

The REG Procedure
Model: MODEL1
Dependent Variable: new_case_rate_percent

Number of Observations Read	539
Number of Observations Used	539

Analysis of Variance

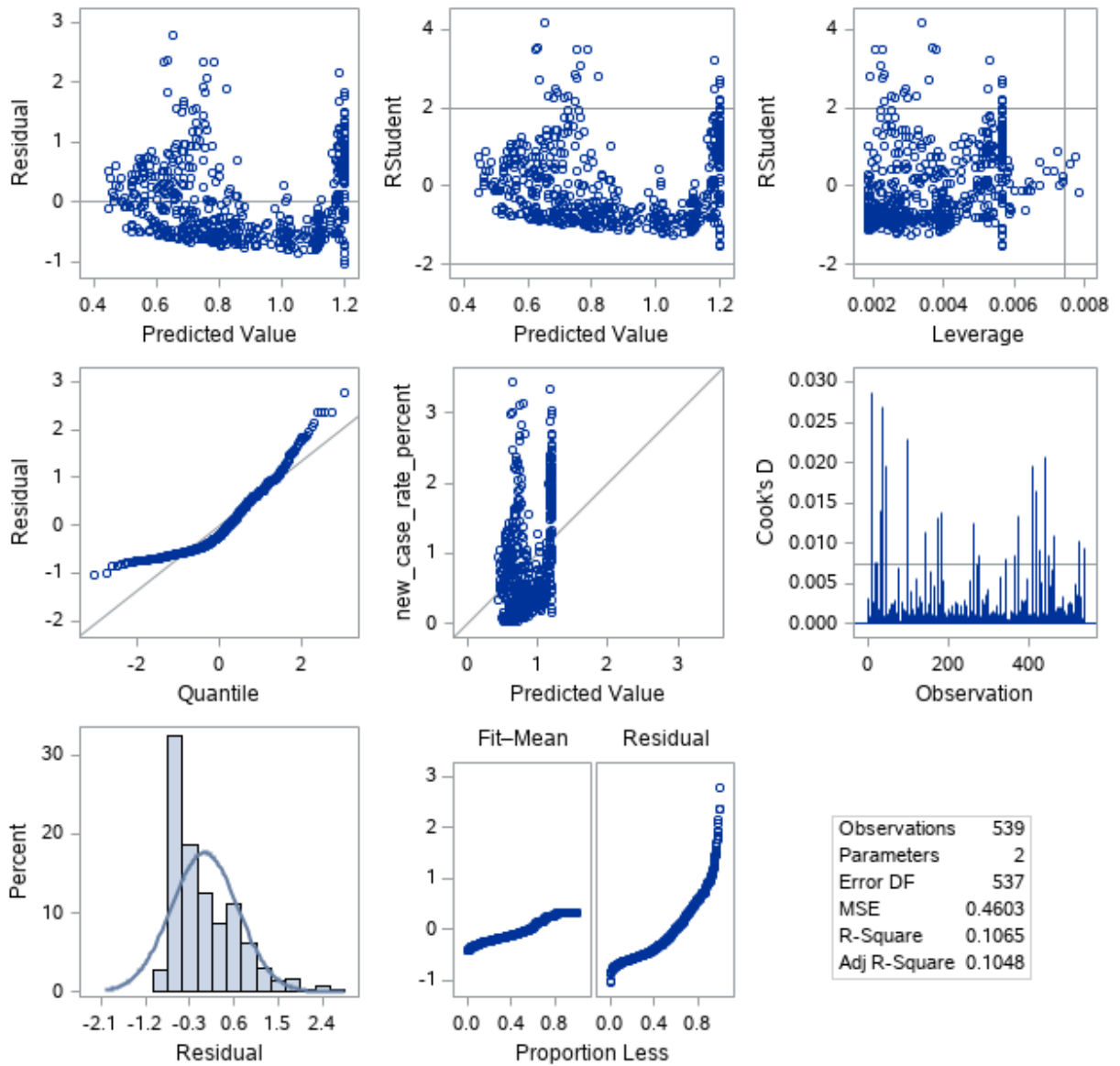
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	29.46565	29.46565	64.02	<.0001
Error	537	247.17463	0.46029		
Corrected Total	538	276.64028			
Root MSE	0.67845	R-Square	0.1065		
Dependent Mean	0.86465	Adj R-Sq	0.1048		
Coeff Var	78.46428				

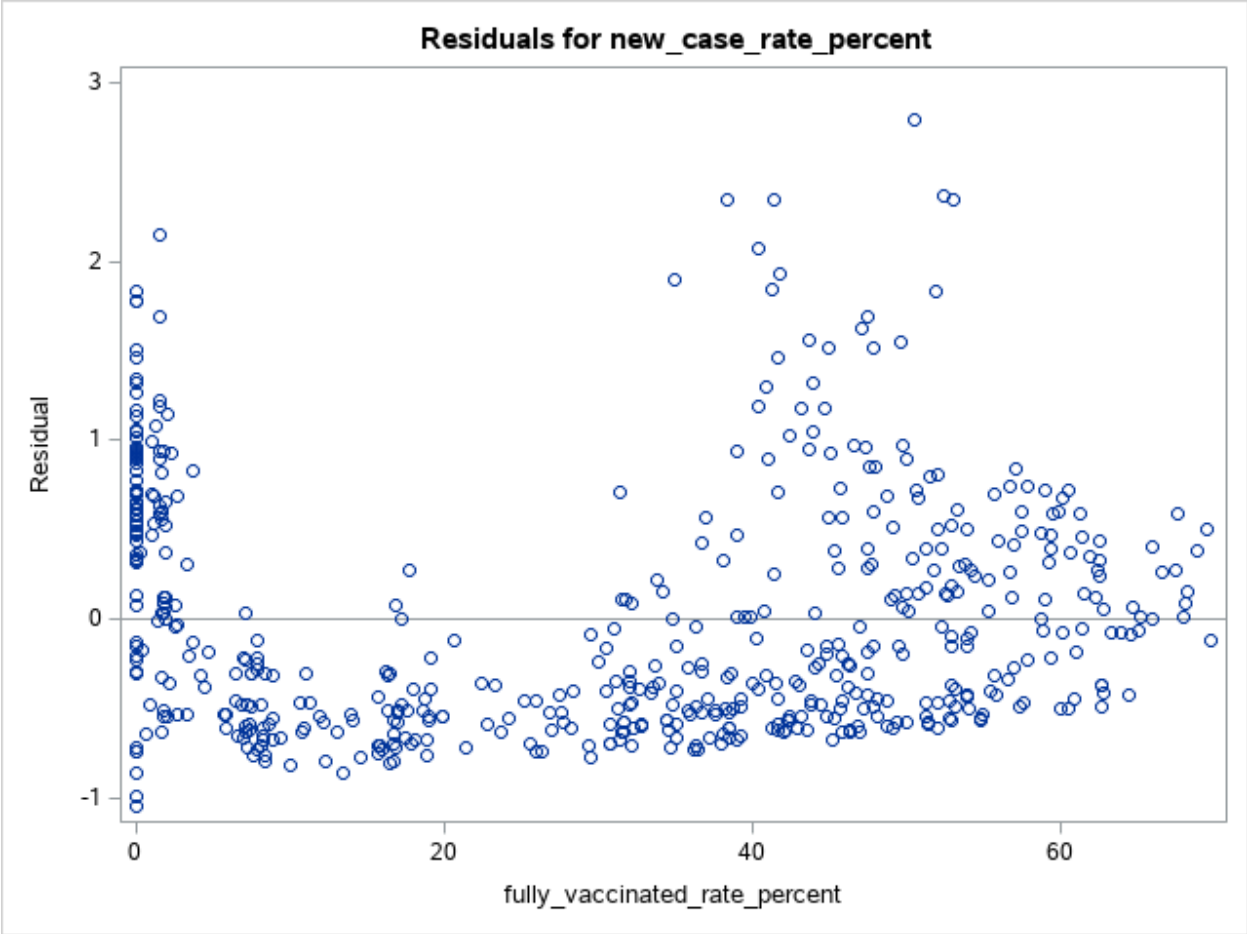
Parameter Estimates

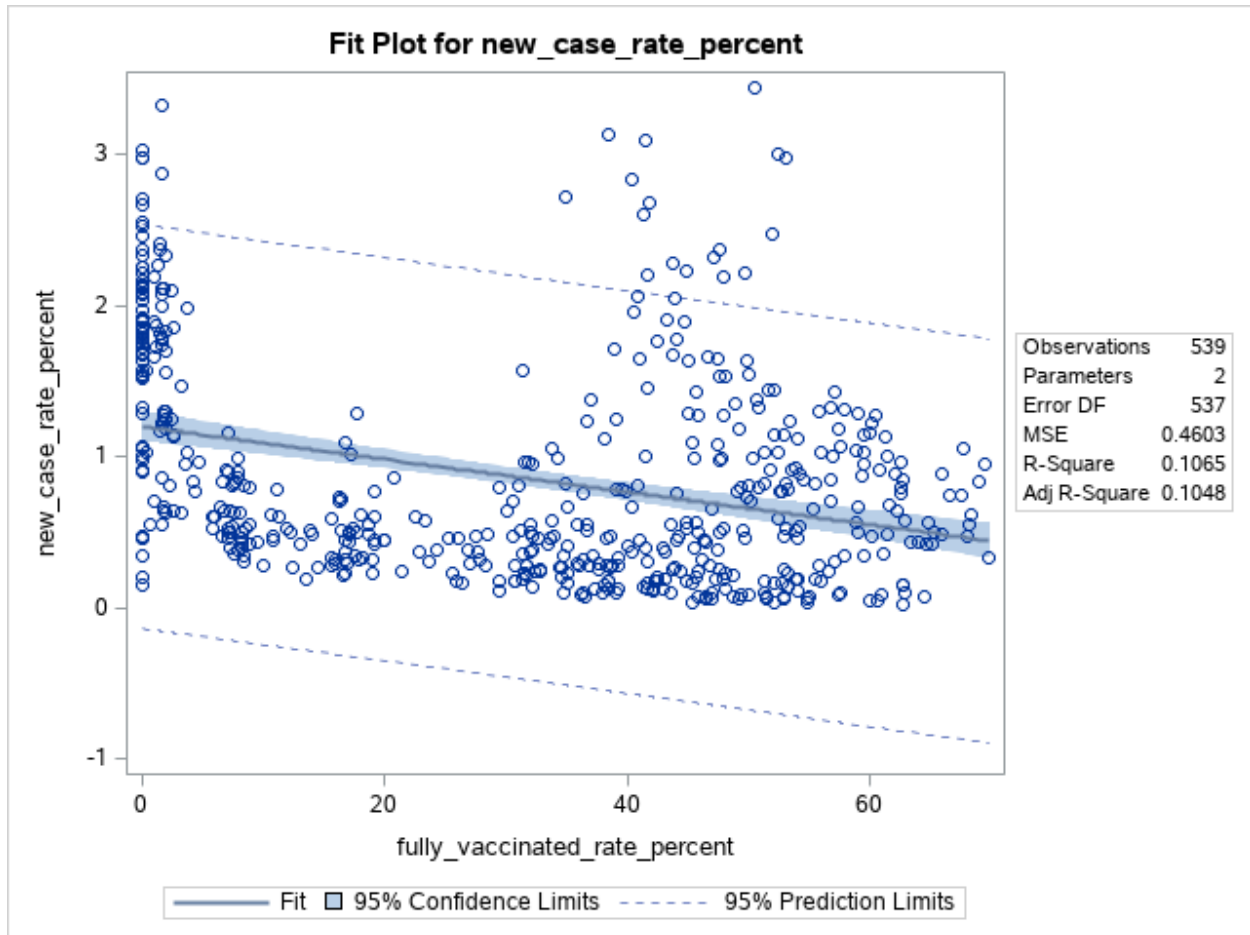
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	1.19949	0.05104	23.50	<.0001
fully_vaccinated_rate_percent	1	-0.01083	0.00135	-8.00	<.0001

The REG Procedure
Model: MODEL1
Dependent Variable: new_case_rate_percent

Fit Diagnostics for new_case_rate_percent





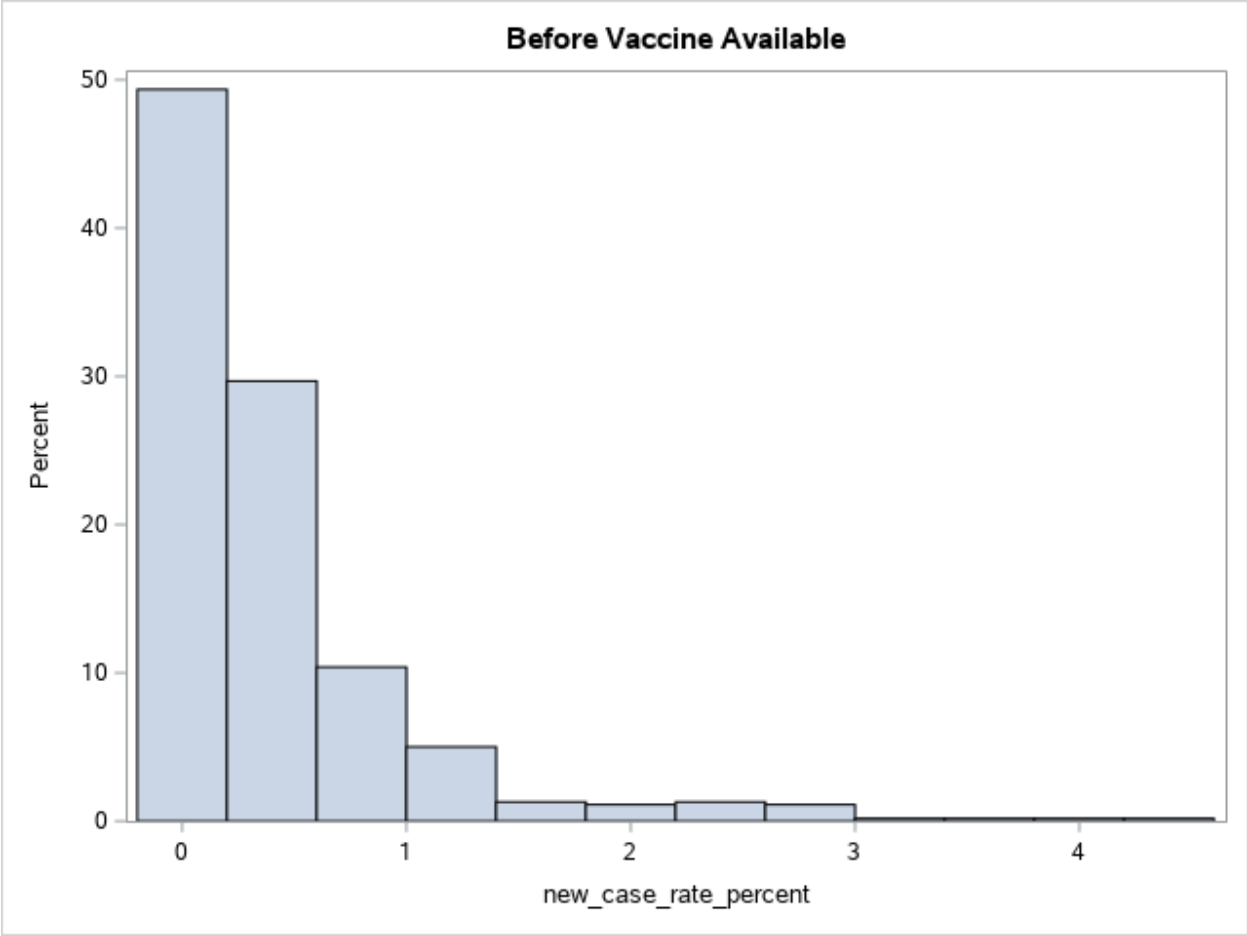


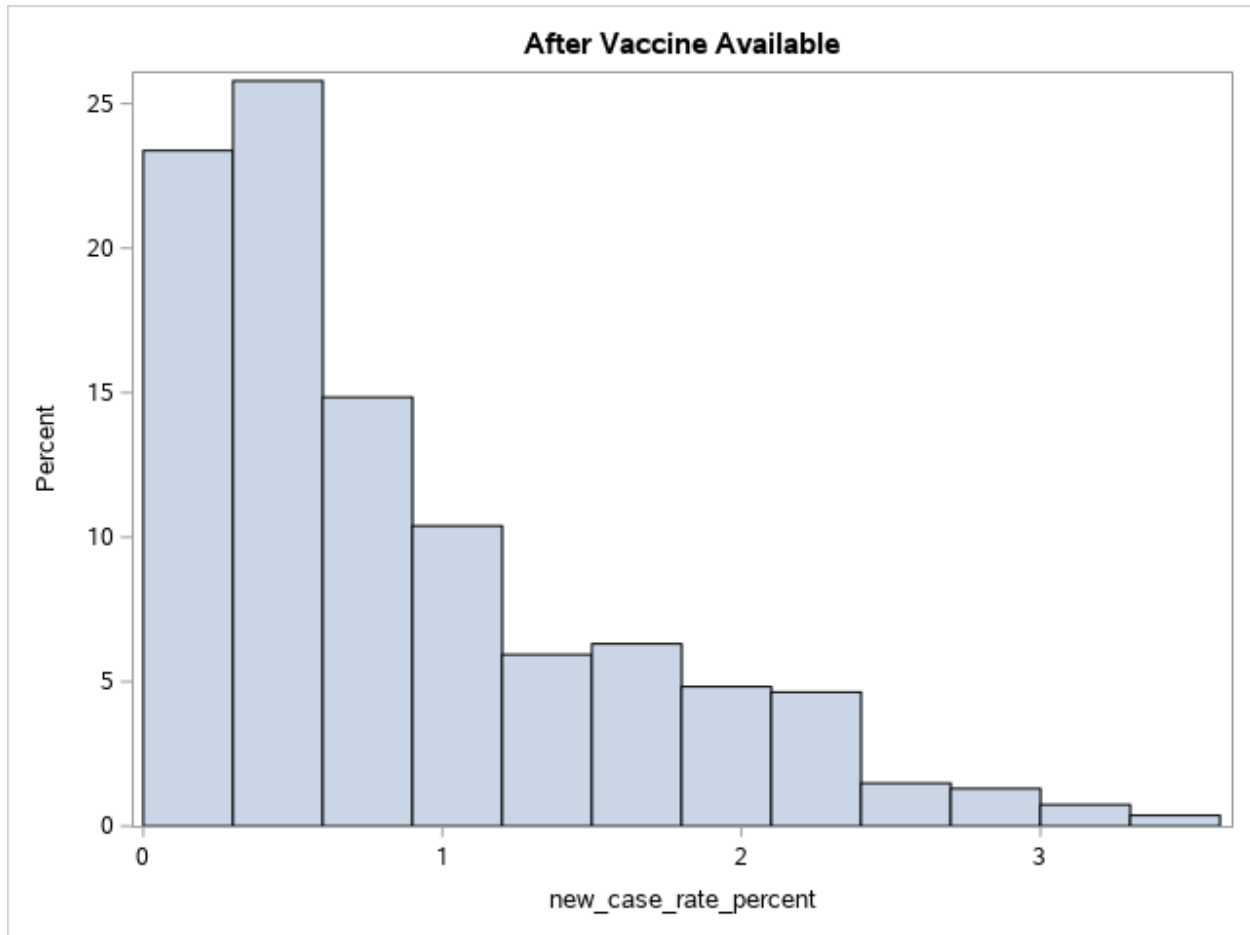
The MEANS Procedure

month	N Obs	Variable	Std Dev	Mean
20-01	49	new_case_rate_percent	0.000025691	4.6796232E-6
		new_death_rate_percent	0	0
20-02	49	new_case_rate_percent	0.000200143	0.000051203
		new_death_rate_percent	3.4180466E-6	7.7428289E-7
20-03	49	new_case_rate_percent	0.0436509	0.0430506
		new_death_rate_percent	0.0012885	0.0010174
20-04	49	new_case_rate_percent	0.2206704	0.2192816
		new_death_rate_percent	0.0161207	0.0120132

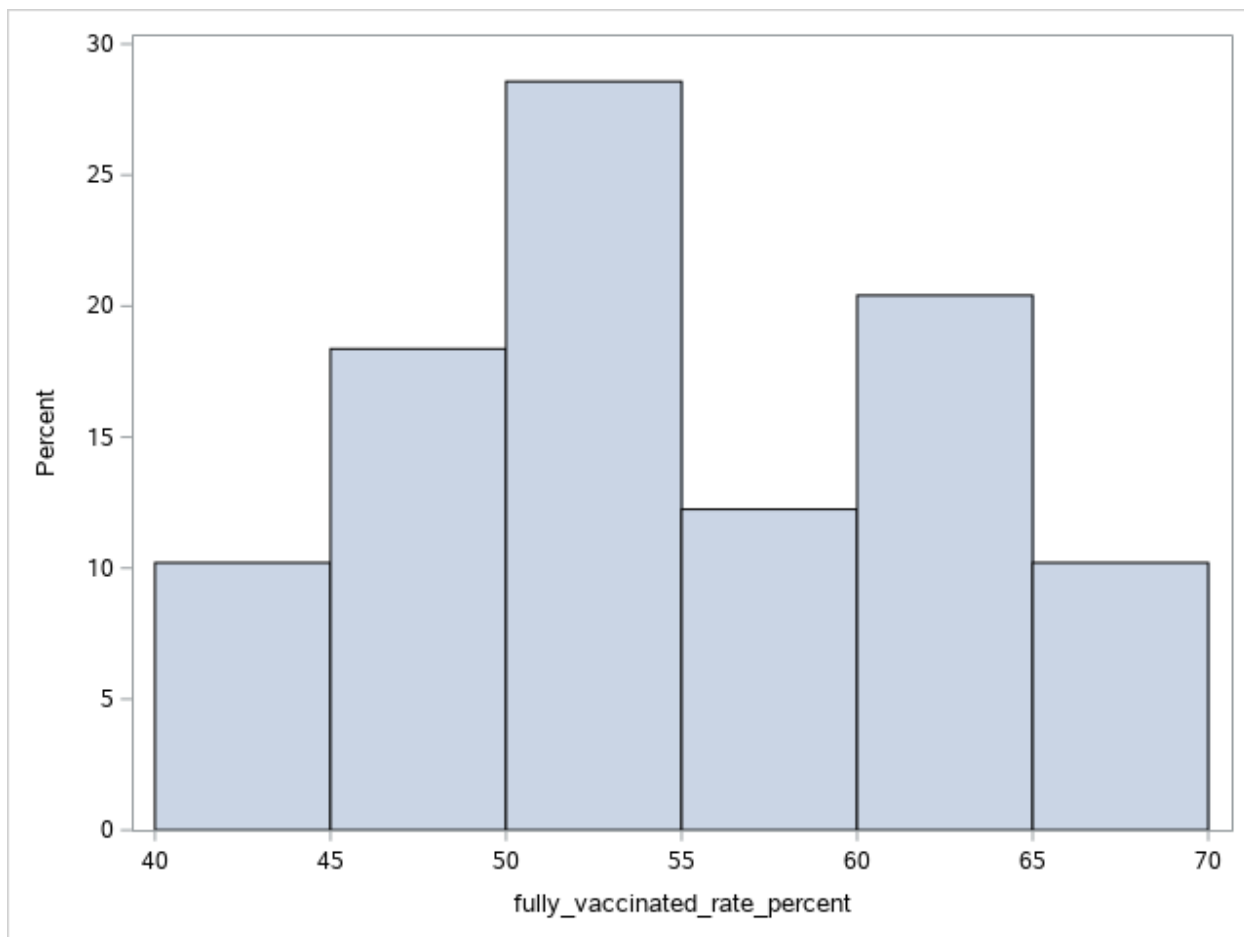
month	N Obs	Variable	Std Dev	Mean
20-05	49	new_case_rate_percent	0.1513629	0.2188304
		new_death_rate_percent	0.0122495	0.0112353
20-06	49	new_case_rate_percent	0.1583585	0.2348704
		new_death_rate_percent	0.0041954	0.0056339
20-07	49	new_case_rate_percent	0.3659906	0.4883821
		new_death_rate_percent	0.0070773	0.0070958
20-08	49	new_case_rate_percent	0.2182805	0.3980471
		new_death_rate_percent	0.0065045	0.0074000
20-09	49	new_case_rate_percent	0.2556934	0.4147673
		new_death_rate_percent	0.0042299	0.0061750
20-10	49	new_case_rate_percent	0.5806056	0.7860898
		new_death_rate_percent	0.0062581	0.0086989
20-11	49	new_case_rate_percent	0.9525782	1.7132582
		new_death_rate_percent	0.0116928	0.0165960
20-12	49	new_case_rate_percent	0.5528120	1.9157149
		new_death_rate_percent	0.0124951	0.0288628
21-01	49	new_case_rate_percent	0.5906240	1.6115385
		new_death_rate_percent	0.0119467	0.0270337
21-02	49	new_case_rate_percent	0.2066676	0.6222629
		new_death_rate_percent	0.0080082	0.0145738
21-03	49	new_case_rate_percent	0.2228607	0.5033505
		new_death_rate_percent	0.0037639	0.0073915
21-04	49	new_case_rate_percent	0.2791528	0.5379624

month	N Obs	Variable	Std Dev	Mean
		new_death_rate_percent	0.0030524	0.0048631
21-05	49	new_case_rate_percent	0.0999289	0.2753937
		new_death_rate_percent	0.0021633	0.0040812
21-06	49	new_case_rate_percent	0.0797702	0.1251203
		new_death_rate_percent	0.0012026	0.0026749
21-07	49	new_case_rate_percent	0.3273475	0.3882812
		new_death_rate_percent	0.0021941	0.0027549
21-08	49	new_case_rate_percent	0.7556476	1.2433628
		new_death_rate_percent	0.0090247	0.0091745
21-09	49	new_case_rate_percent	0.6293651	1.3785252
		new_death_rate_percent	0.0098716	0.0153337
21-10	49	new_case_rate_percent	0.5349099	0.9096919
		new_death_rate_percent	0.0081717	0.0126066





The MEANS Procedure								
indicator	N Obs	Variable	N	Mean	Median	Std Dev	Minimum	Maximum
≥ 50% vaccination rate	14	new_case_rate_percent	14	1.0515463	0.6900666	0.6867853	0.3799468	2.2169753
		new_death_rate_percent	14	0.0193878	0.0156363	0.0108914	0.0062135	0.0411994
< 50% vaccination rate	35	new_case_rate_percent	35	0.8529502	0.8400238	0.4604348	0.3276257	3.0001732
		new_death_rate_percent	35	0.0098941	0.0093434	0.0047337	0.0028808	0.0195296



The UNIVARIATE Procedure
Variable: new_case_rate_percent
indicator= \geq 50% vaccination rate

Moments			
N	14	Sum Weights	14
Mean	1.05154626	Sum Observations	14.7216476
Std Deviation	0.68678533	Variance	0.4716741
Skewness	0.71149645	Kurtosis	-1.4381054
Uncorrected SS	21.6122567	Corrected SS	6.13176325
Coeff Variation	65.3119471	Std Error Mean	0.1835511

Basic Statistical Measures			
Location		Variability	
Mean	1.051546	Std Deviation	0.68679
Median	0.690067	Variance	0.47167
Mode	.	Range	1.83703
		Interquartile Range	1.25672

Tests for Location: $\mu_0=0$				
Test		Statistic	p Value	
Student's t	t	5.728902	Pr > t	<.0001
Sign	M	7	Pr >= M	0.0001
Signed Rank	S	52.5	Pr >= S	0.0001

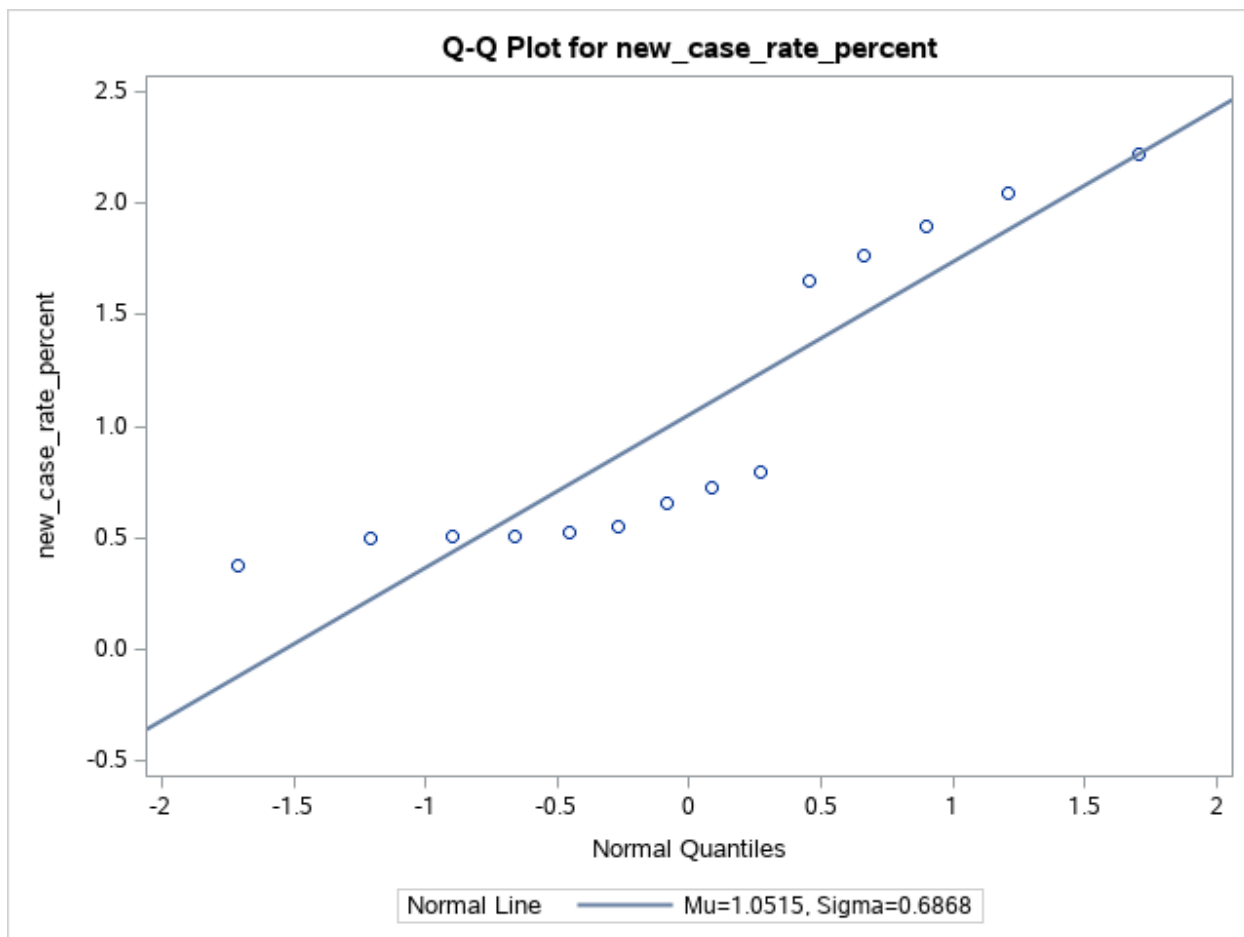
Tests for Normality				
Test		Statistic	p Value	
Shapiro-Wilk	W	0.792704	Pr < W	0.0041
Kolmogorov-Smirnov	D	0.288733	Pr > D	<0.0100
Cramer-von Mises	W-Sq	0.249011	Pr > W-Sq	<0.0050
Anderson-Darling	A-Sq	1.333107	Pr > A-Sq	<0.0050

Quantiles (Definition 5)	
Level	Quantile
100% Max	2.216975
99%	2.216975
95%	2.216975

Quantiles (Definition 5)	
Level	Quantile
90%	2.045762
75% Q3	1.765749
50% Median	0.690067
25% Q1	0.509024
10%	0.499548
5%	0.379947
1%	0.379947
0% Min	0.379947

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.379947	6	1.65149	13
0.499548	8	1.76575	4
0.505550	3	1.89489	10
0.509024	7	2.04576	14
0.528204	2	2.21698	9

The UNIVARIATE Procedure
indicator= \geq 50% vaccination rate



The UNIVARIATE Procedure
Variable: new_case_rate_percent
indicator=< 50% vaccination rate

Moments			
N	35	Sum Weights	35
Mean	0.85295015	Sum Observations	29.8532553
Std Deviation	0.4604348	Variance	0.2120002
Skewness	2.99151696	Kurtosis	13.6499645
Uncorrected SS	32.6713456	Corrected SS	7.20800694
Coeff Variation	53.9814429	Std Error Mean	0.07782769

Basic Statistical Measures			
Location		Variability	
Mean	0.852950	Std Deviation	0.46043
Median	0.840024	Variance	0.21200
Mode	.	Range	2.67255
		Interquartile Range	0.47391

Tests for Location: $\mu_0=0$				
Test		Statistic		p Value
Student's t	t	10.95947	Pr > t	<.0001
Sign	M	17.5	Pr >= M	<.0001
Signed Rank	S	315	Pr >= S	<.0001

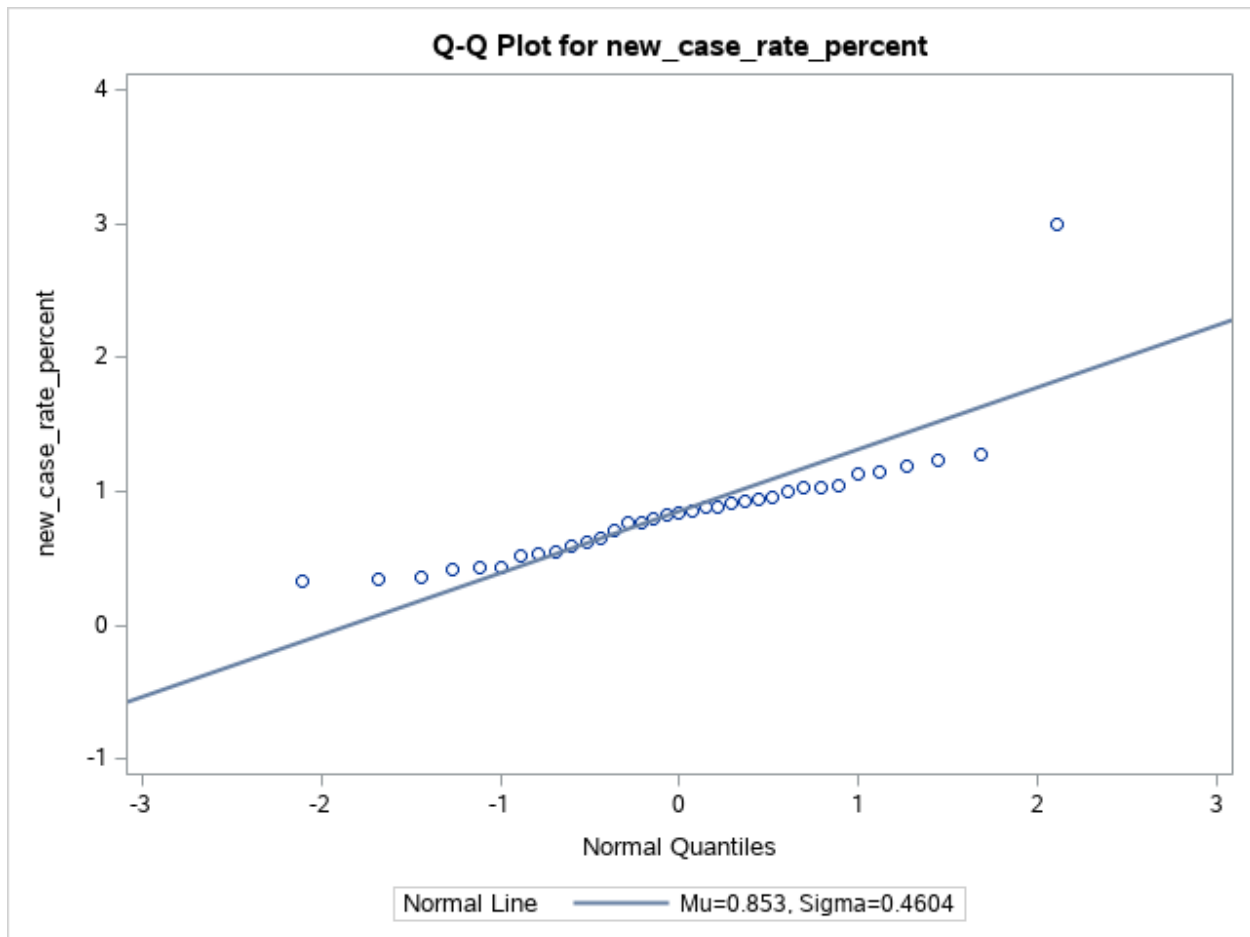
Tests for Normality				
Test		Statistic		p Value
Shapiro-Wilk	W	0.728165	Pr < W	<0.0001
Kolmogorov-Smirnov	D	0.169038	Pr > D	0.0123
Cramer-von Mises	W-Sq	0.231043	Pr > W-Sq	<0.0050
Anderson-Darling	A-Sq	1.749596	Pr > A-Sq	<0.0050

Quantiles (Definition 5)	
Level	Quantile
100% Max	3.000173
99%	3.000173
95%	1.281680

Quantiles (Definition 5)	
Level	Quantile
90%	1.181275
75% Q3	1.022706
50% Median	0.840024
25% Q1	0.548797
10%	0.419169
5%	0.340702
1%	0.327626
0% Min	0.327626

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.327626	19	1.14857	29
0.340702	21	1.18127	49
0.356867	17	1.23451	45
0.419169	27	1.28168	30
0.433221	37	3.00017	15

The UNIVARIATE Procedure
indicator=< 50% vaccination rate



The NPAR1WAY Procedure					
Wilcoxon Scores (Rank Sums) for Variable new_case_rate_percent Classified by Variable indicator					
indicator	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
N	14	354.0	350.0	45.184806	25.285714
Y	35	871.0	875.0	45.184806	24.885714

Wilcoxon Two-Sample Test							
Statistic (S)	Z	Pr > Z	Pr > Z	t Approximation		Exact	
				Pr > Z	Pr > Z	Pr >= S	Pr >= S-Mean
Z includes a continuity correction of 0.5.							
354.0000	0.0775	0.4691	0.9383	0.4693	0.9386	0.4695	0.9390

Kruskal-Wallis Test		
Chi-Square	DF	Pr > ChiSq
0.0078	1	0.9295

