Extended Data Table 1a. Under-5 mortality-specific evidence-based interventions (EBIs) targeting leading causes of death in children under 5 in low- and middle-income countries

Cause of death	Evidence-based interventions		
	Antibiotic treatment		
	Vaccination: PCV		
Lower respiratory	Vaccination: Hib		
infections	Community-based management		
	Facility-based management		
	Oral rehydration therapy		
Diarrhoal	Zinc supplementation		
disoasos	Vaccination: Rotavirus		
uiseases	Community-based management		
	Facility-based management		
	Antimalarial combination therapy		
	Rapid diagnostic testing		
	Insecticide-treated nets		
Malaria	Indoor residual spray		
	Intermittent preventative thera	py for high-risk groups	
	Community-based management		
	Facility-based management		
Monclos	Vaccination: Measles		
wiedsies	Vitamin A supplementation (prior to vaccination)		
	Exclusive breastfeeding for 6 months		
	Continued breastfeeding and complementary feeding after 6 months		
Malnutrition	Vitamin A supplementation		
	Management of severe acute malnutrition (ready-to-use food, rehydration,		
	antibiotics)		
	Antiretroviral treatment for infants and children		
	HIV testing of children born to HIV+ mothers		
		Early diagnosis of pregnant women (or pre-	
		pregnancy)	
	Prevention of mother-to-child transmission (PMTCT)	PMTCT treatment for mothers* and post-partum	
HIV		to exposed infants	
		Elective C-section for untreated HIV+ mothers**;	
		replacement feeding**	
		Antiretroviral treatment for mother for life as	
		prevention (started in 2012)	
		Exclusive breast feeding	
Meningitis	Vaccination: PCV meningococcal		
	Vaccination: Hib		
	Vaccination: Meningococcal		
	Antibiotic treatment		
	Chemoprophylaxis during acute outbreaks		
	Vaccination: Tetanus		

Other vaccine	Vaccination: Diphtheria
preventable	Vaccination: Pertussis
diseases	Vaccination: Polio

\* now incorporated into treatment for all \*\*No longer recommended for women on antiretroviral therapy with suppressed VL

Extended Data Table 1b. Neonatal mortality-specific evidence-based interventions (EBIs) targeting leading causes of death in low- and middle-income countries between 2000-2015

Period of risk	Evidence-based intervention			
Preconception	Folic acid supplementation			
	Tetanus vaccination			
	Malaria provention and treatment	Intermittent presumptive treatment		
		ITNs		
	Iodine supplementation (in endemic iodine deficient settings)			
	4 or more antenatal visits (ANC4)			
Antenatal		Calcium supplementation		
		Low-dose aspirin for high-risk women		
	Prevention and treatment of	Antihypertensive treatment for severe		
	preeclampsia and eclampsia	hypertension		
		Magnesium sulfate		
		Early delivery		
	Antibiotics for PPROM			
	Corticosteroids for preterm labor			
	C-section for breech or obstructed labor			
	Active management of delivery (including partograph)			
Intranartum	Clean delivery practices (incl. clean cord-cutting)			
mapartum	Trained birth attendant			
	Facility-based delivery			
	Basic emergency obstetric and newborn care (BEmONC)			
	Comprehensive emergency obstetric and newborn care (CEmONC)			
	Timely transport for higher level care for mother			
	Newborn resuscitation			
	Immediate breastfeeding			
		Immediate drying and wrapping		
	Prevention and management of	Delayed bathing		
Postnatal	hypothermia	Skin-to-skin		
		Baby warming		
	Kangaroo care for LBW/prematurity			
	Timely transport for higher level care for mother			
	Post-partum visits to identify danger signs and provide active referral			
	Antibiotics for suspected or confirmed infection			
	Surfactant therapy for RDS and prematurity			

Neonatal intensive care units (equipped, trained staff, standards and protocols
established and followed)

	Contextual Factor	Rwanda	
Global level	Donor funding priorities and availability	+	
	Climate change	-	
National/	National priority for health (including U5M)	+	
Subnational	Leadership and governance and a culture of accountability	+	
level	Financial commitment to the health sector	+/-	
	In-country research capacity	+	
	Geography	+	
	WASH	+	
	Culture of donor and partner coordination	+	
	Community health system and structure	+	
	Health systems strength and strengthening	+	
	Culture and capacity of data use	+	
Community	Culture and beliefs	+	
/Individual level	Socioeconomic status	+	
	Female empowerment status	+	
	Reproductive rights	+	
	Stunting	-	
Кеу	(+) = facilitating contextual factor (-) = hindering contextual factor (+/-) = both a facilitating and hindering contextual factor		

Extended Data Table 2: Main contextual factors identified as facilitators or barriers to the implementation of health system-delivered U5M targeted EBIs in Rwanda

**Extended Data Figure 1. Mapping of change in neonatal and under-5 mortality in Rwanda between 2000-2015** (Source: S Hay et al, Institute for Health Metrics and Evaluation)

