H1 INTERRUPTED TIME SERIES MODEL
MO 2010-2016 HOSP Data

The AUTOREG Procedure

Dependent Variable	TCC
	Trend-Cycle Component

H1 INTERRUPTED TIME SERIES MODEL
MO 2010-2016 HOSP Data

The AUTOREG Procedure

Ordinary Least Squares Estimates			
SSE	18390.3205	**DFE**	68
MSE	270.44589	**Root MSE**	16.44524
SBC	620.523595	**AIC**	611.41693
MAE	13.4599228	**AICC**	612.013945
MAPE	1.67346319	**HQC**	615.04232
Durbin-Watson	0.1487	**Total R-Square**	0.8724

Parameter Estimates

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|
Intercept	1	889.6458	4.7999	185.35	<.0001
PRESLOPE	1	-1.9933	0.1139	-17.49	<.0001
INTERVENTION	1	-38.0740	12.6295	-3.01	0.0036
POSTSLOPE	1	5.5278	2.1231	2.60	0.0113

Estimates of Autocorrelations

Lag	Covariance	Correlation	-1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1
0	255.4	1.000000	| |********************|
1	225.3	0.882085	| |****************** |
2	187.1	0.732453	| |*************** |
3	143.2	0.560585	| |*********** |

Preliminary MSE	52.6560

Estimates of Autoregressive Parameters

Lag	Coefficient	Standard Error	t Value
1	-1.017196	0.082090	-12.39
3	0.184463	0.082090	2.25

Expected Autocorrelations

Lag	Autocorr
0	1.0000
1	0.8818
2	0.7343
3	0.5624

Coefficients for First NLAG Observations

	1	2	3
1	0.4547890944	0	0
2	-0.850113685	0.9641194937	0
3	0.1909110453	-1.034956127	0.9828394708

Algorithm converged.

H1 INTERRUPTED TIME SERIES MODEL
MO 2010-2016 HOSP Data

The AUTOREG Procedure

Maximum Likelihood Estimates			
SSE	982.722556	**DFE**	66
MSE	14.88974	**Root MSE**	3.85872
SBC	422.703232	**AIC**	409.043235
MAE	2.80693721	**AICC**	410.335543
MAPE	0.3533403	**HQC**	414.48132
Log Likelihood	-198.52162	**Transformed Regression R-Square**	0.4920
Durbin-Watson	1.6307	**Total R-Square**	0.9932
		Observations	72

Parameter Estimates

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|
Intercept	1	885.3505	10.9879	80.57	<.0001
PRESLOPE	1	-1.9446	0.2588	-7.51	<.0001
INTERVENTION	1	-8.6121	3.8958	-2.21	0.0305
POSTSLOPE	1	5.4132	2.7282	1.98	0.0514
AR1	1	-1.3316	0.0476	-28.00	<.0001
AR3	1	0.4327	0.0467	9.27	<.0001

Expected Autocorrelations

Lag	Autocorr
0	1.0000
1	0.9587
2	0.8618
3	0.7148

Coefficients for First NLAG Observations

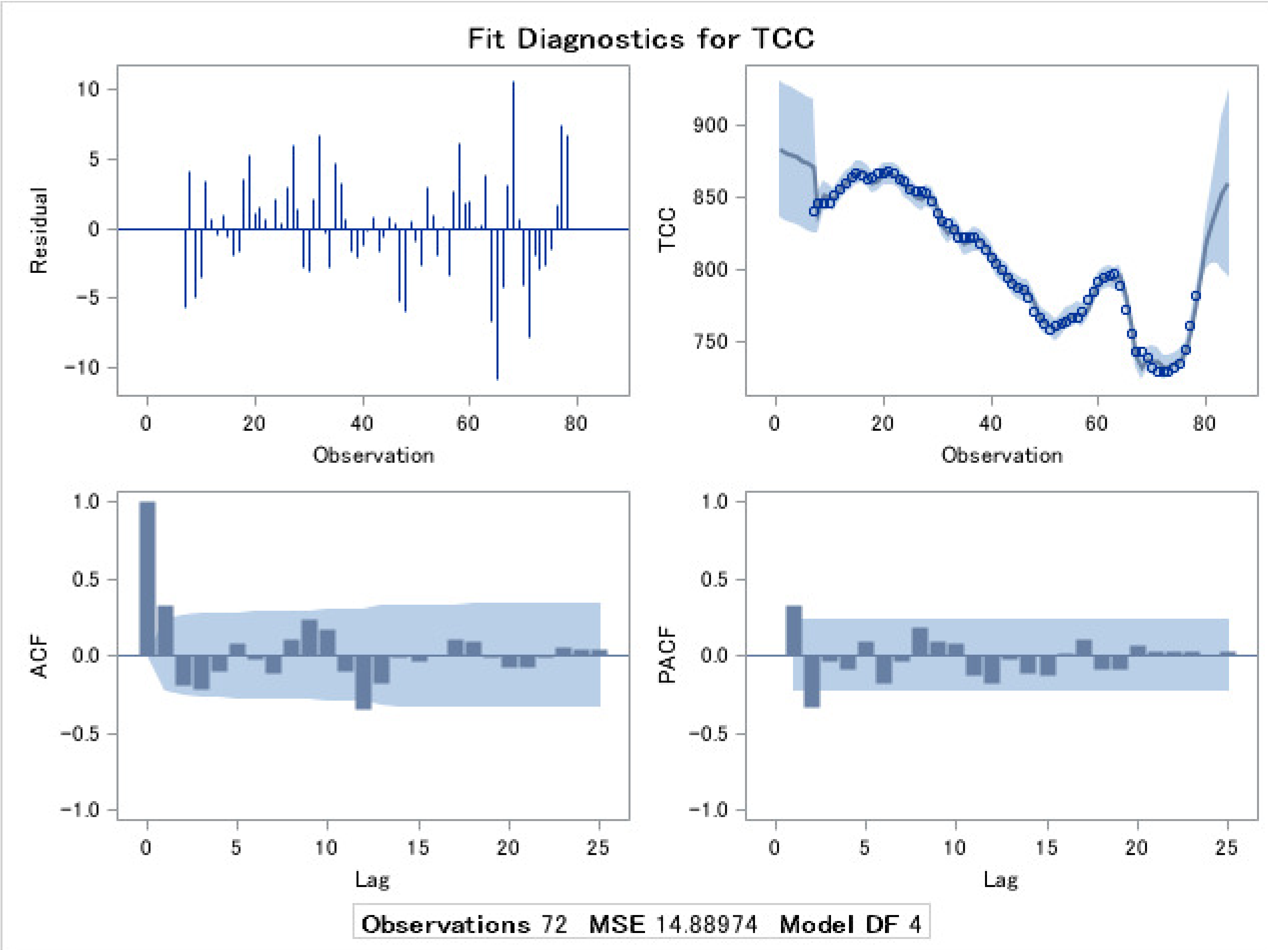
	1	2	3
1	0.1808711643	0	0
2	-0.609677615	0.6359411706	0
3	0.639041892	-1.476969181	0.9015518356

Autoregressive parameters assumed given

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|
Intercept	1	885.3505	10.9156	81.11	<.0001
PRESLOPE	1	-1.9446	0.2567	-7.58	<.0001
INTERVENTION	1	-8.6121	3.8523	-2.24	0.0288
POSTSLOPE	1	5.4132	2.4066	2.25	0.0278

H1 INTERRUPTED TIME SERIES MODEL
MO 2010-2016 HOSP Data

The AUTOREG Procedure



H2 INTERRUPTED TIME SERIES MODEL
MO 2010-2016 HOSP Data

The AUTOREG Procedure

Dependent Variable	TCC
	Trend-Cycle Component

H2 INTERRUPTED TIME SERIES MODEL
MO 2010-2016 HOSP Data

The AUTOREG Procedure

Ordinary Least Squares Estimates			
SSE	1249.79898	**DFE**	68
MSE	18.37940	**Root MSE**	4.28712
SBC	426.926989	**AIC**	417.820324
MAE	3.31456472	**AICC**	418.417339
MAPE	3.18894361	**HQC**	421.445715
Durbin-Watson	0.1290	**Total R-Square**	0.9142

Parameter Estimates

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|
Intercept	1	106.0692	1.2513	84.77	<.0001
PRESLOPE	1	-0.0745	0.0297	-2.51	0.0146
INTERVENTION	1	7.8851	3.2924	2.39	0.0194
POSTSLOPE	1	6.3007	0.5535	11.38	<.0001

Estimates of Autocorrelations

Lag	Covariance	Correlation	-1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1
0	17.3583	1.000000	| |********************|
1	15.7564	0.907714	| |****************** |

Preliminary MSE	3.0560

Estimates of Autoregressive Parameters

Lag	Coefficient	Standard Error	t Value
1	-0.907714	0.051261	-17.71

Expected Autocorrelations

Lag	Autocorr
0	1.0000
1	0.9077

Coefficients for First NLAG Observations

	1
1	0.4195895372

Algorithm converged.

H2 INTERRUPTED TIME SERIES MODEL
MO 2010-2016 HOSP Data

The AUTOREG Procedure

Maximum Likelihood Estimates			
SSE	92.870467	**DFE**	67
MSE	1.38613	**Root MSE**	1.17734
SBC	246.887626	**AIC**	235.504296
MAE	0.83759578	**AICC**	236.413386
MAPE	0.79786594	**HQC**	240.036033
Log Likelihood	-112.75215	**Transformed Regression R-Square**	0.8239
Durbin-Watson	0.7624	**Total R-Square**	0.9936
		Observations	72

Parameter Estimates

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|
Intercept	1	97.4801	5.2638	18.52	<.0001
PRESLOPE	1	0.1476	0.1035	1.43	0.1584
INTERVENTION	1	-0.0417	1.2661	-0.03	0.9738
POSTSLOPE	1	6.2785	0.4004	15.68	<.0001
AR1	1	-0.9707	0.0249	-38.92	<.0001

Expected Autocorrelations

Lag	Autocorr
0	1.0000
1	0.9707

Coefficients for First NLAG Observations

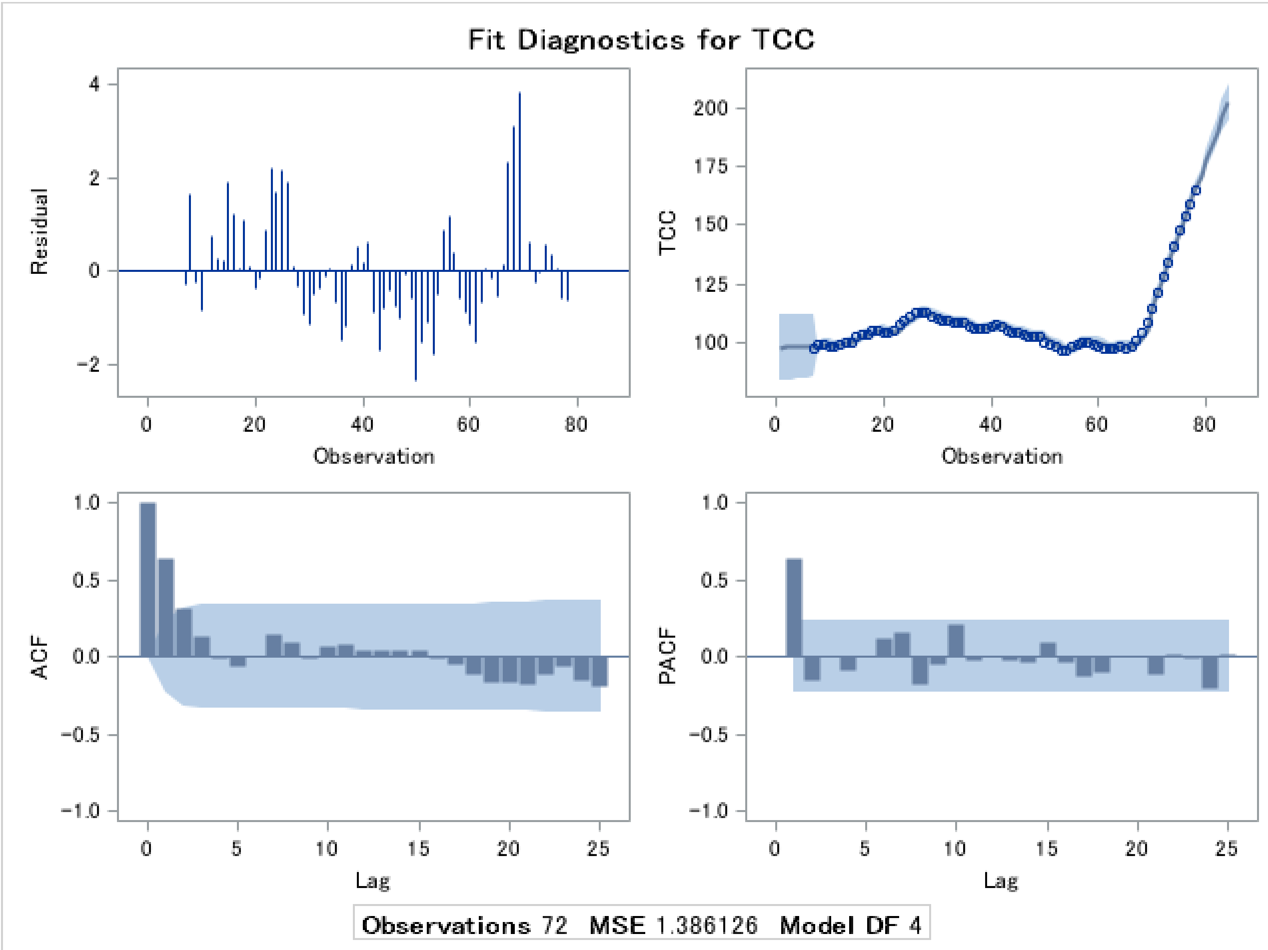
	1
1	0.2404727024

Autoregressive parameters assumed given

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|
Intercept	1	97.4801	5.2468	18.58	<.0001
PRESLOPE	1	0.1476	0.1021	1.45	0.1530
INTERVENTION	1	-0.0417	1.2660	-0.03	0.9738
POSTSLOPE	1	6.2785	0.3973	15.80	<.0001

H2 INTERRUPTED TIME SERIES MODEL
MO 2010-2016 HOSP Data

The AUTOREG Procedure



H3 INTERRUPTED TIME SERIES MODEL
MO 2010-2016 HOSP Data

The AUTOREG Procedure

Dependent Variable	TCC
	Trend-Cycle Component

H3 INTERRUPTED TIME SERIES MODEL
MO 2010-2016 HOSP Data

The AUTOREG Procedure

Ordinary Least Squares Estimates			
SSE	271.321335	**DFE**	68
MSE	3.99002	**Root MSE**	1.99750
SBC	316.95173	**AIC**	307.845066
MAE	1.5574031	**AICC**	308.442081
MAPE	6.96069446	**HQC**	311.470456
Durbin-Watson	0.0929	**Total R-Square**	0.8837

Parameter Estimates

Variable	DF	Estimate	Standard Error	t Value	Approx Pr > |t|
Intercept	1	17.1750	0.5830	29.46	<.0001
PRESLOPE	1	0.1419	0.0138	10.25	<.0001
INTERVENTION	1	1.5323	1.5340	1.00	0.3214
POSTSLOPE	1	1.5687	0.2579	6.08	<.0001

Estimates of Autocorrelations

Lag	Covariance	Correlation	-1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1
0	3.7684	1.000000	| |********************|
1	3.5913	0.953014	| |******************* |
2	3.2908	0.873270	| |***************** |
3	3.0326	0.804758	| |**************** |

Preliminary MSE	0.2791

Estimates of Autoregressive Parameters

Lag	Coefficient	Standard Error	t Value
1	-1.406181	0.120521	-11.67
2	0.692059	0.193850	3.57
3	-0.236324	0.120521	-1.96

Expected Autocorrelations

Lag	Autocorr
0	1.0000
1	0.9530
2	0.8733
3	0.8048

Coefficients for First NLAG Observations

	1	2	3
1	0.2721428089	0	0
2	-0.856164437	0.898375897	0
3	0.3702318491	-1.27885476	0.9716742636

Coefficients for First NLAG Observations			
	1	2	3

Algorithm converged.

H3 INTERRUPTED TIME SERIES MODEL
MO 2010-2016 HOSP Data

The AUTOREG Procedure

Maximum Likelihood Estimates			
SSE	10.0766978	**DFE**	65
MSE	0.15503	**Root MSE**	0.39373
SBC	96.4454262	**AIC**	80.5087633
MAE	0.29105675	**AICC**	82.2587633
MAPE	1.21110105	**HQC**	86.853196
Log Likelihood	-33.254382	**Transformed Regression R-Square**	0.6341
Durbin-Watson	1.7389	**Total R-Square**	0.9957
		Observations	72

Parameter Estimates					
Variable	**DF**	**Estimate**	**Standard Error**	**t Value**	**Approx Pr > |t|**
Intercept	1	16.0327	2.0839	7.69	<.0001
PRESLOPE	1	0.1793	0.0468	3.83	0.0003
INTERVENTION	1	-1.1069	0.3651	-3.03	0.0035
POSTSLOPE	1	1.7005	0.2286	7.44	<.0001
AR1	1	-1.6563	0.1226	-13.51	<.0001
AR2	1	0.9327	0.2136	4.37	<.0001
AR3	1	-0.2400	0.1247	-1.92	0.0587

Expected Autocorrelations	
Lag	**Autocorr**
0	1.0000
1	0.9694
2	0.9054
3	0.8355

Coefficients for First NLAG Observations			
	1	**2**	**3**
1	0.1962029868	0	0
2	-0.774529165	0.7989937664	0
3	0.5513781175	-1.475548288	0.970777455

Autoregressive parameters assumed given					
Variable	**DF**	**Estimate**	**Standard Error**	**t Value**	**Approx Pr > |t|**
Intercept	1	16.0327	2.0094	7.98	<.0001
PRESLOPE	1	0.1793	0.0437	4.11	0.0001
INTERVENTION	1	-1.1069	0.3535	-3.13	0.0026
POSTSLOPE	1	1.7005	0.2161	7.87	<.0001

H3 INTERRUPTED TIME SERIES MODEL
MO 2010-2016 HOSP Data

The AUTOREG Procedure