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Online Supplemental Documents: Evidence of Impact: iCCM as a strategy to save lives of children under five

Summary of LiST Data Inputs for Each RAcE Project Area

Table S1. Intervention coverage indicators and values used in RACE DRC LiST analysis

	LiST 1	nodel baseli	ne inputs—2013	LiST mode	l endline inputs—2016
RACE DRC	Subnational	Ratio	Data sources/indicator	Subnational	Data sources/indicator
	data	Hutio	information	Data	information
DemProj			1		
Population	1,000,000	1.29%	Project area population estimated by the IRC; adjusted with ratio	-	Calculated by model
Total fertility rate	7.8	1.2	DHS 2013–2014; adjusted with ratio	-	Calculated by model
AIM					
HIV incidence or prevalence	1.5	1.25	DHS 2013–2014; adjusted with ratio	-	Calculated by model
FamPlan	•				
Contraceptive prevalence rate	3.9	0.5	DHS 2013–2014; adjusted with ratio	-	Calculated by model
LiST					
Baseline child mortality					
Neonatal mortality rate	35		DHS 2013-2014	-	Calculated by model
Infant mortality rate	72		DHS 2013-2014	-	Calculated by model
Under-five mortality rate	121		DHS 2013-2014	-	Calculated by model
Pregnancy	•				
Antenatal care	42.1	-	DHS 2013–2014; rural estimate, Katanga Regional estimate not available	41.9	Extrapolated/projected DHS
Tetanus toxoid vaccine	37.5	0.87007	DHS 2013–2014; adjusted with ratio	39.9	Extrapolated/projected DHS
Intermittent preventive treatment of malaria during pregnancy	9.2	-	DHS 2013-2014	4.5	Extrapolated/projected DHS
Multiple micronutrition supplementation (iron folate 90+)	3.1	-	DHS 2013-2014	9.9	Extrapolated/projected DHS
Childbirth					
Skilled birth attendance	64.1	-	DHS 2013-2014	62.4	Set to same as institutional delivery; must be greater or equal to institutional delivery
Institutional delivery	63.9	-	DHS 2013-2014	62.4	
Preventive					
Chlorohexadine for postnatal	na	-	LiST default	-	Flatlined
Postnatal care for babies ("clean postnatal practices")	na	-	LiST default	-	Flatlined
Vitamin A supplementation	65.3	0.927557	DHS 2013–2014; adjusted with ratio	68.5	Extrapolated/projected DHS
Improved water source	46.4	0.952772	DHS 2013–2014; adjusted with ratio	57.6	Extrapolated/projected DHS
Water connection in home	0.1	0.111111	DHS 2013–2014; adjusted with ratio	0	Extrapolated/projected DHS
Improved sanitation	11.3	0.61413	DHS 2013–2014; adjusted with ratio	16.9	Extrapolated/projected DHS

	LiST 1	model bas <mark>eli</mark>	ne inputs—2013	LiST mode	LiST model endline inputs—2016		
RACE DRC	Subnational data	Ratio	Data sources/indicator information	Subnational Data	Data sources/indicator information		
Hygienic disposal of child's stools	65.5	-	DHS 2013-2014	-	Flatlined*		
Insecticide-treated net ownership (1+ net/hh)	79.9	-	DHS 2013-2014	-	Flatlined†		
Vaccines‡	-						
BCG	83	-	WHO-UNICEF estimate.	80	WHO-UNICEF estimate. Data were entered for each year (2014 = 78%, 2015 = 74%), not interpolated.		
DPT vaccine	74	-	WHO-UNICEF estimate.	79	WHO-UNICEF estimate. Data were entered for each year (2014 = 80%, 2015 = 81%), not interpolated.		
Hib vaccine	74	-	WHO-UNICEF estimate.	79	WHO-UNICEF estimate. Data were entered for each year (2014 = 80%, 2015 = 81%), not interpolated.		
Measles vaccine	76	-	WHO-UNICEF estimate.	77	WHO-UNICEF estimate. Data were entered for each year (2014 = 77%, 2015 = 79%), not interpolated.		
Polio vaccine	74	-	WHO-UNICEF estimate.	74	WHO-UNICEF estimate. Data were entered for each year (2014 = 79%, 2015 = 78%), not interpolated.		
Pneumococcal vaccine	31	-	WHO-UNICEF estimate.	77	WHO-UNICEF estimate. Data were entered for each year (2014 = 61%, 2015 = 73%), not interpolated.		
Rotavirus vaccine	na	-	WHO-UNICEF estimate.	na	WHO-UNICEF estimate.		
Curative							
ORS for diarrhea	48.9	1.234848	RAcE 2013 household survey; adjusted with ratio	71.7	RAcE 2016 household survey		
Antibiotics for diarrhea	27.5	-	DHS 2013-2014	27.1	Extrapolated/projected DHS		
Zinc for diarrhea	2.9	1.208333	RAcE 2013 household survey; adjusted with ratio	58.8	RAcE 2016 household survey		
Antibiotics for cough with fast or difficult breathing	17.9	0.454315	RAcE 2013 household survey; adjusted with ratio	53.0	RAcE 2016 household survey		
ACT for fever same or next day	5.2	0.305882	RAcE 2013 household survey; adjusted with ratio	49.6	RAcE 2016 household survey		

* The extrapolated/projected DHS value was over 100 percent, which was determined unrealistic by ICF and WHO.

⁺ The extrapolated/projected DHS value was over 100 percent, which was determined unrealistic by ICF and WHO. There were no ITN distribution campaigns in the project area from 2013-2016.

‡ WHO-UNICEF estimates of immunization coverage, which were entered for each available year from 2013 to 2016.

Table S2. Intervention coverage indicators and values used in RAcE Malawi LiST analysis

	Baselin	e data inputs-	Endline inputs—2016							
RACE Malawi	Subnational data	Ratio	Data sources/indicator information	Subnational data	Data sources/indicator information					
DemProj	DemProj									
Population (RAcE project										
area population 2013)	1,906,136	11.18%	Adjusted with ratio	-	Calculated by model					
Total fertility rate	6.1	1.18	Adjusted with ratio	-	Calculated by model					
AIM										
HIV incidence or prevalence	8.9	0.839623	Adjusted with ratio	-	Calculated by model					

	Baselin	e data inputs-	-2010 and 2013	Endline inputs—2016		
RACE Malawi	Subnational	Datia	Data sources/indicator	Subnational	Data sources/indicator	
FamPlan	data	Ratio	information	data	information	
Contraceptive prevalence						
rate (modern and						
traditional)	N/A	N/A	DHS 2010	_	Calculated by model	
LiST	N/A	IN/A	0113 2010		Calculated by Inoder	
Baseline child mortality						
Neonatal mortality rate	34	-	DHS 2010	See results	Calculated by model	
Infant mortality rate	73	-	DHS 2010	See results	Calculated by model	
Under-five mortality rate	130	-	DHS 2010	See results	Calculated by model	
Pregnancy	100	1	5110 2010	beeresuits	dulculated by model	
Antenatal care	44.9	-	DHS 2010	49.2	DHS 2015-16	
Tetanus toxoid vaccine	68.1	0.988389	Adjusted with ratio	71.7	DHS 2015-16	
Intermittent preventive	00.1	0.900309	hujusteu with fatto	/ 1./	D115 2015 10	
treatment of malaria during						
pregnancy	53.6	0.996283	DHS 2010	63.6	DHS 2015-16	
Iron supplementation (90+	55.0	0.770203	5115 2010	03.0	5115 2015-10	
davs)	30.9	_	DHS 2010	32.2	DHS 2015-16	
Childbirth	50.7		5110 2010	54.4	5110 2013-10	
			Set to same as			
Skilled birth attendance	71	_	institutional delivery	88.9	DHS 2015-16	
Institutional delivery	71	-	DHS 2010	88.9	DHS 2015-16	
Breastfeeding	, , , ,	-	5110 2010	00.7	5110 2010-10	
Early Initiation of						
breastfeeding (w/in one						
hour)	94.4	_	DHS 2010	78.3	DHS 2015-16	
Preventive	74.4		0113 2010	70.5	DH5 2015-10	
Postnatal care for babies	N/A	N/A	N/A	N/A	DHS 2015-16	
Complementary feeding	N/A	N/A	N/A	N/A	DII3 2013-10	
(both education only and						
supplementary feeding)	N/A	N/A	N/A	N/A	N/A	
Vitamin A supplementation	85.6	0.987313	Adjusted with ratio	64.9	DHS 2015-16	
Zinc supplementation	N/A	N/A	N/A	N/A	N/A	
Improved water source	77.1	0.967378	Adjusted with ratio	85.2	DHS 2015-16	
Water connection in home	1.8	0.272727	Adjusted with ratio	2.3	DHS 2015-16	
Improved sanitation	6	0.731707	Adjusted with ratio	53.0	DHS 2015-16	
Hand washing	N/A	N/A	N/A	N/A	Flatlined	
Hygienic disposal of child's stools	NI / A	NI / A	NI / A	04.4	DUC 2015 16	
	N/A	N/A	N/A	84.4	DHS 2015-16	
Insecticide-treated net						
ownership (1+ net per	EE 4		DUC 2010	55.0	DUC 2015 16	
household) Vaccines	55.4	-	DHS 2010	55.8	DHS 2015-16	
	07.1	0.000071	A diverte dith	075	DUC 2015 16	
BCG—1 dose	97.1	0.998971	Adjusted with ratio	97.5	DHS 2015-16	
Polio—3 doses	86.7	1.01285	Adjusted with ratio	82.2	DHS 2015-16	
DPT vaccine—3 doses	92.8	0.997849	Adjusted with ratio	93.4	DHS 2015-16	
Hib vaccine—3 doses	92.8	0.997849	Adjusted with ratio	93.4	DHS 2015-16	
HepB—3 doses	92.8	0.997849	Adjusted with ratio	93.4	DHS 2015-16	
Measles vaccine	92.5	0.994624	DHS 2010	91.7	DHS 2015-16	
Curative	1			1	1	
Maternal sepsis case			NT / A		N7 / A	
management	N/A	N/A	N/A	N/A	N/A	
Neonatal (all interventions			NY (4			
listed)	N/A	N/A	N/A	N/A	N/A	
			RAcE Household		Flatlined from 2010 to	
			Survey 2013; Adjusted		2013; RAcE Household	
ORS for diarrhea	72.3	1.047826	with ratio	72.6	Survey 2016	
Antibiotics for treatment of						
dysentery	N/A	N/A	N/A	N/A	Flatlined	
			RAcE Household		Flatlined from 2010 to	
			Survey 2013; Adjusted		2013; RAcE Household	
Zinc for diarrhea	23.8	119.00	with ratio	28.3	Survey 2016	

	Baselin	Baseline data inputs—2010 and 2013			Endline inputs—2016		
RAcE Malawi	Subnational data	Ratio	Data sources/indicator information	Subnational data	Data sources/indicator information		
			RAcE Household		Flatlined from 2010 to		
Oral antibiotics for			Survey 2013; Adjusted		2013; RAcE Household		
pneumonia	56.5	0.803698	with ratio	66.8	Survey 2016		
			RAcE Household		Flatlined 2013 RAcE		
ACTs for fever within 48			Survey 2013; Adjusted		Household Survey		
hours	43.5	2.485356	with ratio	N/A	through 2016		

N/A = Data not available

Table S3. Intervention coverage indicators and values used in RAcE Mozambique LiST analysis

	LiST r	nodel baseline	inputs—2013	LiST model	LiST model endline inputs—2016		
RAcE Mozambique	Subnational data	Ratio	Data sources/indicator information	Subnational data	Data sources/indicator information		
DemProj							
Population	4,196,074	20.34%	Project area population estimated by Save the Children; adjusted with ratio	-	Calculated by model		
Total fertility rate	6.2	1.05084746	DHS 2011; adjusted with ratio	-	Calculated by model		
AIM		1		I			
HIV incidence or prevalence	N/A	-	LiST default	-	Calculated by model		
FamPlan							
Contraceptive prevalence rate (modern and traditional)	6.9	0.59482759	DHS 2011; adjusted with ratio	-	Calculated by model		
LiST		•		•			
Baseline child mortality							
Neonatal mortality rate	23	-	DHS 2011	-	Calculated by model		
Infant mortality rate	60	-	DHS 2011	-	Calculated by model		
Under-five mortality rate	94	-	DHS 2011	-	Calculated by model		
Pregnancy		•	I	•			
Antenatal care	38.1	0.75296443	HMIS 2013; adjusted with ratio	21.6	HMIS 2016		
Tetanus toxoid vaccine	68.1	1.21824687	HMIS 2013; adjusted with ratio	38.3	HMIS 2016		
Intermittent preventive treatment of malaria during pregnancy	30.2	1.54081633	HMIS 2013; adjusted with ratio	38.5	HMIS 2016		
Multiple micronutrition supplementation (iron folate 90+)	45.0	0.55624227	HMIS 2013; adjusted with ratio	30.4	HMIS 2016		
Childbirth			•				
Skilled birth attendance	73.6	-	set to same as institutional delivery; cannot be greater	-	set to same as institutional delivery		
Institutional delivery	73.6	1.34306569	HMIS 2013; adjusted with ratio	78.2	HMIS 2016		
Preventive							
Chlorohexadine for postnatal	N/A	-	LiST default	N/A	Flatlined		
Postnatal care for babies ("clean postnatal practices")	N/A	-	LiST default	N/A	Flatlined		
Vitamin A supplementation	71.2	0.9557047	DHS 2011; adjusted with ratio	N/A	Flatlined		

	LiST 1	nodel baseline		LiST model endline inputs—2016		
RAcE Mozambique	Subnational data	Ratio	Data sources/indicator information	Subnational data	Data sources/indicator information	
Improved water source	42.6	0.83529412	DHS 2011; adjusted with ratio	50.1	Extrapolated/projected DHS	
Water connection in home	0.82	0.3037037	DHS 2011; adjusted with ratio	N/A	Flatlined	
Improved sanitation	15.1	0.69585253	DHS 2011; adjusted with ratio	N/A	Flatlined	
Hygienic disposal of child's stools	78.7	-	DHS 2011	N/A	Flatlined*	
Insecticide-treated net ownership (1+ net/hh)	53.7	-	DHS 2011	N/A	Flatlined	
Vaccines†		1				
BCG	93	-	WHO-UNICEF estimate.	95	WHO-UNICEF estimate. Data were entered for each year (2014 = 94%, 2015 = 95%), not interpolated.	
DPT3 vaccine	78	-	WHO-UNICEF estimate; LiST default is '0' so could not adjust with ratio	80	WHO-UNICEF estimate. Data were entered for each year (2014 = 79%, 2015 = 80%), not interpolated.	
Hib vaccine (Hib3)	78	-	WHO-UNICEF estimate.	80	WHO-UNICEF estimate. Data were entered for each year (2014 = 79%, 2015 = 80%), not interpolated.	
Measles vaccine (MCV1)	85	-	WHO-UNICEF estimate.	91	WHO-UNICEF estimate. Data were entered for each year (2014 = 85%, 2015 = 85%), not interpolated.	
Polio vaccine	78	-	WHO-UNICEF estimate.	80	WHO-UNICEF estimate. Data were entered for each year (2014 = 79%, 2015 = 80%), not interpolated.	
Pneumococcal vaccine (PcV3)	45	-	WHO-UNICEF estimate (no national data for ratio adjustment).	80	WHO-UNICEF estimate. Data were entered for each year (2014 = 73%, 2015 = 80%), not interpolated.	
Rotavirus vaccine	N/A	-	WHO-UNICEF estimate.	76	WHO-UNICEF estimate. Data were entered for each year (2014 = N/A, 2015 = 17%), not interpolated.	
Curative	1	I			1	
ORS for diarrhea	69.8	1.26909091	RAcE 2013 baseline household survey; adjusted with ratio	69.9	RAcE 2016 endline household survey	
Antibiotics for diarrhea	27.3	_	DHS 2011	N/A	Flatlined	
Zinc for diarrhea	9.9	-	RACE 2013 baseline household survey (no national data and LiST default is '0' so could not adjust with ratio)	35.0	RACE 2016 endline household survey	
Antibiotics for cough with fast or difficult breathing	69.9	1.39243028	RAcE 2013 baseline household survey; adjusted with ratio	58.8	RAcE 2016 endline household survey	
ACT for fever same or next day	55.0	3.57142857	RAcE 2013 baseline household survey; adjusted with ratio	39.7	RAcE 2016 endline household survey	

N/A = Data not available

* The extrapolated/projected DHS value was over 100 percent, which was determined unrealistic by ICF and WHO. † WHO-UNICEF estimates of immunization coverage, which were entered for each available year from 2013 to 2016.

Table S4. Intervention coverage indicators and values used in RAcE Niger LiST analysis

	LiST	model baselin	e inputs—2013	LiST model e	ndline inputs—2016
RAcE Niger	Subnational data	Ratio	Data sources/indicator information	Subnational data	Data sources/indicator information
Demproj					
Population	994,904	5.808%	Subnational population from World Vision 2013 grant agreement letter calculated from Niger MSP data; adjusted with ratio	-	calculated by model
Total fertility rate	7.7	1.0131579	Adjusted with ratio; DHS	-	calculated by model
AIM					1
HIV incidence or prevalence	N/A		LiST default	-	calculated by model
Famplan					
Contraceptive prevalence rate (modern and traditional)	9.3	0.6690647	Adjusted with ratio; DHS	-	calculated by model
LiST					
Baseline child mortality				[
Neonatal mortality rate	28		DHS 2012	-	results calculated by model
Infant mortality rate	56		DHS 2012	-	results calculated by model
Under-five mortality rate	137		DHS 2012	-	results calculated by model
Pregnancy		•	•	•	•
Antenatal care	14.7	0.45	HMIS 2013; adjusted with ratio	17.1	HMIS 2016
Tetanus toxoid vaccine	28.2	0.57	HMIS 2013; adjusted with ratio	38.4	HMIS 2016
Intermittent preventive treatment of malaria during pregnancy	22.2	0.64	HMIS 2013; adjusted with ratio	38.3	HMIS 2016
Multiple micronutrition supplementation (iron folate 90+)	22.5	0.28	HMIS 2013; adjusted with ratio	42.5	HMIS 2016
Childbirth		•	•	•	•
Skilled birth attendance	N/A	-	set to same as institutional delivery	56.8	set same as institutional delivery
Institutional delivery	44.4	1.49	HMIS 2013; adjusted with ratio	56.8	HMIS 2016
Preventive					
Chlorohexadine for postnatal	18.8	-	no DHS data available; used HMIS 2013	18.3	HMIS 2016
Postnatal care for babies ("clean postnatal practices")	16.8	-	DHS 2012	N/A	flatlined
Vitamin A supplementation	53.5	0.899	DHS 2012; adjusted with ratio	40.4	extrapolated/projected DHS
Improved water source	48.7	0.727	DHS 2012; adjusted with ratio	62.9	extrapolated/projected DHS
Water connection in home	0.14	0.052	DHS 2012; adjusted with ratio	0.2	extrapolated/projected DHS
Improved sanitation	3.1	0.333	DHS 2012; adjusted with ratio	4.6	extrapolated/projected DHS
Hygienic disposal of child's stools	10.4	-	DHS 2012	14.8	extrapolated/projected DHS
Insecticide-treated net	63.5	_	DHS 2012	76.6	extrapolated/projected DHS

	LiST 1	nodel baseli	ne inputs—2013	LiST model e	endline inputs—2016
RAcE Niger	Subnational data	Ratio	Data sources/indicator information	Subnational data	Data sources/indicator information
BCG	37	-	WHO-UNICEF estimate.	77	WHO-UNICEF estimate. Data were entered for each year (2014 = 76%, 2015 = 77%), not interpolated.
DPT vaccine (DPT3)	67	-	WHO-UNICEF estimate.	67	WHO-UNICEF estimate. Data were entered for each year (2014 = 68%, 2015 = 65%), not interpolated.
Hib vaccine (Hib3)	67	-	WHO-UNICEF estimate.	67	WHO-UNICEF estimate. Data were entered for each year (2014 = 68%, 2015 = 65%), not interpolated.
Measles vaccine (MCV1)	76	-	WHO-UNICEF estimate.	74	WHO-UNICEF estimate. Data were entered for each year (2014 = 72%, 2015 = 73%), not interpolated.
Polio vaccine (Pol3)	56	-	WHO-UNICEF estimate.	67	WHO-UNICEF estimate. Data were entered for each year (2014 = 67%, 2015 = 65%), not interpolated.
Pneumococcal vaccine (PcV3)	n/a	-	WHO-UNICEF estimate.	64	WHO-UNICEF estimate. Data were entered for each year (2014 = 13%, 2015 = 49%), not interpolated.
Rotavirus vaccine (RotaC)	n/a	-	WHO-UNICEF estimate.	61	WHO-UNICEF estimate. Data were entered for each year (2014 = 19%, 2015 = 47%), not interpolated.
Curative					
ORS for diarrhea	61.7	1.393	2013 RAcE household survey; adjusted with ratio	78.4	2016 RAcE household survey
Antibiotics for diarrhea	6.1	0.504	used ratio HMIS	4.4	HMIS 2016
Zinc for diarrhea	30.4	N/A	2013 RAcE household survey; default LiST data at '0' so no ratio adjustment	72.6	2016 RAcE household survey
Antibiotics for cough with fast or difficult breathing	44.6	0.840	2013 RAcE household survey; adjusted with ratio	46.2	2016 RAcE household survey
ACT for fever same or next day	41.9	3.612	2013 RAcE household survey; adjusted with ratio	58.4	2016 RAcE household survey

N/A= Data not available

	В	aseline data inj	puts—2013	Endline	Endline data inputs—2016		
RAcE Abia State, Nigeria	Subnational data	Ratio	Data sources/indicator information	Subnational data	Data sources/indicator information		
DemProj							
			Project area population (in CORP catchment areas) in 2015 provided by SFH; adjusted with				
Population	1,268,738	0.90%	ratio	-	Calculated by model		
Total fertility rate	4.2	0.763636	DHS 2013; Abia State; adjusted with ratio	-	Calculated by model		
AIM					I		
HIV incidence or	NT / A		L'OT de Grade				
prevalence	N/A	-	LiST default	-	Calculated by model		
FamPlan		1					
Contraceptive prevalence rate (modern and traditional)	33.4	2.0875	DHS 2013; Abia State; Adjusted with ratio	-	Calculated by model		
LiST							
Baseline child mortality							
Neonatal mortality rate	37	-	DHS 2013; South East	-	Calculated by model		
Infant mortality rate	82	-	DHS 2013; South East	-	Calculated by model		
Under-five mortality	424						
rate	131	-	DHS 2013; South East	-	Calculated by model		
Pregnancy		1					
			DHS 2013, national-rural		Fortuge alata d (provis ata d		
Antonatal caro	38.2		estimate lowest level of	40.5	Extrapolated/ projected DHS		
Antenatal care	30.2	-	disaggregation available	40.5	Extrapolated/ projected		
Tetanus toxoid vaccine	88.7	1.832645	Adjusted with ratio	95.3	DHS		
Intermittent preventive treatment of malaria	01 7		DUC 2012		Extrapolated/ projected DHS		
during pregnancy Multiple micronutrition	21.7	-	DHS 2013	31.5	Projected value using		
supplementation	047		DUC 2012	100	trend is more than		
(iron folate 90+) Childbirth	84.7	-	DHS 2013	100	100%		
Childbirth					Entropy alate d (provis ate d		
Skilled birth attendance	77.2	-	DHS 2013	74.4	Extrapolated/ projected DHS		
Institutional delivery	72.8	-	DHS 2013	72.1	Extrapolated/ projected DHS		
Preventive		1	1				
Chlorohexidine for				~			
postnatal	N/A	-	LiST default	0	Flatlined		
Postnatal care for							
babies ("clean postnatal practices")	N/A	_	LiST default	14.0	Flatlined		
practices J	1N/ A	-	Ratio adjusted to more	14.0			
Vitamin A supplementation	65.9	1.595642	than 100%, so used 100%	88.3	Extrapolated/ projected DHS		
Improved water source	62.6	1.033003	Adjusted with ratio	62.6	Extrapolated/ projected DHS		
Water connection in							
home	na	-	LiST default	3.4	Flatlined		
Improved sanitation	42.5	1.41196	Adjusted with ratio	42.5	Extrapolated/ projected DHS		
Hygienic disposal of					Extrapolated/ projected		
child's stools	64.6	-	DHS 2013	67.1	DHS MIS 2015, flatlingd in		
Insecticide-treated net ownership (1+ net/hh)	59.6	-	DHS 2013	51.9	MIS 2015; flatlined in 2016		
Vaccines*							

Table S5. Intervention coverage indicators and values used in RAcE Abia State LiST Analysis

	B	aseline data in	puts—2013	Endline	data inputs—2016
RACE Abia State, Nigeria	Subnational data	Ratio	Data sources/indicator information	Subnational data	Data sources/indicator information
BCG	57		WHO-UNICEF estimate.	64	WHO-UNICEF estimate. Data were entered for each year (2014 = 64%, 2015 = 64%), not interpolated.
	57		wild-officer estimate.	04	WHO-UNICEF estimate. Data were entered for each year (2014 = 49%, 2015 = 49%), not
DPT vaccine (DPT3)	46	-	WHO-UNICEF estimate.	49	interpolated.
	22				WHO-UNICEF estimate. Data were entered for each year (2014 = 49%, 2015 = 49%), not
Hib vaccine (Hib3)	30	-	WHO-UNICEF estimate.	49	interpolated. WHO-UNICEF estimate.
Measles vaccine				-	Data were entered for each year (2014 = 51%, 2015 = 51%), not
(MCV1)	46	-	WHO-UNICEF estimate.	51	interpolated. WHO-UNICEF estimate.
Polio vaccine (Pol3)	46	_	WHO-UNICEF estimate.	49	Data were entered for each year (2014 = 49%, 2015 = 49%), not interpolated.
Pneumococcal vaccine	10				WHO-UNICEF estimate. Data were entered for each year (2014 = na%, 2015 = 13%), not
(PcV3)	N/A	-	WHO-UNICEF estimate.	26	interpolated.
Rotavirus vaccine (RotaC)	N/A	-	WHO-UNICEF estimate.	N/A	WHO-UNICEF estimate, indicated data were not available. Flatlined.
			Curative		I
ORS for diarrhea	31.4	0.931751	RAcE household survey 2014; adjusted with ratio	55.4	RAcE 2017 household survey
Antibiotics for diarrhea	37.6	-	DHS 2013	46.2	Extrapolated/ projected DHS
Zinc for diarrhea	7.2	3.130435	RACE household survey 2014; adjusted with ratio	42.0	RAcE 2017 household survey
Antibiotics for cough with fast or difficult breathing	8.6	0.235616	RAcE household survey 2014; adjusted with ratio	35.5	RAcE 2017 household survey
ACT for fever same or next day	15.3	2.55	RAcE household survey 2014; adjusted with ratio	38.3	RAcE 2017 household survey

N/A = Data not available *WHO-UNICEF estimates of immunization coverage, which were entered for each available year from 2013 to 2016.

RAcE Niger State,		' Model Bas	eline Inputs – 2013	LiST Mode	Endline Inputs – 2016	
Nigeria	Subnational	Ratio	Data sources/indicator	Subnational	Data sources/indicator	
DemProj	data		information	data	information	
Population	814,845	0.58%	RAcE project area population estimated by Malaria Consortium	-	Calculated by model	
Total fertility rate	6.1	1.10909	DHS 2013; Niger State; adjusted with ratio	-	Calculated by model	
AIM						
HIV incidence or prevalence	N/A	N/A	LiST default	-	Calculated by model	
FamPlan		r	DUC 2012 Nines Chats			
Contraceptive prevalence rate	6.6	0.4125	DHS 2013; Niger State; adjusted with ratio	-	Calculated by model	
LiST	L					
Baseline child mortality	/					
Neonatal mortality	35	-	DHS 2013; North Central	_	Calculated by model	
rate			-			
Infant mortality rate Under-five mortality	66	-	DHS 2013; North Central	-	Calculated by model	
rate	100	-	DHS 2013; North Central	-	Calculated by model	
Pregnancy	I		L			
Antenatal care	38.2		DHS 2013; national rural data was lowest level of disaggregation available in DHS	40.5	Extrapolated/projected DHS	
Tetanus toxoid vaccine	51.4	1.06198	Adjusted with ratio	54.8	Extrapolated/projected DHS	
Intermittent preventive treatment of malaria during pregnancy	34.5	-	DHS 2013	51.1	Extrapolated/projected DHS	
Multiple micronutrition supplementation (iron folate 90+)	76.8	-	DHS 2013	100	Extrapolated/projected DHS	
Childbirth	1					
Skilled birth	28.6	-	DHS 2013	20.1	Extrapolated/projected DH	
attendance					1 /1 /	
Institutional delivery Preventive	25.3	-	DHS 2013	15.9	Extrapolated/projected DH	
Chlorohexadine for postnatal	N/A	-	LiST default	N/A	Flatlined	
Postnatal care for babies ("clean postnatal practices")	N/A	-	LiST default	N/A	Flatlined	
Vitamin A supplementation	33.4	0.80872	Adjusted with ratio	38.0	Extrapolated/projected DHS	
Improved water source	48.1	0.79373	Adjusted with ratio	48.1	Flatlined	
Water connection in home	N/A		LiST default	N/A	Flatlined	
Improved sanitation	16.6	0.5515	Adjusted with ratio	N/A	Flatlined	
Hygienic disposal of child's stools	20.9	-	DHS 2013	13.6	Extrapolated/projected DH	
Insecticide-treated net ownership (1+ net/hh)	49.4	-	DHS 2013	61.2	MIS 2015; flatlined in 2016	
Vaccines*		1				
BCG	57	-	WHO-UNICEF estimate.	64	WHO-UNICEF estimate. Data were entered for each	

Table S6. Intervention coverage indicators and values used in RAcE Niger State LiST analysis

RAcE Niger State,	LiST	' Model Bas	eline Inputs – 2013	LiST Model Endline Inputs – 2016			
Nigeria	Subnational	Ratio	Data sources/indicator	Subnational	Data sources/indicator		
Nigeria	data	Ratio	information	data	information		
					year (2014 = 64%, 2015 =		
					64%), not interpolated.		
					WHO-UNICEF estimate.		
	46		WHO-UNICEF estimate.	49	Data were entered for each		
	40	-	who-onicer estimate.	49	year (2014 = 49%, 2015 =		
DPT vaccine (DPT3)					49%), not interpolated.		
					WHO-UNICEF estimate.		
	30		WHO-UNICEF estimate.	49	Data were entered for each		
	50	-	who-onicer estimate.	49	year (2014 = 49%, 2015 =		
Hib vaccine (Hib3)					49%), not interpolated.		
					WHO-UNICEF estimate.		
	46		WHO-UNICEF estimate.	51	Data were entered for each		
Measles vaccine	40	-	who-onicer estimate.	51	year (2014 = 51%, 2015 =		
(MCV1)					51%), not interpolated.		
					WHO-UNICEF estimate.		
	46		WHO-UNICEF estimate.	49	Data were entered for each		
	40	-	who-owich' estimate.	49	year (2014 = 49%, 2015 =		
Polio vaccine (Pol3)					49%), not interpolated.		
					WHO-UNICEF estimate.		
	N/A		WHO-UNICEF estimate.	26	Data were entered for each		
Pneumococcal	11/1	_	who-owiell estimate.	20	year (2014 = na%, 2015 =		
vaccine (PcV3)					13%), not interpolated.		
					WHO-UNICEF estimate,		
Rotavirus vaccine	N/A	-	WHO-UNICEF estimate.	N/A	indicated data were not		
(RotaC)					available. Flatlined.		
Curative							
ORS for diarrhea	68.2	2.02374	RAcE 2013 household	88.3	RAcE 2017 household		
	00.2	2.02374	survey; Adjusted with ratio	00.5	survey		
Antibiotics for	40		DHS 2013	51.1	Extrapolated/projected DHS		
diarrhea	40	_		51.1	1 /1 /		
Zinc for diarrhea	15	6.52174	RAcE 2013 household	77.0	RAcE 2017 household		
	15	0.52174	survey; Adjusted with ratio	//.0	survey		
Antibiotics for cough			RAcE 2013 household		RAcE 2017 household		
with fast or difficult	28.6	0.78356	survey; Adjusted with ratio	60.5	survey		
breathing					5		
ACT for fever same	27.4	4.56667	RAcE 2013 household	64.5	RAcE 2017 household		
or next day		4.50007	survey; Adjusted with ratio	04.5	survey		

N/A = Data not available *WHO-UNICEF estimates of immunization coverage, which were entered for each available year from 2013 to 2016.

Estimated Child Lives Saved per Year and by Treatment Interventions for Each RAcE Project Area

RACE DRC	2013	2014	2015	2016	Total	Percentage	Estimated lives saved by CHW- provided
Total lives saved among children 1–59 months (all interventions)	0	316	650	963	1,929	intervention treatment by CHWs	
Intervention		Estin	nated lives s	aved		treatmen	
ORS	0	71	143	217	431	90%	388
Zinc for treatment of diarrhea	0	24	49	75	148	95%	141
Oral antibiotics for pneumonia	0	83	163	247	493	97%	478
ACTs for treatment of malaria	0	120	245	378	743	97%	721
	-	1,728					

Table S7. Estimated child lives saved per year by treatment interventions in the DRC

Table S8. Estimated child lives saved per year by iCCM interventions in Malawi

RACE Malawi	2013*	2014	2015	2016	Total	Percentage	Estimated lives saved by CHW- provided
Total lives saved among children 1–59 months (all interventions)	189	292	395	477	1,353	intervention treatment by	
Intervention		Estim	ated lives s	CHWs	treatment		
ORS for diarrhea	0	3	6	10	19	54%	10
Zinc for diarrhea	0	7	15	23	45	52%	23
Oral antibiotics for pneumonia	0	81	167	260	508	36%	183
ACT for malaria	0	0	0	0	0	49%	0
Total lives saved by year	0	91	188	293			
	-	216					

Table S9. Estimated child lives saved per year by treatment interventions in Mozambique

RAcE Mozambique	2013*	2014	2015	2016	Total				
Total lives saved among children 1–59 months (all interventions)	0	-59	-129	-235	-423				
Treatment intervention	Estimated lives saved								
ORS	0	3	6	8	17				
Zinc for treatment of diarrhea	0	43	85	123	251				
Oral antibiotics for pneumonia	0	-149	-301	-462	-912				
ACTs	0	-273	-554	-848	-1,675				
				Total	-2,319				

RAcE Niger	2013*	2014	2015	2016	Total	Percentage	Estimated
Total lives saved among children 1–59 months (all interventions)	0	200	475	793	1,468	intervention treatment by	lives saved by CHW-
Intervention		Estin	nated lives s	CHWs	provided treatment		
ORS	0	92	188	288	568	86%	488
Zinc for treatment of diarrhea	0	29	59	91	179	89%	159
Oral antibiotics for pneumonia	0	9	18	27	54	55%	30
ACTs	0	55	109	163	327	88%	288
				Total	1,128	-	965

Table S10. Estimated child lives saved per year by treatment interventions in Niger

Table S11. Estimated number of child lives saved per year by treatment interventions in Abia State, Nigeria

RACE Abia State	2013*	2014	2015	2016	Total	Percentage intervention	Estimated lives saved by
Total lives saved among children 1–59 months (all interventions)	0	273	523	777	1,573	treatment by CHWs	CHW- provided
Intervention		Estin	nated lives s	GIIII	treatment		
ORS for treatment of diarrhea	0	60	119	178	357	59%	211
Zinc for treatment of diarrhea	0	16	33	49	98	72%	71
Oral antibiotics for treatment of pneumonia	0	81	158	233	472	74%	349
ACT for treatment of malaria	0	77	158	245	480	70%	336
				Total	1,407	-	967

Table S12. Estimated child lives saved per year by iCCM interventions in Niger State, Nigeria

RAcE Niger State, Nigeria	2013*	2014	2015	2016	Total	Percentage	Estimated lives saved by CHW- provided treatment
Total lives saved among children 1–59 months (all interventions)	0	235	474	714	1,423	intervention treatment by CHWs	
Intervention		Estin	nated lives s	aved			
ORS for treatment of diarrhea	0	46	91	136	273	85%	232
Zinc for treatment of diarrhea	0	15	29	44	88	89%	78
Oral antibiotics for treatment of pneumonia	0	68	136	203	407	78%	317
ACT for treatment of malaria	0	86	169	251	506	86%	435
	-	1,062					