

**Supplementary Table S1.: Raw data**

Geopolitical zone /State	No. of confirmed COVID-19 cases <sup>1</sup>	% total COVID-19 cases	Incidence (per 100,000 population)	No. of COVID-19 deaths <sup>1</sup>	CMR (deaths/100,000)	CFR (deaths/100 confirmed cases)	% BCG vaccination (2000) <sup>2</sup>	No. Tuberculosis cases (2008) <sup>1</sup>	% Smoking prevalence <sup>3</sup>	% HIV prevalence (2017) <sup>2</sup>	% of elderly ( $\geq 65$ years) <sup>4</sup>	Population (2016) <sup>4</sup>	Population density (people km <sup>2</sup> ) <sup>4</sup>	% Literacy rates (2016 population) <sup>4</sup>	% Unemployment (2018) <sup>4</sup>	GDP per capita (2007, USD) <sup>4</sup>
<b>North-Central</b>	<b>2,861</b>	<b>11.1</b>	<b>9.8</b>	<b>65</b>	<b>2.22</b>	<b>2.3</b>	<b>58</b>	<b>19,030</b>	<b>6.9</b>	<b>3.5</b>	<b>2.0</b>	<b>29,252,408</b>	<b>191</b>	<b>64.56</b>	<b>23.8</b>	<b>1837</b>
Abuja FCT	1,870	7.3	52.5	33	9.26	1.8	63	966	5.1	3.9	0.6	3,564,126	469	78.8	24.4	3285
Plateau	382	1.5	9.1	10	2.38	2.6	62	-	6.8	3.1	2.6	4,200,442	155	63.7	29.8	1587
Kwara	217	0.8	6.8	6	1.88	2.8	70	2,726	2.7	2.4	2.3	3,192,893	89	69.7	21.1	1585
Nassarawa	213	0.8	8.4	8	3.17	3.8	51	13,079	11.5	4.4	2.1	2,523,395	88	59.2	27.4	1588
Niger	116	0.5	2.1	7	1.26	6.0	36	621	8	2.0	1.9	5,556,247	-	22.9	-	-
Benue	59	0.2	1.0	1	0.17	1.7	57	-	4.9	5.6	2.4	5,741,815	186	73.7	20.1	1592
Kogi	4	0.0	0.1	0	0.00	0.0	65	1,638	9.4	2.9	2.1	4,473,490	161	83.9	19.7	1386
<b>North-East</b>	<b>1,661</b>	<b>6.5</b>	<b>6.3</b>	<b>77</b>	<b>2.93</b>	<b>4.6</b>	<b>29</b>	<b>5,397</b>	<b>6.9</b>	<b>2.8</b>	<b>2.1</b>	<b>26,263,866</b>	<b>107</b>	<b>34.41</b>	<b>25.1</b>	<b>1157</b>
Bauchi	503	2.0	7.7	12	1.84	2.4	22	-	5.1	1.7	2.0	6,537,314	133	19.3	23.5	983
Gombe	503	2.0	15.4	19	5.83	3.8	36	702	7.3	2.4	2.0	3,256,962	190	29.1	27.0	1036
Borno	493	1.9	8.4	32	5.46	6.5	24	738	4.4	2.4	2.1	5,860,183	81	23.1	31.4	1214
Adamawa	84	0.3	2.0	6	1.41	7.1	28	2,112	5.8	2.8	2.6	4,248,436	110	55.8	20.8	1417
Yobe	59	0.2	1.8	8	2.43	13.6	26	997	3.1	1.9	2.0	3,294,137	71	7.2	29.0	843
Taraba	19	0.1	0.6	0	0.00	0.0	40	848	14.1	5.5	2.1	3,066,834	54	72.0	19.0	1446
<b>North-West</b>	<b>3,163</b>	<b>12.3</b>	<b>6.5</b>	<b>120</b>	<b>2.45</b>	<b>3.8</b>	<b>17</b>	<b>3,781</b>	<b>8.5</b>	<b>1.7</b>	<b>2.1</b>	<b>48,942,307</b>	<b>263</b>	<b>25.07</b>	<b>23.3</b>	<b>1164</b>
Kano	1,216	4.7	9.3	52	3.98	4.3	23	597	6.2	1.4	2.1	13,076,892	645	38.1	31.3	1288
Kaduna	766	3.0	9.3	12	1.45	1.6	46	2,600	9.5	3.1	2.1	8,252,366	194	47.3	26.8	1666
Katsina	557	2.2	7.1	23	2.94	4.1	23	-	7.2	1.2	2.0	7,831,319	332	10.4	14.3	1017

Jigawa	318	1.2	5.5	6	1.03	1.9	7	-	2.9	1.4	2.4	5,828,163	250	25.1	26.5	673
Sokoto	151	0.6	3.0	15	3.00	9.9	5	584	17.6	1.8	2.2	4,998,090	180	15.0	26.0	1274
Kebbi	79	0.3	1.8	7	1.58	8.9	8	-	8.8	1.5	2.0	4,440,050	120	20.5	20.1	993
Zamfara	76	0.3	1.7	5	1.11	6.6	10	-	7.4	1.3	2.1	4,515,427	119	19.2	18.0	1237
<b>South-East</b>	<b>1,062</b>	<b>4.1</b>	<b>4.3</b>	<b>26</b>	<b>1.06</b>	<b>2.4</b>	<b>80</b>	<b>6,383</b>	<b>18.4</b>	<b>4.2</b>	<b>3.0</b>	<b>24,557,208</b>	<b>860</b>	<b>90.22</b>	<b>26.7</b>	<b>2734</b>
Imo	332	1.3	6.1	6	1.11	1.8	85	-	18.5	3.8	3.1	5,408,756	1,023	96.4	28.2	3537
Abia	310	1.2	8.3	3	0.80	1.0	84	-	27	4.3	3.4	3,727,347	761	94.2	31.6	3003
Enugu	261	1.0	5.9	6	1.36	2.3	75	2,578	24.7	3.6	3.3	4,411,119	585	89.5	18.7	
Akwa Ibom	86	0.3	1.6	2	0.36	2.3	70	411	13.3	5.9	2.3	5,482,177	795	78.8	37.7	2779
Anambra	73	0.3	1.3	9	1.63	12.3	88	31	8.3	3.6	3.0	5,527,809	1,136	92.1	17.5	1615
<b>South-South</b>	<b>3,769</b>	<b>14.7</b>	<b>14.4</b>	<b>117</b>	<b>4.46</b>	<b>3.1</b>	<b>67</b>	<b>2,271</b>	<b>18.8</b>	<b>4.1</b>	<b>2.7</b>	<b>26,227,494</b>	<b>354</b>	<b>87.89</b>	<b>28.5</b>	<b>3074</b>
Edo	1,105	4.3	26.1	39	9.21	3.5	73	1,092	13.7	2.3	3.2	4,235,595	221	90.5	25.1	3623
Rivers	1,056	4.1	14.5	38	5.20	3.6	66	470	10.2	7.2	2.3	7,303,924	691	95.8	36.4	3965
Delta	965	3.8	17.0	23	4.06	2.4	73	-	28.2	2.6	3.0	5,663,362	331	87.4	25.4	3990
Ebonyi	438	1.7	15.2	3	1.04	0.7	83	199	17.7	3.2	2.7	2,880,383	450	77.8	21.1	1232
Bayelsa	205	0.8	9.0	14	6.15	6.8	42	104	26	4.7	2.5	2,277,961	251	86.8	32.6	2484
Cross river	-	-	0.0	-	-	-	67	406	17	4.8	2.3	3,866,269	177	89.0	30.6	3150
<b>South-West</b>	<b>13,178</b>	<b>51.3</b>	<b>34.4</b>	<b>185</b>	<b>4.84</b>	<b>1.4</b>	<b>83</b>	<b>23,911</b>	<b>20.6</b>	<b>2.5</b>	<b>2.6</b>	<b>38,257,260</b>	<b>909</b>	<b>87.64</b>	<b>14.3</b>	<b>2563</b>
Lagos	10,510	40.9	83.7	128	10.20	1.2	91	19,933	19.6	2.8	1.7	12,550,598	3,419	96.3	14.6	4333
Oyo	1,380	5.4	17.6	12	1.53	0.9	79		23.7	2.5	2.7	7,840,864	296	80.3	10.3	2666
Ogun	826	3.2	15.8	19	3.64	2.3	71	2,204	22.1	2.5	2.9	5,217,716	318	81.8	16.4	2740
Ondo	292	1.1	6.3	19	4.07	6.5	74	735	18.5	2.3	2.8	4,671,695	295	81.2	14.2	2392
Osun	127	0.5	2.7	5	1.06	3.9	90	-	17.5	2.5	2.7	4,705,589	521	90.6	10.1	2076
Ekiti	43	0.2	1.3	2	0.61	4.7	93	1,039	21.9	2.4	2.6	3,270,798	602	95.8	20.2	1169
<b>Nigeria</b>	<b>25,694</b>	<b>100</b>	<b>13.3</b>	<b>590</b>	<b>3.05</b>	<b>2.3</b>	<b>56</b>	<b>60,773</b>	<b>13</b>	<b>3</b>	<b>2</b>	<b>193,500,543</b>	<b>447</b>	<b>65</b>	<b>24</b>	<b>2,088</b>

1. Nigeria Centre for Diseases Control.
2. Local Burden of Disease (LBD) data set from Institute of Health Metrics, University of Washington, Seattle.
3. Unicef-Nigeria multiple indicator cluster (MIC) survey.
4. Nigeria National Bureau of Statistics.