**Fighting for Breath in Indonesia**

**A CALL TO ACTION TO STOP CHILDREN DYING FROM PNEUMONIA**

**Biggest killer, 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.

**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 combating pneumonia possible, it is a must – a must for every child to be able to fulfil their right to survive and thrive.
Inequality, poverty and lack of access to health services contributes to 53 deaths per 1000 live births among the poorest households compared with 24 deaths per 1000 live births amongst the richest households in 2017.

In Papua where the mortality rate is 80 per 1000 live births, children are almost 5 times more likely to die before the age of five than children in Riau Islands where the mortality rate is 15 per 1000 live births in 2017.

**UNDER-FIVE MORTALITY**

**GLOBAL TARGET**

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

**HIGHEST RISK FACTORS FOR CHILD PNEUMONIA DEATHS IN INDONESIA, 2017**

- 63% caused by child wasting
- 15% caused by second-hand smoke
- 17% caused by indoor air pollution from solid fuels

**PNEUMONIA RELATED UNDER-FIVE MORTALITY**

**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).

**INDONESIA STATUS**

- 4 per 1000 live births, under five mortality rate due to pneumonia in 2018.
- 16% of child deaths were due to pneumonia in 2018, and it was the second biggest killer of children under-five in 2017.

Pneumonia killed more than 19,000 children under-five in 2018 – more than 2 children every hour.

5% is the average annual rate of reduction in pneumonia mortality between 2000–2018, and at the same rate, Indonesia is expected to reach the 2025 GAPPD target in 2024.
Health system strengthening to deliver strong primary health care and UHC to combat pneumonia

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 Indonesia, the coverage of essential health services was 57% in 2017. In addition, the proportion of children with pneumonia symptoms who are taken for healthcare is the indicator for ‘child treatment’ under the UHC Service Coverage Index. In Indonesia it was 75% in 2012.

To build strong health systems, increase coverage and deliver UHC, Indonesia 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 Indonesia 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 Indonesia 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.

INDONESIA STATUS

$50 spent by the government on health per person in 2016.

8% of the government’s budget spent on health in 2016.

1.4% of GDP spent on health by the government in 2016.

..% of the government’s budget spent on primary health care in 2016. No data available.

37% of total health expenditure was out-of-pocket in 2016.
PROTECT children by establishing good health practices from birth

**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.

### Nutrition

**Indonesia Status**
- Wasting: 14% is the wasting rate for under-five children in 2018.
- Stunting: 31% is the stunting rate in 2018.

To remain on track to achieve SDG 2 in 2030, Indonesia needs to reduce stunting rates to **17%** by 2025.

**Sub-national Status**
- Wasting: 14% is the wasting rate for under-five children in the poorest households in 2015.
- 11% is the wasting rate for under-five children in the richest households in 2015.
- Stunting: 43% is the stunting rate among under-five children in the poorest households in 2018.
- 21% is the stunting rate among under-five children in the richest households in 2018.

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

### Breastfeeding

**Indonesia Status**
- 52% is the exclusive breastfeeding rate in 2017.

**Sub-national Status**
- 42% is the exclusive breastfeeding rate among babies in the poorest households in 2012.
- 46% is the exclusive breastfeeding rate among babies in the richest households in 2012.

50% rate of exclusive breastfeeding for the first 6 months as per the 2025 targets set in the 2012 World Health Assembly Resolution.
PREVENT pneumonia in children by addressing underlying causes

**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.

**Indonesia Status**

- 79% Penta3 vaccine coverage among 1-year-olds in 2018.
- 8% PCV3 coverage among 1-year-olds in 2018 as it is not yet part of the national immunisation programme.

**Sub-national Status**

- Pentavalent vaccine (Penta3) coverage among 1-year-olds in 2017
  - 46% in Aceh and 82% in Central Java,
  - 67% among poorest and 82% among 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.

**Indonesia Status**

- 89% People using safely managed drinking water services in 2017.
- 73% People using safely managed sanitation services in 2017.
- 64% People with basic hand washing facilities at home in 2017.
- 10% People practicing open defecation in 2017.

**Sub-national Status**

- 82% rural & 95% urban people using safely managed drinking water services in 2017.
- 65% rural & 80% urban people using safely managed sanitation services in 2017.
- 55% rural & 72% urban people with basic hand washing facilities at home in 2017.
- 17% rural & 4% urban people practicing open defecation in 2017.

**Water, sanitation and hygiene**

**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 (μg/m³) should be the mean annual exposure to Fine Particulate Matter (PM_{2.5}) as per WHO Air Quality Guidelines.

**Indonesia Status**

- 65% people with primary reliance on clean fuels and technologies in 2017.
- 17 micro grams per cubic metre of air (μg/m³) is the mean annual exposure to PM_{2.5} pollution in urban settings in 2017.

**Sub-national Status**

- Data not available
**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.

- **Indonesia Status**: NO – CHWs are not mandated to use pulse oximeters.
- **Sub-national Status**: NO – None of the 34 Provinces are yet to mandate CHWs to use pulse oximeters.

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

- **Indonesia Status**: YES – Indonesia has a Community-based Integrated Management of Childhood Illnesses (C-IMCI) Framework, 2013.
- **Sub-national Status**: NO – CHWs are not trained to dispense any prescribed medicine, including Amoxycillin dispersible tablets 250 mg in any of the 34 Provinces.

**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.

- **Indonesia Status**: 92% children with pneumonia symptoms were taken to a health facility in 2017.
- **Sub-national Status**: Children under-five with pneumonia symptoms taken to a health facility in 2017:
  - 89% from the poorest and 92% from the richest households
  - 81% five in South-East Sulawesi Province and 100% in East Java Province.

**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.

- **Indonesia Status**: 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.
- **Sub-national Status**: 4.5 doctors per 10,000 people & 24 nurses and midwives per 10,000 people in 2018.

- **Indonesia Status**: 868,750 active Community Health Workers (CHWs) in 2018.
- **Sub-national Status**: 5 CHWs (posyandu cadres) per community health post. Indonesia has a total of 173,750 active community health posts.

- **Indonesia Status**: YES – trained CHWs have been mandated in all 34 Provinces to dispense antibiotic syrup as part of C-IMCI in villages with limited access to health workers or health facilities.
- **Sub-national Status**: YES – trained CHWs have been mandated in all 34 Provinces to dispense antibiotic syrup as part of C-IMCI in villages with limited access to health workers or health facilities.

**Diagnose & Treat children who become ill with pneumonia**

- **Care seeking behaviour**: 92% children with pneumonia symptoms were taken to a health facility in 2017.

- **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.

- **Health workers**: 4 doctors per 10,000 people & 24 nurses and midwives per 10,000 people in 2018.

- **ICCM**: YES – Indonesia has a Community-based Integrated Management of Childhood Illnesses (C-IMCI) Framework, 2013.

- **Oxygen**: Indonesia Status:
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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); Indonesia Demographic and Health Survey 2017; 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
5. **Health Systems Strengthening:** WHO/World Bank UHC Coverage Index; Indonesia Demographic and Health Survey 2012
6. **Health Financing:** WHO Global Health Expenditure database
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:** 2025 target calculated based on WHO methodology; Indonesia Basic Health Research 2018, Agency for Health Research and Development (Indonesia)
9. **Breastfeeding:** Indonesia Demographic and Health Survey 2017
10. **Immunisation:** WHO/UNICEF estimates of national immunization coverage (WUENIC); Indonesia Demographic and Health Survey 2017
12. **Air Pollution:** WHO Global Health Observatory - SDG 7.1; World Development Indicators (based on Brauer, M. et al. 2017), World Bank; WHO Outdoor Air Pollution in Cities Database - Indonesia Country Profile: Focus on smaller cities, Clean Air Initiative for Asian Cities Centre, 2010
13. **Health Workers:** National Health Workers Agency (NHWA) data platform, October 2019; PMK No 70/2013 tentang Penyelenggaraan MTBS-M (C-IMCI); Data and Information Indonesia Health Profile 2018 (table 2.21)
14. **ICCM:** PMK No 70/2013 tentang Penyelenggaraan MTBS-M (C-IMCI); Kepmenkes No. 659/2017 on National Drug Formulary 2017
15. **Oxygen:** PMK No 70/2013 tentang Penyelenggaraan MTBS-M (C-IMCI); PMK No 75/2015 on publicly owned PHC (Puskesmas), PMK No 30/2019 on hospital
16. **Care Seeking Behaviour:** Indonesia Demographic and Health Survey 2017