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Supplementary Table 1: Trends in Bacillus Calmette-Guerin (BCG) immunization coverage in West African countries from 2000 to 2017 in percentage

Country	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Benin	92	91	90	90	89	88	93	97	96	93	90	88	96	95	96	96	96	96
Burkina Faso	81	80	90	83	99	99	99	99	99	99	99	99	96	96	98	98	98	98
Cabo Verde	96	96	97	98	99	99	99	99	99	99	99	99	99	94	99	94	96	98
Cote d'Ivoire	80	80	79	78	71	85	77	94	91	95	91	74	93	90	84	79	95	92
Gambia, The	99	99	99	99	99	99	97	97	95	94	92	90	98	98	96	98	98	94
Ghana	99	94	92	92	92	99	99	99	99	99	99	98	98	98	99	97	94	99
Guinea	81	81	80	80	79	80	81	84	87	91	93	82	77	71	66	72	72	72
Guinea Bissau	77	79	82	84	87	89	90	92	93	94	93	92	94	94	94	94	94	94
Liberia	78	73	69	64	60	76	77	77	85	87	73	85	85	87	73	74	97	87
Mali	69	75	82	74	76	83	86	86	86	84	82	84	77	70	73	73	73	73
Niger	50	53	56	58	61	64	69	73	78	86	81	53	85	41	83	88	91	91
Nigeria	44	41	38	42	45	49	52	53	65	76	62	57	51	51	51	53	53	53
Senegal	89	89	70	77	95	92	94	96	98	97	97	97	97	97	95	95	97	99
Sierra Leone	74	63	76	89	86	85	83	82	91	96	97	97	98	99	90	90	92	90
Togo	84	83	81	79	91	96	96	91	92	91	97	97	97	97	79	86	79	75
Regional Median	79.5	80.2	80.9	81.2	83.6	86.6	86.8	88.7	90.7	91.8	89.9	86.9	90.3	86.5	86.1	86.4	88.0	87.7

Data Source: Data source: WHO/UNICEF Estimates of National Immunization Coverage.

Supplementary Table 2: Trends in Diphtheria-Pertussis-Tetanus-3 (DTP3) containing vaccine coverage in West African countries from 2000 to 2017 in percentage

Country	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Benin	78	76	75	73	72	70	74	82	75	79	76	75	80	77	78	82	82	82
Burkina Faso	45	62	69	79	79	82	86	89	93	92	91	91	90	88	91	91	91	91
Cabo Verde	90	90	91	92	93	95	96	98	99	99	99	90	94	93	95	93	96	96
Cote d'Ivoire	65	66	64	61	67	76	77	76	74	81	85	62	82	75	73	80	82	84
Gambia, The	80	87	87	87	87	95	95	95	96	98	97	96	98	97	96	97	95	92
Ghana	88	79	78	80	80	84	84	94	93	94	94	91	92	90	98	88	93	99
Guinea	46	50	53	57	60	59	57	63	60	57	64	63	53	44	34	45	45	45
Guinea Bissau	49	53	57	60	64	68	71	74	77	80	83	86	87	87	87	87	87	87
Liberia	46	42	39	35	31	60	60	65	75	81	70	77	80	76	50	52	79	86
Mali	43	49	61	63	69	77	78	74	74	73	73	66	65	64	66	66	66	66
Niger	34	36	39	41	43	45	51	57	67	71	70	75	71	70	75	75	80	81
Nigeria	29	27	25	29	33	36	40	42	53	63	54	48	42	43	43	42	42	42
Senegal	52	52	60	73	87	84	89	94	88	86	89	92	91	92	89	89	93	93
Sierra Leone	44	38	53	73	65	65	64	64	77	84	86	89	91	92	83	86	84	90
Togo	64	50	59	72	71	82	84	82	81	78	83	85	84	84	87	88	89	90
Regional Median	58	60.2	64.1	67.4	68.6	73.3	74.7	77.7	79.7	81.1	80.9	79.8	80.9	79.4	77.7	78.2	80.8	82.4

Data Source: Data source: WHO/UNICEF Estimates of National Immunization Coverage.

Supplementary Table 3: Vaccination utilization (DTP1-DTP3 dropout in percentage) trends in West Africa from 2000 to 2017

Country	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Benin	11	12	12	13	13	14	15	12	16	10	11	10	9	9	8	4	4	4
Burkina Faso	52	31	20	11	11	9	5	3	4	1	2	2	4	6	4	4	4	4
Cabo Verde	4	4	4	3	3	2	2	1	0	0	0	9	4	0	4	4	0	1
Cote d'Ivoire	20	15	12	10	6	7	18	17	15	14	10	13	11	14	20	19	16	15
Gambia, The	17	10	9	10	9	0	3	3	0	0	2	3	1	2	2	2	4	1
Ghana	8	2	6	7	8	4	3	2	3	2	2	3	0	4	1	9	1	0
Guinea	15	14	15	14	15	16	18	13	4	19	22	13	17	20	24	18	18	18
Guinea Bissau	24	23	22	21	20	18	17	15	14	12	11	9	8	8	8	8	8	8
Liberia	34	34	34	34	34	15	15	15	10	9	10	9	12	21	24	25	20	13
Mali	18	29	26	28	25	19	13	15	11	9	8	14	10	5	7	7	7	7
Niger	12	12	12	12	13	12	12	11	9	10	13	11	16	18	17	14	12	12
Nigeria	13	15	18	16	13	12	9	10	10	10	6	8	9	6	5	7	7	7
Senegal	27	27	10	8	8	13	10	3	6	8	7	5	5	4	5	5	3	4
Sierra Leone	20	20	36	17	17	15	15	13	7	10	9	8	7	6	5	9	13	8
Togo	16	13	16	11	12	9	7	12	11	15	14	9	10	10	4	4	4	2
Regional Median	18.8	15.7	15.3	13.8	13.1	10.7	10.6	9.6	7.9	8.5	8.5	8.5	8.2	8.8	9.1	9.1	7.9	6.6

Data Source: Data source: WHO/UNICEF Estimates of National Immunization Coverage

Supplementary Table 4: BCG immunization coverage in percentages (%) by background characteristics among children 12-23 months across West African Countries 2005-2017

Country	Sex		Residence		Maternal Education		Wealth Quintile		Regions		Overall	Data source
	Female	Male	Rural	Urban	None	Secondary+	Poorest	Richest	Lowest	Highest		
Benin	89.4	90.1	88.5	91.5	86.0	99.5	74.9	98.2	73.7	96.9	89.8	MICS 2014
Burkina Faso	98.0	97.0	96.0	98.5	95.9	99.1	91.6	98.5	90.0	100.0	96.5	DHS 2010
Cabo Verde	96.0	97.1	93.7	99.1	88.8	100.0	*	*	75.0	100.0	96.5	DHS 2005
Cote d'Ivoire	78.6	78.1	70.3	90.4	71.6	92.9	61.5	93.2	58.2	87.3	78.3	MICS 2016
Gambia, The	98.3	99.4	99.5	98.1	99.0	98.4	99.0	97.7	95.1	100.0	98.9	DHS 2013
Ghana	97.2	96.3	96.4	97.2	93.0	99.0	95.7	98.9	92.1	100.0	96.8	DHS 2014
Guinea	69.6	73.3	62.3	88.3	65.2	95.0	45.9	92.2	52.1	92.9	71.5	MICS 2016
Guinea Bissau	93.5	93.5	91.1	97.4	90.7	98.7	89.4	89.6	87.2	99.1	93.5	MICS 2014
Liberia	94.7	93.1	90.7	96.7	89.5	98.7	86.8	98.9	78.9	97.9	93.9	DHS 2013
Mali	72.3	72.9	69.8	84.7	68.9	90.6	56.7	91.0	41.3	93.6	72.6	MICS 2015
Niger	83.9	84.1	82.1	95.1	82.3	99.4	74.9	93.2	74.6	96.1	84.0	DHS 2012
Nigeria	53.0	54.0	43.0	75.0	23.9	93.9	23.2	87.1	30.0	85.6	53.5	MICS 2016/17
Senegal	95.4	95.2	93.4	98.4	93.5	98.6	95.8	93.0	65.8	100.0	95.3	DHS 2017
Sierra Leone	96.7	96.4	96.3	96.9	96.1	98.1	96.7	97.8	91.8	100.0	96.5	MICS 2017
Togo	96.0	94.5	93.7	97.9	92.1	98.9	93.4	98.4	90.6	98.4	95.3	DHS 2013/14

+The latest available nationally representative survey data used. **DHS**= Demographic and Health Survey, **MICS**= Multiple Indicator Cluster survey. *No data reported for wealth quintile

Supplementary Table 5: DTP3-containing vaccine coverage in percentages (%) by background characteristics among children 12-23 months across West African Countries 2005-2017

Country	Sex		Residence		Maternal Education		Wealth Quintile		Regions		Overall	Data source
	Female	Male	Rural	Urban	None	Secondary+	Poorest	Richest	Lowest	Highest		
Benin	72.8	74.5	71.9	75.8	69.4	94.4	59.8	88.8	61.6	84.6	73.6	MIC 2014
Burkina Faso	88.8	90.3	89.1	91.5	88.8	93.6	83.4	92.9	88.0	93.7	89.5	DHS 2010
Cabo Verde	79.7	89.2	85	83.9	55.1	90.4	*	*	75.0	93.1	84.4	DHS 2005
Cote d'Ivoire	67.5	68.3	64.4	73.2	60.2	81.9	55.6	85.6	51.7	79.3	67.9	MICS 2016
Gambia, The	86.2	89.1	90.9	84.0	89.6	84.9	90.0	82.7	76.1	96.5	87.7	DHS 2013
Ghana	90.3	86.9	88.8	88.1	86.7	94.3	87.4	91.9	80.7	96.7	88.5	DHS 2014
Guinea	37.6	41.4	31.4	54.5	32.5	66.0	17.9	63.6	17.5	60.8	39.6	MICS 2016
Guinea Bissau	82.9	83.0	80.1	87.5	78.0	93.5	74.6	90.5	72.2	98.2	82.9	MICS 2014
Liberia	73.8	69.2	75.7	66.6	67.9	81.5	57.9	79.4	52.0	81.5	71.4	DHS 2013
Mali	56.2	54.9	52.6	67.7	51.9	79.2	39.6	76.0	21.0	80.5	55.5	MICS 2015
Niger	68.6	67.5	64.9	86.3	65.4	90.1	52.4	76.0	52.4	87.2	68.1	DHS 2012
Nigeria	34.1	32.6	25.3	50.8	8.9	73.8	10.2	63.3	13.7	66.4	33.3	MICS 2016/17
Senegal	91.9	92.0	89.6	95.8	89.4	97.3	86.9	88.8	60.2	98.8	92.0	DHS 2017
Sierra Leone	85.1	84.6	85.1	84.3	83.2	91.6	84.7	91.2	79.1	92.2	84.9	MICS 2017
Togo	81.4	84.2	81.2	85.5	75.4	88.4	84.0	90.9	75.3	95.2	82.8	DHS 2013/14

+The latest available nationally representative survey data used. **DHS**= Demographic and Health Survey, **MICS**= Multiple Indicator Cluster survey. *No data reported for wealth quintile

Supplementary Table 6: Vaccine utilization (DTP1-DTP3 dropout) in percentages by background characteristics among children 12-23 months across West African Countries 2005-2017

Countries	Sex		Residence		Maternal Education		Wealth Quintile		Regions		Overall	Data source
	Female	Male	Rural	Urban	None	Secondary+	Poorest	Richest	Lowest	Highest		
Benin	13.5	11.5	12.7	12.3	13	5.4	11.6	7.9	11.8	14.4	12.6	MIC 2014
Burkina Faso	4.9	4.7	4.9	4.7	4.8	6.4	7.3	4.3	2.4	2.5	4.7	DHS 2010
Cabo Verde	13	6.1	6.7	12.1	33.7	9.6	*	*	0	8.7	9.6	DHS 2005
Cote d'Ivoire	15.5	13.3	14	14.9	17.6	9.2	15.8	4.9	17.3	21	7.6	MICS 2016
Gambia, The	11.7	9.1	7.6	13.5	8.9	13.2	8.2	15	16.6	3.1	10.4	DHS 2013
Ghana	7	9.1	8.4	7.8	8.4	3.1	8.4	6.6	5.3	11.3	8.1	DHS 2014
Guinea	25.2	22.5	22.7	25.8	22.9	26.6	17.9	25.9	21.9	26.6	23.8	MICS 2016
Guinea Bissau	11.2	10.5	12.1	8.9	13.2	3.7	15.3	5.4	14.9	0	10.9	MICS 2014
Liberia	18.9	20.9	20.8	19.1	20.1	15.3	26.1	16.7	22.9	18.2	19.9	DHS 2013
Mali	17.1	17	17.5	14.1	16.8	9	16.5	11.1	9.8	9.4	17.1	MICS 2015
Niger	17.1	18.6	19.7	7.6	18.9	9.5	25.6	18.1	14.4	7.5	18.1	DHS 2012
Nigeria	13.6	17.2	14	18.5	10.3	18.5	9.4	19	11.6	15.2	15.4	MICS 2016/17
Senegal	4.9	4.2	6	2.2	1.1	5.7	9.5	4.3	10.5	1.8	4.5	DHS 2017
Sierra Leone	9.7	9.2	9.4	11.4	10.1	5.7	10.4	5.9	11.9	6.1	5.9	MICS 2017
Togo	12.9	7.9	9.7	11.4	13	9.3	8.6	6.7	12.9	3	10.4	DHS 2013/14

+The latest available nationally representative survey data used. **DHS**= Demographic and Health Survey, **MICS**= Multiple Indicator Cluster survey. *No data reported for wealth quintile