Case1: Gender and TTR within TOP1 implants for THA

Trident / Accolade II = YES, n = 9941

Pulled from all primary THA (Conventional + conversion, N = 47664), same inclusion criteria used in 5-year report.

Note: These parameters are generated based on the most recent 5-year report datasets

hip_devices_wide_01aug2017

Thomas

08/04/2017

THA: Primary Total Hip Arthroplasty (Conventional + conversion)

Limited to top 1 implant = "Trident / Accolade II"

Overall Gender and Revision : Top1 Overall N = 9941

Gender_ID1	Gender_Value1	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1	Male	4543	45.70	4543	45.70
2	Female	5390	54.22	9933	99.92
999	Unknown	8	0.08	9941	100.00

Revision	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	9812	98.70	9812	98.70
1	129	1.30	9941	100.00

Top1 Overall N = 9941 — Revision Rate by Gender

Gender_ID1	Gender_Value1	Revision	Frequency	Percent	Cumulative Frequency	Cumulative Percent
2	Female	0	5305	98.42	5305	98.42
2	Female	1	85	1.58	5390	100.00

Gender_ID1	Gender_Value1	Revision	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1	Male	0	4499	99.03	4499	99.03
1	Male	1	44	0.97	4543	100.00

TTR for Top1 by gender

Gender_Value1	N Obs	Variable	Label	N	N Miss	Mean	Std Dev	Median	Quartile Range
Female	5390	DaysToRevision		88	5302	316.4	364.7	154.0	484.5
		DaysToRevision_fix	DaysToRevision_fix: time to 1st revision	5390	0	554.0	399.5	477.5	617.0
Male	4543	DaysToRevision		45	4498	300.1	293.2	153.0	476.0
		DaysToRevision_fix	DaysToRevision_fix: time to 1st revision	4543	0	535.7	401.5	451.0	625.0
Unknown	8	DaysToRevision		0	8	.	.	.	.
		DaysToRevision_fix	DaysToRevision_fix: time to 1st revision	8	0	958.4	230.2	1079.5	333.5

Overall TTR for Top1 Overall N = 9941

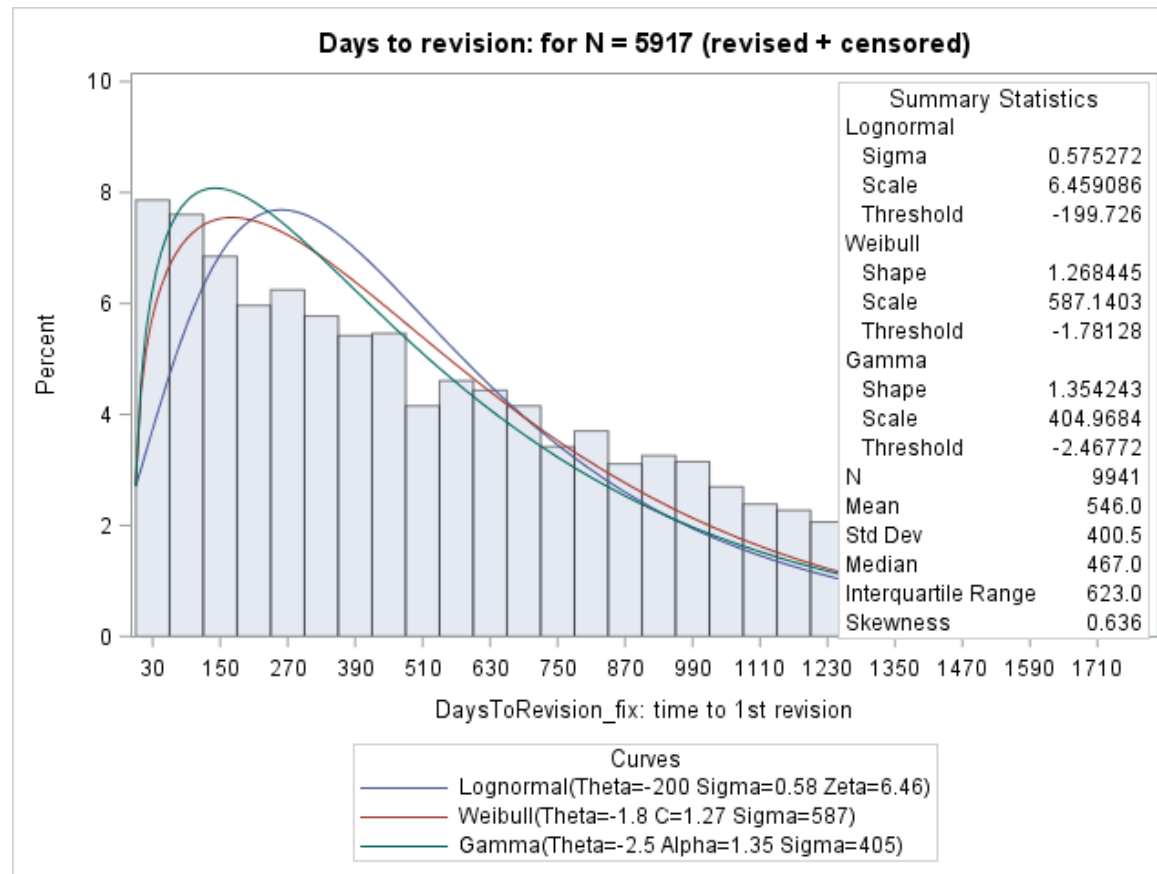| Variable	Label	N	N Miss	Mean	Std Dev	Median	Quartile Range
DaysToRevision		133	9808	310.9	341.1	153.0	497.0
DaysToRevision_fix	DaysToRevision_fix: time to 1st revision	9941	0	546.0	400.5	467.0	623.0

9808 censored at 12/31/2016.
So DaysToRevision_fix filled by #days from Date of Case to Study_end

THA: Primary Total Hip Arthroplasty (Conventional+conversion)

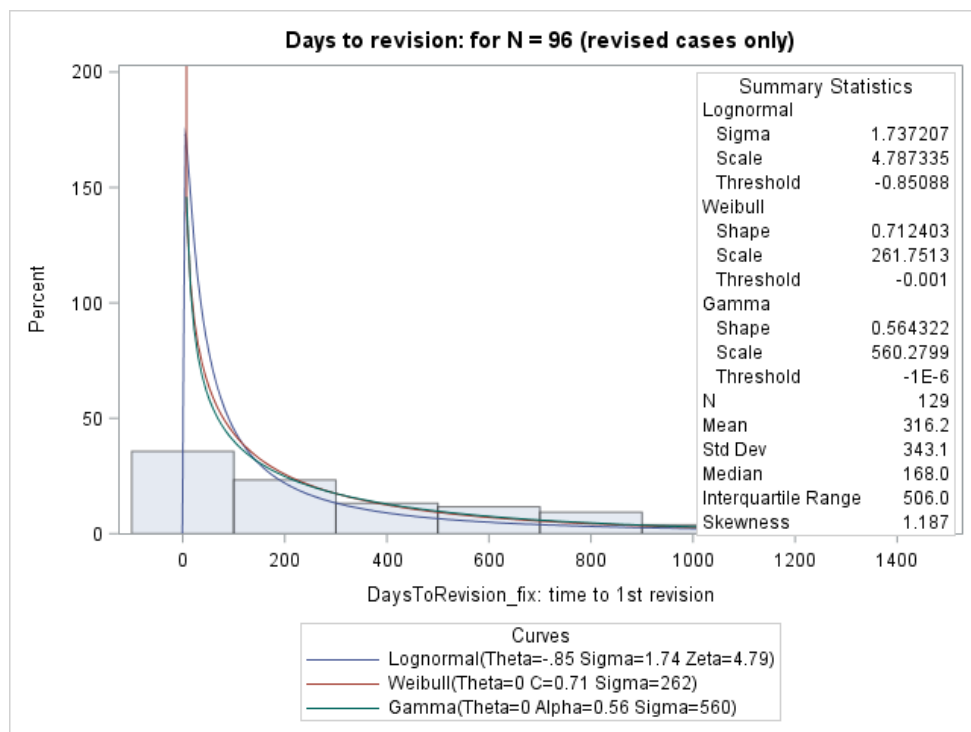Limited to top 1 implant = "Trident / Accolade II"

N = **9941**, including 129 revised (time to revision), and all other 9808 non-revised (time to censoring)
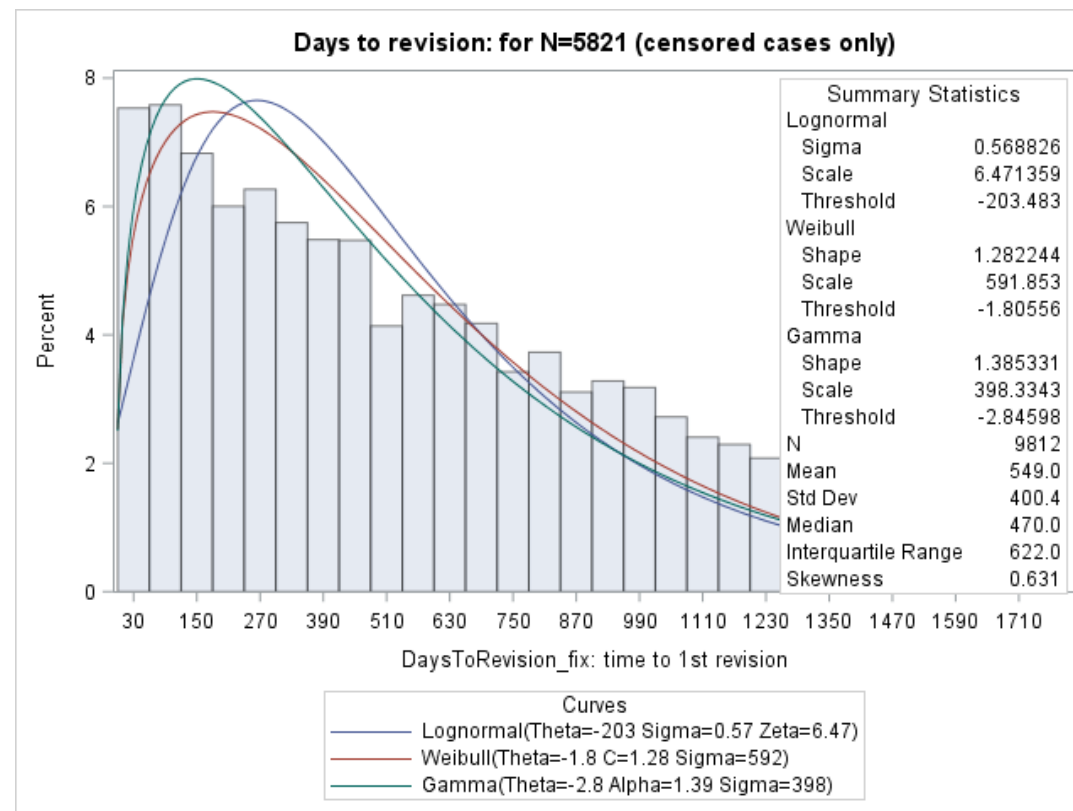
THA: Primary Total Hip Arthroplasty (Conventional + conversion)

Limited to top 1 implant = "Trident / Accolade II"

Days to revision: for N = 96 (revised cases only)

Summary Statistics	
Lognormal	
Sigma	1.737207
Scale	4.787335
Threshold	-0.85088
Weibull	
Shape	0.712403
Scale	261.7513
Threshold	-0.001
Gamma	
Shape	0.564322
Scale	560.2799
Threshold	-1E-6
N	129
Mean	316.2
Std Dev	343.1
Median	168.0
Interquartile Range	506.0
Skewness	1.187

Curves
Lognormal(Theta=-.85 Sigma=1.74 Zeta=4.79)
Weibull(Theta=0 C=0.71 Sigma=262)
Gamma(Theta=0 Alpha=0.56 Sigma=560)

Days to revision: for N=5821 (censored cases only)

Summary Statistics	
Lognormal	
Sigma	0.568826
Scale	6.471359
Threshold	-203.483
Weibull	
Shape	1.282244
Scale	591.853
Threshold	-1.80556
Gamma	
Shape	1.385331
Scale	398.3343
Threshold	-2.84598
N	9812
Mean	549.0
Std Dev	400.4
Median	470.0
Interquartile Range	622.0
Skewness	0.631

Curves
Lognormal(Theta=-203 Sigma=0.57 Zeta=6.47)
Weibull(Theta=-1.8 C=1.28 Sigma=592)
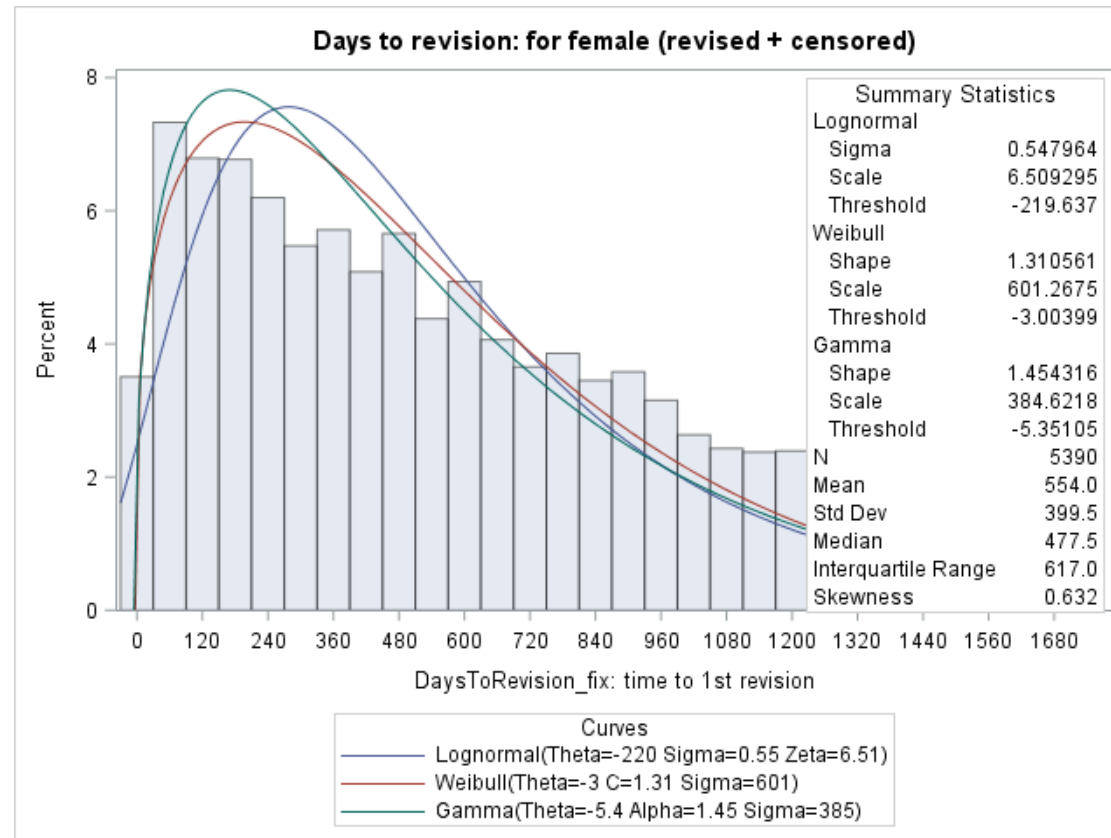Gamma(Theta=-2.8 Alpha=1.39 Sigma=398)

THA: Primary Total Hip Arthroplasty (Conventional + conversion)

Limited to top 1 implant = "Trident / Accolade II"

Female ONLY

including revised (time to revision), and non-revised (time to censoring)

Days to revision: for female (revised + censored)

THA: Primary Total Hip Arthroplasty (Conventional)Limited to top 1 implant = "Trident / Accolade II"

Female ONLY

Revised only (time to revision)

non-revised (time to censoring)

THA: Primary Total Hip Arthroplasty (Conventional) Limited to top 1 implant = "Trident / Accolade II"

Male ONLY

including revised (time to revision), and non-revised (time to censoring)

Days to revision: for male (revised + censored)

Summary Statistics	
Lognormal	
Sigma	0.61622
Scale	6.38573
Threshold	-171.905
Weibull	
Shape	1.222157
Scale	570.1816
Threshold	-0.79891
Gamma	
Shape	1.263707
Scale	424.495
Threshold	-0.75978
N	4543
Mean	535.7
Std Dev	401.5
Median	451.0
Interquartile Range	625.0
Skewness	0.645

DaysToRevision_fix: time to 1st revision

Curves
— Lognormal(Theta=-172 Sigma=0.62 Zeta=6.39)
— Weibull(Theta=-0.8 C=1.22 Sigma=570)
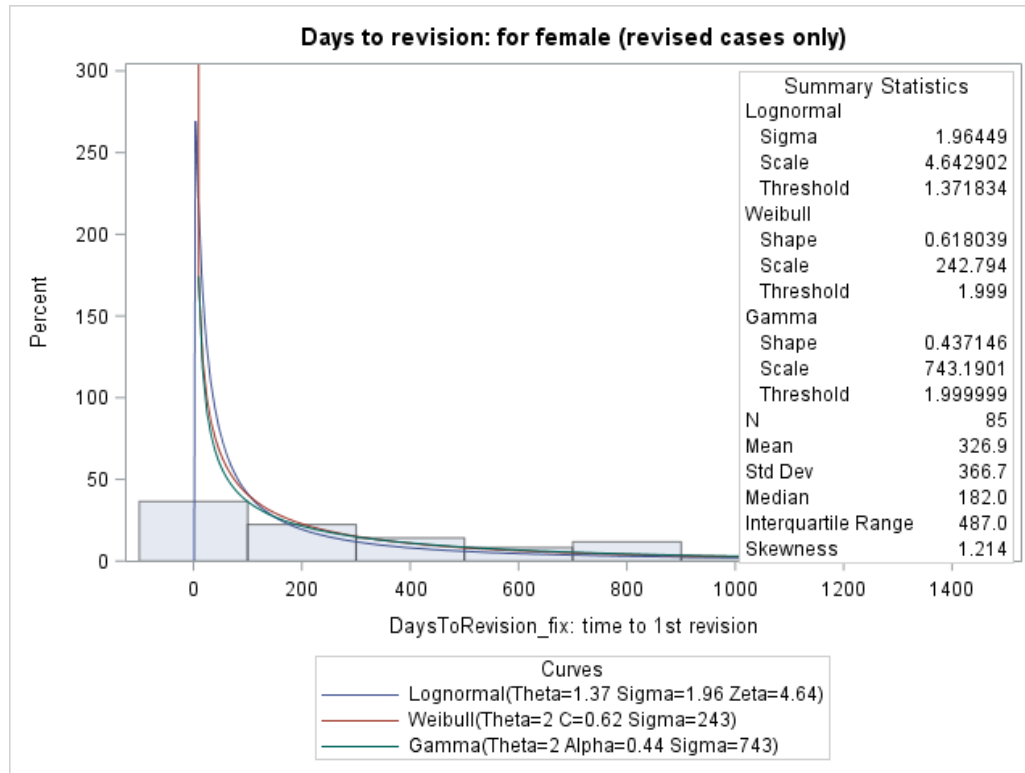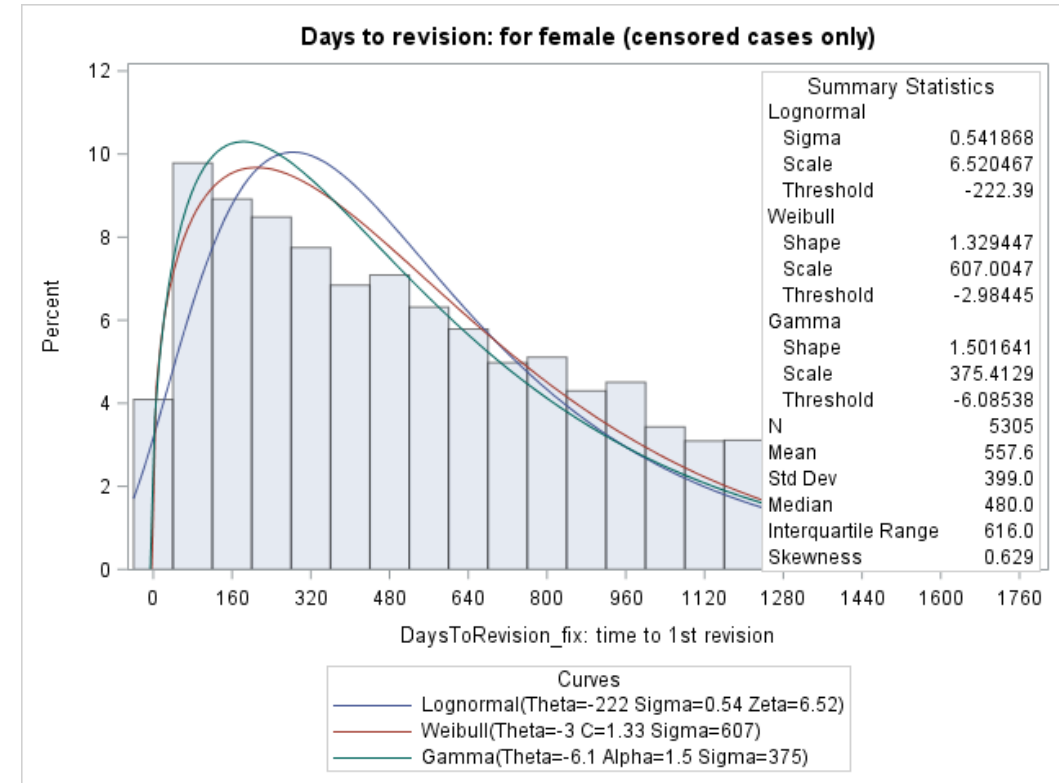— Gamma(Theta=-.76 Alpha=1.26 Sigma=424)

THA: Primary Total Hip Arthroplasty (Conventional) Limited to top 1 implant = "Trident / Accolade II"

Male ONLY

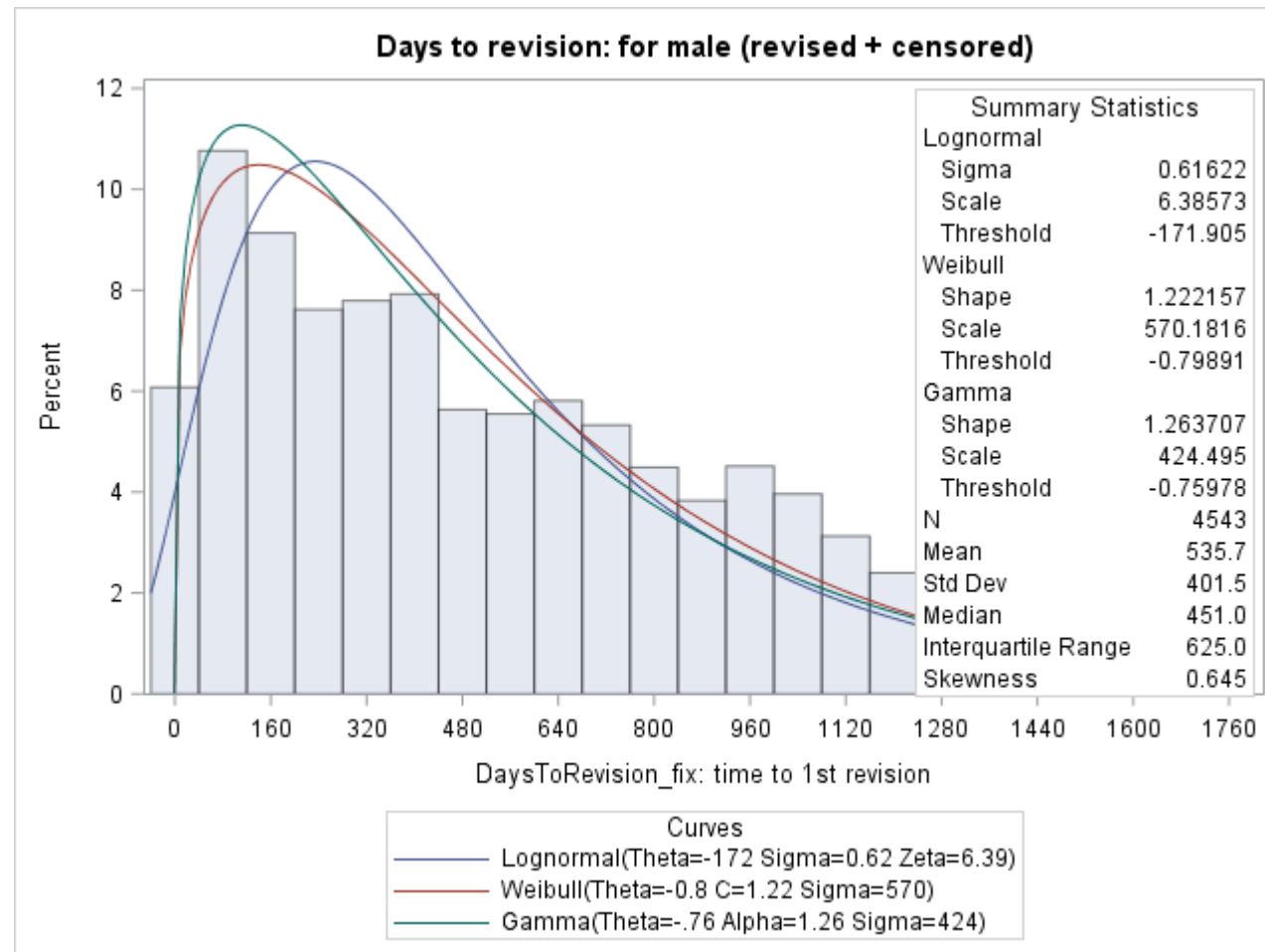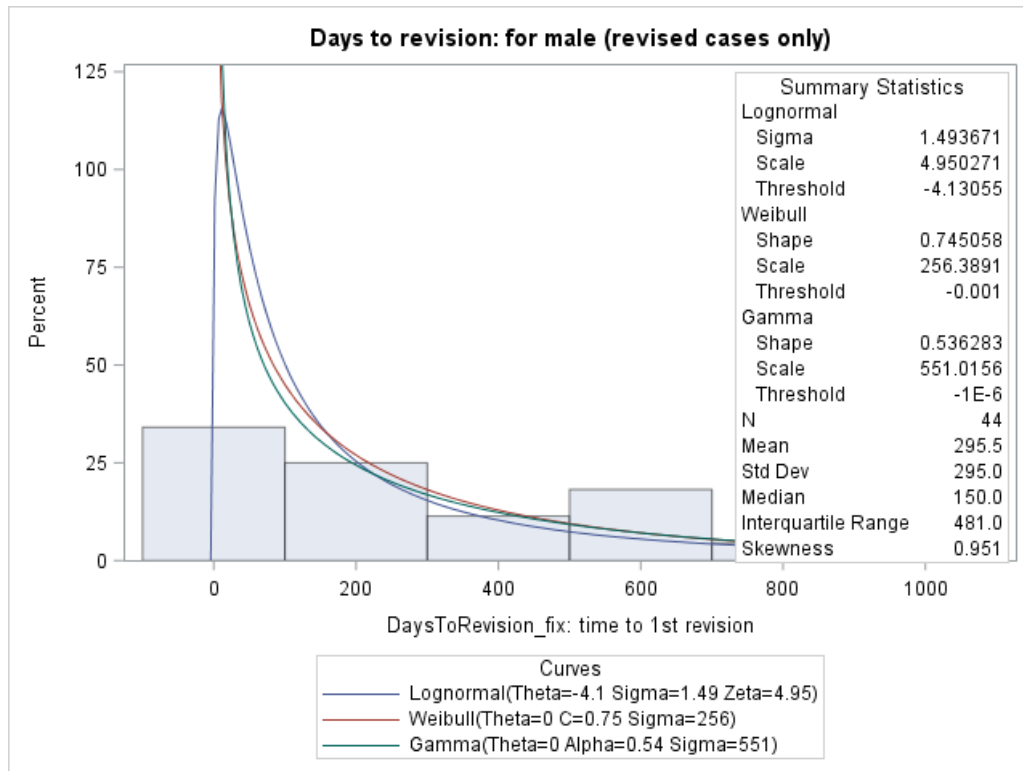revised (time to revision)

non-revised (time to censoring)

Days to revision: for male (revised cases only)

Summary Statistics	
Lognormal	
Sigma	1.493671
Scale	4.950271
Threshold	-4.13055
Weibull	
Shape	0.745058
Scale	256.3891
Threshold	-0.001
Gamma	
Shape	0.536283
Scale	551.0156
Threshold	-1E-6
N	44
Mean	295.5
Std Dev	295.0
Median	150.0
Interquartile Range	481.0
Skewness	0.951

DaysToRevision_fix: time to 1st revision

Curves
— Lognormal(Theta=-4.1 Sigma=1.49 Zeta=4.95)
— Weibull(Theta=0 C=0.75 Sigma=256)
— Gamma(Theta=0 Alpha=0.54 Sigma=551)

Days to revision: for male (censored cases only)

Summary Statistics	
Lognormal	
Sigma	0.610234
Scale	6.397438
Threshold	-175.642
Weibull	
Shape	1.229273
Scale	573.3619
Threshold	-0.6891
Gamma	
Shape	1.276789
Scale	421.943
Threshold	-0.70592
N	4499
Mean	538.0
Std Dev	401.7
Median	452.0
Interquartile Range	627.0
Skewness	0.641

DaysToRevision_fix: time to 1st revision

Curves
— Lognormal(Theta=-176 Sigma=0.61 Zeta=6.4)
— Weibull(Theta=-.69 C=1.23 Sigma=573)
— Gamma(Theta=-.71 Alpha=1.28 Sigma=422)