

Execution Environment

Author: T.O.Akinwole@edu.salford.ac.uk
File: File: /Users/T.O.Akinwole@edu.salford.ac.uk/My Folder/Mortality/Mortality.sas
SAS Platform: Linux LIN X64 3.10.0-862.9.1.el7.x86_64 #1 SMP Mon Jul 16 16:29:36 UTC 2018 x86_64 CentOS Linux release 7.5.1804 (Core)
SAS Host: pdcesx23104
SAS Version: V.03.05M0P111119
SAS Client: SAS® Studio 5.2
SAS Locale: English
Submission Time: 10 Jan 2022, 12:13:48
Time Zone: GMT-00:00
User Agent: Chrome 96.0.4664.110

Code: Mortality.sas

```
/* Generated Code (IMPORT) */  
/* Source File: mortality.csv */  
/* Source Path: /Users/T.O.Akinwole@edu.salford.ac.uk/My Folder/Mortality/mortality.csv */  
/* Code generated on: 16 Dec 2021, 18:11:00 */  
  
proc sql;  
%if %sysfunc(exist(WORK.IMPORT)) %then %do;  
    drop table WORK.IMPORT;  
%end;  
%if %sysfunc(exist(WORK.IMPORT,VIEW)) %then %do;  
    drop view WORK.IMPORT;  
%end;  
quit;  
  
FILENAME REFFILE FILESRVC FOLDERPATH='/Users/T.O.Akinwole@edu.salford.ac.uk/My Folder/Mortality' FILENAME='mortality.csv';  
  
PROC IMPORT DATAFILE=REFFILE  
DBMS=CSV  
OUT=WORK.MORTALITY;  
GUESSINGROWS=MAX;  
GETNAMES=YES;  
RUN;  
  
PROC CONTENTS DATA=WORK.MORTALITY; RUN;  
  
proc means data=work.mortality mean sum maxdec=2;  
run;  
PROC MEANS DATA=work.mortality  
MEAN STD MEDIAN  
kurtosis  
skewness  
P5 P75  
maxdec=3  
MIN  
MAX ;  
VAR "Birth rate, crude"N  
"Death rate, crude"N  
"Mortality rate, adult, female"N  
"Mortality rate, adult, male"N  
"Mortality rate, infant"N  
"Mortality rate, infant, female"N  
"Mortality rate, infant, male"N  
"Mortality rate, neonatal"N  
"Mortality rate, under-5"N  
"Mortality rate, under-5, female"N  
"Mortality rate, under-5, male"N  
"Probability of dying ages 10-14"N  
"Probability of dying ages 15-19"N  
"Probability of dying ages 5-9"N  
"Probability of dying ages 20-24";  
FREQ Time ;  
RUN;  
  
proc univariate data=mortality;  
var "Birth rate, crude"  
"Death rate, crude"  
"Mortality rate, adult, female"  
"Mortality rate, adult, male"  
"Mortality rate, infant"  
"Mortality rate, infant, female"  
"Mortality rate, infant, male"  
"Mortality rate, neonatal"  
"Mortality rate, under-5"  
"Mortality rate, under-5, female"  
"Mortality rate, under-5, male"  
"Probability of dying ages 10-14"  
"Probability of dying ages 15-19"  
"Probability of dying ages 5-9"  
"Probability of dying ages 20-24";  
run;  
%LET INTERVAL= "Death rate, crude"  
"Mortality rate, adult, female"  
"Mortality rate, infant, female"  
"Mortality rate, under-5, female";  
proc sgscatter data=mortality;  
plot "Birth rate, crude"N * (&interval) / reg;  
run;
```

```
%LET INTERVAL2="Birth rate, crude"N
  "Death rate, crude"N
  "Mortality rate, adult, female"N
  "Mortality rate, infant, female"N
  "Mortality rate, under-5, female"N;
ods graphics;

proc glm data=mortality plots=diagnostics;
class 'Country Name'n;
model &interval2='Country Name'n;
means 'Country Name'n / hovtest=levene;
format 'Country Name'n $Time.;

run;
quit;
ods graphics / reset=all imagemap;
proc corr data=mortality rank
plots(only)=scatter(nvar=all ellipse=none);
var &interval;
with "Birth rate, crude"N;
run;
proc corr data=mortality;
run;
ods graphics;
proc reg data=mortality;
model "Birth rate, crude"N=&interval;
run;
```

PROC TTEST data=mortality;

VAR "Birth rate, crude"N
 "Death rate, crude"N
 "Mortality rate, adult, female"N
 "Mortality rate, adult, male"N
 "Mortality rate, infant"N
 "Mortality rate, infant, female"N
 "Mortality rate, infant, male"N
 "Mortality rate, neonatal"N
 "Mortality rate, under-5"N
 "Mortality rate, under-5, female"N
 "Mortality rate, under-5, male"N
 "Probability of dying ages 10-14"N
 "Probability of dying ages 15-19"N
 "Probability of dying ages 5-9"N
 "Probability of dying ages 20-24"N;

run;
quit;

Log: Mortality.sas

```
1   %studio_hide_wrapper;
2   %studio_show_only_notes_wrapper;
NOTE: ODS statements in the SAS Studio environment may disable some output features.
85  /* Generated Code (IMPORT) */
86  /* Source File: mortality.csv */
87  /* Source Path: /Users/T.O.Akinwole@edu.salford.ac.uk/My Folder/Mortality/mortality.csv */
88  /* Code generated on: 16 Dec 2021, 18:11:00 */
89
90  proc sql;
91  %if %sysfunc(exist(WORK.IMPORT)) %then %do;
92    drop table WORK.IMPORT;
93  %end;
94  %if %sysfunc(exist(WORK.IMPORT,VIEW)) %then %do;
95    drop view WORK.IMPORT;
96  %end;
97  quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time            0.00 seconds
      cpu time             0.00 seconds
98
99
100 FILENAME REFFILE FILESRVC FOLDERPATH='/Users/T.O.Akinwole@edu.salford.ac.uk/My Folder/Mortality'  FILENAME='mortality.csv';
102
103 PROC IMPORT DATAFILE=REFFILE
104 DBMS=CSV
105 OUT=WORK.MORTALITY;
106 GUESSINGROWS=MAX;
107 GETNAMES=YES;
108 RUN;
```

NOTE: Import cancelled. Output dataset WORK.MORTALITY already exists. Specify REPLACE option to overwrite it.
 NOTE: The SAS System stopped processing this step because of errors.
 NOTE: PROCEDURE IMPORT used (Total process time):
 real time 0.00 seconds
 cpu time 0.00 seconds

```

109
110 PROC CONTENTS DATA=WORK.MORTALITY; RUN;
NOTE: PROCEDURE CONTENTS used (Total process time):
      real time       0.03 seconds
      cpu time       0.03 seconds

NOTE: The PROCEDURE CONTENTS printed page 88.
111
112 proc means data=work.mortality mean sum maxdec=2;
113 run;
NOTE: There were 625 observations read from the data set WORK.MORTALITY.
NOTE: The PROCEDURE MEANS printed page 89.
NOTE: PROCEDURE MEANS used (Total process time):
      real time       0.02 seconds
      cpu time       0.03 seconds

```

```

114 PROC MEANS DATA=work.mortality
115 MEAN STD MEDIAN
116 kurtosis
117 skewness
118 P5 P75
119 maxdec=3
120 MIN
121 MAX ;
122 VAR "Birth rate, crude"N
123     "Death rate, crude"N
124     "Mortality rate, adult, female"N
125     "Mortality rate, adult, male"N
126     "Mortality rate, infant"N
127     "Mortality rate, infant, female"N
128     "Mortality rate, infant, male"N
129     "Mortality rate, neonatal"N
130     "Mortality rate, under-5"N
131     "Mortality rate, under-5, female"N
132     "Mortality rate, under-5, male"N
133     "Probability of dying ages 10-14"N
134     "Probability of dying ages 15-19"N
135     "Probability of dying ages 5-9"N
136     "Probability of dying ages 20-24"N;
137 FREQ Time ;
138 RUN;

```

NOTE: There were 625 observations read from the data set WORK.MORTALITY.
 NOTE: The PROCEDURE MEANS printed page 90.

```

NOTE: PROCEDURE MEANS used (Total process time):
      real time       0.05 seconds
      cpu time       0.06 seconds

```

```

139
140 proc univariate data=mortality;
141 var"Birth rate, crude"
142     "Death rate, crude"N
143     "Mortality rate, adult, female"N
144     "Mortality rate, adult, male"N
145     "Mortality rate, infant"N
146     "Mortality rate, infant, female"N
147     "Mortality rate, infant, male"N
148     "Mortality rate, neonatal"N
149     "Mortality rate, under-5"N
150     "Mortality rate, under-5, female"N
151     "Mortality rate, under-5, male"N
152     "Probability of dying ages 10-14"N
153     "Probability of dying ages 15-19"N
154     "Probability of dying ages 5-9"N
155     "Probability of dying ages 20-24"N;
156 run;

```

NOTE: The PROCEDURE UNIVARIATE printed pages 91-120.

```

NOTE: PROCEDURE UNIVARIATE used (Total process time):
      real time       0.40 seconds
      cpu time       0.41 seconds

```

```

157 %LET INTERVAL= "Death rate, crude"N
158     "Mortality rate, adult, female"N
159     "Mortality rate, infant, female"N
160     "Mortality rate, under-5, female";
161 proc sgscatter data=mortality;
162 plot   "Birth rate, crude"N * (&interval) / reg;
163 run;

```

NOTE: PROCEDURE SGSCATTER used (Total process time):

```

      real time       0.27 seconds
      cpu time       0.12 seconds

```

NOTE: HTML data tips have been disabled for at least one plot because the threshold has been reached. You can set TIPMAX=700 in the ODS GRAPHICS statement to produce data tips for all plots.

NOTE: Listing image output written to
 /opt/sas/v4e050/config/var/tmp/compsrv/default/38fb743e-858a-4f6d-b22d-83f0630f4942/SAS_work889A0000DFFD_pdcesx23104/SGScatter.png.

NOTE: There were 625 observations read from the data set WORK.MORTALITY.

```

164
165 %LET INTERVAL2="Birth rate, crude"N

```

```

166      "Death rate, crude"N
167      "Mortality rate, adult, female"N
168      "Mortality rate, infant, female"N
169      "Mortality rate, under-5, female"N;
170 ods graphics;
171
172 proc glm data=mortality plots=diagnostics;
173   class 'Country Name'n;
174   model &interval2='Country Name'n;
175   means 'Country Name'n / hovtest=levene;
176   format 'Country Name'n $Time.;
177
178 run;
NOTE: HTML data tips have been disabled for at least one plot because the threshold has been reached. You can set TIPMAX=700 in the ODS GRAPHICS statement to produce data tips for all plots.
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179 quit;
NOTE: The PROCEDURE GLM printed pages 121-129.
NOTE: PROCEDURE GLM used (Total process time):
      real time          4.39 seconds
      cpu time          2.48 seconds

180 ods graphics / reset=all imagemap;
181 proc corr data=mortality rank
182   plots(only)=scatter(nvar=all ellipse=None);
183   var &interval;
184   with "Birth rate, crude"N;
185 run;
NOTE: HTML data tips have been disabled for at least one plot because the threshold has been reached. You can set TIPMAX=700 in the ODS GRAPHICS statement to produce data tips for all plots.
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NOTE: The PROCEDURE CORR printed page 130.
NOTE: PROCEDURE CORR used (Total process time):
      real time          0.61 seconds
      cpu time          0.33 seconds

186 proc corr data=mortality;
187 run;
NOTE: The PROCEDURE CORR printed pages 131-133.
NOTE: PROCEDURE CORR used (Total process time):
      real time          0.20 seconds
      cpu time          0.21 seconds

188 ods graphics;
189 proc reg data=mortality;
190   model "Birth rate, crude"N=&interval;
191 run;
NOTE: HTML data tips have been disabled for at least one plot because the threshold has been reached. You can set TIPMAX=700 in the ODS GRAPHICS statement to produce data tips for all plots.
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192
NOTE: The PROCEDURE REG printed page 134.
NOTE: PROCEDURE REG used (Total process time):
      real time          0.80 seconds
      cpu time          0.39 seconds

193 PROC TTTEST data=mortality;
194 VAR "Birth rate, crude"
195      "Death rate, crude"N
196      "Mortality rate, adult, female"N
197      "Mortality rate, adult, male"N
198      "Mortality rate, infant"N
199      "Mortality rate, infant, female"N
200      "Mortality rate, infant, male"N
201      "Mortality rate, neonatal"N
202      "Mortality rate, under-5"N
203      "Mortality rate, under-5, female"N
204      "Mortality rate, under-5, male"N
205      "Probability of dying ages 10-14"N
206      "Probability of dying ages 15-19"N
207      "Probability of dying ages 5-9"N
208      "Probability of dying ages 20-24"N;
209 run;
NOTE: HTML data tips have been disabled for at least one plot because the threshold has been reached. You can set TIPMAX=700 in the ODS GRAPHICS statement to produce data tips for all plots.
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```

ODS GRAPHICS statement to produce data tips for all plots.

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NOTE: The PROCEDURE TTEST printed pages 135-139.

NOTE: PROCEDURE TTEST used (Total process time):

real time	7.21 seconds
cpu time	4.73 seconds

```
210 quit;
211
212
213
214
215 %studio_hide_wrapper;
226
227
```

Results: Mortality.sas

The CONTENTS Procedure

Data Set Name	WORK.MORTALITY	Observations	625
Member Type	DATA	Variables	19
Engine	V9	Indexes	0
Created	10/01/2022 12:06:03	Observation Length	152
Last Modified	10/01/2022 12:06:03	Deleted Observations	0
Protection		Compressed	NO
Data Set Type		Sorted	NO
Label			
Data Representation	SOLARIS_X86_64, LINUX_X86_64, ALPHA_TRU64, LINUX_IA64, LINUX_POWER_64		
Encoding	utf-8 Unicode (UTF-8)		

Engine/Host Dependent Information

Data Set Page Size	65536
Number of Data Set Pages	2
First Data Page	1
Max Obs per Page	430
Obs in First Data Page	400

Engine/Host Dependent Information

Number of Data Set Repairs	0
Filename	/opt/sas/v4e050/config/var/tmp/compsrv/default/38fb743e-858a-4f6d-b22d-83f0630f4942/SAS_work889A0000DFFD_pdcesx23104/mortality.sas7bdat
Release Created	V.0305M0
Host Created	Linux
Inode Number	2168495708
Access Permission	rw-r--r--
Owner Name	T.O.Akinwole@edu.salford.ac.uk
File Size	192KB
File Size (bytes)	196608

Alphabetic List of Variables and Attributes

#	Variable	Type	Len	Format	Information
5	Birth rate, crude	Num	8	BEST12.	BEST32.
2	Country Code	Char	3	\$3.	\$3.
1	Country Name	Char	14	\$14.	\$14.
6	Death rate, crude	Num	8	BEST12.	BEST32.
7	Mortality rate, adult, female	Num	8	BEST12.	BEST32.
8	Mortality rate, adult, male	Num	8	BEST12.	BEST32.
9	Mortality rate, infant	Num	8	BEST12.	BEST32.
10	Mortality rate, infant, female	Num	8	BEST12.	BEST32.
11	Mortality rate, infant, male	Num	8	BEST12.	BEST32.
12	Mortality rate, neonatal	Num	8	BEST12.	BEST32.
13	Mortality rate, under-5	Num	8	BEST12.	BEST32.
14	Mortality rate, under-5, female	Num	8	BEST12.	BEST32.
15	Mortality rate, under-5, male	Num	8	BEST12.	BEST32.
18	Probability of dying ages 5-9	Num	8	BEST12.	BEST32.
16	Probability of dying ages 10-14	Num	8	BEST12.	BEST32.
17	Probability of dying ages 15-19	Num	8	BEST12.	BEST32.
19	Probability of dying ages 20-24	Num	8	BEST12.	BEST32.
3	Time	Num	8	BEST12.	BEST32.
4	Time Code	Char	6	\$6.	\$6.

The MEANS Procedure

Variable	Mean	Sum
Time	2005.00	1253125.00
Birth rate, crude	14.04	8775.44
Death rate, crude	8.96	5600.87
Mortality rate, adult, female	77.44	48398.39
Mortality rate, adult, male	140.86	88038.19
Mortality rate, infant	12.72	7949.30
Mortality rate, infant, female	11.76	7346.90
Mortality rate, infant, male	13.64	8524.00
Mortality rate, neonatal	8.39	5242.50
Mortality rate, under-5	15.64	9778.10
Mortality rate, under-5, female	14.78	9237.60
Mortality rate, under-5, male	16.47	10295.50
Probability of dying ages 10-14	1.21	757.50
Probability of dying ages 15-19	2.91	1818.20
Probability of dying ages 5-9	1.34	836.60
Probability of dying ages 20-24	3.99	2494.00

The MEANS Procedure

Variable	Mean	Std Dev	Median	Kurtosis	Skeewness	5th Pctl	75th Pctl	Minimum	Maximum
----------	------	---------	--------	----------	-----------	----------	-----------	---------	---------

Variable	Mean	Std Dev	Median	Kurtosis	Skewness	5th Pctl	75th Pctl	Minimum	Maximum
Birth rate, crude	14.037	5.817	11.800	3.432	1.851	9.000	15.600	7.600	39.687
Death rate, crude	8.960	1.844	9.100	0.196	0.043	5.772	10.100	4.689	14.500
Mortality rate, adult, female	77.403	34.674	67.351	2.954	1.724	41.986	88.356	34.265	221.121
Mortality rate, adult, male	140.792	54.035	132.138	0.087	0.781	71.863	174.609	58.204	328.648
Mortality rate, infant	12.707	18.271	5.300	7.266	2.765	2.700	12.400	2.000	100.600
Mortality rate, infant, female	11.744	17.368	4.800	7.242	2.781	2.500	11.100	1.800	94.400
Mortality rate, infant, male	13.626	19.173	5.800	7.365	2.763	3.000	13.400	2.100	106.500
Mortality rate, neonatal	8.381	12.194	3.700	7.533	2.856	1.900	7.700	1.400	63.200
Mortality rate, under-5	15.629	23.691	6.300	7.905	2.886	3.300	13.900	2.400	130.700
Mortality rate, under-5, female	14.765	23.528	5.700	8.222	2.952	3.000	12.700	2.200	127.400
Mortality rate, under-5, male	16.457	23.921	7.000	7.768	2.844	3.600	15.200	2.600	133.900
Probability of dying ages 10-14	1.211	1.155	0.800	6.846	2.646	0.400	1.400	0.300	6.600
Probability of dying ages 15-19	2.907	1.837	2.300	2.839	1.721	1.100	3.600	0.900	11.000
Probability of dying ages 5-9	1.337	1.868	0.700	10.209	3.148	0.400	1.100	0.300	12.300
Probability of dying ages 20-24	3.988	2.294	3.300	2.606	1.626	1.600	4.900	1.300	13.900

The UNIVARIATE Procedure
Variable: Birth rate, crude

Moments			
N	625	Sum Weights	625
Mean	14.0407024	Sum Observations	8775.439
Std Deviation	5.82473394	Variance	33.9275255
Skewness	1.85470439	Kurtosis	3.46667692
Uncorrected SS	144384.103	Corrected SS	21170.7759
Coeff Variation	41.4846336	Std Error Mean	0.23298936

Basic Statistical Measures			
Location		Variability	
Mean	14.04070	Std Deviation	5.82473
Median	11.80000	Variance	33.92753
Mode	11.20000	Range	32.08700
		Interquartile Range	5.40000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	60.26328	Pr > t	<.0001
Sign	M	312.5	Pr >= M	<.0001
Signed Rank	S	97812.5	Pr >= S	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	39.687
99%	35.424
95%	27.134
90%	22.105
75% Q3	15.600
50% Median	11.800
25% Q1	10.200
10%	9.400
5%	9.000
1%	8.200
0% Min	7.600

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.6	325	36.919	605
7.8	324	37.660	604
7.9	422	38.375	603
7.9	421	39.053	602
8.0	323	39.687	601

The UNIVARIATE Procedure
Variable: Death rate, crude

Moments			
N	625	Sum Weights	625
Mean	8.9613872	Sum Observations	5600.867
Std Deviation	1.8451021	Variance	3.40440178
Skewness	0.04239031	Kurtosis	0.20829477
Uncorrected SS	52315.8846	Corrected SS	2124.34671
Coeff Variation	20.5894697	Std Error Mean	0.07380408

Basic Statistical Measures			
Location		Variability	
Mean	8.96139	Std Deviation	1.84510
Median	9.10000	Variance	3.40440
Mode	10.20000	Range	9.81100
		Interquartile Range	2.29800

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	121.4213	Pr > t	<.0001
Sign	M	312.5	Pr >= M	<.0001
Signed Rank	S	97812.5	Pr >= S	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	14.500
99%	13.500
95%	12.000
90%	11.000
75% Q3	10.100
50% Median	9.100
25% Q1	7.802
10%	6.300
5%	5.772
1%	4.792
0% Min	4.689

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.689	160	13.9	254
4.700	161	14.0	257
4.703	159	14.1	253
4.734	162	14.2	252
4.737	158	14.5	251

The UNIVARIATE Procedure
Variable: Mortality rate, adult, female

Moments			
N	625	Sum Weights	625
Mean	77.4374304	Sum Observations	48398.394
Std Deviation	34.7151012	Variance	1205.13825
Skewness	1.7286427	Kurtosis	2.98690971
Uncorrected SS	4499853.54	Corrected SS	752006.268
Coeff Variation	44.8298723	Std Error Mean	1.38860405

Basic Statistical Measures			
Location		Variability	
Mean	77.43743	Std Deviation	34.71510
Median	67.35100	Variance	1205
Mode	43.70300	Range	186.85600
		Interquartile Range	34.12800

Note: The mode displayed is the smallest of 3 modes with a count of 2.

Tests for Location: Mu0=0

Test		Tests for Location: Mu0=0		
Student's t		t Statistic	p Value	
Sign	M	312.5	Pr >= M	<.0001
Signed Rank	S	97812.5	Pr >= S	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	221.121
99%	195.909
95%	162.481
90%	121.864
75% Q3	88.356
50% Median	67.351
25% Q1	54.228
10%	45.643
5%	41.986
1%	37.495
0% Min	34.265

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
34.265	500	201.429	580
35.896	499	206.352	579
36.484	498	211.275	578
36.652	497	216.198	577
37.028	324	221.121	576

The UNIVARIATE Procedure
Variable: Mortality rate, adult, male

Moments			
N	625	Sum Weights	625
Mean	140.861099	Sum Observations	88038.187
Std Deviation	54.0933256	Variance	2926.08787
Skewness	0.78281067	Kurtosis	0.0974338
Uncorrected SS	14227034.6	Corrected SS	1825878.83
Coeff Variation	38.4018908	Std Error Mean	2.16373302

Basic Statistical Measures			
Location		Variability	
Mean	140.8611	Std Deviation	54.09333
Median	132.1380	Variance	2926
Mode	194.4680	Range	270.44400
		Interquartile Range	77.35700

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	65.10096	Pr > t	<.0001
Sign	M	312.5	Pr >= M	<.0001
Signed Rank	S	97812.5	Pr >= S	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	328.648
99%	287.483
95%	247.597
90%	218.336
75% Q3	174.609
50% Median	132.138
25% Q1	97.252
10%	79.749
5%	71.863
1%	63.886

Quantiles (Definition 5)	
Level	Quantile
0% Min	58.204

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
58.204	499	292.771	256
60.213	500	296.354	254
61.919	375	317.913	253
62.284	498	326.483	252
63.288	475	328.648	251

The UNIVARIATE Procedure
Variable: Mortality rate, infant

Moments			
N	625	Sum Weights	625
Mean	12.71888	Sum Observations	7949.3
Std Deviation	18.299132	Variance	334.858233
Skewness	2.76990979	Kurtosis	7.32510878
Uncorrected SS	310057.73	Corrected SS	208951.537
Coeff Variation	143.873769	Std Error Mean	0.73196528

Basic Statistical Measures			
Location		Variability	
Mean	12.71888	Std Deviation	18.29913
Median	5.30000	Variance	334.85823
Mode	3.40000	Range	98.60000
		Interquartile Range	8.60000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	17.37634	Pr > t	<.0001
Sign	M	312.5	Pr >= M	<.0001
Signed Rank	S	97812.5	Pr >= S	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	100.6
99%	86.5
95%	62.2
90%	32.2
75% Q3	12.4
50% Median	5.3
25% Q1	3.8
10%	3.1
5%	2.7
1%	2.2
0% Min	2.0

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.0	75	91.2	605
2.0	74	93.6	604
2.0	73	96.0	603
2.1	375	98.3	602
2.1	374	100.6	601

The UNIVARIATE Procedure
Variable: Mortality rate, infant, female

Moments			
N	625	Sum Weights	625
Mean	11.75504	Sum Observations	7346.9
Std Deviation	17.3946272	Variance	302.573055
Skewness	2.7860027	Kurtosis	7.30156236
Uncorrected SS	275168.69	Corrected SS	188805.587
Coeff Variation	147.975908	Std Error Mean	0.69578509

Basic Statistical Measures			
Location		Variability	
Mean	11.75504	Std Deviation	17.39463
Median	4.80000	Variance	302.57306
Mode	3.00000	Range	92.60000
		Interquartile Range	7.60000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	16.89464	Pr > t	<.0001
Sign	M	312.5	Pr >= M	<.0001
Signed Rank	S	97812.5	Pr >= S	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	94.4
99%	80.8
95%	59.6
90%	30.2
75% Q3	11.1
50% Median	4.8
25% Q1	3.5
10%	2.8
5%	2.5
1%	2.0
0% Min	1.8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.8	75	85.2	605
1.8	74	87.7	604
1.8	73	90.0	603
1.9	375	92.3	602
1.9	374	94.4	601

The UNIVARIATE Procedure
Variable: Mortality rate, infant, male

Moments			
N	625	Sum Weights	625
Mean	13.6384	Sum Observations	8524
Std Deviation	19.2022542	Variance	368.726568
Skewness	2.76797608	Kurtosis	7.4244629
Uncorrected SS	346339.1	Corrected SS	230085.378
Coeff Variation	140.795506	Std Error Mean	0.76809017

Basic Statistical Measures			
Location		Variability	
Mean	13.63840	Std Deviation	19.20225
Median	5.80000	Variance	368.72657
Mode	3.90000	Range	104.40000
		Interquartile Range	9.20000

Tests for Location: Mu0=0		
Test	Statistic	p Value

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	17.75625	Pr > t	<.0001
Sign	M	312.5	Pr >= M	<.0001
Signed Rank	S	97812.5	Pr >= S	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	106.5
99%	92.3
95%	65.8
90%	34.7
75% Q3	13.4
50% Median	5.8
25% Q1	4.2
10%	3.4
5%	3.0
1%	2.4
0% Min	2.1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.1	75	96.9	605
2.2	74	99.3	604
2.2	73	101.7	603
2.3	375	104.1	602
2.3	72	106.5	601

The UNIVARIATE Procedure
Variable: Mortality rate, neonatal

Moments			
N	625	Sum Weights	625
Mean	8.388	Sum Observations	5242.5
Std Deviation	12.2106445	Variance	149.09984
Skewness	2.86165215	Kurtosis	7.59541628
Uncorrected SS	137012.39	Corrected SS	93038.3
Coeff Variation	145.572777	Std Error Mean	0.48842578

Basic Statistical Measures			
Location		Variability	
Mean	8.388000	Std Deviation	12.21064
Median	3.700000	Variance	149.09984
Mode	2.300000	Range	61.80000
		Interquartile Range	5.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	17.17354	Pr > t	<.0001
Sign	M	312.5	Pr >= M	<.0001
Signed Rank	S	97812.5	Pr >= S	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	63.2
99%	58.0
95%	44.2
90%	19.8
75% Q3	7.7
50% Median	3.7
25% Q1	2.7
10%	2.2
5%	1.9

Quantiles (Definition 5)	
Level	Quantile
1%	1.5
0% Min	1.4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.4	75	60.1	605
1.4	74	61.1	604
1.4	73	61.9	603
1.4	72	62.6	602
1.4	71	63.2	601

The UNIVARIATE Procedure
Variable: Mortality rate, under-5

Moments			
N	625	Sum Weights	625
Mean	15.64496	Sum Observations	9778.1
Std Deviation	23.7288619	Variance	563.05889
Skewness	2.8916033	Kurtosis	7.96844314
Uncorrected SS	504326.73	Corrected SS	351348.747
Coeff Variation	151.670966	Std Error Mean	0.94915448

Basic Statistical Measures			
Location		Variability	
Mean	15.64496	Std Deviation	23.72886
Median	6.30000	Variance	563.05889
Mode	4.10000	Range	128.30000
		Interquartile Range	9.30000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	16.48305	Pr > t	<.0001
Sign	M	312.5	Pr >= M	<.0001
Signed Rank	S	97812.5	Pr >= S	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	130.7
99%	113.9
95%	80.6
90%	39.3
75% Q3	13.9
50% Median	6.3
25% Q1	4.6
10%	3.8
5%	3.3
1%	2.6
0% Min	2.4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.4	75	117.3	605
2.4	74	120.8	604
2.5	73	124.2	603
2.6	375	127.5	602
2.6	374	130.7	601

The UNIVARIATE Procedure
Variable: Mortality rate, under-5, female

Moments			
N	625	Sum Weights	625
Mean	14.78016	Sum Observations	9237.6
Std Deviation	23.5672937	Variance	555.41733
Skewness	2.95774212	Kurtosis	8.28731373
Uncorrected SS	483113.62	Corrected SS	346580.414
Coeff Variation	159.452223	Std Error Mean	0.94269175

Basic Statistical Measures			
Location		Variability	
Mean	14.78016	Std Deviation	23.56729
Median	5.70000	Variance	555.41733
Mode	3.60000	Range	125.20000
		Interquartile Range	8.60000

Tests for Location: Mu0=0				
Test	Statistic	p Value		
Student's t	t	15.67868	Pr > t	<.0001
Sign	M	312.5	Pr >= M	<.0001
Signed Rank	S	97812.5	Pr >= S	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	127.4
99%	114.7
95%	78.5
90%	36.7
75% Q3	12.7
50% Median	5.7
25% Q1	4.1
10%	3.4
5%	3.0
1%	2.4
0% Min	2.2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.2	75	117.8	577
2.2	74	120.8	576
2.2	73	120.9	603
2.3	375	124.2	602
2.3	72	127.4	601

The UNIVARIATE Procedure
Variable: Mortality rate, under-5, male

Moments			
N	625	Sum Weights	625
Mean	16.4728	Sum Observations	10295.5
Std Deviation	23.9587532	Variance	574.021855
Skewness	2.8492354	Kurtosis	7.82944694
Uncorrected SS	527785.35	Corrected SS	358189.638
Coeff Variation	145.444328	Std Error Mean	0.95835013

Basic Statistical Measures			
Location		Variability	
Mean	16.47280	Std Deviation	23.95875
Median	7.00000	Variance	574.02186
Mode	4.60000	Range	131.30000
		Interquartile Range	10.20000

Tests for Location: Mu0=0		
Test	Statistic	p Value

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	17.18871	Pr > t	<.0001
Sign	M	312.5	Pr >= M	<.0001
Signed Rank	S	97812.5	Pr >= S	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	133.9
99%	114.3
95%	80.6
90%	41.0
75% Q3	15.2
50% Median	7.0
25% Q1	5.0
10%	4.1
5%	3.6
1%	2.9
0% Min	2.6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.6	75	120.8	605
2.7	74	124.1	604
2.7	73	127.4	603
2.8	375	130.7	602
2.8	72	133.9	601

The UNIVARIATE Procedure
Variable: Probability of dying ages 10-14

Moments			
N	625	Sum Weights	625
Mean	1.212	Sum Observations	757.5
Std Deviation	1.15694669	Variance	1.33852564
Skewness	2.6522592	Kurtosis	6.90952926
Uncorrected SS	1753.33	Corrected SS	835.24
Coeff Variation	95.4576476	Std Error Mean	0.04627787

Basic Statistical Measures			
Location		Variability	
Mean	1.212000	Std Deviation	1.15695
Median	0.800000	Variance	1.33853
Mode	0.600000	Range	6.30000
		Interquartile Range	0.80000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	26.18963	Pr > t	<.0001
Sign	M	312.5	Pr >= M	<.0001
Signed Rank	S	97812.5	Pr >= S	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	6.6
99%	5.9
95%	4.3
90%	2.2
75% Q3	1.4
50% Median	0.8
25% Q1	0.6
10%	0.5
5%	0.4

Quantiles (Definition 5)	
Level	Quantile
1%	0.4
0% Min	0.3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.3	575	6.1	580
0.3	574	6.2	579
0.4	573	6.4	578
0.4	572	6.5	577
0.4	571	6.6	576

The UNIVARIATE Procedure
Variable: Probability of dying ages 15-19

Moments			
N	625	Sum Weights	625
Mean	2.90912	Sum Observations	1818.2
Std Deviation	1.83921755	Variance	3.38272118
Skewness	1.7260014	Kurtosis	2.87342411
Uncorrected SS	7400.18	Corrected SS	2110.81802
Coeff Variation	63.2224709	Std Error Mean	0.0735687

Basic Statistical Measures			
Location		Variability	
Mean	2.909120	Std Deviation	1.83922
Median	2.300000	Variance	3.38272
Mode	2.200000	Range	10.10000
		Interquartile Range	1.90000

Note: The mode displayed is the smallest of 2 modes with a count of 33.

Tests for Location: Mu0=0			
Test	Statistic	p Value	
Student's t	t	39.5429	Pr > t <.0001
Sign	M	312.5	Pr >= M <.0001
Signed Rank	S	97812.5	Pr >= S <.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	11.0
99%	9.2
95%	7.2
90%	5.5
75% Q3	3.6
50% Median	2.3
25% Q1	1.7
10%	1.2
5%	1.1
1%	1.0
0% Min	0.9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.9	450	9.4	578
0.9	449	9.5	577
0.9	448	9.8	576
0.9	447	10.4	502
0.9	446	11.0	501

The UNIVARIATE Procedure
Variable: Probability of dying ages 5-9

Moments			
N	625	Sum Weights	625
Mean	1.33856	Sum Observations	836.6
Std Deviation	1.87176246	Variance	3.50349472
Skewness	3.15417088	Kurtosis	10.2882265
Uncorrected SS	3306.02	Corrected SS	2186.1807
Coeff Variation	139.834035	Std Error Mean	0.0748705

Basic Statistical Measures			
Location		Variability	
Mean	1.338560	Std Deviation	1.87176
Median	0.700000	Variance	3.50349
Mode	0.500000	Range	12.00000
		Interquartile Range	0.60000

Tests for Location: Mu0=0			
Test	Statistic	p Value	
Student's t	t	17.87834	Pr > t <.0001
Sign	M	312.5	Pr >= M <.0001
Signed Rank	S	97812.5	Pr >= S <.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	12.3
99%	9.6
95%	5.8
90%	3.3
75% Q3	1.1
50% Median	0.7
25% Q1	0.5
10%	0.4
5%	0.4
1%	0.3
0% Min	0.3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.3	575	10.5	580
0.3	574	10.9	579
0.3	573	11.4	578
0.3	572	11.9	577
0.3	571	12.3	576

The UNIVARIATE Procedure
Variable: Probability of dying ages 20-24

Moments			
N	625	Sum Weights	625
Mean	3.9904	Sum Observations	2494
Std Deviation	2.29654925	Variance	5.27413846
Skewness	1.62981716	Kurtosis	2.63691003
Uncorrected SS	13243.12	Corrected SS	3291.0624
Coeff Variation	57.5518557	Std Error Mean	0.09186197

Basic Statistical Measures			
Location		Variability	
Mean	3.990400	Std Deviation	2.29655
Median	3.300000	Variance	5.27414
Mode	2.600000	Range	12.60000
		Interquartile Range	2.40000

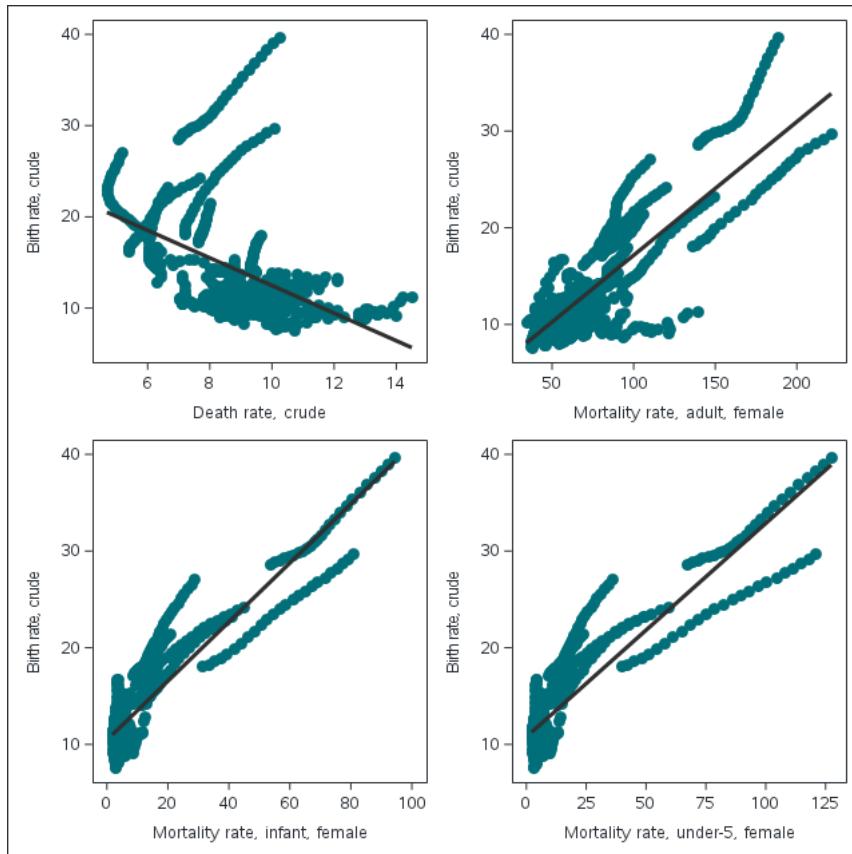
Tests for Location: Mu0=0				
Test	Statistic	p Value		
Student's t	t 43.43909	Pr > t	<.0001	
Sign	M 312.5	Pr >= M	<.0001	
Signed Rank	S 97812.5	Pr >= S	<.0001	

Quantiles (Definition 5)

Level	Quantile
100% Max	13.9
99%	12.0
95%	9.2
90%	7.6
75% Q3	4.9
50% Median	3.3
25% Q1	2.5
10%	1.9
5%	1.6
1%	1.4
0% Min	1.3

Extreme Observations

Lowest		Highest	
Value	Obs	Value	Obs
1.3	450	12.4	579
1.3	449	12.6	578
1.3	448	12.8	577
1.3	447	13.1	576
1.3	446	13.9	228



The GLM Procedure

Class Level Information

Class	Levels	Values
Country Name	25	Argentina Belgium Brazil Canada Croatia Denmark Finland Germany Hungary India Ireland Italy Mexico Netherlands Norway Pakistan Poland Portugal Spain Sweden Switzerland Turkey United Kingdom United States Uruguay

Number of Observations Read	625
Number of Observations Used	625

The GLM Procedure

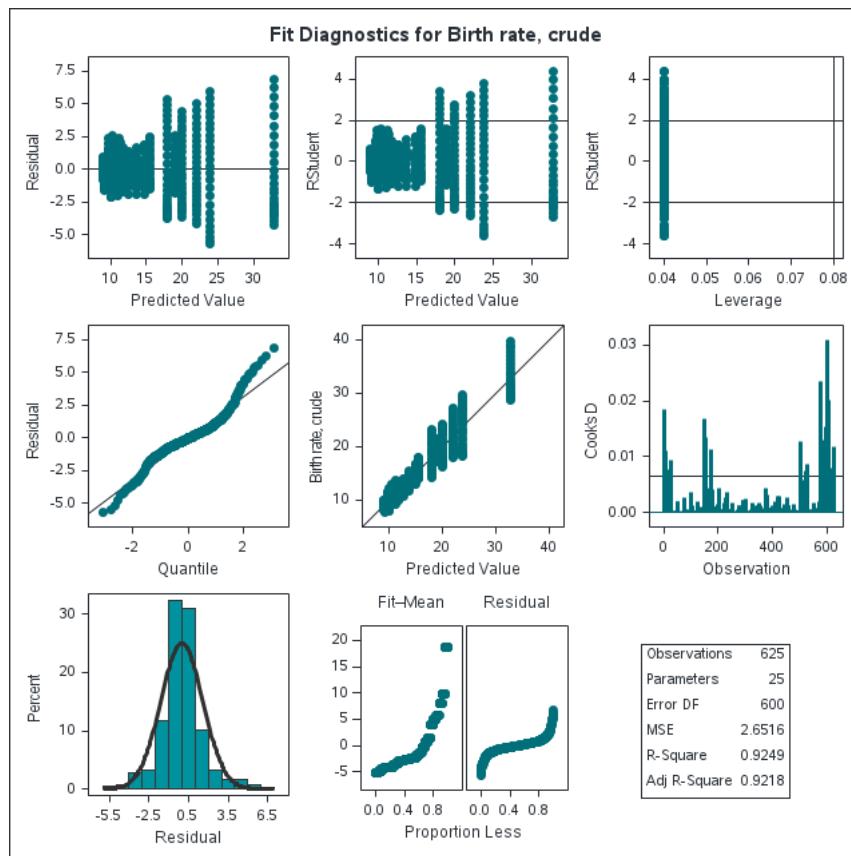
Dependent Variable: Birth rate, crude

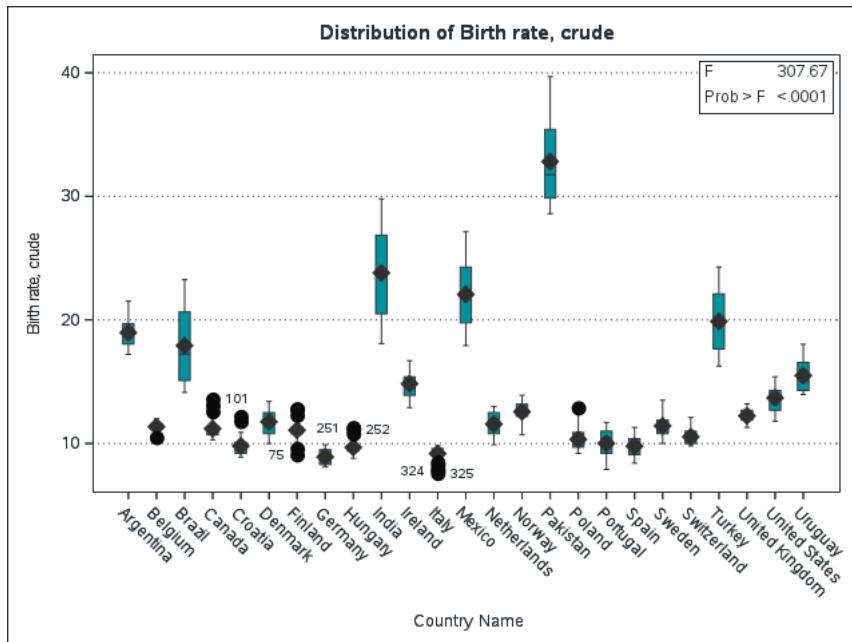
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Model	24	19579.79472	815.82478	307.67	<.0001
Error	600	1590.98120	2.65164		
Corrected Total	624	21170.77592			

R-Square	Coeff Var	Root MSE	Birth rate, crude Mean
0.924850	11.59760	1.628384	14.04070

Source	DF	Type I SS	Mean Square	F Value	Pr > F
Country Name	24	19579.79472	815.82478	307.67	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
Country Name	24	19579.79472	815.82478	307.67	<.0001





The GLM Procedure

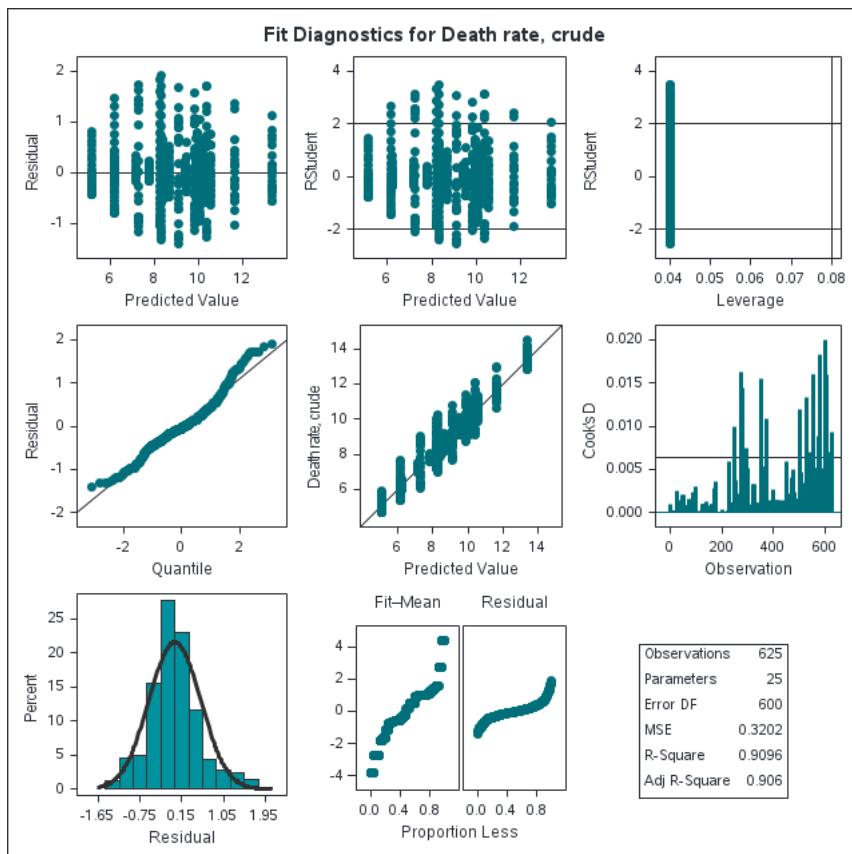
Dependent Variable: Death rate, crude

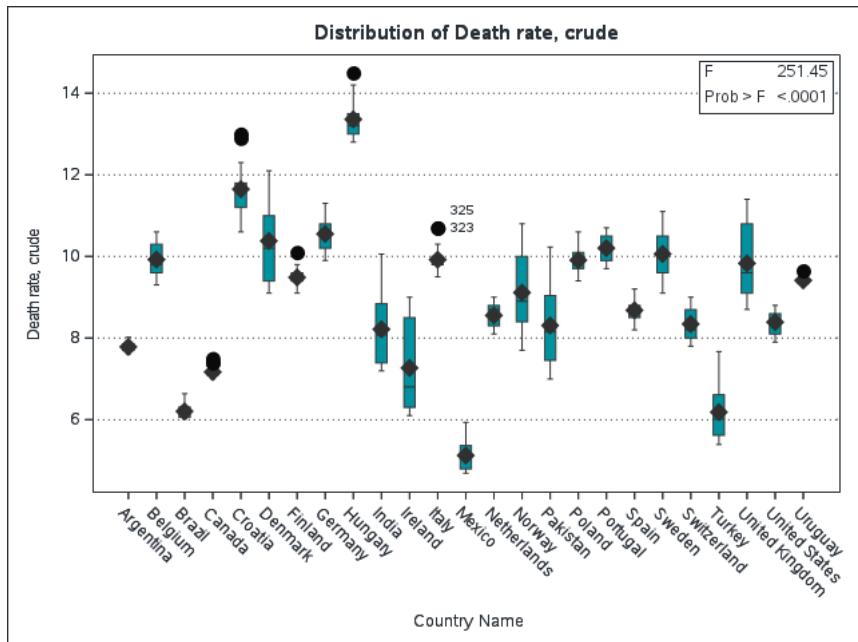
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	24	1932.239055	80.509961	251.45	<.0001
Error	600	192.107653	0.320179		
Corrected Total	624	2124.346708			

R-Square	Coeff Var	Root MSE	Death rate, crude Mean
0.909569	6.314246	0.565844	8.961387

Source	DF	Type I SS	Mean Square	F Value	Pr > F
Country Name	24	1932.239055	80.509961	251.45	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
Country Name	24	1932.239055	80.509961	251.45	<.0001





The GLM Procedure

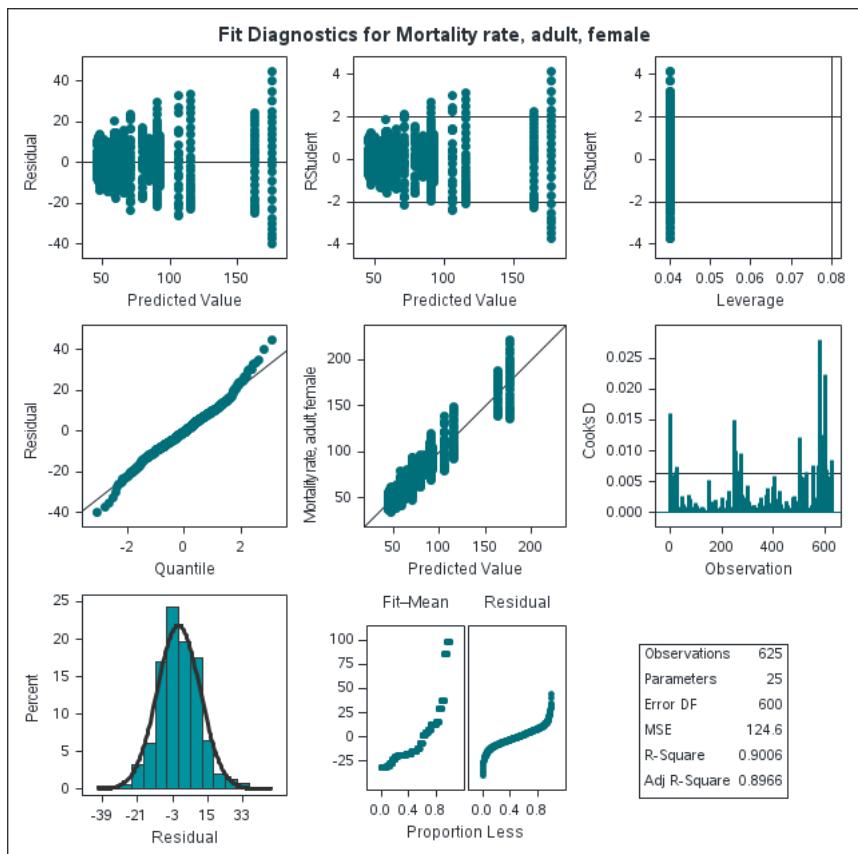
Dependent Variable: Mortality rate, adult, female

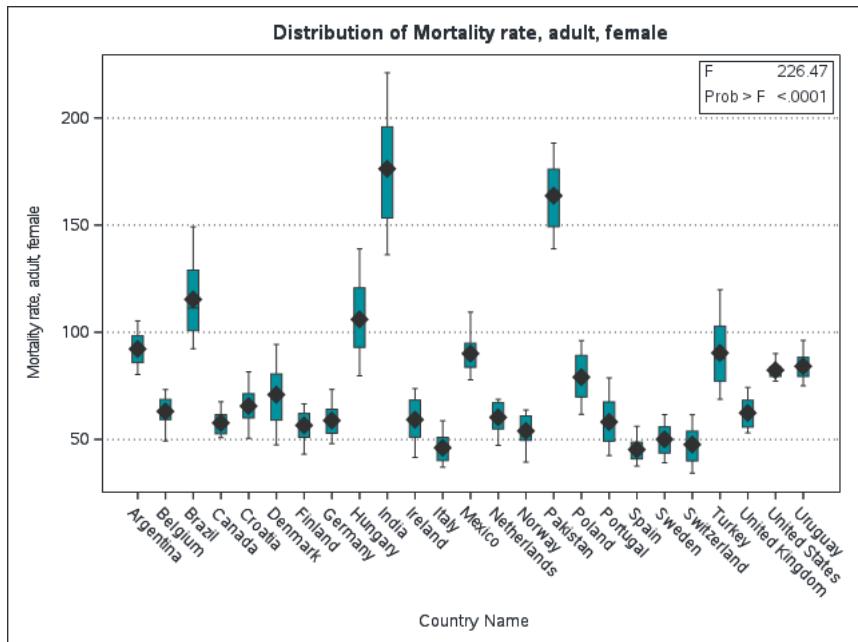
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	24	677244.2477	28218.5103	226.47	<.0001
Error	600	74762.0205	124.6034		
Corrected Total	624	752006.2683			

R-Square	Coeff Var	Root MSE	Mortality rate, adult, female Mean
0.900583	14.41498	11.16259	77.43743

Source	DF	Type I SS	Mean Square	F Value	Pr > F
Country Name	24	677244.2477	28218.5103	226.47	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
Country Name	24	677244.2477	28218.5103	226.47	<.0001





The GLM Procedure

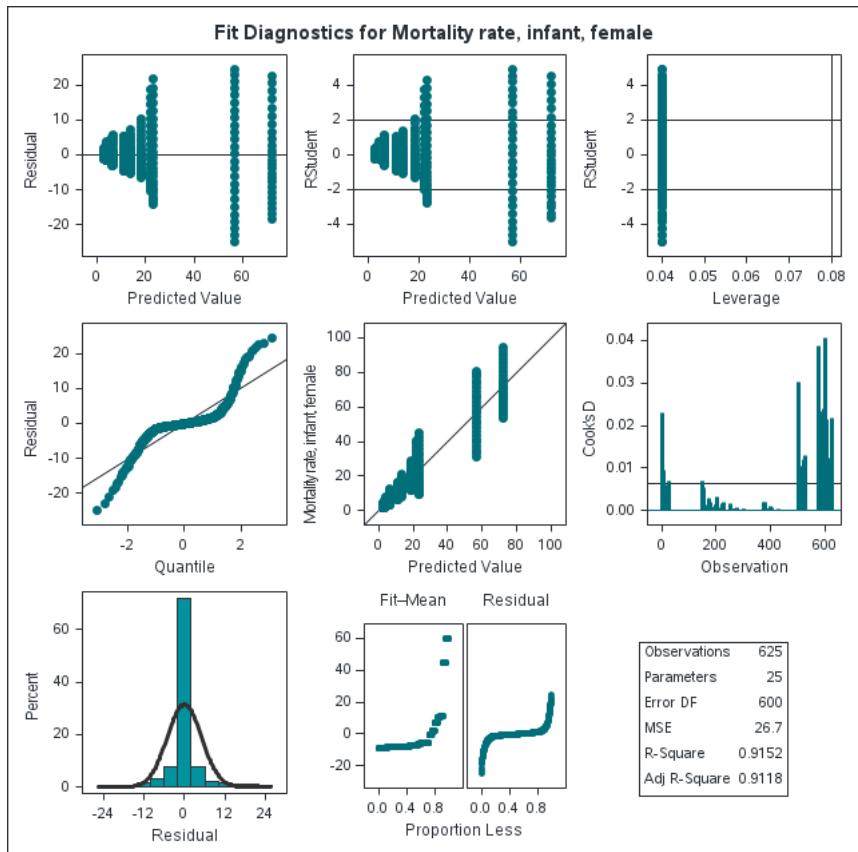
Dependent Variable: Mortality rate, infant, female

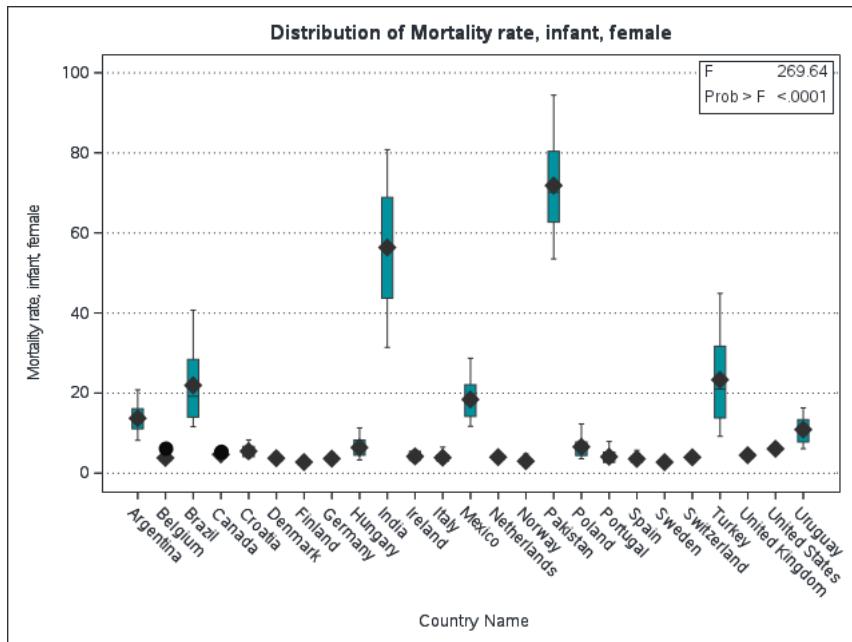
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	24	172785.6402	7199.4017	269.64	<.0001
Error	600	16019.9464	26.6999		
Corrected Total	624	188805.5866			

R-Square	Coeff Var	Root MSE	Mortality rate, infant, female Mean
0.915151	43.95728	5.167196	11.75504

Source	DF	Type I SS	Mean Square	F Value	Pr > F
Country Name	24	172785.6402	7199.4017	269.64	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
Country Name	24	172785.6402	7199.4017	269.64	<.0001





The GLM Procedure

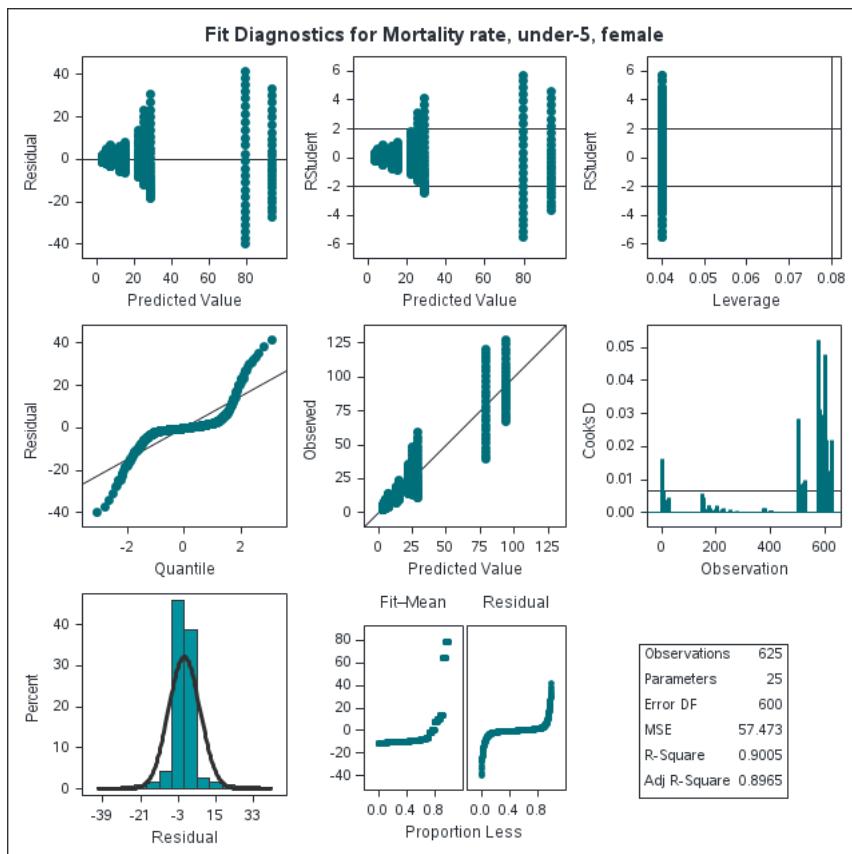
Dependent Variable: Mortality rate, under-5, female

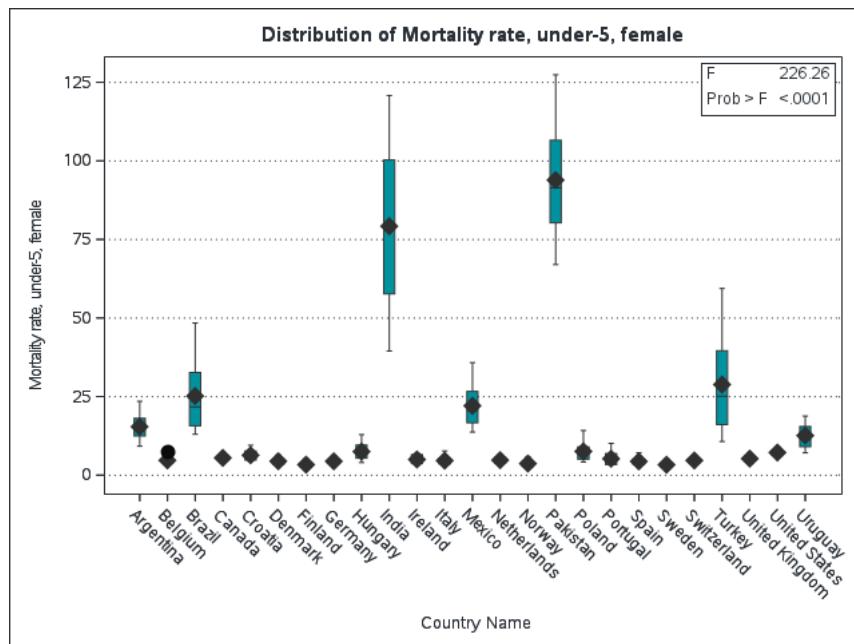
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	24	312096.7540	13004.0314	226.26	<.0001
Error	600	34483.6600	57.4728		
Corrected Total	624	346580.4140			

R-Square	Coeff Var	Root MSE	Mortality rate, under-5, female Mean
0.900503	51.29227	7.581080	14.78016

Source	DF	Type I SS	Mean Square	F Value	Pr > F
Country Name	24	312096.7540	13004.0314	226.26	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
Country Name	24	312096.7540	13004.0314	226.26	<.0001





The GLM Procedure

Levene's Test for Homogeneity of Birth rate, crude Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Country Name	24	8816.2	367.3	20.79	<.0001
Error	600	10601.4	17.6689		

Levene's Test for Homogeneity of Death rate, crude Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Country Name	24	69.6393	2.9016	15.41	<.0001
Error	600	113.0	0.1883		

Levene's Test for Homogeneity of Mortality rate, adult, female Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Country Name	24	11234669	468111	15.92	<.0001
Error	600	17644928	29408.2		

Levene's Test for Homogeneity of Mortality rate, infant, female Variance
ANOVA of Squared Deviations from Group Means

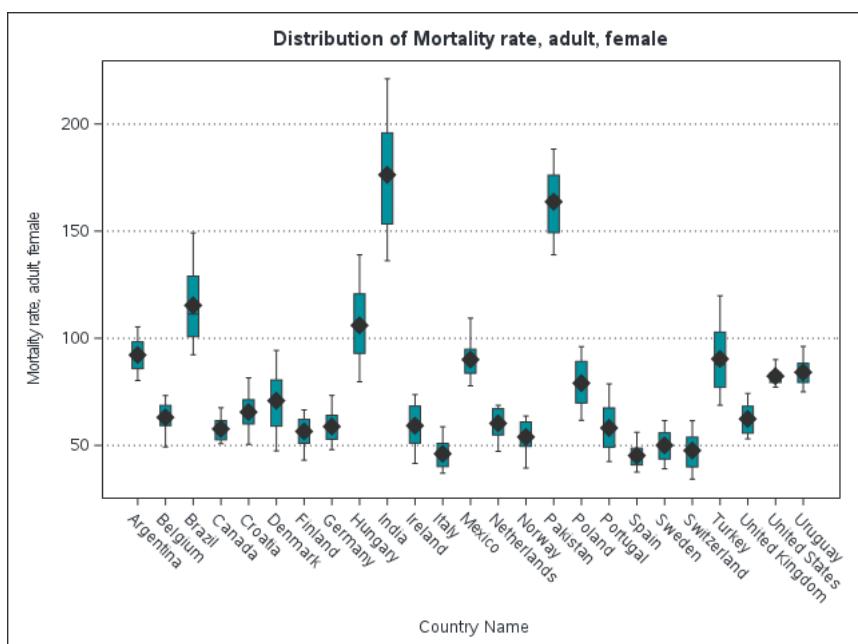
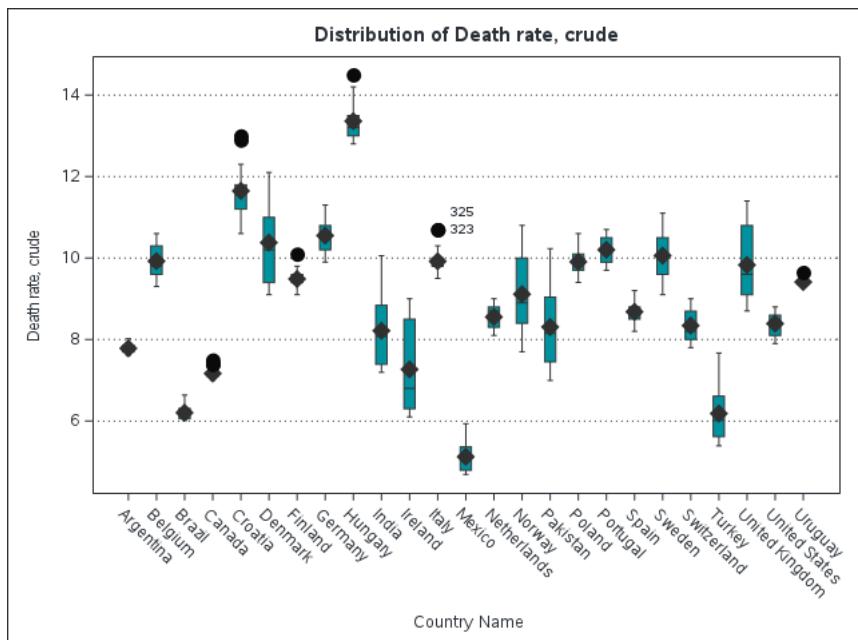
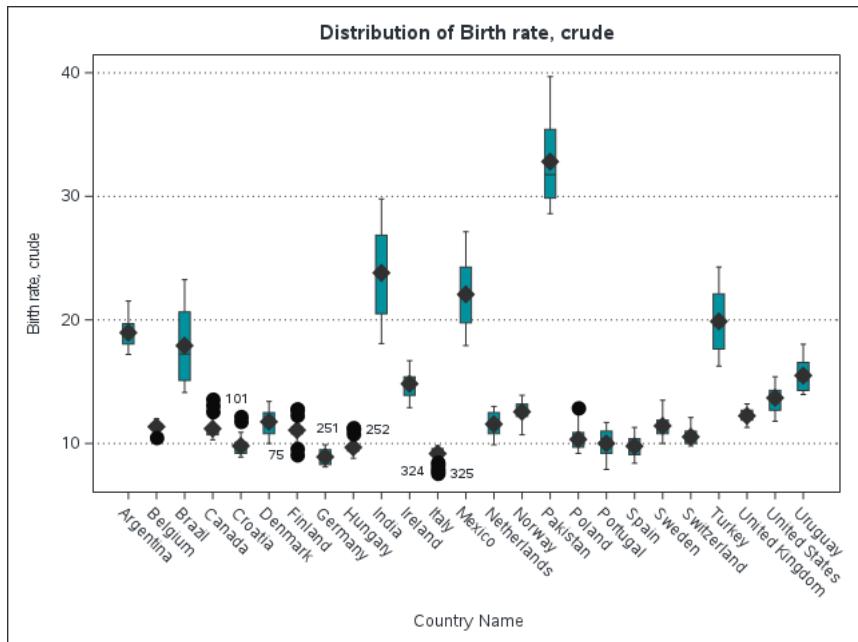
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
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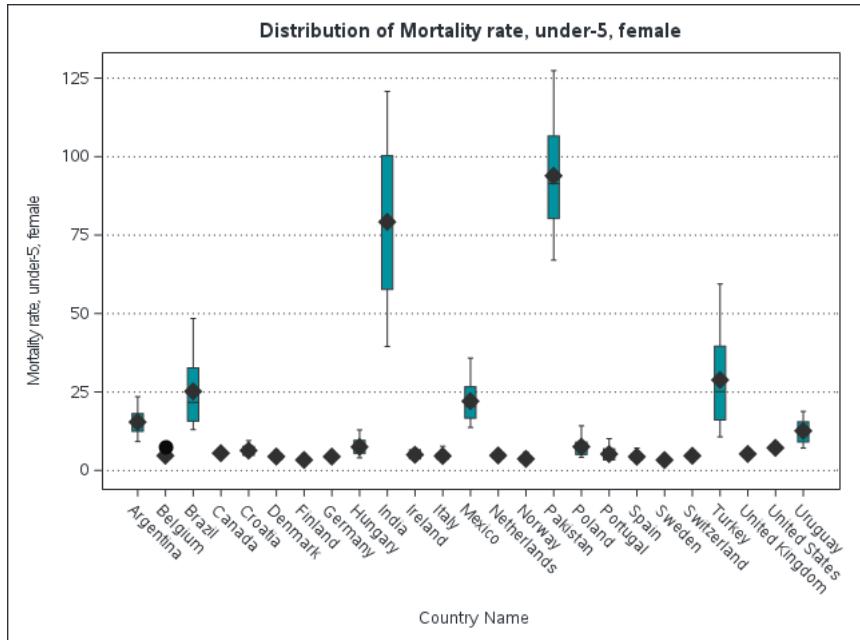
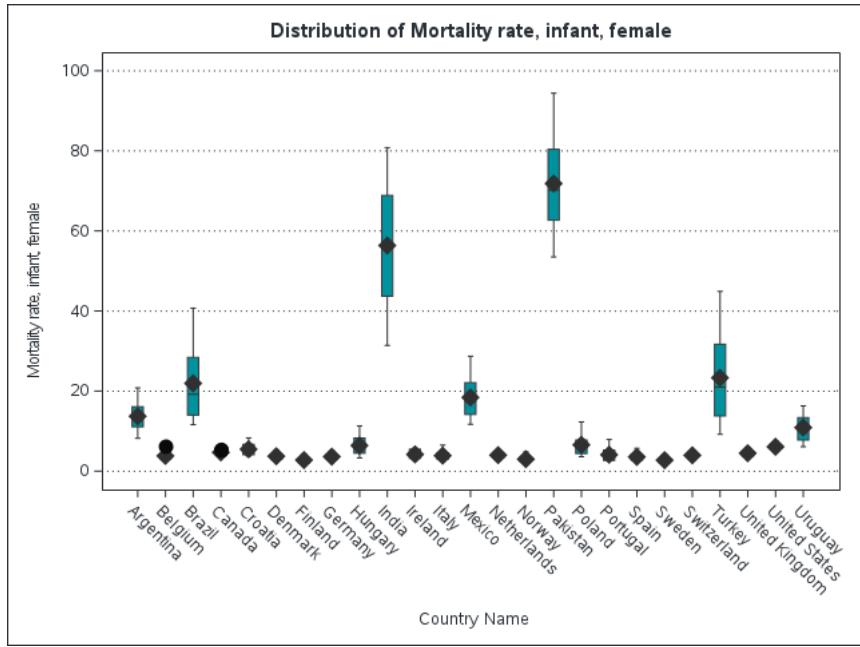
Country Name	24	1924697	80195.7	23.43	<.0001
Error	600	2053400	3422.3		

Levene's Test for Homogeneity of Mortality rate, under-5, female Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Country Name	24	11985256	499386	25.78	<.0001
Error	600	11622545	19370.9		

The GLM Procedure





Level of Country Name	N	Birth rate, crude		Death rate, crude		Mortality rate, adult, female		Mortality rate, infant, female		Mortality rate, under-5, female	
		Mean	Std Dev	Mean	Std Dev	Mean	Std Dev	Mean	Std Dev	Mean	Std Dev
Argentina	25	18.9671600	1.21946965	7.7841200	0.11398915	92.249720	7.6749424	13.7160000	3.5747587	15.4320000	4.0562421
Belgium	25	11.3640000	0.37403208	9.9240000	0.35739800	63.100640	6.8774310	3.8400000	1.0066446	4.7080000	1.1923087
Brazil	25	17.9270400	3.07770834	6.2051600	0.17708771	115.374480	17.7696902	21.9400000	9.1007784	25.1760000	10.9767284
Canada	25	11.2040000	0.82435834	7.1680000	0.12151817	57.735400	5.5792704	4.7120000	0.3395095	5.4960000	0.4825971
Croatia	25	9.8117200	0.86394529	11.6478000	0.55648824	65.621840	8.3683122	5.5040000	1.4669924	6.3600000	1.6583124
Denmark	25	11.7560000	1.02187736	10.3800000	0.95000000	70.887600	14.1470350	3.7520000	0.7217571	4.4520000	0.9078913
Finland	25	11.0840000	0.81939002	9.4880000	0.23330952	56.575880	7.1292161	2.7720000	0.7390986	3.3640000	0.8835912
Germany	25	8.9200000	0.59090326	10.5520000	0.41745259	58.826400	7.5622685	3.6440000	0.6298677	4.4360000	0.8290959
Hungary	25	9.6920000	0.62177166	13.3600000	0.46904158	106.056720	16.8305139	6.4160000	2.2855853	7.5240000	2.5630841
India	25	23.8095200	3.74180374	8.2182400	0.89783876	176.321440	25.8777691	56.3840000	15.4275641	79.2120000	25.6368927
Ireland	25	14.8320000	1.08770400	7.2680000	1.05779645	59.233760	9.9836777	4.2000000	1.1071736	4.9960000	1.3746151
Italy	25	9.1840000	0.62960305	9.9200000	0.29860788	46.131360	7.2402031	3.9000000	1.1722486	4.6120000	1.3781993
Mexico	25	22.0695600	2.79763859	5.1245600	0.38846590	90.104240	8.6880597	18.4120000	5.1454932	22.0880000	6.6673533
Netherlands	25	11.5760000	1.00634653	8.5560000	0.28589042	60.314600	7.1254082	4.0080000	0.7291090	4.8040000	0.9558940
Norway	25	12.5720000	0.88011363	9.1120000	0.92300235	53.965560	7.8613011	3.0040000	0.8298996	3.6920000	1.0254755
Pakistan	25	32.8180000	3.50565948	8.3088000	1.00192157	163.770360	15.7022527	71.8360000	12.0881099	93.9080000	17.8658408
Poland	25	10.3320000	0.91865844	9.9080000	0.29285947	79.090840	10.9172217	6.5880000	2.6757117	7.5960000	3.0547068
Portugal	25	10.0080000	1.20931110	10.2040000	0.32207660	58.208360	10.8849866	4.1280000	1.6539145	5.2520000	2.2055083
Spain	25	9.7920000	0.76098620	8.6800000	0.28867513	45.276960	5.7181398	3.5880000	0.9351114	4.4160000	1.1953661
Sweden	25	11.4320000	0.86299865	10.0600000	0.57008771	50.092480	6.9806449	2.7600000	0.5937171	3.3480000	0.7048168
Switzerland	25	10.5480000	0.72002315	8.3440000	0.41840969	47.630560	8.5469144	3.9760000	0.4832874	4.6880000	0.6912067
Turkey	25	19.8838800	2.57351720	6.1843600	0.69412918	90.403640	15.8650101	23.3200000	11.1427480	28.8440000	15.0836578
United Kingdom	25	12.2400000	0.56494838	9.8320000	0.84198179	62.406800	6.8371464	4.4880000	0.7333258	5.2760000	0.8733461

Level of Country Name	N	Birth rate, crude		Death rate, crude		Mortality rate, adult, female		Mortality rate, infant, female		Mortality rate, under-5, female	
		Mean	Std Dev	Mean	Std Dev	Mean	Std Dev	Mean	Std Dev	Mean	Std Dev
United States	25	13.6960000	0.95850578	8.3917200	0.28619130	82.383360	3.7547504	6.0960000	0.6692533	7.2080000	0.8543614
Uruguay	25	15.4986800	1.34918651	9.4139200	0.09254725	84.172760	6.2838723	10.8920000	3.3159865	12.6160000	3.7889840

The CORR Procedure

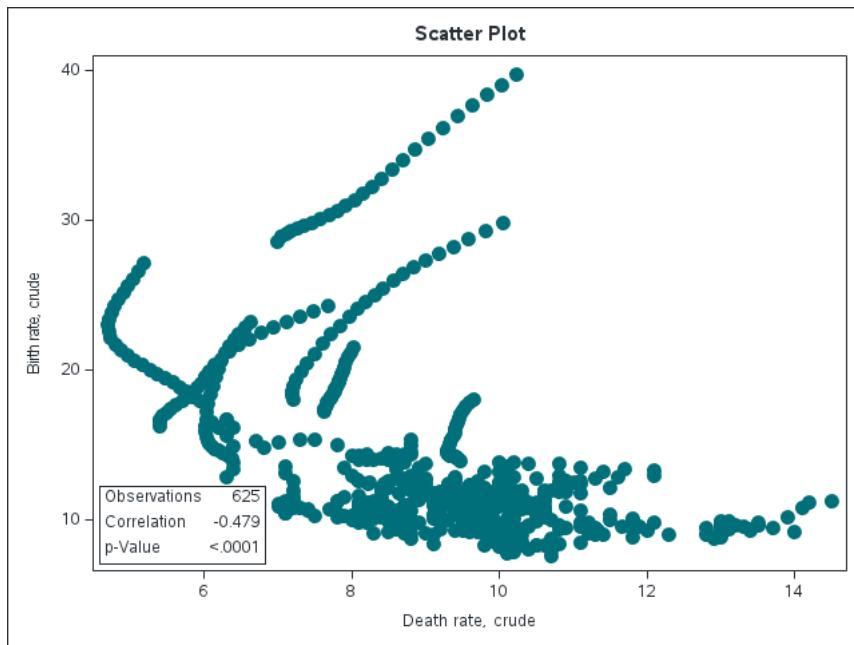
1 With Variables:	Birth rate, crude
4 Variables:	Death rate, crude Mortality rate, adult, female Mortality rate, infant, female Mortality rate, under-5, female

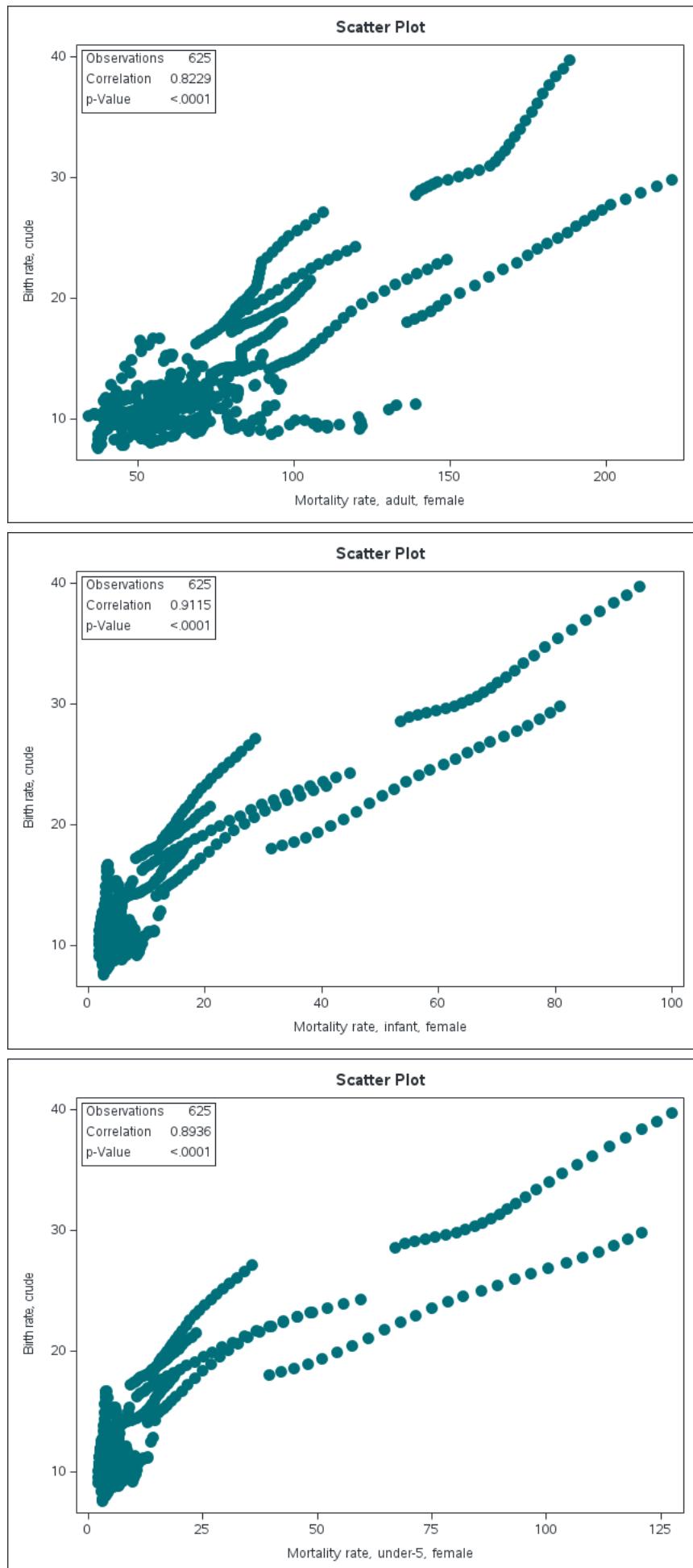
Simple Statistics						
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
Birth rate, crude	625	14.04070	5.82473	8775	7.60000	39.68700
Death rate, crude	625	8.96139	1.84510	5601	4.68900	14.50000
Mortality rate, adult, female	625	77.43743	34.71510	48398	34.26500	221.12100
Mortality rate, infant, female	625	11.75504	17.39463	7347	1.80000	94.40000
Mortality rate, under-5, female	625	14.78016	23.56729	9238	2.20000	127.40000

Pearson Correlation Coefficients, N = 625 Prob > |r| under H0: Rho=0

Birth rate, crude	Mortality rate, infant, female 0.91146 <.0001	Mortality rate, under-5, female 0.89364 <.0001	Mortality rate, adult, female 0.82289 <.0001	Death rate, crude -0.47922 <.0001
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The CORR Procedure





The CORR Procedure

16
Variables:

Time Birth rate, crude Death rate, crude Mortality rate, adult, female Mortality rate, adult, male Mortality rate, infant, female Mortality rate, infant, male Mortality rate, neonatal Mortality rate, under-5 Mortality rate, under-5, female Mortality rate, under-5, male Probability of dying ages 10-14 Probability of dying ages 15-19 Probability of dying ages 5-9 Probability of dying ages 20-24

Simple Statistics						
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
Time	625	2005	7.21688	1253125	1993	2017
Birth rate, crude	625	14.04070	5.82473	8775	7.60000	39.68700
Death rate, crude	625	8.96139	1.84510	5601	4.68900	14.50000
Mortality rate, adult, female	625	77.43743	34.71510	48398	34.26500	221.12100
Mortality rate, adult, male	625	140.86110	54.09333	88038	58.20400	328.64800
Mortality rate, infant	625	12.71888	18.29913	7949	2.00000	100.60000
Mortality rate, infant, female	625	11.75504	17.39463	7347	1.80000	94.40000
Mortality rate, infant, male	625	13.63840	19.20225	8524	2.10000	106.50000
Mortality rate, neonatal	625	8.38800	12.21064	5243	1.40000	63.20000
Mortality rate, under-5	625	15.64496	23.72886	9778	2.40000	130.70000
Mortality rate, under-5, female	625	14.78016	23.56729	9238	2.20000	127.40000
Mortality rate, under-5, male	625	16.47280	23.95875	10296	2.60000	133.90000
Probability of dying ages 10-14	625	1.21200	1.15695	757.50000	0.30000	6.60000
Probability of dying ages 15-19	625	2.90912	1.83922	1818	0.90000	11.00000
Probability of dying ages 5-9	625	1.33856	1.87176	836.60000	0.30000	12.30000
Probability of dying ages 20-24	625	3.99040	2.29655	2494	1.30000	13.90000

Pearson Correlation Coefficients, N = 625
Prob > |r| under H0: Rho=0

	Time	Birth rate, crude	Death rate, crude	Mortality rate, adult, female	Mortality rate, adult, male	Mortality rate, infant	Mortality rate, infant, female	Mortality rate, infant, male	Mortality rate, neonatal	Mortality rate, under-5	Mortality rate, under-5, female	Mortality rate, under-5, male	Probability of dying ages 10-14	Probability of dying ages 15-19	Probability of dying ages 5-9
Time	1.00000 <.0001	-0.17711 0.0001	-0.15265 <.0001	-0.27801 <.0001	-0.35773 <.0001	-0.17925 <.0001	-0.17408 <.0001	-0.18316 <.0001	-0.15442 0.0001	-0.18130 <.0001	-0.17475 <.0001	-0.18705 <.0001	-0.20477 0.0001	-0.29777 0.0001	-0.20558 <.0001
Birth rate, crude	-0.17711 <.0001	1.00000 <.0001	-0.47922 0.0001	0.82289 <.0001	0.50778 <.0001	0.92018 <.0001	0.91146 <.0001	0.92564 <.0001	0.90275 <.0001	0.90787 <.0001	0.89364 <.0001	0.91815 <.0001	0.87296 0.0001	0.83378 0.0001	0.81422 <.0001
Death rate, crude	-0.15265 0.0001	-0.47922 <.0001	1.00000 0.0009	-0.13202 0.3263	0.03932 <.0001	-0.25947 <.0001	-0.25168 <.0001	-0.26564 <.0001	-0.23755 <.0001	-0.23822 <.0001	-0.22481 <.0001	-0.24976 <.0001	-0.24420 0.0001	-0.33208 0.0001	-0.19702 <.0001
Mortality rate, adult, female	-0.27801 <.0001	0.82289 0.0009	-0.13202 0.0009	1.00000 0.0001	0.82480 <.0001	0.90087 <.0001	0.90414 <.0001	0.89606 <.0001	0.89406 <.0001	0.89881 <.0001	0.89885 <.0001	0.89588 <.0001	0.91850 0.0001	0.87570 0.0001	0.85650 <.0001
Mortality rate, adult, male	-0.35773 <.0001	0.50778 0.0001	0.03932 0.3263	0.82480 <.0001	1.00000 0.0001	0.58766 <.0001	0.58561 <.0001	0.58805 <.0001	0.56887 <.0001	0.57551 <.0001	0.56879 <.0001	0.57996 <.0001	0.62622 0.0001	0.70423 0.0001	0.56058 <.0001
Mortality rate, infant	-0.17925 <.0001	0.92018 0.0001	-0.25947 0.0001	0.90087 0.0001	0.58766 0.0001	1.00000 0.0001	0.99869 0.0001	0.99903 0.0001	0.99601 0.0001	0.99804 0.0001	0.99300 0.0001	0.99954 0.0001	0.96159 0.0001	0.86642 0.0001	0.92419 0.0001
Mortality rate, infant, female	-0.17408 <.0001	0.91146 0.0001	-0.25168 0.0001	0.90414 0.0001	0.58561 0.0001	0.99869 0.0001	1.00000 0.0001	0.99548 0.0001	0.99585 0.0001	0.99929 0.0001	0.99724 0.0001	0.99800 0.0001	0.96985 0.0001	0.86746 0.0001	0.93790 0.0001
Mortality rate, infant, male	-0.18316 <.0001	0.92564 0.0001	-0.26564 0.0001	0.89606 0.0001	0.58805 0.0001	0.99903 0.0001	0.99548 0.0001	1.00000 0.0001	0.99407 0.0001	0.99488 0.0001	0.98729 0.0001	0.99878 0.0001	0.95245 0.0001	0.86367 0.0001	0.91030 0.0001
Mortality rate, neonatal	-0.15442 0.0001	0.90275 0.0001	-0.23755 0.0001	0.89406 0.0001	0.56887 0.0001	0.99601 0.0001	0.99585 0.0001	0.99407 0.0001	1.00000 0.0001	0.99520 0.0001	0.99174 0.0001	0.99524 0.0001	0.96213 0.0001	0.85042 0.0001	0.92190 0.0001
Mortality rate, under-5	-0.18130 0.0001	0.90787 0.0001	-0.23822 0.0001	0.89881 0.0001	0.57551 0.0001	0.99804 0.0001	0.99929 0.0001	0.99488 0.0001	0.99520 0.0001	1.00000 0.0001	0.99822 0.0001	0.99845 0.0001	0.96780 0.0001	0.86291 0.0001	0.93976 0.0001
Mortality rate, under-5, female	-0.17475 0.0001	0.89364 0.0001	-0.22481 0.0001	0.89885 0.0001	0.56879 0.0001	0.99300 0.0001	0.99724 0.0001	0.98729 0.0001	0.99174 0.0001	0.99822 0.0001	1.00000 0.0001	0.99336 0.0001	0.97387 0.0001	0.85949 0.0001	0.95230 0.0001
Mortality rate, under-5, male	-0.18705 0.0001	0.91815 0.0001	-0.24976 0.0001	0.89588 0.0001	0.57996 0.0001	0.99954 0.0001	0.99800 0.0001	0.99878 0.0001	0.99524 0.0001	0.99845 0.0001	0.99336 0.0001	1.00000 0.0001	0.95901 0.0001	0.86327 0.0001	0.92500 0.0001
Probability of dying ages 10-14	-0.20477 0.0001	0.87296 0.0001	-0.24420 0.0001	0.91850 0.0001	0.62622 0.0001	0.96159 0.0001	0.96985 0.0001	0.95245 0.0001	0.96213 0.0001	0.96780 0.0001	0.97387 0.0001	0.95901 0.0001	1.00000 0.0001	0.89453 0.0001	0.96120 0.0001
Probability of dying ages 15-19	-0.29777 0.0001	0.83378 0.0001	-0.33208 0.0001	0.87570 0.0001	0.70423 0.0001	0.86642 0.0001	0.86746 0.0001	0.86367 0.0001	0.85042 0.0001	0.86291 0.0001	0.85949 0.0001	0.86327 0.0001	0.89453 0.0001	1.00000 0.0001	0.86644 0.0001
Probability of dying ages 5-9	-0.20558 0.0001	0.81425 0.0001	-0.19700 0.0001	0.85650 0.0001	0.56050 0.0001	0.92416 0.0001	0.93791 0.0001	0.91036 0.0001	0.92191 0.0001	0.93978 0.0001	0.95230 0.0001	0.92504 0.0001	0.96121 0.0001	0.86643 0.0001	1.00000 0.0001

Pearson Correlation Coefficients, N = 625

Prob > |r| under H0: Rho=0

	Time	Birth rate, crude	Death rate, crude	Mortality rate, adult, female	Mortality rate, adult, male	Mortality rate, infant	Mortality rate, infant, female	Mortality rate, infant, male	Mortality rate, neonatal	Mortality rate, under-5	Mortality rate, under-5, female	Mortality rate, under-5, male	Probability of dying ages 10-14	Probability of dying ages 15-19	Probability of dying ages 5-14
Probability of dying ages 20-24	-0.31458 <.0001	0.78581 <.0001	-0.31069 <.0001	0.86665 <.0001	0.71897 <.0001	0.81790 <.0001	0.82081 <.0001	0.81363 <.0001	0.79981 <.0001	0.81691 <.0001	0.81645 <.0001	0.81462 <.0001	0.85856 <.0001	0.95471 <.0001	0.7993 <.0001

The REG Procedure

Model: MODEL1

Dependent Variable: Birth rate, crude

Number of Observations Read	625
Number of Observations Used	625

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	19332	4833.02062	1629.68	<.0001
Error	620	1838.69345	2.96563		
Corrected Total	624	21171			

Root MSE	1.72210	R-Square	0.9131
Dependent Mean	14.04070	Adj R-Sq	0.9126
Coeff Var	12.26507		

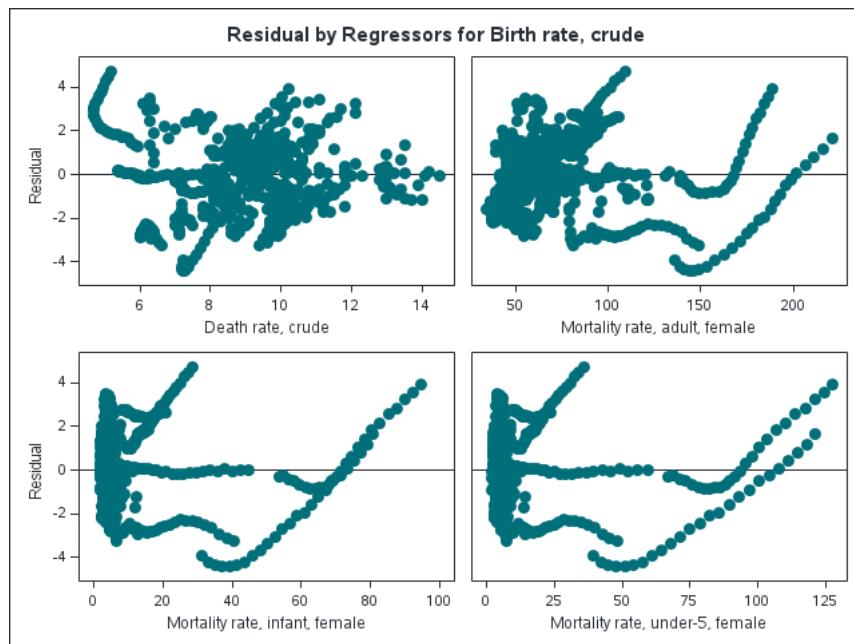
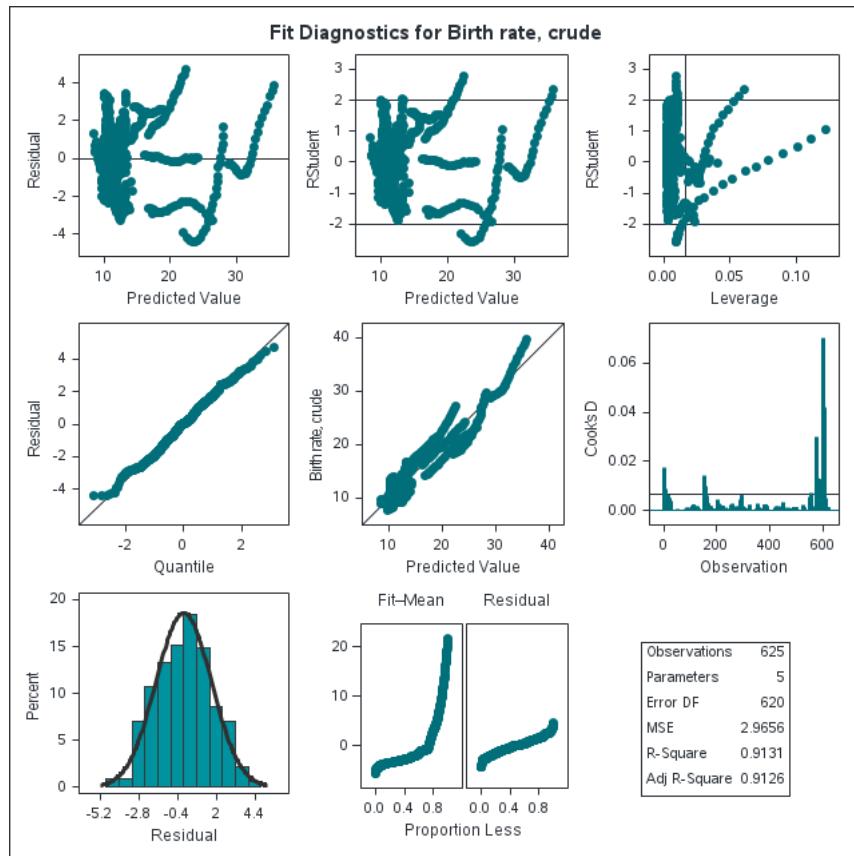
Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	15.90617	0.43897	36.23	<.0001
Death rate, crude	1	-0.72634	0.04322	-16.81	<.0001
Mortality rate, adult, female	1	0.01491	0.00487	3.06	0.0023
Mortality rate, infant, female	1	0.80508	0.06107	13.18	<.0001
Mortality rate, under-5, female	1	-0.40423	0.04305	-9.39	<.0001

The REG Procedure

Model: MODEL1

Dependent Variable: Birth rate, crude



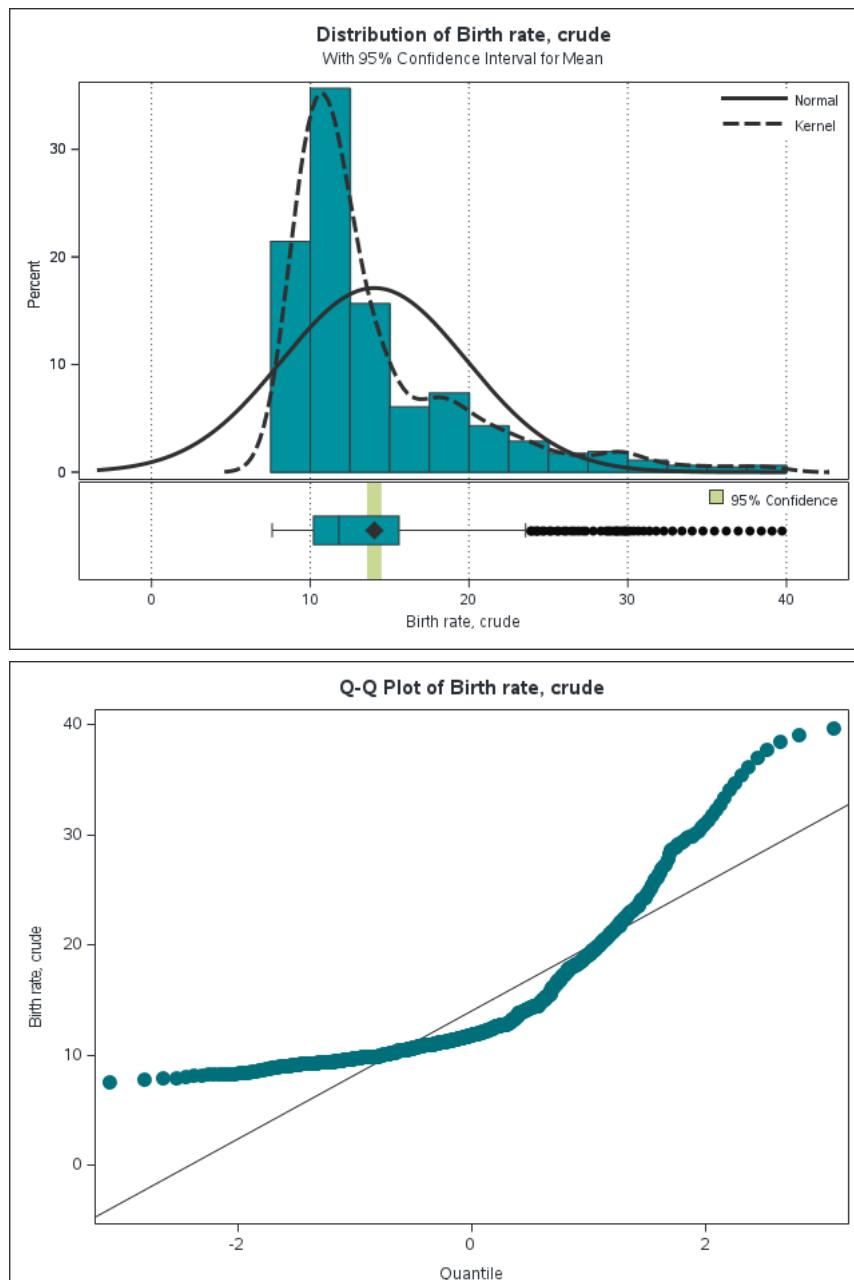
The TTEST Procedure

Variable: Birth rate, crude

N	Mean	Std Dev	Std Err	Minimum	Maximum
625	14.0407	5.8247	0.2330	7.6000	39.6870

Mean	95% CL Mean	Std Dev	95% CL Std Dev
14.0407	13.5832	14.4982	5.8247

DF	t Value	Pr > t
624	60.26	<.0001

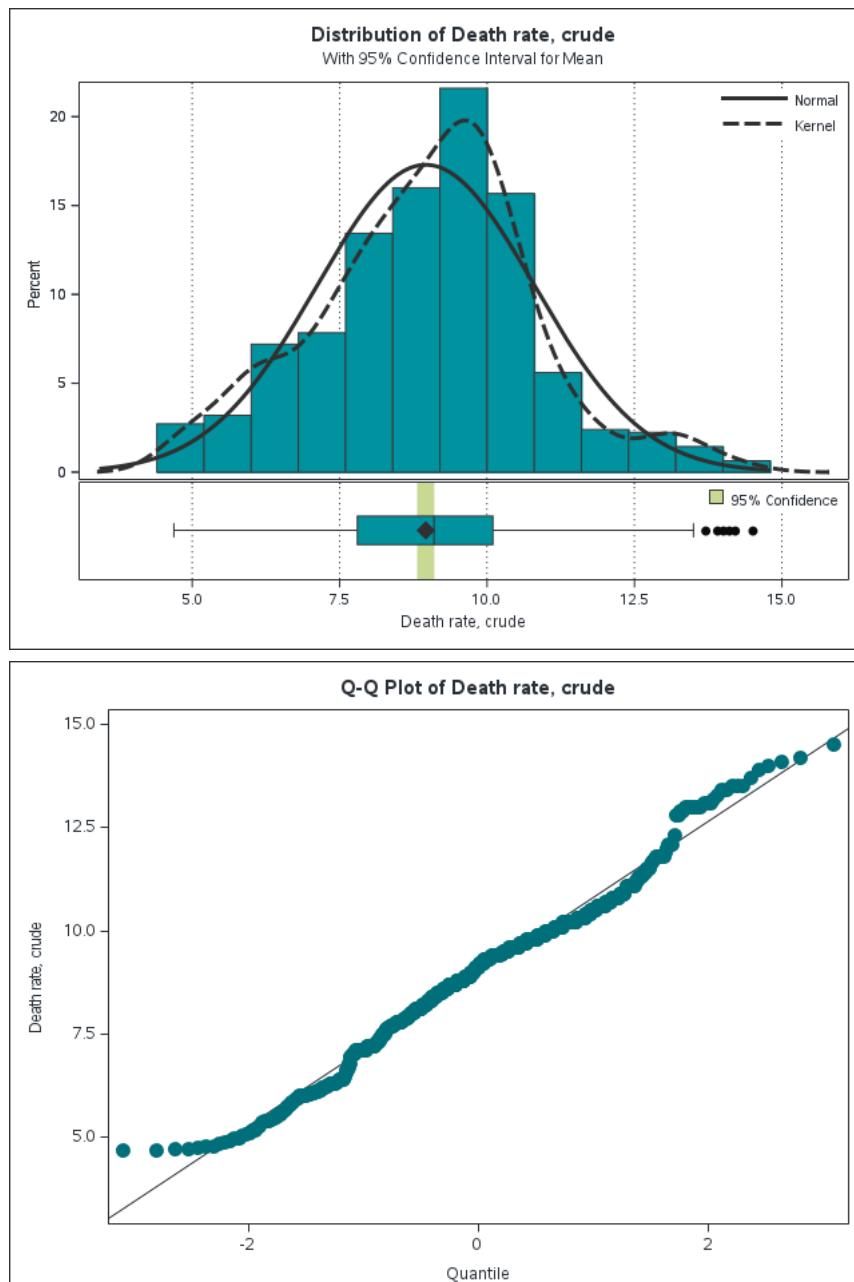


Variable: Death rate, crude

N	Mean	Std Dev	Std Err	Minimum	Maximum
625	8.9614	1.8451	0.0738	4.6890	14.5000

Mean	95% CL Mean	Std Dev	95% CL Std Dev
8.9614	8.8165	9.1063	1.8451 1.7482 1.9535

DF	t Value	Pr > t
624	121.42	<.0001

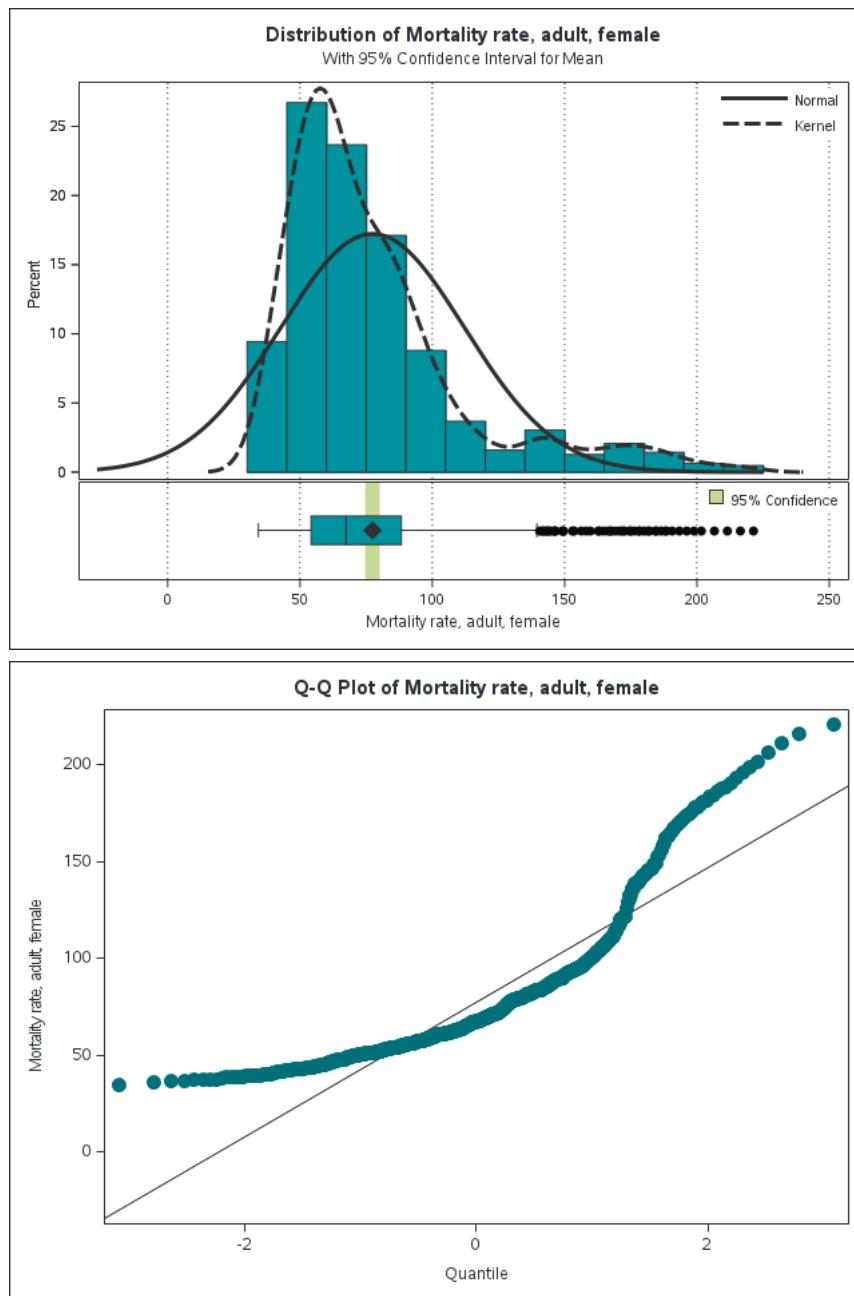


Variable: Mortality rate, adult, female

N	Mean	Std Dev	Std Err	Minimum	Maximum
625	77.4374	34.7151	1.3886	34.2650	221.1

Mean	95% CL Mean	Std Dev	95% CL Std Dev
77.4374	74.7105	80.1643	34.7151

DF	t Value	Pr > t
624	55.77	<.0001

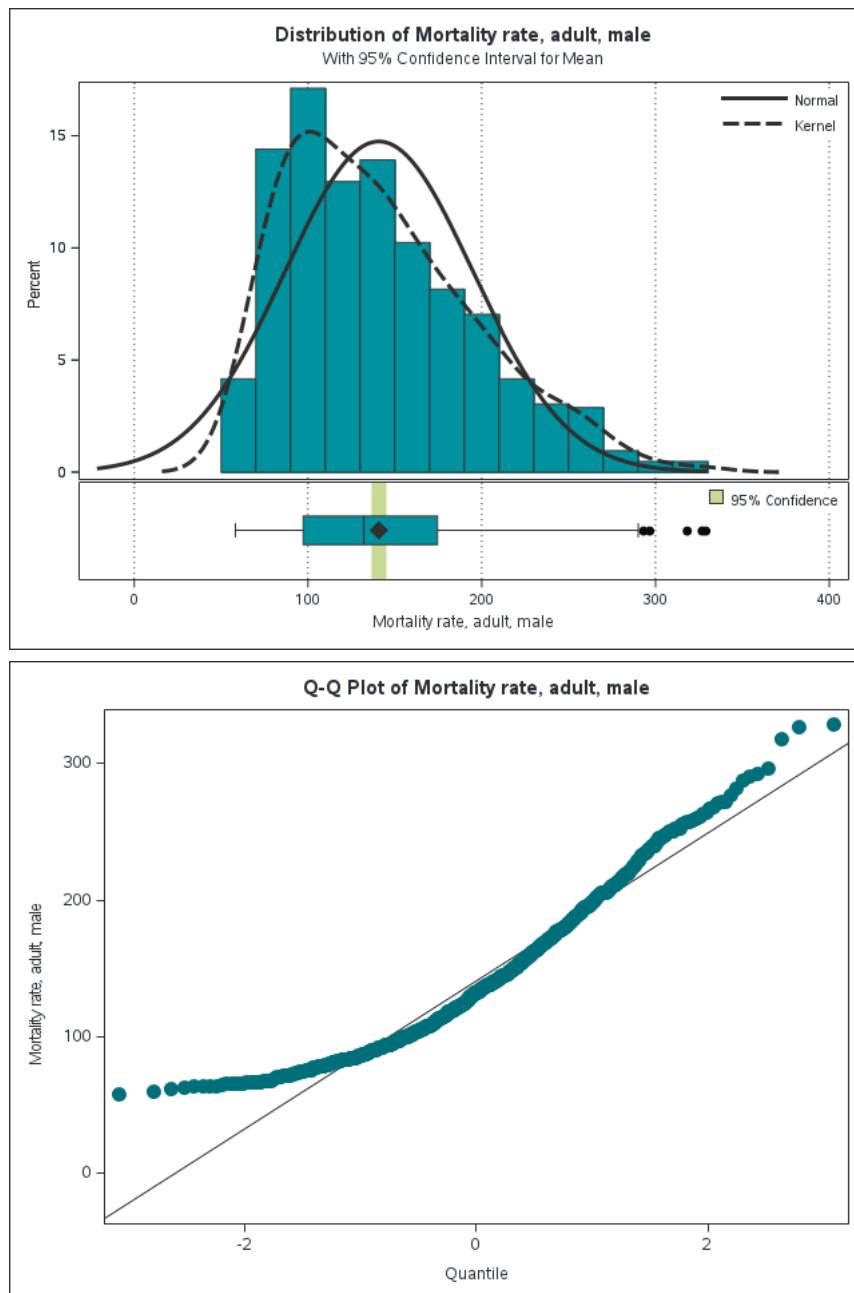


Variable: Mortality rate, adult, male

N	Mean	Std Dev	Std Err	Minimum	Maximum
625	140.9	54.0933	2.1637	58.2040	328.6

Mean	95% CL Mean	Std Dev	95% CL Std Dev
140.9	136.6	145.1	54.0933

DF	t Value	Pr > t
624	65.10	<.0001

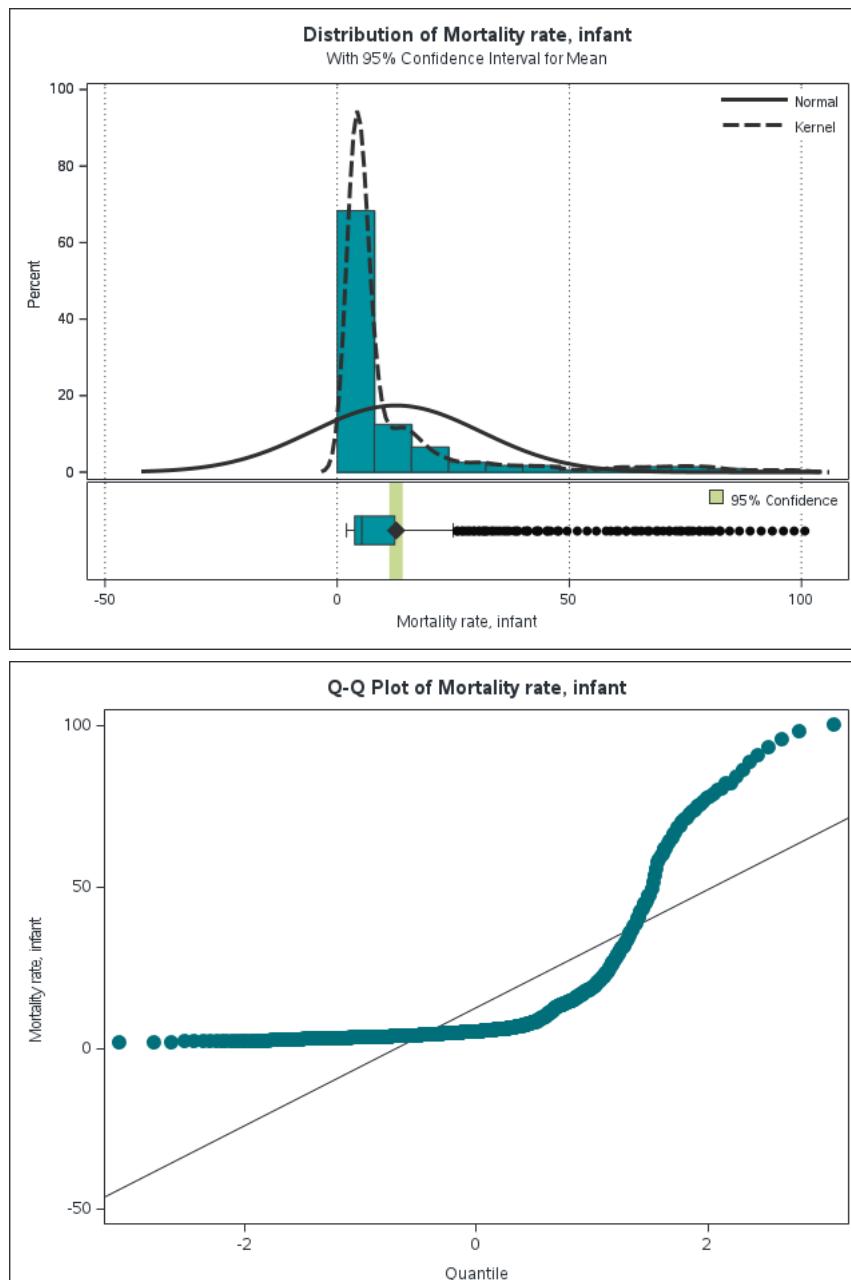


Variable: Mortality rate, infant

N	Mean	Std Dev	Std Err	Minimum	Maximum
625	12.7189	18.2991	0.7320	2.0000	100.6

Mean	95% CL Mean	Std Dev	95% CL Std Dev
12.7189	11.2815	14.1563	18.2991

DF	t Value	Pr > t
624	17.38	<.0001

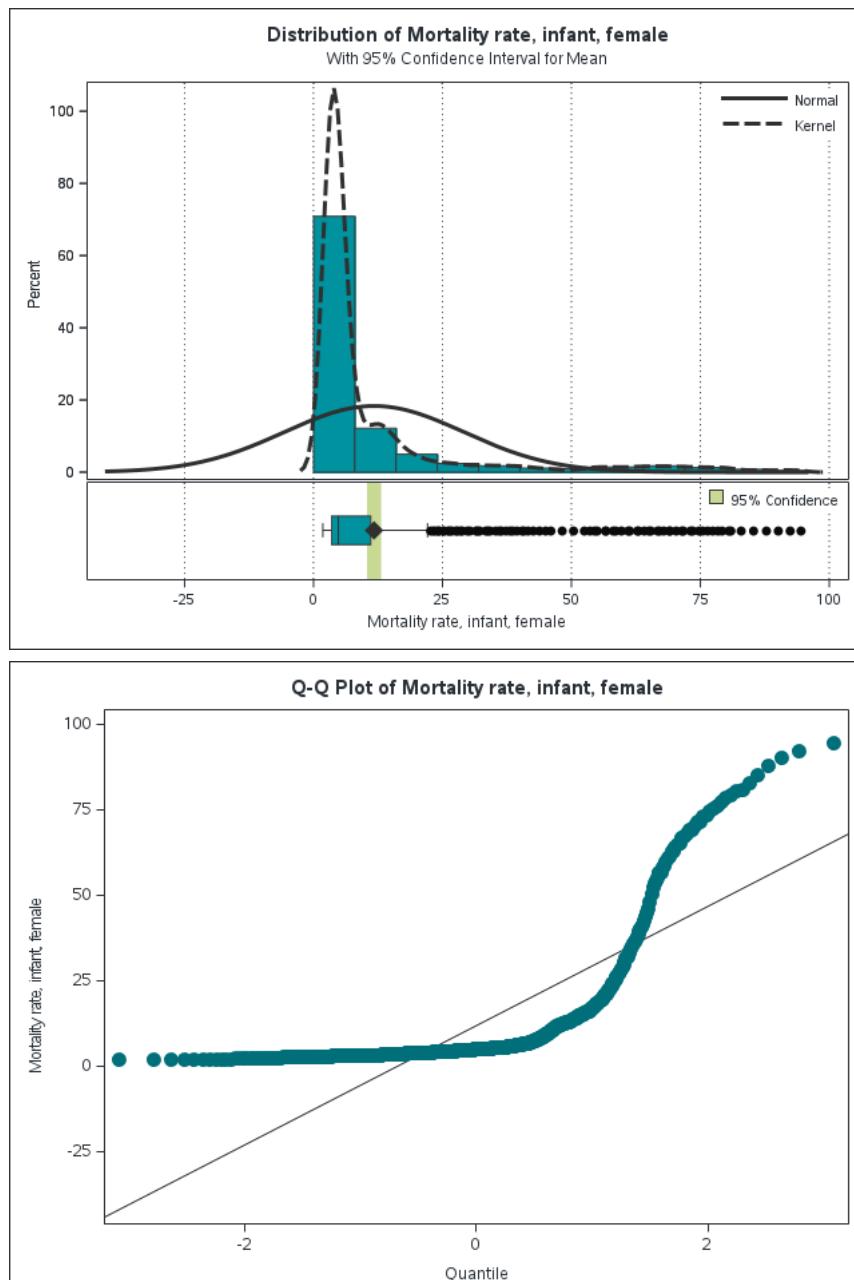


Variable: Mortality rate, infant, female

N	Mean	Std Dev	Std Err	Minimum	Maximum
625	11.7550	17.3946	0.6958	1.8000	94.4000

Mean	95% CL Mean	Std Dev	95% CL Std Dev
11.7550	10.3887	13.1214	17.3946

DF	t Value	Pr > t
624	16.89	<.0001

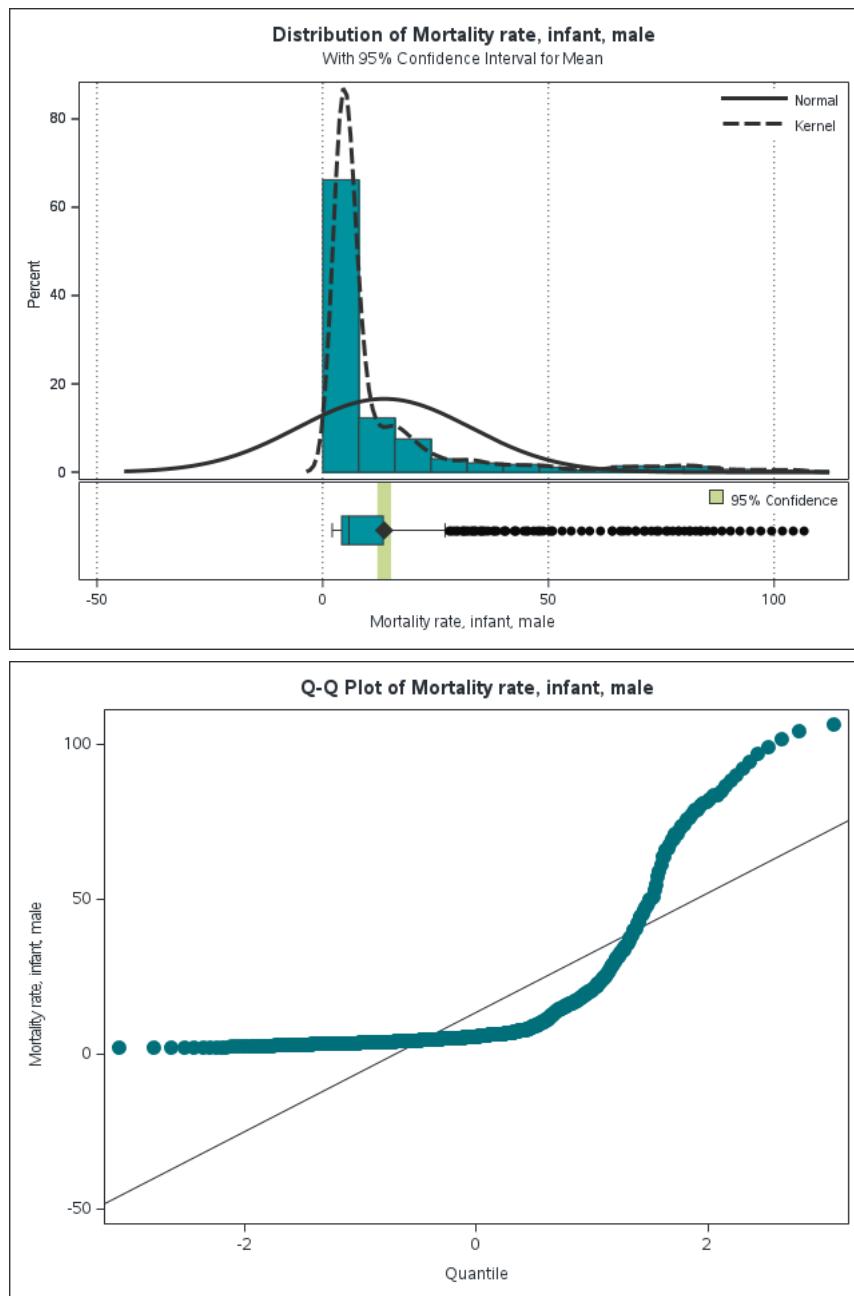


Variable: Mortality rate, infant, male

N	Mean	Std Dev	Std Err	Minimum	Maximum
625	13.6384	19.2023	0.7681	2.1000	106.5

Mean	95% CL Mean	Std Dev	95% CL Std Dev
13.6384	12.1300	15.1468	19.2023

DF	t Value	Pr > t
624	17.76	<.0001

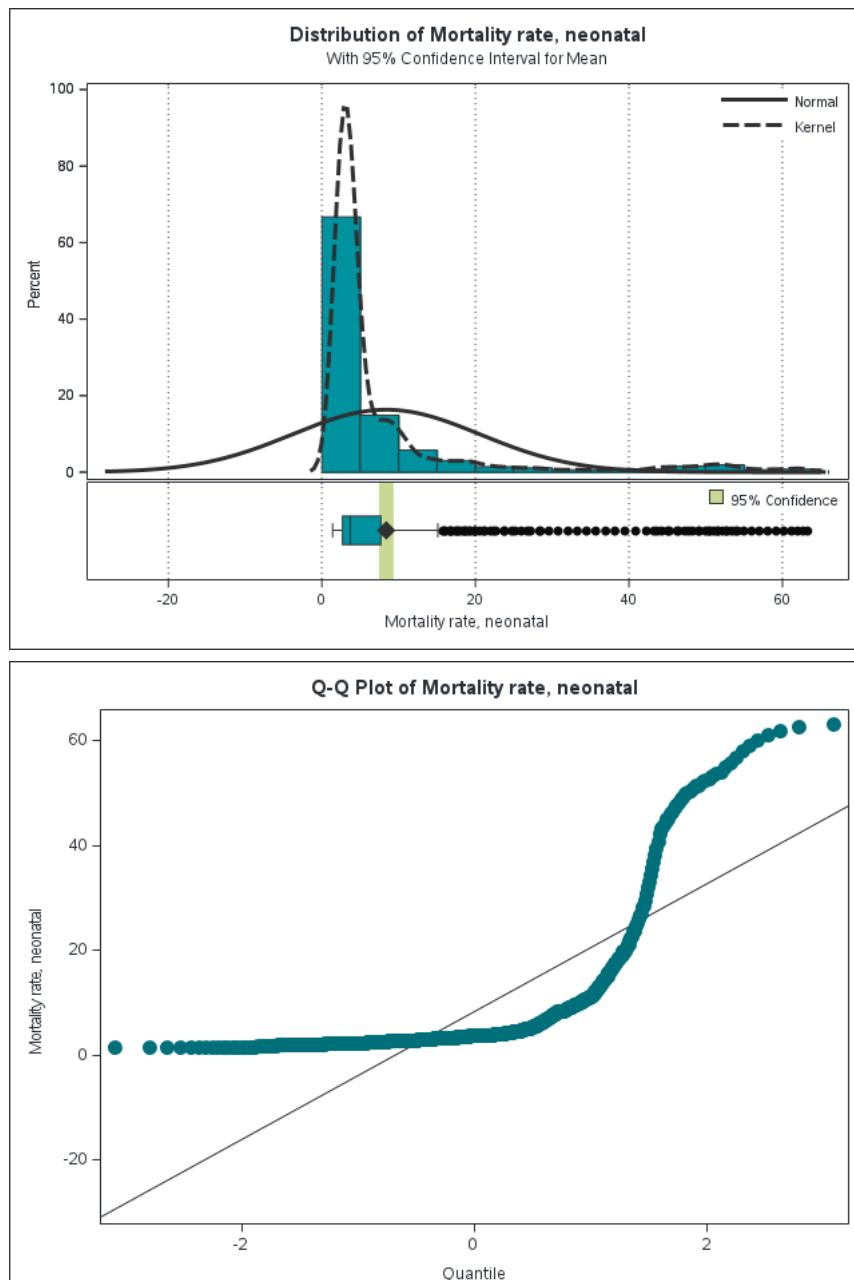


Variable: Mortality rate, neonatal

N	Mean	Std Dev	Std Err	Minimum	Maximum
625	8.3880	12.2106	0.4884	1.4000	63.2000

Mean	95% CL Mean	Std Dev	95% CL Std Dev
8.3880	7.4288	9.3472	12.2106

DF	t Value	Pr > t
624	17.17	<.0001

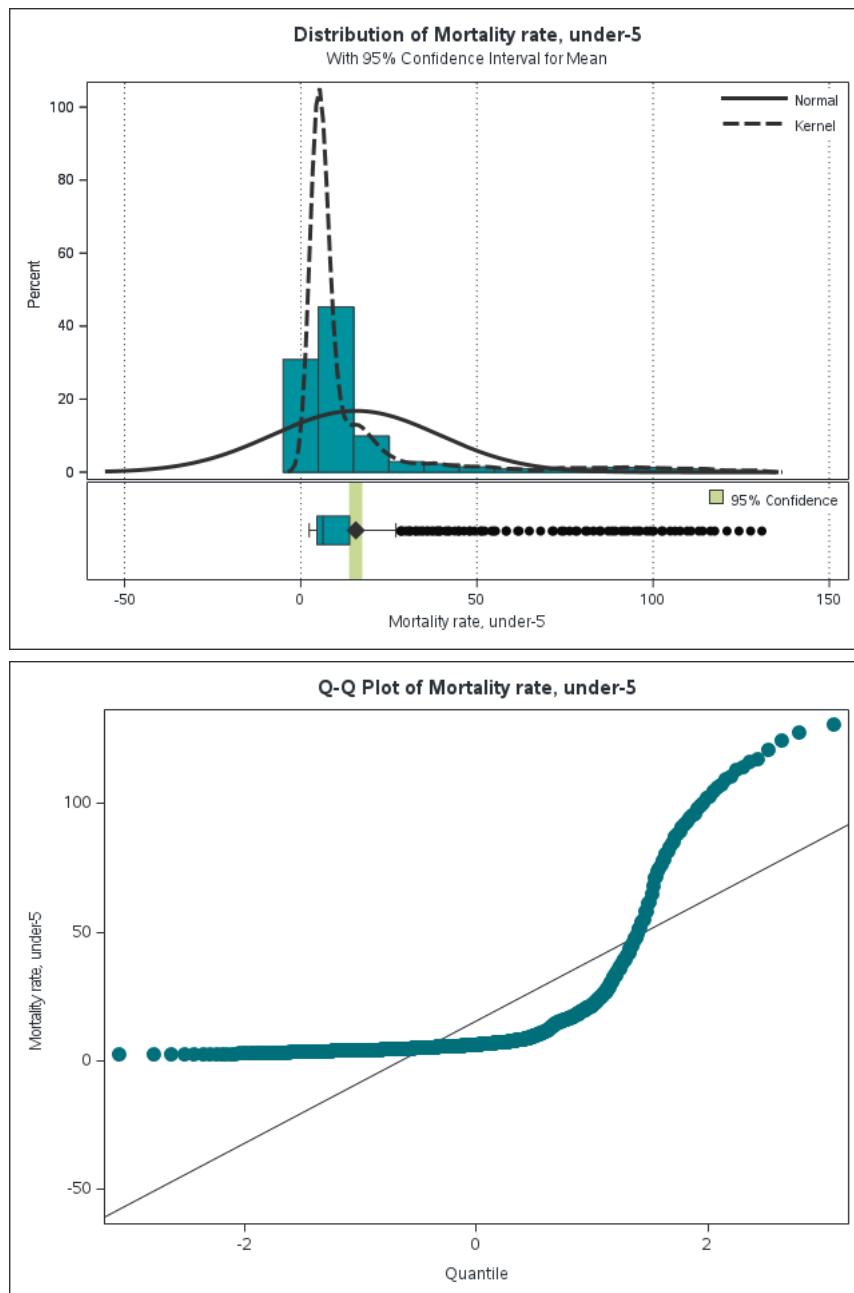


Variable: Mortality rate, under-5

N	Mean	Std Dev	Std Err	Minimum	Maximum
625	15.6450	23.7289	0.9492	2.4000	130.7

Mean	95% CL Mean	Std Dev	95% CL Std Dev
15.6450	13.7810	17.5089	23.7289

DF	t Value	Pr > t
624	16.48	<.0001

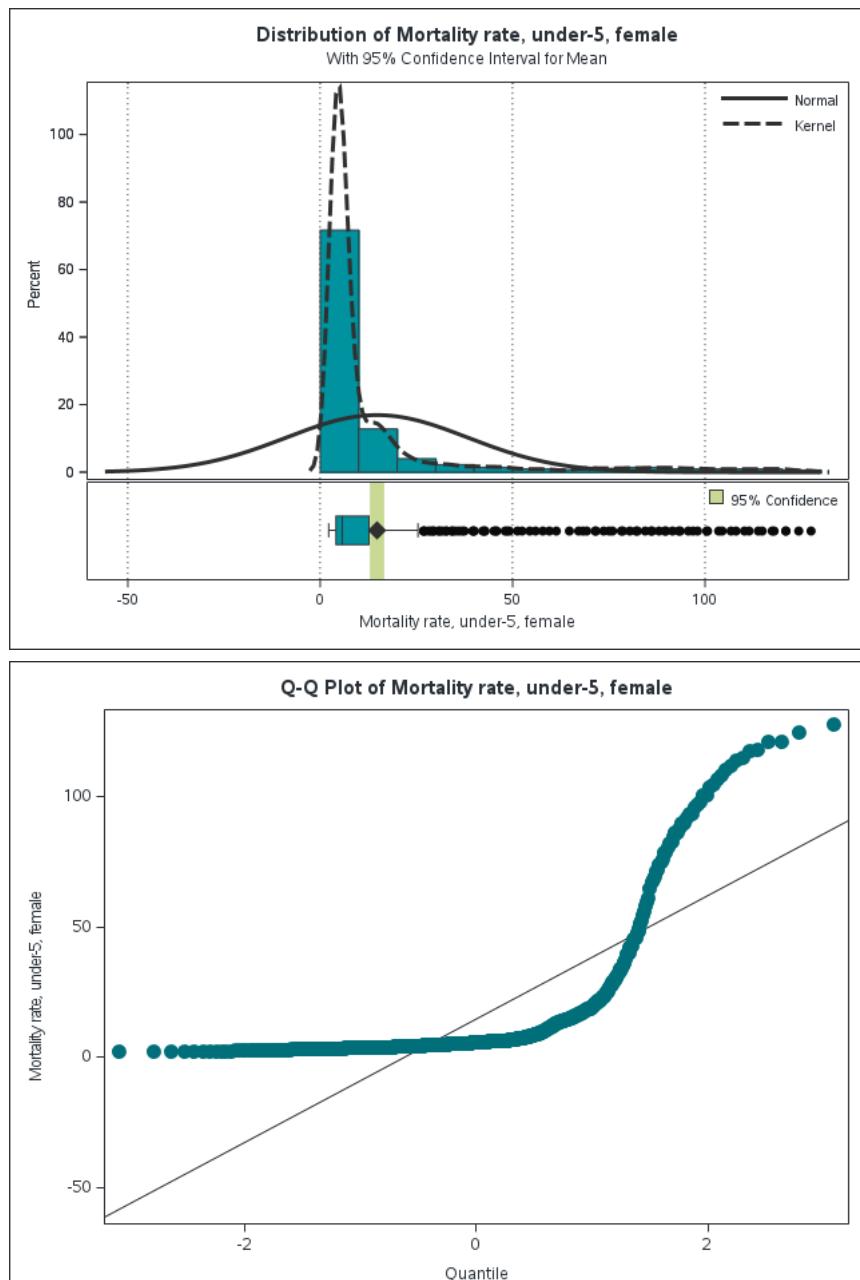


Variable: Mortality rate, under-5, female

N	Mean	Std Dev	Std Err	Minimum	Maximum
625	14.7802	23.5673	0.9427	2.2000	127.4

Mean	95% CL Mean	Std Dev	95% CL Std Dev
14.7802	12.9289	16.6314	23.5673

DF	t Value	Pr > t
624	15.68	<.0001

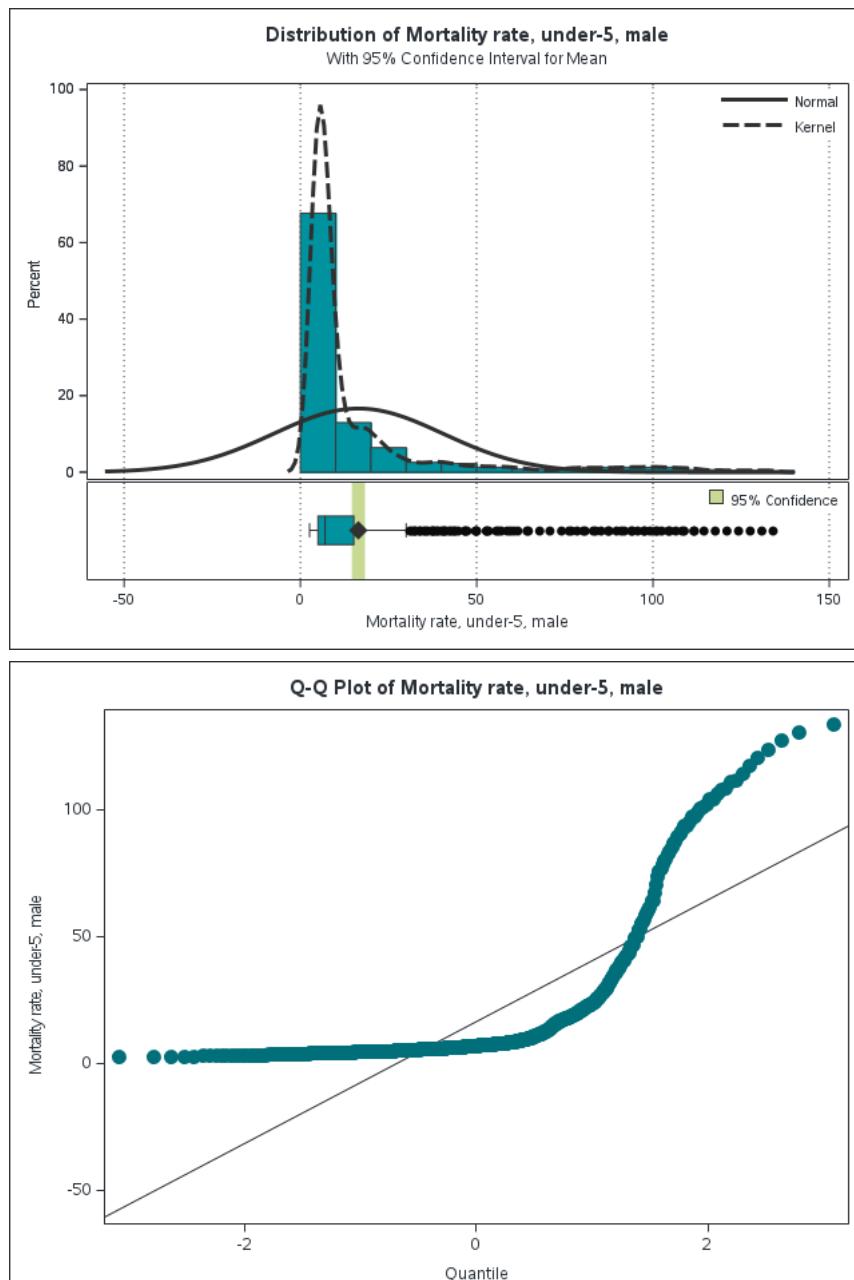


Variable: Mortality rate, under-5, male

N	Mean	Std Dev	Std Err	Minimum	Maximum
625	16.4728	23.9588	0.9584	2.6000	133.9

Mean	95% CL Mean	Std Dev	95% CL Std Dev
16.4728	14.5908	18.3548	23.9588

DF	t Value	Pr > t
624	17.19	<.0001

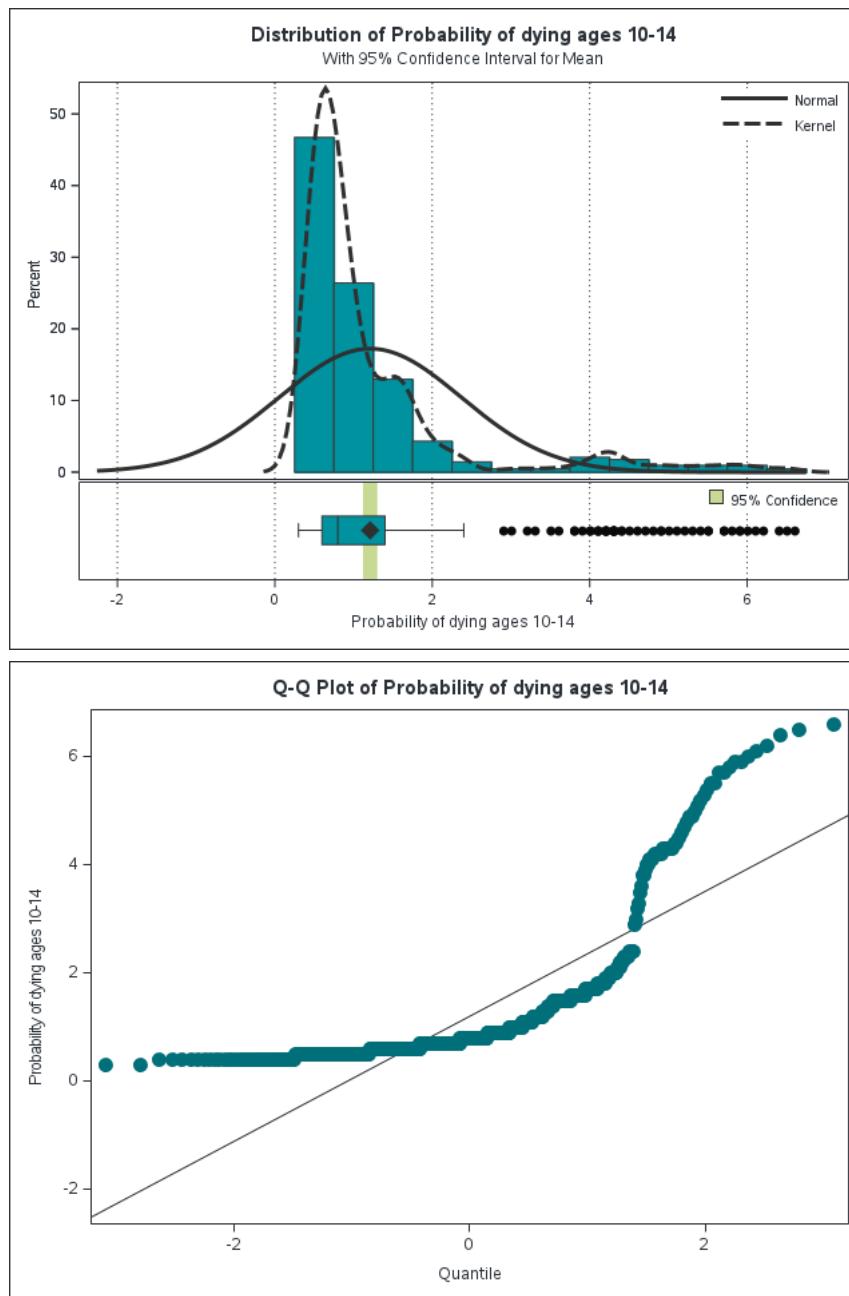


Variable: Probability of dying ages 10-14

N	Mean	Std Dev	Std Err	Minimum	Maximum
625	1.2120	1.1569	0.0463	0.3000	6.6000

Mean	95% CL Mean	Std Dev	95% CL Std Dev
1.2120	1.1211	1.3029	1.1569 1.0962 1.2249

DF	t Value	Pr > t
624	26.19	<.0001

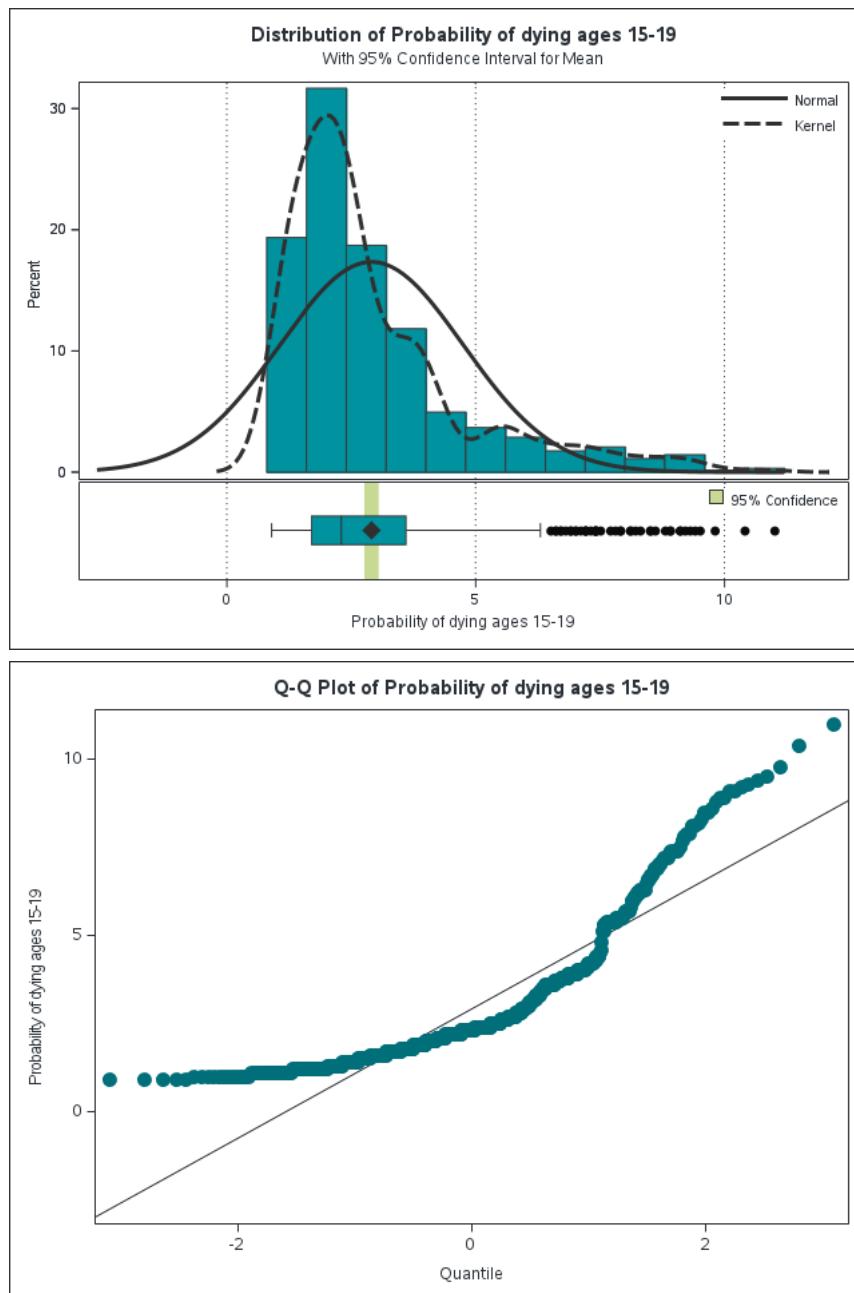


Variable: Probability of dying ages 15-19

N	Mean	Std Dev	Std Err	Minimum	Maximum
625	2.9091	1.8392	0.0736	0.9000	11.0000

Mean	95% CL Mean	Std Dev	95% CL Std Dev
2.9091	2.7646	3.0536	1.8392 1.7426 1.9473

DF	t Value	Pr > t
624	39.54	<.0001

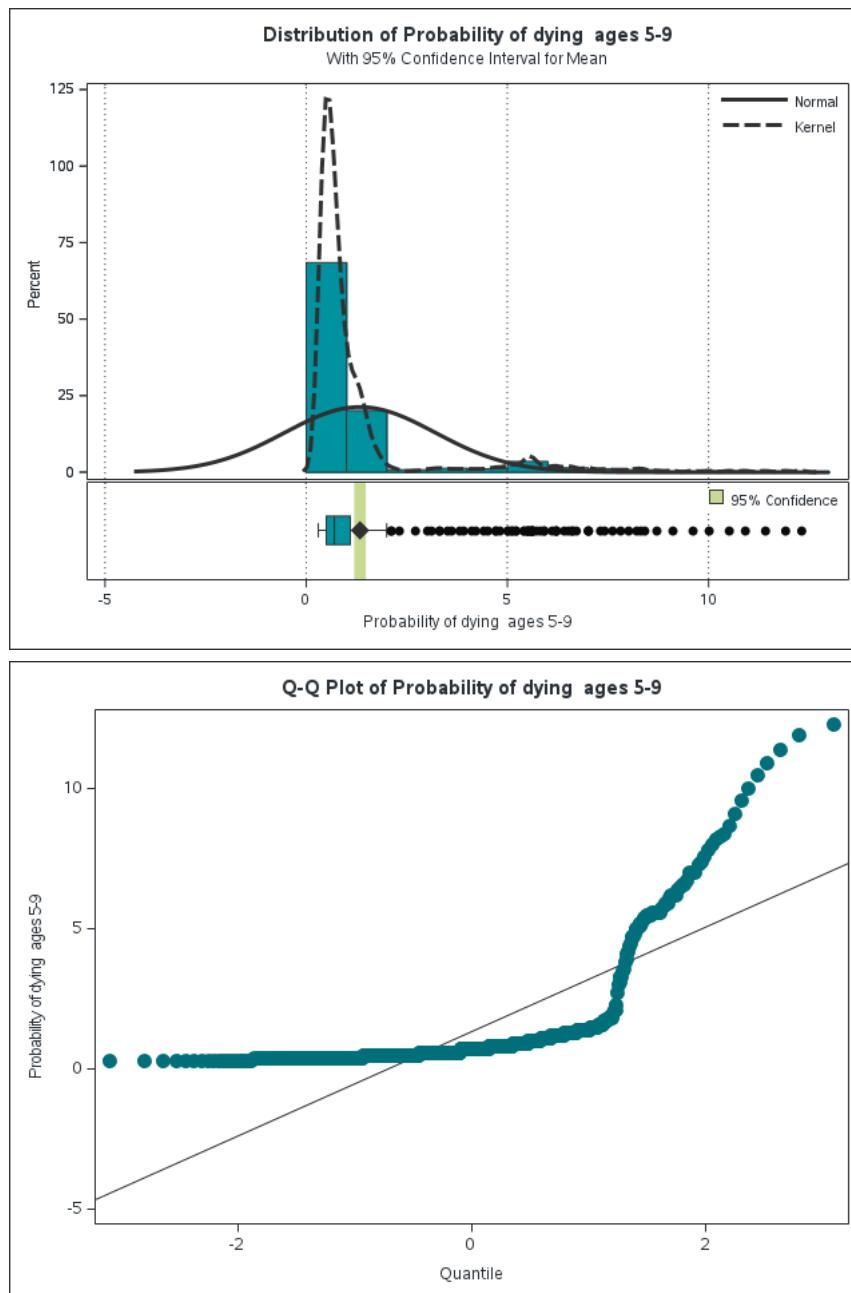


Variable: Probability of dying ages 5-9

N	Mean	Std Dev	Std Err	Minimum	Maximum
625	1.3386	1.8718	0.0749	0.3000	12.3000

Mean	95% CL Mean	Std Dev	95% CL Std Dev
1.3386	1.1915	1.4856	1.8718

DF	t Value	Pr > t
624	17.88	<.0001



Variable: Probability of dying ages 20-24

N	Mean	Std Dev	Std Err	Minimum	Maximum
625	3.9904	2.2965	0.0919	1.3000	13.9000

Mean	95% CL Mean	Std Dev	95% CL Std Dev
3.9904	3.8100	4.1708	2.2965 2.1759 2.4315

DF	t Value	Pr > t
624	43.44	<.0001

