

## Additional File 2. Example Exemplars in Under 5 Mortality Key Informant Interview Guide

### Interviewee Information

Name:

Date:

Interviewer(s):

\_\_\_ Phone \_\_\_ In person

Informed consent received: \_\_\_ Yes \_\_\_ No (if no-end interview)

Recording consent received: \_\_\_ Yes \_\_\_ No

1. What position(s) did you hold starting in 2000? And after?

year	Position/typology*	relevance

\*National level, MOH-across divisions, MOH-specific divisions, Implementers (EBI or area of focus if relevant) External donors, Others

If pertinent, prior to 2000

2. What is your current position?

3. Please describe the role you and your organization played in the work to reduce U5M in Senegal  
 a. Probe: location, area of focus, duration, age range, level of health system, specific EBI or COD

Senegal has made remarkable progress in dropping the rate of U5 mortality since the year 2000. We will be focusing on the time period between \_\_\_\_\_ (if they were only involved for part of the 15 years)

4. Thinking broadly, what do you think were key facilitators in Senegal that helped to enable this success both in 2000 and over time?

Probe: Ministry leadership  
 Organizational structure  
 Interaction with other ministries  
 Culture and environment in the ministry  
 Donors  
 Engagement of stakeholders  
 National level factors

5. What were some barriers that challenged the ability to start or continue the work to reduce U5M?

Probe: Ministry leadership  
 Organizational structure  
 Needs from other ministries  
 Culture and environment in the ministry

Donors/funding  
 Engagement of stakeholders  
 National level factors

Probe: In 2005? 2010? Over the last 5 years?

6. What changes were made to overcome these?

7. What other factors contributed to the reduction of U5M, initially in 2000 and over time?

Probe: Partnerships  
 Culture  
 Learning  
 Accountability  
 Stakeholders  
 Leadership

8. Where are areas where there are new or remaining challenges in U5M?

COD or EBI we are interviewing for: \_\_\_\_\_

**9. How was U5M recognized as a priority problem for work at the MOH?**

Probe: Data and other sources of information  
Funding opportunities  
Other input from within country, donors  
Comparing with other countries  
Community/stakeholder engagement  
National government

**Probe: When was a focus on Neonatal mortality introduced (if it was)? Why?**

**10. What other specific influences led to national and ministry decisions to address U5M and specific priorities such as age groups or cause of death or areas of the country (versus or in addition to other problems)?**

- Probe:
  - Evidence
    - (overall and specific causes of death)
    - New interventions
  - Leadership at national level
  - Funding/donors
  - Legislation/policies
  - Mission/values of the MOH, of the country

**11. What facilitated your ability to prioritize and get resources to address U5M overall and targeted areas (COD or age group)?**

- a. Probe:
  - i. donor funding
  - ii. national leadership
  - iii. partnership with Ministry of finance

**12. (Show the list of EBIs) In your opinion, which were the top 3 EBIs that contributed to the success of reducing U5M overall since 2000?**

**EBI1:** \_\_\_\_\_

- a. How did you choose this one?  
Probe: Evidence of need, evidence of effectiveness  
Funding,  
national government priority  
stakeholders priority (community, partners, donors)
- b. How did you prepare to implement this intervention?  
Probe:  
Adaptation of intervention and implementation, use of pilots  
Stakeholder engagement (partners, community, other elements of government)
- c. What helped you implement it?
  - i. how it was started (ilot, or not, etc)
  - ii. evidence available on effectiveness
  - iii. leadership buy-in
  - iv. stakeholder support/engagement process
  - v. accountability,

- d. What were the challenges?
  - i. Funding
  - ii. Structure and strength of the health system
  - iii. Legislation
  - iv. Community
  - v. quality
  - vi. other

- e. What did you need to change once you had started?  
Probe: Intervention components vs implementation, why it was changed, any

- f. Overall how effective was the implementation of the intervention
  - i. Probe:
    - 1. Reach-overall, equity
    - 2. Acceptability by community and providers
    - 3. Fidelity (quality)
    - 4. Feasibility ex. Cost, ability to implement
    - 5. Effectiveness

- g. Have you been able to reach scale and sustain the intervention and change?
  - i. What are the challenges (if any) to sustaining this success

**EBI2:** \_\_\_\_\_

- a. How did you choose this one?  
Probe: Evidence of need, evidence of effectiveness  
Funding,  
national government priority  
stakeholders priority (community, partners, donors)
- b. How did you prepare to implement this intervention?  
Probe:  
Adaptation of intervention and implementation, use of pilots  
Stakeholder engagement (partners, community, other elements of government)
- c. What helped you implement it?
  - ii. how it was started (ilot, or not, etc)
  - iii. evidence available on effectiveness
  - iv. leadership buy-in
  - v. stakeholder support/engagement process
  - vi. accountability,
- d. What were the challenges?
  - vii. Funding
  - viii. Structure and strength of the health system
  - ix. Legislation
  - x. Community
  - xi. quality
  - xii. other
- e. What did you need to change once you had started?

Probe: Intervention components vs implementation, why it was changed, any

f. Overall how effective was the implementation of the intervention

xiii. Probe:

1. Reach-overall, equity
2. Acceptability by community and providers
3. Fidelity (quality)
4. Feasibility ex. Cost, ability to implement
5. Effectiveness

g. Have you been able to reach scale and sustain the intervention and change?

What are the challenges (if any) to sustaining this success

**EBI 3:** \_\_\_\_\_

a. How did you choose this one?

Probe

- Evidence of need, evidence of effectiveness
- Funding,
- national government priority
- stakeholders priority (community, partners, donors)

b. How did you prepare to implement this intervention?

Probe:

Adaptation of intervention and implementation, use of pilots  
Stakeholder engagement (partners, community, other elements of government)

c. What helped you implement it?

- how it was started (ilot, or not, etc)
- evidence available on effectiveness
- leadership buy-in
- stakeholder support/engagement process
- accountability,

d. What were the challenges?

- Funding
- Structure and strength of the health system
- Legislation
- Community
- quality
- other

e. What did you need to change once you had started?

Probe: Intervention components vs implementation, why it was changed, any

f. Overall how effective was the implementation of the intervention

Probe:

- Reach-overall, equity
- Acceptability by community and providers
- Fidelity (quality)
- Feasibility ex. Cost, ability to implement
- Effectiveness

g. Have you been able to reach scale and sustain the intervention and change?

What are the challenges (if any) to sustaining this success

**13. If U5M was already dropping by 2000, ask for general EBIs and factors which were associated with the decline prior to 2000**

**14. In your opinion, what were 1-2 EBIs that were not effective or less effective than expected in contributing to reducing U5M overall or neonatal mortality specifically?**

**EBI1:** \_\_\_\_\_

a. How did you choose this one?

Probe: Evidence of need, evidence of effectiveness

Funding,  
national government priority  
stakeholders priority (community, partners, donors)

b. What do you think made it ineffective?

Probe: Preparation – adaptation, partners, engagement

Probe: Implementation – strategy, start and scale, leadership, accountability, sustainment, culture, ineffectiveness

Probe: Outcomes – Reach, acceptability, adoption, feasibility, cost, fidelity

c. What would you change if you did it again?

Probe: Intervention components and/or implementation strategy

**EBI2:** \_\_\_\_\_

a. How did you choose this one?

Probe: Evidence of need, evidence of effectiveness

Funding,  
national government priority  
stakeholders priority (community, partners, donors)

b. What do you think made it ineffective?

Probe: Preparation – adaptation, partners, engagement

Probe: Implementation – strategy, start and scale, leadership, accountability, sustainment, culture, ineffectiveness

Probe: Outcomes – Reach, acceptability, adoption, feasibility, cost, fidelity

c. What would you change if you did it again?

Probe: Intervention components and/or implementation strategy

**15. Thinking broadly, what do you think were key facilitators at the Ministry of Health that helped to enable this success since 2000 (note the timeframe)?**

Probe: Ministry leadership

Organizational structure  
Interaction with other ministries  
Culture and environment in the ministry  
Donors  
Engagement of stakeholders  
National level factors

**16. What were some barriers that challenged your ability in the work to reduce U5M (note the time frame)?**

Probe: Ministry leadership  
Organizational structure  
Needs from other ministries  
Culture and environment in the ministry  
Donors/funding  
Engagement of stakeholders  
National level factors

Probe: Who held your position before you?  
Who held your position after you?

17. What changes were made to overcome these?

18. Overall, how did you know if work to reduce U5M and/or NMR was on-track or off-track?

19. What other factors outside of the MOH contributed to the reduction of U5M since 2000? How has that differed for NMR?

Probe:

- Partnerships (probe-with whom-implementers, private sector, donors others)
- Other interventions (ex. Nutrition, WASH, economic development, education)
- Learning at the MOH
- Accountability in the health sector
- Governance and Leadership (national or local)

20. Where are areas where there are new or remaining challenges in U5M?

Probe: age (NMR), change in COD, equity/coverage, other?

21. From the lessons learned in Senegal, what would be knowledge and lessons which you think could be transferable (with adaptation) to other countries trying to reduce U5M generally including neonatal mortality and how would you suggest they implement them?

**Contextual factors:**

Governance  
Accountability  
Donor coordination  
Financial  
Prioritization/culture (ex. Equity)  
HMIS/data use

**EBIs and how they were chosen and implemented**

Policy which need to be in place  
Stakeholder engagement  
How decisions were made  
Interaction/coordination with other ministries  
Role of private sector  
Role of research

22. If there is an area not well covered in the desk review-ask if there any really critical reports or sources of information that would help us better understand the progress and challenges of reducing U5M since 2000 for \_\_\_\_\_?

23. Who else should we speak to better understand the reductions in U5M in Senegal?

Non-neonatal EBIs Interventions delivered through the Health System	
Cause of Death	Evidence-Based Interventions
Lower respiratory infections	Antibiotic treatment
	Vaccination: PCV
	Vaccination: Hib
	Community-based management Facility-based management
Diarrheal diseases	Oral rehydration therapy
	Zinc supplementation
	Vaccination: Rotavirus
	Community-based management Facility-based management
	WASH (prevention)*
	Antimalarial combination therapy
Malaria	Rapid diagnostic testing
	Insecticide-treated nets
	Indoor residual spray
	Intermittent preventative therapy for high-risk groups
	Community-based management Facility-based management
	Vaccination: Measles
	Vitamin A supplementation (prior to vaccination)
Malnutrition	Promotion and support of exclusive breastfeeding for 6 months
	Promotion of continued breastfeeding and complementary feeding after 6 mos
	Vitamin A supplementation
	Management of severe acute malnutrition (ready-to-use food, rehydration, antibiotics)
	Broader nutrition efforts (prevention)*
HIV	Antiretroviral treatment for infants and children
	HIV testing of children born to HIV+ mothers
	Prevention of mother-to-child transmission
	Early diagnosis of pregnant women (or pre-pregnancy)
	PMTCT treatment for mothers** and post-partum to exposed infants
	Elective C-section for HIV+ mothers***; replacement feeding***
	ART for mother for life (B+) (started in 2012)
Exclusive breast feeding	
Meningitis	Vaccination: PCV
	Vaccination: Hib
	Vaccination: Meningococcal
	Antibiotic treatment Chemoprophylaxis during acute outbreaks
Other vaccine preventable diseases	Vaccination: Tetanus
	Vaccination: Diphtheria
	Vaccination: Pertussis
	Vaccination: Polio
General	Vitamin A
Syphilis	Screening of pregnant women
	Treatment with penicillin (pregnant women, exposed infants)

\*: broader initiatives; will note coverage \*\* no longer recommended \*\*\*No longer recommended for women on ART with suppressed VL

Neonatal-Specific Evidence-Based Interventions delivered through the Health System		
Period of Risk	Evidence-Based Intervention	
Preconception	Folic acid supplementation	
Antenatal	Tetanus vaccination	
	Malaria prevention and treatment	Intermittent presumptive treatment ITNs
	Iodine supplementation (in endemic iodine deficient settings) 4 or more antenatal visits (ANC4)	
	Prevention and treatment of preeclampsia and eclampsia	Antihypertensive treatment for severe hypertension Magnesium sulfate Early delivery
	Intrapartum	Antibiotics for PPROM
Corticosteroids for preterm labor		
C-section for breech or obstructed labor		
Active management of delivery (including partograph)		
Clean delivery practices (incl. clean cord-cutting)		
Trained birth attendant		
Facility-based delivery		
Access to Basic emergency obstetric and newborn care (BEmONC)		
Access to Comprehensive emergency obstetric and newborn care (CEmONC)		
Timely transport for higher level care for mother (can be postnatal period as well)		
Postnatal	Newborn resuscitation	
	Immediate breastfeeding	
	Prevention and management of hypothermia	Immediate drying and wrapping Delayed bathing Immediate Skin-to-skin Baby warming
	Kangaroo care for LBW/premature	
	Timely transport for higher level care for mother	
	Timely transport for higher level care for neonate	
	Post-partum visits to identify danger signs and provide active referral	
	Antibiotics for suspected or confirmed infection	
	NICUs (equipped, trained staff, standards/protocols established and followed)	
	Not found but could be considered: Prevention of premature labor	

Selected Contextual Factors Associated with Reduced Risk of U5M:
Maternal education
Birth spacing and reduced fertility rates
General nutrition programs (maternal and child)
Expansion of human resources
Increased access (geographic, financial)
Improved quality of care