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ca\Papers\Collaborative Papers\Review of COVID-19 Models in Africa (CDDEP)\Data\CDDEP_PAP
ER_RESULTS_DATASET\bivariate_data4.sav'.
DATASET NAME DataSet1 WINDOW=FRONT.
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  SAS DATA='C:\Users\ThaboMabuka\Google Drive\ARI Projects\Research Projects\COVID-19 in
Africa\Papers\Collaborative Papers\Review of COVID-19 Models in Africa (CDDEP)\Data\CDDEP
_PAPER_RESULTS_DATASET\bivariate_data4.sas7bdat'.
DATASET NAME DataSet2 WINDOW=FRONT.
DATASET ACTIVATE DataSet2.
DATASET CLOSE DataSet1.
SORT CASES  BY Country.
SPLIT FILE LAYERED BY Country.

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n '+
    'Africa\Papers\Collaborative Papers\Review of COVID-19 Models in Africa '+
    '(CDDEP)\Data\CDDEP_PAPER_RESULTS_DATASET\bivariate_data4.sav'
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DESCRIPTIVES VARIABLES=Daily_COVID_Test Daily_COVID_Test_Pop Daily_Positivity
  /STATISTICS=MEAN STDDEV MIN MAX.
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Descriptives

Notes

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	N of Rows in Working Data File	6033
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	Cases Used	All non-missing data are used.
Syntax		DESCRIPTIVES VARIABLES=Daily_COVID_Test Daily_COVID_Test_Pop Daily_Positivity /STATISTICS=MEAN STDDEV MIN MAX.
Resources	Processor Time	00:00:00,02
	Elapsed Time	00:00:00,02

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Descriptive Statistics

Country		N	Minimum	Maximum	Mean
Botswana	Daily COVID-19 Test	34	89.36	2596.19	560.3784
	Daily COVID-19 Tests per Population	34	.000	.001	.00024
	Daily COVID-19 Positivity Rate (%)	34	.00	.76	.0651
	Valid N (listwise)	34			
Cape Verde	Daily COVID-19 Test	213	49.48	766.71	352.9689
	Daily COVID-19 Tests per Population	213	.000	.001	.00063
	Daily COVID-19 Positivity Rate (%)	213	.00	77.08	15.5629
	Valid N (listwise)	213			
Cote d'Ivoire	Daily COVID-19 Test	249	79.13	2215.78	959.3641
	Daily COVID-19 Tests per Population	249	.000	.000	.00004
	Daily COVID-19 Positivity Rate (%)	249	-2.53	42.06	9.0047
	Valid N (listwise)	249			
Democratic Republic of Congo	Daily COVID-19 Test	235	.00	1164.30	345.6689
	Daily COVID-19 Tests per Population	235	.000	.000	.00000
	Daily COVID-19 Positivity Rate (%)	234	.00	82.62	19.0759
	Valid N (listwise)	234			
Ethiopia	Daily COVID-19 Test	276	114.96	24487.24	6341.3246
	Daily COVID-19 Tests per Population	276	.000	.000	.00006
	Daily COVID-19 Positivity Rate (%)	276	.00	23.06	6.0524
	Valid N (listwise)	276			
Ghana	Daily COVID-19 Test	222	186.44	12460.25	2342.7881
	Daily COVID-19 Tests per Population	222	.000	.000	.00008
	Daily COVID-19 Positivity Rate (%)	222	.00	69.64	10.4345
	Valid N (listwise)	222			
Kenya	Daily COVID-19 Test	176	.00	18981.27	3177.7005
	Daily COVID-19 Tests per Population	176	.000	.000	.00006

Descriptive Statistics

Country		Std. Deviation
Botswana	Daily COVID-19 Test	453.50128
	Daily COVID-19 Tests per Population	.000193
	Daily COVID-19 Positivity Rate (%)	.16432
	Valid N (listwise)	
Cape Verde	Daily COVID-19 Test	158.12539
	Daily COVID-19 Tests per Population	.000284
	Daily COVID-19 Positivity Rate (%)	10.54758
	Valid N (listwise)	
Cote d'Ivoire	Daily COVID-19 Test	484.48986
	Daily COVID-19 Tests per Population	.000018
	Daily COVID-19 Positivity Rate (%)	8.12098
	Valid N (listwise)	
Democratic Republic of Congo	Daily COVID-19 Test	207.36005
	Daily COVID-19 Tests per Population	.000002
	Daily COVID-19 Positivity Rate (%)	15.67410
	Valid N (listwise)	
Ethiopia	Daily COVID-19 Test	5158.53167
	Daily COVID-19 Tests per Population	.000045
	Daily COVID-19 Positivity Rate (%)	3.97133
	Valid N (listwise)	
Ghana	Daily COVID-19 Test	1679.76991
	Daily COVID-19 Tests per Population	.000054
	Daily COVID-19 Positivity Rate (%)	12.31412
	Valid N (listwise)	
Kenya	Daily COVID-19 Test	2237.14221
	Daily COVID-19 Tests per Population	.000042

Descriptive Statistics

Country		N	Minimum	Maximum	Mean
	Daily COVID-19 Positivity Rate (%)	175	.41	21.08	6.5770
	Valid N (listwise)	175			
Libya	Daily COVID-19 Test	240	.00	7599.64	1800.1627
	Daily COVID-19 Tests per Population	240	.000	.001	.00026
	Daily COVID-19 Positivity Rate (%)	234	.00	65.49	10.7531
	Valid N (listwise)	234			
Madagascar	Daily COVID-19 Test	65	27.69	969.19	434.1100
	Daily COVID-19 Tests per Population	65	.000	.000	.00002
	Daily COVID-19 Positivity Rate (%)	65	-.72	64.74	18.0104
	Valid N (listwise)	65			
Malawi	Daily COVID-19 Test	187	.00	1951.26	296.3609
	Daily COVID-19 Tests per Population	187	.000	.000	.00002
	Daily COVID-19 Positivity Rate (%)	178	.00	60.12	8.8819
	Valid N (listwise)	178			
Mauritania	Daily COVID-19 Test	66	.00	1041.52	318.1495
	Daily COVID-19 Tests per Population	66	.000	.000	.00007
	Daily COVID-19 Positivity Rate (%)	65	.00	129.04	9.2881
	Valid N (listwise)	65			
Morocco	Daily COVID-19 Test	298	.00	24877.72	14475.7511
	Daily COVID-19 Tests per Population	298	.000	.001	.00039
	Daily COVID-19 Positivity Rate (%)	286	.18	41.32	10.6979
	Valid N (listwise)	286			
Mozambique	Daily COVID-19 Test	271	.00	5751.00	953.1178
	Daily COVID-19 Tests per Population	271	.000	.000	.00003
	Daily COVID-19 Positivity Rate (%)	266	.00	31.99	6.3694
	Valid N (listwise)	266			

Descriptive Statistics

Country		Std. Deviation
	Daily COVID-19 Positivity Rate (%)	4.27248
	Valid N (listwise)	
Libya	Daily COVID-19 Test	1756.58612
	Daily COVID-19 Tests per Population	.000256
	Daily COVID-19 Positivity Rate (%)	11.02539
	Valid N (listwise)	
Madagascar	Daily COVID-19 Test	206.53187
	Daily COVID-19 Tests per Population	.000007
	Daily COVID-19 Positivity Rate (%)	13.25975
	Valid N (listwise)	
Malawi	Daily COVID-19 Test	261.79645
	Daily COVID-19 Tests per Population	.000014
	Daily COVID-19 Positivity Rate (%)	11.52497
	Valid N (listwise)	
Mauritania	Daily COVID-19 Test	271.00908
	Daily COVID-19 Tests per Population	.000058
	Daily COVID-19 Positivity Rate (%)	16.61610
	Valid N (listwise)	
Morocco	Daily COVID-19 Test	8585.08459
	Daily COVID-19 Tests per Population	.000233
	Daily COVID-19 Positivity Rate (%)	8.78562
	Valid N (listwise)	
Mozambique	Daily COVID-19 Test	674.16422
	Daily COVID-19 Tests per Population	.000022
	Daily COVID-19 Positivity Rate (%)	5.15327
	Valid N (listwise)	

Descriptive Statistics

Country		N	Minimum	Maximum	Mean
Namibia	Daily COVID-19 Test	215	15.25	2728.94	902.5215
	Daily COVID-19 Tests per Population	215	.000	.001	.00036
	Daily COVID-19 Positivity Rate (%)	215	.00	116.84	10.8810
	Valid N (listwise)	215			
Nigeria	Daily COVID-19 Test	143	412.28	28859.54	3419.3224
	Daily COVID-19 Tests per Population	143	.000	.000	.00002
	Daily COVID-19 Positivity Rate (%)	143	.49	123.22	15.0587
	Valid N (listwise)	143			
Rwanda	Daily COVID-19 Test	235	375.61	6864.67	2592.4260
	Daily COVID-19 Tests per Population	235	.000	.001	.00020
	Daily COVID-19 Positivity Rate (%)	235	.00	7.20	.9519
	Valid N (listwise)	235			
Senegal	Daily COVID-19 Test	303	.00	2109.74	887.8151
	Daily COVID-19 Tests per Population	303	.000	.000	.00005
	Daily COVID-19 Positivity Rate (%)	292	.00	35.83	7.2296
	Valid N (listwise)	292			
South Africa	Daily COVID-19 Test	287	.00	55987.40	22112.0155
	Daily COVID-19 Tests per Population	287	.000	.001	.00037
	Daily COVID-19 Positivity Rate (%)	284	.00	33.66	12.2071
	Valid N (listwise)	284			
Togo	Daily COVID-19 Test	296	.00	1771.65	588.2099
	Daily COVID-19 Tests per Population	296	.000	.000	.00007
	Daily COVID-19 Positivity Rate (%)	288	.00	48.32	2.4416
	Valid N (listwise)	288			
Uganda	Daily COVID-19 Test	147	.00	7958.93	2764.9968
	Daily COVID-19 Tests per Population	147	.000	.000	.00006

Descriptive Statistics

Country		Std. Deviation
Namibia	Daily COVID-19 Test	593.82056
	Daily COVID-19 Tests per Population	.000234
	Daily COVID-19 Positivity Rate (%)	13.54097
	Valid N (listwise)	
Nigeria	Daily COVID-19 Test	3160.46992
	Daily COVID-19 Tests per Population	.000015
	Daily COVID-19 Positivity Rate (%)	12.70110
	Valid N (listwise)	
Rwanda	Daily COVID-19 Test	1442.15640
	Daily COVID-19 Tests per Population	.000111
	Daily COVID-19 Positivity Rate (%)	.95443
	Valid N (listwise)	
Senegal	Daily COVID-19 Test	444.44721
	Daily COVID-19 Tests per Population	.000027
	Daily COVID-19 Positivity Rate (%)	5.02185
	Valid N (listwise)	
South Africa	Daily COVID-19 Test	13344.53573
	Daily COVID-19 Tests per Population	.000225
	Daily COVID-19 Positivity Rate (%)	8.25870
	Valid N (listwise)	
Togo	Daily COVID-19 Test	376.66912
	Daily COVID-19 Tests per Population	.000045
	Daily COVID-19 Positivity Rate (%)	3.55802
	Valid N (listwise)	
Uganda	Daily COVID-19 Test	1306.84566
	Daily COVID-19 Tests per Population	.000029

Descriptive Statistics

Country		N	Minimum	Maximum	Mean
	Daily COVID-19 Positivity Rate (%)	146	.00	45.78	6.9337
	Valid N (listwise)	146			
Zambia	Daily COVID-19 Test	252	18.38	14578.48	2176.7479
	Daily COVID-19 Tests per Population	252	.000	.001	.00012
	Daily COVID-19 Positivity Rate (%)	252	.00	110.60	6.8179
	Valid N (listwise)	252			
Zimbabwe	Daily COVID-19 Test	232	89.18	4979.08	871.7235
	Daily COVID-19 Tests per Population	232	.000	.000	.00006
	Daily COVID-19 Positivity Rate (%)	232	.00	110.77	6.6129
	Valid N (listwise)	232			

Descriptive Statistics

Country		Std. Deviation
	Daily COVID-19 Positivity Rate (%)	7.29140
	Valid N (listwise)	
Zambia	Daily COVID-19 Test	2221.54028
	Daily COVID-19 Tests per Population	.000121
	Daily COVID-19 Positivity Rate (%)	11.44738
	Valid N (listwise)	
Zimbabwe	Daily COVID-19 Test	555.98112
	Daily COVID-19 Tests per Population	.000037
	Daily COVID-19 Positivity Rate (%)	9.68578
	Valid N (listwise)	

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CORRELATIONS
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Correlations

Notes

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	Split File	Country
	N of Rows in Working Data File	6033
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	Cases Used	Statistics for each pair of variables are based on all the cases with valid data for that pair.
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Correlations

Country			Daily Confimed COVID-19 Cases
Botswana	Daily Confimed COVID-19 Cases	Pearson Correlation	1
		Sig. (2-tailed)	
		N	272
	Daily COVID-19 Test	Pearson Correlation	.015
		Sig. (2-tailed)	.931
		N	34
Cape Verde	Daily Confimed COVID-19 Cases	Pearson Correlation	1
		Sig. (2-tailed)	
		N	237
	Daily COVID-19 Test	Pearson Correlation	.550**
		Sig. (2-tailed)	.000
		N	213
Cote d'Ivoire	Daily Confimed COVID-19 Cases	Pearson Correlation	1
		Sig. (2-tailed)	
		N	262
	Daily COVID-19 Test	Pearson Correlation	.430**
		Sig. (2-tailed)	.000
		N	249
Democratic Republic of Congo	Daily Confimed COVID-19 Cases	Pearson Correlation	1
		Sig. (2-tailed)	
		N	267
	Daily COVID-19 Test	Pearson Correlation	.486**
		Sig. (2-tailed)	.000
		N	235
Ethiopia	Daily Confimed COVID-19 Cases	Pearson Correlation	1
		Sig. (2-tailed)	
		N	293
	Daily COVID-19 Test	Pearson Correlation	.885**
		Sig. (2-tailed)	.000
		N	276
Ghana	Daily Confimed COVID-19 Cases	Pearson Correlation	1
		Sig. (2-tailed)	
		N	289

Correlations

Country			Daily COVID-19 Test
Botswana	Daily Confimed COVID-19 Cases	Pearson Correlation	.015
		Sig. (2-tailed)	.931
		N	34
	Daily COVID-19 Test	Pearson Correlation	1
		Sig. (2-tailed)	
		N	34
Cape Verde	Daily Confimed COVID-19 Cases	Pearson Correlation	.550**
		Sig. (2-tailed)	.000
		N	213
	Daily COVID-19 Test	Pearson Correlation	1
		Sig. (2-tailed)	
		N	213
Cote d'Ivoire	Daily Confimed COVID-19 Cases	Pearson Correlation	.430**
		Sig. (2-tailed)	.000
		N	249
	Daily COVID-19 Test	Pearson Correlation	1
		Sig. (2-tailed)	
		N	249
Democratic Republic of Congo	Daily Confimed COVID-19 Cases	Pearson Correlation	.486**
		Sig. (2-tailed)	.000
		N	235
	Daily COVID-19 Test	Pearson Correlation	1
		Sig. (2-tailed)	
		N	235
Ethiopia	Daily Confimed COVID-19 Cases	Pearson Correlation	.885**
		Sig. (2-tailed)	.000
		N	276
	Daily COVID-19 Test	Pearson Correlation	1
		Sig. (2-tailed)	
		N	276
Ghana	Daily Confimed COVID-19 Cases	Pearson Correlation	.162*
		Sig. (2-tailed)	.016
		N	222

Correlations

Country			Daily Confimed COVID-19 Cases
	Daily COVID-19 Test	Pearson Correlation	.162*
		Sig. (2-tailed)	.016
		N	222
Kenya	Daily Confimed COVID-19 Cases	Pearson Correlation	1
		Sig. (2-tailed)	
		N	300
	Daily COVID-19 Test	Pearson Correlation	.751**
		Sig. (2-tailed)	.000
		N	176
Libya	Daily Confimed COVID-19 Cases	Pearson Correlation	1
		Sig. (2-tailed)	
		N	268
	Daily COVID-19 Test	Pearson Correlation	.711**
		Sig. (2-tailed)	.000
		N	240
Madagascar	Daily Confimed COVID-19 Cases	Pearson Correlation	1
		Sig. (2-tailed)	
		N	247
	Daily COVID-19 Test	Pearson Correlation	.605**
		Sig. (2-tailed)	.000
		N	65
Malawi	Daily Confimed COVID-19 Cases	Pearson Correlation	1
		Sig. (2-tailed)	
		N	277
	Daily COVID-19 Test	Pearson Correlation	.508**
		Sig. (2-tailed)	.000
		N	187
Mauritania	Daily Confimed COVID-19 Cases	Pearson Correlation	1
		Sig. (2-tailed)	
		N	245

Correlations

Country			Daily COVID-19 Test
	Daily COVID-19 Test	Pearson Correlation	1
		Sig. (2-tailed)	
		N	222
Kenya	Daily Confimed COVID-19 Cases	Pearson Correlation	.751**
		Sig. (2-tailed)	.000
		N	176
	Daily COVID-19 Test	Pearson Correlation	1
		Sig. (2-tailed)	
		N	176
Libya	Daily Confimed COVID-19 Cases	Pearson Correlation	.711**
		Sig. (2-tailed)	.000
		N	240
	Daily COVID-19 Test	Pearson Correlation	1
		Sig. (2-tailed)	
		N	240
Madagascar	Daily Confimed COVID-19 Cases	Pearson Correlation	.605**
		Sig. (2-tailed)	.000
		N	65
	Daily COVID-19 Test	Pearson Correlation	1
		Sig. (2-tailed)	
		N	65
Malawi	Daily Confimed COVID-19 Cases	Pearson Correlation	.508**
		Sig. (2-tailed)	.000
		N	187
	Daily COVID-19 Test	Pearson Correlation	1
		Sig. (2-tailed)	
		N	187
Mauritania	Daily Confimed COVID-19 Cases	Pearson Correlation	.788**
		Sig. (2-tailed)	.000
		N	66

Correlations

Country			Daily Confimed COVID-19 Cases
	Daily COVID-19 Test	Pearson Correlation	.788**
		Sig. (2-tailed)	.000
		N	66
Morocco	Daily Confimed COVID-19 Cases	Pearson Correlation	1
		Sig. (2-tailed)	
		N	328
	Daily COVID-19 Test	Pearson Correlation	.634**
		Sig. (2-tailed)	.000
		N	298
Mozambique	Daily Confimed COVID-19 Cases	Pearson Correlation	1
		Sig. (2-tailed)	
		N	278
	Daily COVID-19 Test	Pearson Correlation	.679**
		Sig. (2-tailed)	.000
		N	271
Namibia	Daily Confimed COVID-19 Cases	Pearson Correlation	1
		Sig. (2-tailed)	
		N	274
	Daily COVID-19 Test	Pearson Correlation	.747**
		Sig. (2-tailed)	.000
		N	215
Nigeria	Daily Confimed COVID-19 Cases	Pearson Correlation	1
		Sig. (2-tailed)	
		N	267
	Daily COVID-19 Test	Pearson Correlation	.149
		Sig. (2-tailed)	.075
		N	143
Rwanda	Daily Confimed COVID-19 Cases	Pearson Correlation	1
		Sig. (2-tailed)	
		N	268
	Daily COVID-19 Test	Pearson Correlation	.542**
		Sig. (2-tailed)	.000
		N	235

Correlations

Country			Daily COVID-19 Test
	Daily COVID-19 Test	Pearson Correlation	1
		Sig. (2-tailed)	
		N	66
Morocco	Daily Confimed COVID-19 Cases	Pearson Correlation	.634**
		Sig. (2-tailed)	.000
		N	298
	Daily COVID-19 Test	Pearson Correlation	1
		Sig. (2-tailed)	
		N	298
Mozambique	Daily Confimed COVID-19 Cases	Pearson Correlation	.679**
		Sig. (2-tailed)	.000
		N	271
	Daily COVID-19 Test	Pearson Correlation	1
		Sig. (2-tailed)	
		N	271
Namibia	Daily Confimed COVID-19 Cases	Pearson Correlation	.747**
		Sig. (2-tailed)	.000
		N	215
	Daily COVID-19 Test	Pearson Correlation	1
		Sig. (2-tailed)	
		N	215
Nigeria	Daily Confimed COVID-19 Cases	Pearson Correlation	.149
		Sig. (2-tailed)	.075
		N	143
	Daily COVID-19 Test	Pearson Correlation	1
		Sig. (2-tailed)	
		N	143
Rwanda	Daily Confimed COVID-19 Cases	Pearson Correlation	.542**
		Sig. (2-tailed)	.000
		N	235
	Daily COVID-19 Test	Pearson Correlation	1
		Sig. (2-tailed)	
		N	235

Correlations

Country			Daily Confimed COVID-19 Cases
Senegal	Daily Confimed COVID-19 Cases	Pearson Correlation	1
		Sig. (2-tailed)	
		N	307
	Daily COVID-19 Test	Pearson Correlation	.692**
		Sig. (2-tailed)	.000
		N	303
South Africa	Daily Confimed COVID-19 Cases	Pearson Correlation	1
		Sig. (2-tailed)	
		N	328
	Daily COVID-19 Test	Pearson Correlation	.898**
		Sig. (2-tailed)	.000
		N	287
Togo	Daily Confimed COVID-19 Cases	Pearson Correlation	1
		Sig. (2-tailed)	
		N	302
	Daily COVID-19 Test	Pearson Correlation	.664**
		Sig. (2-tailed)	.000
		N	296
Uganda	Daily Confimed COVID-19 Cases	Pearson Correlation	1
		Sig. (2-tailed)	
		N	198
	Daily COVID-19 Test	Pearson Correlation	.368**
		Sig. (2-tailed)	.000
		N	147
Zambia	Daily Confimed COVID-19 Cases	Pearson Correlation	1
		Sig. (2-tailed)	
		N	287
	Daily COVID-19 Test	Pearson Correlation	.055
		Sig. (2-tailed)	.389
		N	252
Zimbabwe	Daily Confimed COVID-19 Cases	Pearson Correlation	1
		Sig. (2-tailed)	
		N	239

Correlations

Country			Daily COVID-19 Test
Senegal	Daily Confimed COVID-19 Cases	Pearson Correlation	.692**
		Sig. (2-tailed)	.000
		N	303
	Daily COVID-19 Test	Pearson Correlation	1
		Sig. (2-tailed)	
		N	303
South Africa	Daily Confimed COVID-19 Cases	Pearson Correlation	.898**
		Sig. (2-tailed)	.000
		N	287
	Daily COVID-19 Test	Pearson Correlation	1
		Sig. (2-tailed)	
		N	287
Togo	Daily Confimed COVID-19 Cases	Pearson Correlation	.664**
		Sig. (2-tailed)	.000
		N	296
	Daily COVID-19 Test	Pearson Correlation	1
		Sig. (2-tailed)	
		N	296
Uganda	Daily Confimed COVID-19 Cases	Pearson Correlation	.368**
		Sig. (2-tailed)	.000
		N	147
	Daily COVID-19 Test	Pearson Correlation	1
		Sig. (2-tailed)	
		N	147
Zambia	Daily Confimed COVID-19 Cases	Pearson Correlation	.055
		Sig. (2-tailed)	.389
		N	252
	Daily COVID-19 Test	Pearson Correlation	1
		Sig. (2-tailed)	
		N	252
Zimbabwe	Daily Confimed COVID-19 Cases	Pearson Correlation	.495**
		Sig. (2-tailed)	.000
		N	232

Correlations

Country			Daily Confimed COVID-19 Cases
	Daily COVID-19 Test	Pearson Correlation	.495**
		Sig. (2-tailed)	.000
		N	232

Correlations

Country			Daily COVID-19 Test
	Daily COVID-19 Test	Pearson Correlation	1
		Sig. (2-tailed)	
		N	232

**. Correlation is significant at the 0.01 level (2-tailed).

*. Correlation is significant at the 0.05 level (2-tailed).

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NONPAR CORR
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Nonparametric Correlations

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	Weight	<none>
	Split File	Country
	N of Rows in Working Data File	6033
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each pair of variables are based on all the cases with valid data for that pair.
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Resources	Processor Time	00:00:00,00
	Elapsed Time	00:00:00,00
	Number of Cases Allowed	629145 cases[a]

a. Based on availability of workspace memory

Correlations

Country			
Botswana	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient
			Sig. (2-tailed)
			N
		Daily COVID-19 Test	Correlation Coefficient
			Sig. (2-tailed)
			N
Cape Verde	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient
			Sig. (2-tailed)
			N
		Daily COVID-19 Test	Correlation Coefficient
			Sig. (2-tailed)
			N
Cote d'Ivoire	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient
			Sig. (2-tailed)
			N
		Daily COVID-19 Test	Correlation Coefficient
			Sig. (2-tailed)
			N
Democratic Republic of Congo	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient
			Sig. (2-tailed)
			N
		Daily COVID-19 Test	Correlation Coefficient
			Sig. (2-tailed)
			N
Ethiopia	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient
			Sig. (2-tailed)
			N
		Daily COVID-19 Test	Correlation Coefficient
			Sig. (2-tailed)
			N
Ghana	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient
			Sig. (2-tailed)
			N

Correlations

Country				Daily Confimed COVID-19 Cases
Botswana	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	272
		Daily COVID-19 Test	Correlation Coefficient	.175
			Sig. (2-tailed)	.322
			N	34
Cape Verde	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	237
		Daily COVID-19 Test	Correlation Coefficient	.595**
			Sig. (2-tailed)	.000
			N	213
Cote d'Ivoire	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	262
		Daily COVID-19 Test	Correlation Coefficient	.396**
			Sig. (2-tailed)	.000
			N	249
Democratic Republic of Congo	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	267
		Daily COVID-19 Test	Correlation Coefficient	.585**
			Sig. (2-tailed)	.000
			N	235
Ethiopia	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	293
		Daily COVID-19 Test	Correlation Coefficient	.887**
			Sig. (2-tailed)	.000
			N	276
Ghana	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	289

Correlations

Country				Daily COVID-19 Test
Botswana	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	.175
			Sig. (2-tailed)	.322
			N	34
		Daily COVID-19 Test	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	34
Cape Verde	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	.595**
			Sig. (2-tailed)	.000
			N	213
		Daily COVID-19 Test	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	213
Cote d'Ivoire	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	.396**
			Sig. (2-tailed)	.000
			N	249
		Daily COVID-19 Test	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	249
Democratic Republic of Congo	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	.585**
			Sig. (2-tailed)	.000
			N	235
		Daily COVID-19 Test	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	235
Ethiopia	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	.887**
			Sig. (2-tailed)	.000
			N	276
		Daily COVID-19 Test	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	276
Ghana	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	.313**
			Sig. (2-tailed)	.000
			N	222

Correlations

Country			
		Daily COVID-19 Test	Correlation Coefficient
			Sig. (2-tailed)
			N
Kenya	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient
			Sig. (2-tailed)
			N
		Daily COVID-19 Test	Correlation Coefficient
			Sig. (2-tailed)
			N
Libya	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient
			Sig. (2-tailed)
			N
		Daily COVID-19 Test	Correlation Coefficient
			Sig. (2-tailed)
			N
Madagascar	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient
			Sig. (2-tailed)
			N
		Daily COVID-19 Test	Correlation Coefficient
			Sig. (2-tailed)
			N
Malawi	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient
			Sig. (2-tailed)
			N
		Daily COVID-19 Test	Correlation Coefficient
			Sig. (2-tailed)
			N
Mauritania	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient
			Sig. (2-tailed)
			N

Correlations

Country				Daily Confimed COVID-19 Cases
		Daily COVID-19 Test	Correlation Coefficient	.313**
			Sig. (2-tailed)	.000
			N	222
Kenya	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	300
		Daily COVID-19 Test	Correlation Coefficient	.900**
			Sig. (2-tailed)	.000
			N	176
Libya	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	268
		Daily COVID-19 Test	Correlation Coefficient	.787**
			Sig. (2-tailed)	.000
			N	240
Madagascar	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	247
		Daily COVID-19 Test	Correlation Coefficient	.571**
			Sig. (2-tailed)	.000
			N	65
Malawi	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	277
		Daily COVID-19 Test	Correlation Coefficient	.621**
			Sig. (2-tailed)	.000
			N	187
Mauritania	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	245

Correlations

Country				Daily COVID-19 Test
		Daily COVID-19 Test	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	222
Kenya	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	.900**
			Sig. (2-tailed)	.000
			N	176
		Daily COVID-19 Test	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	176
Libya	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	.787**
			Sig. (2-tailed)	.000
			N	240
		Daily COVID-19 Test	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	240
Madagascar	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	.571**
			Sig. (2-tailed)	.000
			N	65
		Daily COVID-19 Test	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	65
Malawi	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	.621**
			Sig. (2-tailed)	.000
			N	187
		Daily COVID-19 Test	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	187
Mauritania	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	.779**
			Sig. (2-tailed)	.000
			N	66

Correlations

Country			
		Daily COVID-19 Test	Correlation Coefficient
			Sig. (2-tailed)
			N
Morocco	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient
			Sig. (2-tailed)
			N
		Daily COVID-19 Test	Correlation Coefficient
			Sig. (2-tailed)
			N
Mozambique	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient
			Sig. (2-tailed)
			N
		Daily COVID-19 Test	Correlation Coefficient
			Sig. (2-tailed)
			N
Namibia	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient
			Sig. (2-tailed)
			N
		Daily COVID-19 Test	Correlation Coefficient
			Sig. (2-tailed)
			N
Nigeria	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient
			Sig. (2-tailed)
			N
		Daily COVID-19 Test	Correlation Coefficient
			Sig. (2-tailed)
			N
Rwanda	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient
			Sig. (2-tailed)
			N

Correlations

Country				Daily Confimed COVID-19 Cases
		Daily COVID-19 Test	Correlation Coefficient	.779**
			Sig. (2-tailed)	.000
			N	66
Morocco	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	328
		Daily COVID-19 Test	Correlation Coefficient	.783**
			Sig. (2-tailed)	.000
			N	298
Mozambique	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	278
		Daily COVID-19 Test	Correlation Coefficient	.811**
			Sig. (2-tailed)	.000
			N	271
Namibia	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	274
		Daily COVID-19 Test	Correlation Coefficient	.774**
			Sig. (2-tailed)	.000
			N	215
Nigeria	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	267
		Daily COVID-19 Test	Correlation Coefficient	.214*
			Sig. (2-tailed)	.010
			N	143
Rwanda	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	268

Correlations

Country				Daily COVID-19 Test
		Daily COVID-19 Test	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	66
Morocco	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	.783**
			Sig. (2-tailed)	.000
			N	298
		Daily COVID-19 Test	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	298
Mozambique	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	.811**
			Sig. (2-tailed)	.000
			N	271
		Daily COVID-19 Test	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	271
Namibia	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	.774**
			Sig. (2-tailed)	.000
			N	215
		Daily COVID-19 Test	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	215
Nigeria	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	.214*
			Sig. (2-tailed)	.010
			N	143
		Daily COVID-19 Test	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	143
Rwanda	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	.688**
			Sig. (2-tailed)	.000
			N	235

Correlations

Country			
		Daily COVID-19 Test	Correlation Coefficient
			Sig. (2-tailed)
			N
Senegal	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient
			Sig. (2-tailed)
			N
		Daily COVID-19 Test	Correlation Coefficient
			Sig. (2-tailed)
			N
South Africa	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient
			Sig. (2-tailed)
			N
		Daily COVID-19 Test	Correlation Coefficient
			Sig. (2-tailed)
			N
Togo	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient
			Sig. (2-tailed)
			N
		Daily COVID-19 Test	Correlation Coefficient
			Sig. (2-tailed)
			N
Uganda	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient
			Sig. (2-tailed)
			N
		Daily COVID-19 Test	Correlation Coefficient
			Sig. (2-tailed)
			N
Zambia	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient
			Sig. (2-tailed)
			N

Correlations

Country				Daily Confimed COVID-19 Cases
		Daily COVID-19 Test	Correlation Coefficient	.688**
			Sig. (2-tailed)	.000
			N	235
Senegal	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	307
		Daily COVID-19 Test	Correlation Coefficient	.723**
			Sig. (2-tailed)	.000
			N	303
South Africa	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	328
		Daily COVID-19 Test	Correlation Coefficient	.941**
			Sig. (2-tailed)	.000
			N	287
Togo	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	302
		Daily COVID-19 Test	Correlation Coefficient	.717**
			Sig. (2-tailed)	.000
			N	296
Uganda	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	198
		Daily COVID-19 Test	Correlation Coefficient	.294**
			Sig. (2-tailed)	.000
			N	147
Zambia	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	287

Correlations

Country				Daily COVID-19 Test
		Daily COVID-19 Test	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	235
Senegal	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	.723**
			Sig. (2-tailed)	.000
			N	303
		Daily COVID-19 Test	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	303
South Africa	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	.941**
			Sig. (2-tailed)	.000
			N	287
		Daily COVID-19 Test	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	287
Togo	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	.717**
			Sig. (2-tailed)	.000
			N	296
		Daily COVID-19 Test	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	296
Uganda	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	.294**
			Sig. (2-tailed)	.000
			N	147
		Daily COVID-19 Test	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	147
Zambia	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	.404**
			Sig. (2-tailed)	.000
			N	252

Correlations

Country			
		Daily COVID-19 Test	Correlation Coefficient
			Sig. (2-tailed)
			N
Zimbabwe	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient
			Sig. (2-tailed)
			N
		Daily COVID-19 Test	Correlation Coefficient
			Sig. (2-tailed)
			N

Correlations

Country				Daily Confimed COVID-19 Cases
		Daily COVID-19 Test	Correlation Coefficient	.404**
			Sig. (2-tailed)	.000
			N	252
Zimbabwe	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	239
		Daily COVID-19 Test	Correlation Coefficient	.632**
			Sig. (2-tailed)	.000
			N	232

Correlations

Country				Daily COVID-19 Test
		Daily COVID-19 Test	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	252
Zimbabwe	Spearman's rho	Daily Confimed COVID-19 Cases	Correlation Coefficient	.632**
			Sig. (2-tailed)	.000
			N	232
		Daily COVID-19 Test	Correlation Coefficient	1.000
			Sig. (2-tailed)	.
			N	232

**. Correlation is significant at the 0.01 level (2-tailed).

*. Correlation is significant at the 0.05 level (2-tailed).

```
UNIANOVA Daily_Cases WITH Daily_COVID_Test_Pop
 /METHOD=SSTYPE(3)
 /INTERCEPT=INCLUDE
 /PRINT MBP WHITE F BP TEST(LMATRIX) LOF HOMOGENEITY OPOWER
 /PLOT=SPREADLEVEL RESIDUALS
 /CRITERIA=ALPHA(.05)
 /DESIGN=Daily_COVID_Test_Pop.
```

```
UNIANOVA Daily_Cases WITH Daily_COVID_Test_Pop
 /METHOD=SSTYPE(3)
 /INTERCEPT=INCLUDE
 /PRINT F
 /CRITERIA=ALPHA(.05)
 /DESIGN=Daily_COVID_Test_Pop.
```

Univariate Analysis of Variance

Notes

Output Created		09-FEB-2022 19:08:19
Comments		
Input	Data	C:\Users\ThaboMabuka\Google Drive\ARI Projects\Research Projects\COVID-19 in Africa\Papers\Collaborative Papers\Review of COVID-19 Models in Africa (CDDEP)\Data\CDDEP_PAPER_RESULTS_DATASET\bivariate_data4.sav
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	Country
	N of Rows in Working Data File	6033
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data for all variables in the model.
Syntax		UNIANOVA Daily_Cases WITH Daily_COVID_Test_Pop /METHOD=SSTYPE(3) /INTERCEPT=INCLUDE /PRINT F /CRITERIA=ALPHA(.05) /DESIGN=Daily_COVID_Test_Pop.
Resources	Processor Time	00:00:00,03
	Elapsed Time	00:00:00,05

Tests for Heteroskedasticity

F Test for Heteroskedasticity[a,b,c]

Country	F	df1	df2	Sig.
Botswana	.019	1	32	.891
Cape Verde	3.689	1	211	.056
Cote d'Ivoire	35.564	1	247	.000
Democratic Republic of Congo	21.317	1	233	.000
Ethiopia	44.991	1	274	.000
Ghana	5.211	1	220	.023
Kenya	121.413	1	174	.000
Libya	76.357	1	238	.000
Madagascar	28.885	1	63	.000
Malawi	12.844	1	185	.000
Mauritania	34.815	1	64	.000
Morocco	54.998	1	296	.000
Mozambique	37.290	1	269	.000
Namibia	55.461	1	213	.000
Nigeria	1.567	1	141	.213
Rwanda	21.161	1	233	.000
Senegal	6.747	1	301	.010
South Africa	45.770	1	285	.000
Togo	17.694	1	294	.000
Uganda	11.693	1	145	.001
Zambia	.752	1	250	.387
Zimbabwe	2.325	1	230	.129

a. Dependent variable: Daily Confimed COVID-19 Cases

b. Tests the null hypothesis that the variance of the errors does not depend on the values of the independent variables.

c. Predicted values from design: Intercept + Daily_COVID_Test_Pop

Tests of Between-Subjects Effects

Dependent Variable: Daily Confimed COVID-19 Cases

Country	Source	Type III Sum of Squares	df	Mean Square
Botswana	Corrected Model	.007[a]	1	.007
	Intercept	1.488	1	1.488
	Daily_COVID_Test_Pop	.007	1	.007
	Error	27.758	32	.867
	Total	32.000	34	
	Corrected Total	27.765	33	
Cape Verde	Corrected Model	68401.519[b]	1	68401.519
	Intercept	4720.968	1	4720.968
	Daily_COVID_Test_Pop	68401.519	1	68401.519
	Error	157847.918	211	748.094
	Total	794118.000	213	
	Corrected Total	226249.437	212	
Cote d'Ivoire	Corrected Model	381947.838[c]	1	381947.838
	Intercept	1952.644	1	1952.644
	Daily_COVID_Test_Pop	381947.838	1	381947.838
	Error	1682390.002	247	6811.296
	Total	3818427.000	249	
	Corrected Total	2064337.839	248	
Democratic Republic of Congo	Corrected Model	241380.198[d]	1	241380.198
	Intercept	8558.003	1	8558.003
	Daily_COVID_Test_Pop	241380.198	1	241380.198
	Error	782526.125	233	3358.481
	Total	2025641.000	235	
	Corrected Total	1023906.323	234	
Ethiopia	Corrected Model	35147170.8[e]	1	35147170.76
	Intercept	9290.539	1	9290.539
	Daily_COVID_Test_Pop	35147170.76	1	35147170.76
	Error	9770615.540	274	35659.181
	Total	100479769.0	276	
	Corrected Total	44917786.30	275	
Ghana	Corrected Model	435339.310[f]	1	435339.310
	Intercept	1856876.219	1	1856876.219
	Daily_COVID_Test_Pop	435339.310	1	435339.310

Tests of Between-Subjects Effects

Dependent Variable: Daily Confimed COVID-19 Cases

Country	Source	F	Sig.
Botswana	Corrected Model	.008	.931
	Intercept	1.715	.200
	Daily_COVID_Test_Pop	.008	.931
	Error		
	Total		
	Corrected Total		
Cape Verde	Corrected Model	91.434	.000
	Intercept	6.311	.013
	Daily_COVID_Test_Pop	91.434	.000
	Error		
	Total		
	Corrected Total		
Cote d'Ivoire	Corrected Model	56.076	.000
	Intercept	.287	.593
	Daily_COVID_Test_Pop	56.076	.000
	Error		
	Total		
	Corrected Total		
Democratic Republic of Congo	Corrected Model	71.872	.000
	Intercept	2.548	.112
	Daily_COVID_Test_Pop	71.872	.000
	Error		
	Total		
	Corrected Total		
Ethiopia	Corrected Model	985.642	.000
	Intercept	.261	.610
	Daily_COVID_Test_Pop	985.642	.000
	Error		
	Total		
	Corrected Total		
Ghana	Corrected Model	5.921	.016
	Intercept	25.257	.000
	Daily_COVID_Test_Pop	5.921	.016

Tests of Between-Subjects Effects

Dependent Variable: Daily Confimed COVID-19 Cases

Country	Source	Type III Sum of Squares	df	Mean Square
	Error	16174540.89	220	73520.640
	Total	27265984.00	222	
	Corrected Total	16609880.20	221	
Kenya	Corrected Model	5824520.15[g]	1	5824520.153
	Intercept	6959.490	1	6959.490
	Daily_COVID_Test_Pop	5824520.153	1	5824520.153
	Error	4505139.278	174	25891.605
	Total	21171234.00	176	
	Corrected Total	10329659.43	175	
Libya	Corrected Model	14468437.3[h]	1	14468437.29
	Intercept	50833.980	1	50833.980
	Daily_COVID_Test_Pop	14468437.29	1	14468437.29
	Error	14148612.69	238	59447.952
	Total	46505102.00	240	
	Corrected Total	28617049.98	239	
Madagascar	Corrected Model	240966.175[i]	1	240966.175
	Intercept	21548.865	1	21548.865
	Daily_COVID_Test_Pop	240966.175	1	240966.175
	Error	417346.041	63	6624.540
	Total	1142671.000	65	
	Corrected Total	658312.215	64	
Malawi	Corrected Model	98015.553[j]	1	98015.553
	Intercept	559.981	1	559.981
	Daily_COVID_Test_Pop	98015.553	1	98015.553
	Error	282487.163	185	1526.958
	Total	533507.000	187	
	Corrected Total	380502.717	186	
Mauritania	Corrected Model	62790.173[k]	1	62790.173
	Intercept	975.982	1	975.982
	Daily_COVID_Test_Pop	62790.173	1	62790.173
	Error	38264.266	64	597.879
	Total	162573.000	66	
	Corrected Total	101054.439	65	

Tests of Between-Subjects Effects

Dependent Variable: Daily Confimed COVID-19 Cases

Country	Source	F	Sig.
	Error		
	Total		
	Corrected Total		
Kenya	Corrected Model	224.958	.000
	Intercept	.269	.605
	Daily_COVID_Test_Pop	224.958	.000
	Error		
	Total		
	Corrected Total		
Libya	Corrected Model	243.380	.000
	Intercept	.855	.356
	Daily_COVID_Test_Pop	243.380	.000
	Error		
	Total		
	Corrected Total		
Madagascar	Corrected Model	36.375	.000
	Intercept	3.253	.076
	Daily_COVID_Test_Pop	36.375	.000
	Error		
	Total		
	Corrected Total		
Malawi	Corrected Model	64.190	.000
	Intercept	.367	.546
	Daily_COVID_Test_Pop	64.190	.000
	Error		
	Total		
	Corrected Total		
Mauritania	Corrected Model	105.022	.000
	Intercept	1.632	.206
	Daily_COVID_Test_Pop	105.022	.000
	Error		
	Total		
	Corrected Total		

Tests of Between-Subjects Effects

Dependent Variable: Daily Confimed COVID-19 Cases

Country	Source	Type III Sum of Squares	df	Mean Square
Morocco	Corrected Model	307951550.8[l]	1	307951550.8
	Intercept	5617900.784	1	5617900.784
	Daily_COVID_Test_Pop	307951550.8	1	307951550.8
	Error	458949977.1	296	1550506.679
	Total	1391250256	298	
	Corrected Total	766901527.9	297	
Mozambique	Corrected Model	522716.724[m]	1	522716.724
	Intercept	2014.820	1	2014.820
	Daily_COVID_Test_Pop	522716.724	1	522716.724
	Error	609514.081	269	2265.852
	Total	2346339.000	271	
	Corrected Total	1132230.804	270	
Namibia	Corrected Model	1756463.38[n]	1	1756463.378
	Intercept	68478.390	1	68478.390
	Daily_COVID_Test_Pop	1756463.378	1	1756463.378
	Error	1392155.254	213	6535.940
	Total	5526770.000	215	
	Corrected Total	3148618.633	214	
Nigeria	Corrected Model	159740.991[o]	1	159740.991
	Intercept	7602543.195	1	7602543.195
	Daily_COVID_Test_Pop	159740.991	1	159740.991
	Error	6997774.366	141	49629.605
	Total	27442020.00	143	
	Corrected Total	7157515.357	142	
Rwanda	Corrected Model	86450.045[p]	1	86450.045
	Intercept	2707.985	1	2707.985
	Daily_COVID_Test_Pop	86450.045	1	86450.045
	Error	207405.929	233	890.154
	Total	472318.000	235	
	Corrected Total	293855.974	234	
Senegal	Corrected Model	361057.768[q]	1	361057.768
	Intercept	2596.637	1	2596.637
	Daily_COVID_Test_Pop	361057.768	1	361057.768

Tests of Between-Subjects Effects

Dependent Variable: Daily Confimed COVID-19 Cases

Country	Source	F	Sig.
Morocco	Corrected Model	198.613	.000
	Intercept	3.623	.058
	Daily_COVID_Test_Pop	198.613	.000
	Error		
	Total		
	Corrected Total		
Mozambique	Corrected Model	230.693	.000
	Intercept	.889	.347
	Daily_COVID_Test_Pop	230.693	.000
	Error		
	Total		
	Corrected Total		
Namibia	Corrected Model	268.739	.000
	Intercept	10.477	.001
	Daily_COVID_Test_Pop	268.739	.000
	Error		
	Total		
	Corrected Total		
Nigeria	Corrected Model	3.219	.075
	Intercept	153.186	.000
	Daily_COVID_Test_Pop	3.219	.075
	Error		
	Total		
	Corrected Total		
Rwanda	Corrected Model	97.118	.000
	Intercept	3.042	.082
	Daily_COVID_Test_Pop	97.118	.000
	Error		
	Total		
	Corrected Total		
Senegal	Corrected Model	276.633	.000
	Intercept	1.989	.159
	Daily_COVID_Test_Pop	276.633	.000

Tests of Between-Subjects Effects

Dependent Variable: Daily Confimed COVID-19 Cases

Country	Source	Type III Sum of Squares	df	Mean Square
	Error	392861.843	301	1305.189
	Total	1938326.000	303	
	Corrected Total	753919.611	302	
South Africa	Corrected Model	3504305599[r]	1	3504305599
	Intercept	390017444.2	1	390017444.2
	Daily_COVID_Test_Pop	3504305599	1	3504305599
	Error	841994198.6	285	2954365.609
	Total	7945241189	287	
	Corrected Total	4346299798	286	
Togo	Corrected Model	13391.554[s]	1	13391.554
	Intercept	240.779	1	240.779
	Daily_COVID_Test_Pop	13391.554	1	13391.554
	Error	16957.081	294	57.677
	Total	74376.000	296	
	Corrected Total	30348.635	295	
Uganda	Corrected Model	1029339.296[t]	1	1029339.296
	Intercept	3391.431	1	3391.431
	Daily_COVID_Test_Pop	1029339.296	1	1029339.296
	Error	6551504.880	145	45182.792
	Total	12827674.00	147	
	Corrected Total	7580844.177	146	
Zambia	Corrected Model	8788.142[u]	1	8788.142
	Intercept	681042.556	1	681042.556
	Daily_COVID_Test_Pop	8788.142	1	8788.142
	Error	2946317.128	250	11785.269
	Total	4513964.000	252	
	Corrected Total	2955105.270	251	
Zimbabwe	Corrected Model	289489.169[v]	1	289489.169
	Intercept	497.775	1	497.775
	Daily_COVID_Test_Pop	289489.169	1	289489.169
	Error	892120.262	230	3878.784
	Total	1968334.000	232	
	Corrected Total	1181609.431	231	

Tests of Between-Subjects Effects

Dependent Variable: Daily Confimed COVID-19 Cases

Country	Source	F	Sig.
	Error		
	Total		
	Corrected Total		
South Africa	Corrected Model	1186.145	.000
	Intercept	132.014	.000
	Daily_COVID_Test_Pop	1186.145	.000
	Error		
	Total		
	Corrected Total		
Togo	Corrected Model	232.181	.000
	Intercept	4.175	.042
	Daily_COVID_Test_Pop	232.181	.000
	Error		
	Total		
	Corrected Total		
Uganda	Corrected Model	22.782	.000
	Intercept	.075	.784
	Daily_COVID_Test_Pop	22.782	.000
	Error		
	Total		
	Corrected Total		
Zambia	Corrected Model	.746	.389
	Intercept	57.788	.000
	Daily_COVID_Test_Pop	.746	.389
	Error		
	Total		
	Corrected Total		
Zimbabwe	Corrected Model	74.634	.000
	Intercept	.128	.720
	Daily_COVID_Test_Pop	74.634	.000
	Error		
	Total		
	Corrected Total		

a. R Squared = ,000 (Adjusted R Squared = -,031)

b. R Squared = ,302 (Adjusted R Squared = ,299)

c. R Squared = ,185 (Adjusted R Squared = ,182)

d. R Squared = ,236 (Adjusted R Squared = ,232)

e. R Squared = ,782 (Adjusted R Squared = ,782)

f. R Squared = ,026 (Adjusted R Squared = ,022)

g. R Squared = ,564 (Adjusted R Squared = ,561)

h. R Squared = ,506 (Adjusted R Squared = ,504)

i. R Squared = ,366 (Adjusted R Squared = ,356)

j. R Squared = ,258 (Adjusted R Squared = ,254)

k. R Squared = ,621 (Adjusted R Squared = ,615)

l. R Squared = ,402 (Adjusted R Squared = ,400)

m. R Squared = ,462 (Adjusted R Squared = ,460)

n. R Squared = ,558 (Adjusted R Squared = ,556)

o. R Squared = ,022 (Adjusted R Squared = ,015)

p. R Squared = ,294 (Adjusted R Squared = ,291)

q. R Squared = ,479 (Adjusted R Squared = ,477)

r. R Squared = ,806 (Adjusted R Squared = ,806)

s. R Squared = ,441 (Adjusted R Squared = ,439)

t. R Squared = ,136 (Adjusted R Squared = ,130)

u. R Squared = ,003 (Adjusted R Squared = -,001)

v. R Squared = ,245 (Adjusted R Squared = ,242)