality between 2000–2018, and at the same rate, Mali is expected to reach the **2025 GAPPD target later than 2050**.

Health system strengthening to deliver strong primary health care and UHC to combat pneumonia⁵

The UHC Service Coverage Index is a measure of SDG indicator 3.8.1, which is a composite of essential health services. Countries should strive towards achieving 100% coverage to ensure health care for all citizens. To progress towards UHC, coverage of quality essential health services needs to be expanded with an emphasis on reducing inequities and strengthening health care facilities, to improve the quality of primary health care services. In Mali, the coverage of essential health services was just **38%** in 2017. Although, it is reassuring that **71%** of children with pneumonia symptoms were taken to any type of health care provider in 2018, which include private and informal healthcare providers.

To build strong health systems, increase coverage and deliver UHC, Mali needs to increase domestic public health

expenditure towards a target of 5% of GDP, prioritising spending at the primary health care level. It would be ideal for Mali to raise revenue for health systems in an equitable way through progressive taxation and remove out-of-pocket payments to accessing health and nutrition services, such as user fees, at least for vulnerable populations and priority services. The more Mali continues to rely heavily on out-of-pocket payments, the harder it will be to achieve UHC.

Strong and equitable health systems are needed to adequately prevent, diagnose and treat pneumonia, and provide children with their basic human right to good-quality healthcare. UHC – where all children and their family have access to health and nutrition services, vaccinations and the medicines they need, without facing financial hardship – represents that right in action.



GLOBAL TARGETS ON HEALTH FINANCING

\$86 is the minimum recommended government spend/person/year to provide essential health services as per WHO recommendations.

5% is the minimum recommended government spend on health as % of GDP as per WHO recommendations.

57% of government health expenditure should be on primary-level healthcare services as per WHO recommendations, as 90% of all health needs can be met at the primary health care level.

The SDG targets for large out of pocket (OOP) expenditure should not be more than

10% and to avert catastrophic OOP expenditure it should not be more than

25% of total household expenditure or income.

MALI STATUS⁶

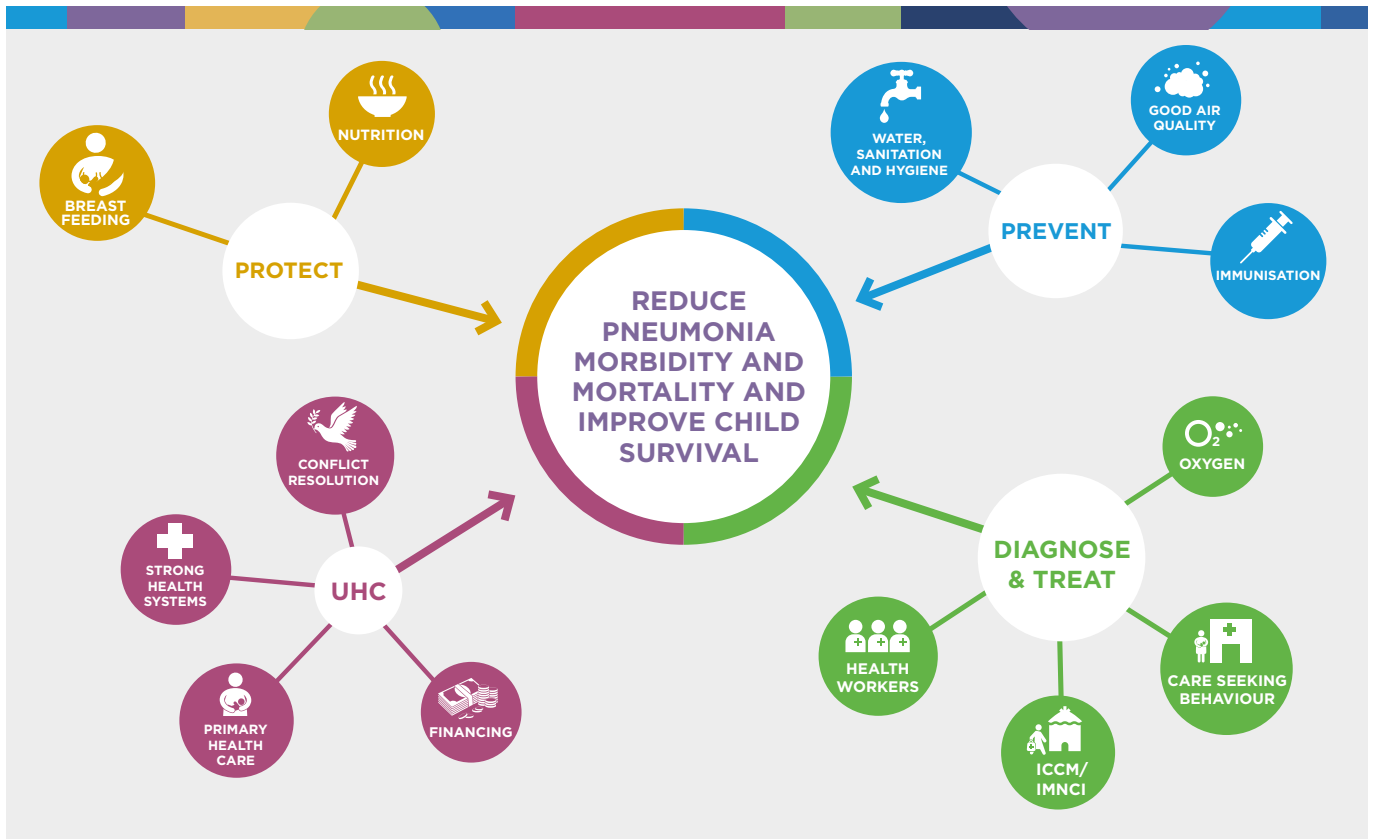
\$9 spent by the government on health per person in 2016.

4.3% of the government's budget spent on health in 2018.

0.85% of GDP spent on health by the government in 2018.

70% of the government's budget spent on primary health care in 2016.

35% of total health expenditure was out-of-pocket in 2016.



PROTECT children by establishing good health practices from birth

Global Targets & Standards

SDG 2.2: By 2030, end all forms of malnutrition, including achieving by 2025, the internationally agreed targets on wasting and stunting in children under-five.

Reduce and maintain childhood wasting (weight for age) in under-five children to less than **5%** & ensure **40%** reduction in stunting (height for age) in under-five children as per the 2025 targets set in the 2012 World Health Assembly Resolution.

2 ZERO HUNGER



Nutrition⁶

Mali Status

Wasting

9% is the wasting rate for under-five children in 2018.

Stunting

27% is the stunting rate in 2018.

To remain on track to achieve SDG 2 in 2030, Mali needs to reduce stunting rates to **23%** by 2025.

Sub-national Status⁷

Wasting

11% is the wasting rate for under-five children in the poorest households in 2018.

8% is the wasting rate for under-five children in the richest households in 2018.

Stunting

33% is the stunting rate among under-five children in the poorest households in 2018.

13% is the stunting rate among under-five children in the richest households in 2018.

The stunting rate among children in the poorest households is almost **2 ½ times** higher than among children in the richest households.

Global Targets & Standards

50% rate of exclusive breastfeeding for the first 6 months as per the 2025 targets set in the 2012 World Health Assembly Resolution.



Breast feeding⁹

Mali Status

32% is the exclusive breastfeeding rate in 2018.

Sub-national Status

30% is the exclusive breastfeeding rate among babies in the poorest households in 2018.

33% is the exclusive breastfeeding rate among babies in the richest households in 2018.

PREVENT pneumonia in children by addressing underlying causes

Global Targets & Standards

SDG 3.2: End preventable deaths of newborns and children under 5 years of age, with all countries aiming to reduce under-5 mortality to at least as low as **25** per 1,000 live births by 2030.

90% national and at least **80%** district or equivalent administrative unit coverage for vaccination by 2020 as per the Global Vaccine Action Plan (GVAP)

Penta3 (Pentavalent vaccine) and **PCV3** (Pneumococcal Conjugate) vaccines included in the national immunisation programme.

3 GOOD HEALTH AND WELL-BEING



Immunisation¹⁰

Mali Status

71% Penta3 vaccine coverage among 1-year-olds in 2018.

68% PCV3 coverage among 1-year-olds in 2018.

Sub-national Status

Pentavalent vaccine (Penta3) coverage among 1-year-olds in 2018

3% in Kidal Region & **82%** in Bamako Region, **61%** among poorest households & **81%** among richest households.

PCV3 coverage among 1-year-olds in 2018

57% among the poorest households & **79%** in the richest households.

Global Targets & Standards

SDG 6.1: Achieve universal and equitable access to safe and affordable drinking water for all by 2030.

SDG 6.2: Achieve access to adequate and equitable sanitation and hygiene for all and end open defecation, paying special attention to the needs of women, girls and those in vulnerable situations by 2030.

6 CLEAN WATER AND SANITATION



Water, sanitation and hygiene¹¹

Mali Status

78% People using basic drinking water services in 2017.

39% People using basic sanitation services in 2017.

52% People with basic hand washing facilities at home in 2017.

7% People practicing open defecation in 2017.

Sub-national Status

68% rural & **92%** urban people using basic drinking water services in 2017.

29% rural & **53%** urban people using basic sanitation services in 2017.

39% rural & **70%** urban people with basic hand washing facilities at home in 2017.

12% rural & **1%** urban people practicing open defecation in 2017.

Global Targets & Standards

SDG 7: 100% access to affordable, reliable, sustainable and modern energy for all by 2030.

SDG 3.9: Substantially reduce the number of deaths and illnesses from hazardous chemicals; air, water and soil pollution and contamination by 2030.

10 Micro grams per cubic metre of air ($\mu\text{g}/\text{m}^3$) should be the mean annual exposure to Fine Particulate Matter ($\text{PM}_{2.5}$) as per WHO Air Quality Guidelines.

7 AFFORDABLE AND CLEAN ENERGY



3 GOOD HEALTH AND WELL-BEING



Air Pollution¹²

Mali Status

<5% people with primary reliance on clean fuels and technologies in 2017.

39 micro grams per cubic metre of air ($\mu\text{g}/\text{m}^3$) is the mean annual exposure to $\text{PM}_{2.5}$ pollution in urban settings in 2017.

Sub-national Status

Data not available

Data not available

DIAGNOSE & TREAT children who become ill with pneumonia

Global Targets & Standards

SDG 3.12: Substantially increase health financing and the recruitment, development, training and retention of the health workforce in developing countries, especially in least developed countries and small island developing States.

3 GOOD HEALTH AND WELL-BEING



44.5 per 10,000 people is the minimum number of skilled health workers required to deliver quality health services as per WHO recommendations. The estimated shortage of health workers is 18 million by 2030.

Health workers¹³

Mali Status

1 doctor per 10,000 people &
4 nurses and midwives per 10,000 people in 2016.

Sub-national Status

3 doctors in Bamako and **0.86** doctors per 10,000 people in other Regions – **903** doctors in Bamako and **1,481** in the other Regions in 2018.

1 & **0.7** nurses in Kayes and Sikasso Regions per 10,000 people in 2018.

3,000 Community Health Workers (CHWs) in 2019.

Data not available

YES – Mali has a National Task-Shifting Policy which mandates CHWs to dispense Amoxicillin dispersible tablets 250 mg.

YES & NO – 7 of the 11 Regions follow the National Task-Shifting Policy.

YES – CHWs have been mandated to dispense Amoxicillin dispersible tablets 250 mg and syrup in all 11 Regions.

Global Targets & Standards

ICCM (Universal Integrated Community Case Management) to prioritise the most deprived and marginalised, removing financial and non-financial barriers to access.



ICCM¹⁴

Mali Status

YES – Mali has an ICCM/IMNCI Strategic Plan 2016-2020.

Sub-national Status

YES & NO – 7 of the 11 Regions have implemented the ICCM/IMNCI Strategic Plan 2016-2020.

NO – Amoxicillin dispersible tablets 250 mg are not on the National List of Essential Medicines, but Amoxicillin syrup is.

YES & NO – 7 of the 11 Regions have trained CHWs to dispense Amoxicillin dispersible tablets 250 mg and syrup.

Global Targets & Standards

Oxygen levels in children should be monitored by trained CHWs (community health workers) who can refer them in time to primary and secondary health facilities which have oxygen supply.



Oxygen¹⁵

Mali Status

NO – CHWs are not mandated to use pulse oximeters.

Sub-national Status

NO – none the 11 Regions are yet to mandate CHWs to use pulse oximeters.

NO – There is no medical oxygen policy or roadmap in Mali.

NO – Cercles level health care centres do not have medical oxygen.

Global Targets & Standards

90% pneumonia care seeking behaviour by 2025 as per the Global Action Plan for the Prevention and Control of Pneumonia and Diarrhoea (GAPPD). All children with pneumonia symptoms should be taken promptly to an appropriate health facility.



Care seeking behaviour¹⁶

Mali Status

71% children with pneumonia symptoms were taken to any type of health care provider in 2018, which include private and informal healthcare providers.

Sub-national Status

74% of children under-five with pneumonia symptoms, from the poorest households, were taken to any type of health care provider in 2018.

86% of children under-five with pneumonia symptoms, from the richest households, were taken to any type of health care provider in 2018.

Fighting for Breath: The Global Forum on Childhood Pneumonia, January 2020

Pneumonia is the world's deadliest infectious killer of children and the ultimate disease of poverty.

Each year 800,000 of the world's poorest and most vulnerable children die from the disease – more than 2000 every day. The overwhelming majority of these deaths are preventable. Yet fatalities are declining slowly – far too slowly for the world to deliver on the Sustainable Development Goal pledge to 'end preventable child deaths by 2030'. Changing this picture will require more than a reaffirmation of the SDG promise. The children whose lives are at stake need a bold agenda backed by urgent action.

On 29-31 January 2020 in Barcelona, Spain, over 350 participants from 55 countries – including ministers and senior planners from high-burden countries, major development donors, UN and multilateral agencies, non-government organisations, corporate and philanthropic leaders and the pneumonia research community – come together for the first-ever Global Forum on Childhood Pneumonia as part of an effort to build that agenda and galvanise national and international action.

The Declaration which was endorsed at the Global Forum can be found here:
stoppneumonia.org/latest/global-forum/

A Global Call to Action on Childhood Pneumonia

- 1. Develop pneumonia control strategies** as part of wider plans for universal health coverage and commit to reducing child pneumonia deaths to fewer than three per 1,000 live births, the target set by the Integrated Global Action Plan Pneumonia and Diarrhoea (GAPPD).
- 2. Strengthen quality primary health care and action on pneumonia** as part of national multi-sectoral plans and through integrated strategies (including nutrition, water, sanitation and hygiene, and air pollution), including at community level, focusing on the most deprived and marginalised children.
- 3. Increase domestic government investment in health and nutrition** (to at least 5% of GDP on health) and ensure that increased spending improves access to child health and nutrition services, including by removing user fees, addressing non-financial barriers to accessing care, and prioritising primary health services.
- 4. Improve health governance** by ensuring accountability, transparency and inclusiveness in planning, budgeting and expenditure monitoring, including for pneumonia control strategies.
- 5. Accelerate vaccination coverage** by supporting Gavi's 2020 replenishment and ensuring the investment drives more equitable vaccination coverage and improves vaccine affordability.
- 6. Enhance overseas development assistance** by increasing allocations to child health services and advancing the achievement of universal health coverage (aligned with national priorities and plans), including through pledges as part of Gavi replenishment and Nutrition for Growth.
- 7. Engage the private sector to improve access** to affordable, quality vaccines, diagnostic tools, new antibiotics, medicines and medical oxygen, especially for the most deprived and marginalised children.
- 8. Measure and report progress in achieving universal health coverage** to build stronger health systems which deliver quality primary health care and reduce child deaths, including from pneumonia, as well as against SDG child survival and GAPPD targets.
- 9. Prioritise research, development and innovation** to improve access to the most affordable and cost-effective pneumonia prevention, diagnosis, referral and treatment technologies and services.
- 10. Champion multi-sectoral partnerships** between the child health and nutrition communities and the broader infection control, clean air, water, sanitation and hygiene, and development financing communities.

The partnership to combat pneumonia

Save the Children, UNICEF and Every Breath Counts Coalition are working in partnership to fight one of the greatest – and gravest – health challenges facing children around the world – childhood pneumonia. The partnership will galvanise support to put pneumonia on the global health agenda; stimulate national action; and mobilise the donor community to ensure that we achieve the SDG goal on child survival and the Global Action Plan for Pneumonia and Diarrhoea (GAPPD) target of three child pneumonia deaths per 1,000 live births by 2030.

References:

1. **Biggest killer:** UNICEF analysis based on WHO and Maternal and Child Epidemiology Estimation Group interim estimates produced in September 2019, applying cause fractions for the year 2017 to United Nations Inter-Agency Group for Child Mortality Estimation estimates for the year 2018; Convention on the Rights of the Child
2. **Under-Five Mortality:** United Nations Inter-Agency Group for Child Mortality Estimation (IGME) (2019); Mali Demographic and Health Survey 2018; Mortality rates are calculated for the 10-year-period preceding the DHS survey
3. **Risk Factors for Pneumonia:** The Institute for Health Metrics and Evaluation (IHME) - Global Burden of Disease
4. **Pneumonia Related Under-Five Mortality:** UNICEF analysis based on WHO Maternal and Child Epidemiology Estimation Group (MCEE) interim estimates produced in September 2019, applying cause fractions for the year 2017 to United Nations Inter-agency Group for Child Mortality Estimation estimates for the year 2018; WHO Global Health Observatory – Causes of Child Death 2017
5. **Health Systems Strengthening:** WHO/World Bank UHC Coverage Index; Mali Demographic and Health Survey 2018
6. **Health Financing:** WHO Global Health Expenditure database; MoH Health System Reform Framework, March 2019
7. **Sub-national Status:** GRID, Save the Children's Child Inequality Tracker; Poorest (richest) refers to poorest (richest) 20% of households as defined by most recent household survey
8. **Nutrition:** Mali Demographic and Health Survey 2018
9. **Breastfeeding:** Mali Demographic and Health Survey 2018
10. **Immunisation:** WHO/UNICEF estimates of national immunization coverage (WUENIC); Mali Demographic and Health Survey 2018
11. **WASH:** WHO/UNICEF JMP (2019) Progress on household drinking water, sanitation and hygiene 2000-2017
12. **Air Pollution:** WHO Global Health Observatory - SDG7.1, Clean Household Energy; World Development Indicators (based on Brauer, M. et al. 2017)
13. **Health Workers:** WHO Global Health Observatory – Global Health Workforce Statistics; District Health Information Software (DHIS) 2019; Mali HRH annual database 2018; National Statistics Book (SLIS) 2018; Essential Care in Community (SEC) Strategic Plan 2016-2020
14. **ICCM:** Essential Care in Community (SEC) Strategic Plan 2016-2020; Liste Nationale Des Médicaments Essentiels Par Niveau Mali 2018
15. **Oxygen:** Essential Care in Community (SEC) Strategic Plan 2016-2020; National Health Standards and Policy Book (PNP)
16. **Care Seeking Behaviour:** Mali Demographic and Health Survey 2018

Photo credit: © UNICEF/UNI133953/Bindra
A mother and child rest in their hospital bed at the district hospital in Ouellesebougou, Mali.

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