Case1: Gender and TTR within TOP1 implants for TKA

Persona / Persona **= YES, n = 18655**

Pulled from all primary TKA N = 82784**, same inclusion criteria used in 5-year report.**

Note: These parameters are generated based on the most recent 5-year report datasets
knee_devices_wide_01aug2017
Thomas
08/04/2017

KneeProcedureType_ID	KneeProcedureType_Value	Frequency	Percent	Cumulative Frequency	Cumulative Percent
.		2	0.00	2	0.00
1	Primary Total Knee Arthroplasty	82784	99.96	82786	99.96
3	Unicompartmental (Medial Condyle)	14	0.02	82800	99.98
4	Unicompartmental (Lateral condyle)	1	0.00	82801	99.98
5	Isolated Patella-Femoral Replacement	9	0.01	82810	99.99
6	Bicompartmental Knee Arthroplasty	6	0.01	82816	100.00

Obs	rank	Femur_Tibia_Name	N	percent
1	1	Persona / Persona	18655	22.53
2	2	Vanguard / Maxim	12115	14.63
3	3	Triathlon / Triathlon	10552	12.75
4	4	Triathlon / Triathlon TS	10259	12.39

TKA: Primary Conventional

Limited to top 1 implant = "Persona / Persona": N = **18655**

Overall Gender and Revision : Top1 Overall N = **18655**

Gender_ID1	Gender_Value1	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1	Male	6870	36.83	6870	36.83
2	Female	11784	63.17	18654	99.99
999	Unknown/Missing	1	0.01	18655	100.00

hadRevision				
hadRevision	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	18413	98.70	18413	98.70
1	242	1.30	18655	100.00

Top1 Overall N = **18655**
Revision Rate by Gender

Gender_ID1	Gender_Value1	hadRevision	Frequency	Percent	Cumulative Frequency	Cumulative Percent
2	Female	0	11640	98.78	11640	98.78
2	Female	1	144	1.22	11784	100.00

Gender_ID1	Gender_Value1	hadRevision	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1	Male	0	6772	98.57	6772	98.57
1	Male	1	98	1.43	6870	100.00

TTR for Top1 by gender

Overall TTR for Top1 Overall N = **18655**

Variable	Label	N	N Miss	Mean	Std Dev	Median	Quartile Range
DaysToRevision		259	18396	441.8	256.8	392.0	355.0
DaysToRevision_fix	DaysToRevision_fix: time to 1st revision	18655	0	581.1	372.7	550.0	612.0

Gender_Value1	N Obs	Variable	Label	N	N Miss	Mean	Std Dev	Median	Quartile Range
Female	11784	DaysToRevision		155	11629	448.8	226.2	413.0	324.0
		DaysToRevision_fix	DaysToRevision_fix: time to 1st revision	11784	0	582.0	369.8	551.0	609.0
Male	6870	DaysToRevision		104	6766	431.3	297.4	368.0	397.5
		DaysToRevision_fix	DaysToRevision_fix: time to 1st revision	6870	0	579.4	377.7	541.0	622.0
Unknown/Missing	1	DaysToRevision		0	1	.	.	.	.
		DaysToRevision_fix	DaysToRevision_fix: time to 1st revision	1	0	1193.0	.	1193.0	0.0

18396 censored.
So DaysToRevision_fix filled by #days from Date of Case to Study_end

TKA: Primary Conventional

Limited to top 1 implant = "Persona / Persona": N = **18655**

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

Days to revision: for (revised + censored)

Summary Statistics	
Lognormal	
Sigma	0.292233
Scale	7.130437
Threshold	-721.835
Weibull	
Shape	1.591631
Scale	672.328
Threshold	-24.5173
Gamma	
Shape	2.29584
Scale	278.3346
Threshold	-57.9222
N	18655
Mean	581.1
Std Dev	372.7
Median	550.0
Interquartile Range	612.0
Skewness	0.287

DaysToRevision_fix: time to 1st revision

Curves
- Lognormal(Theta=-722 Sigma=0.29 Zeta=7.13)
- Weibull(Theta=-25 C=1.59 Sigma=672)
- Gamma(Theta=-58 Alpha=2.3 Sigma=278)
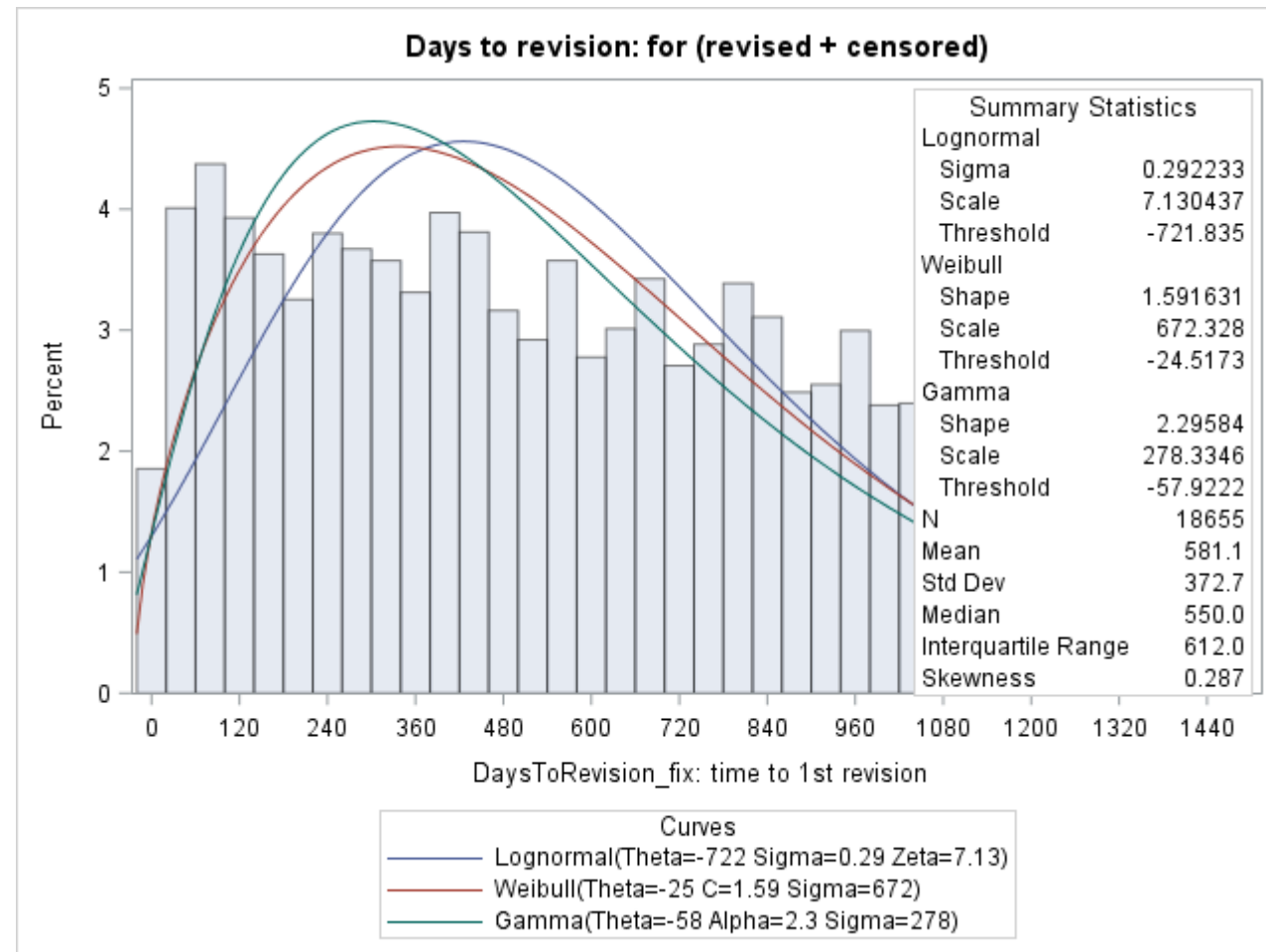
TKA: Primary Conventional
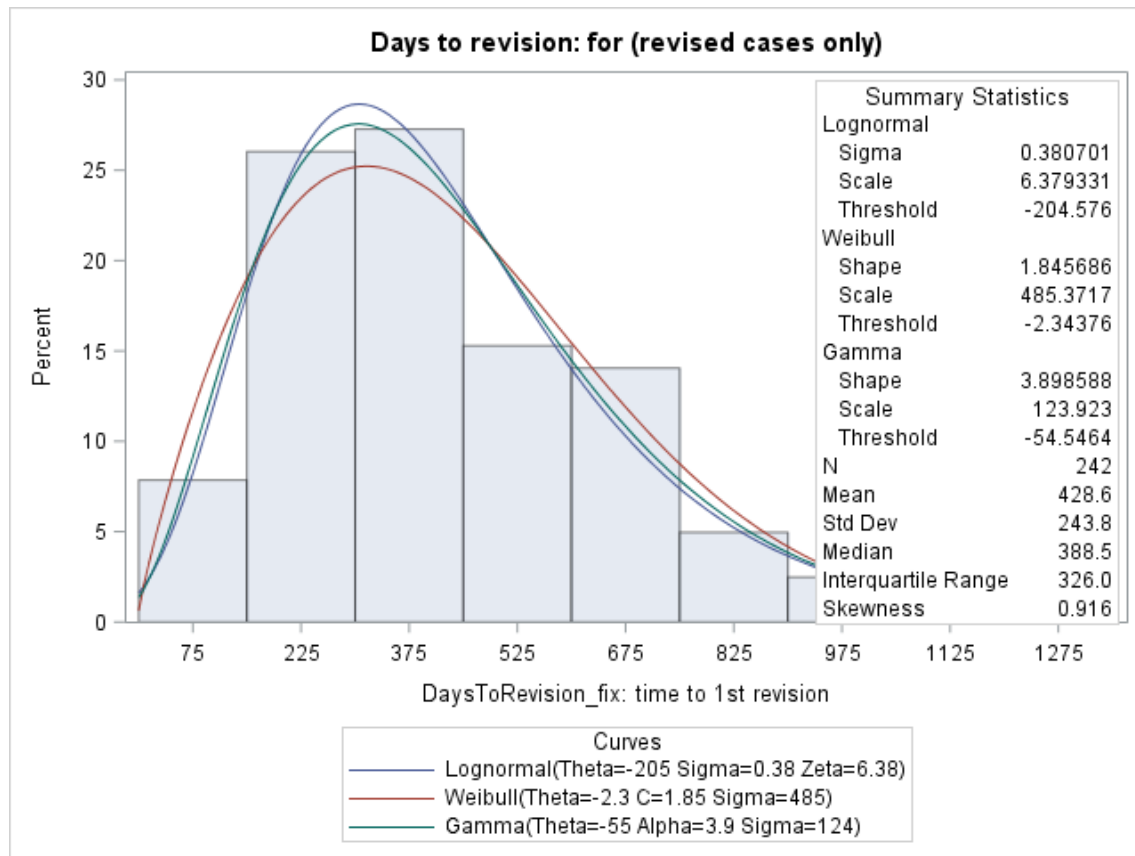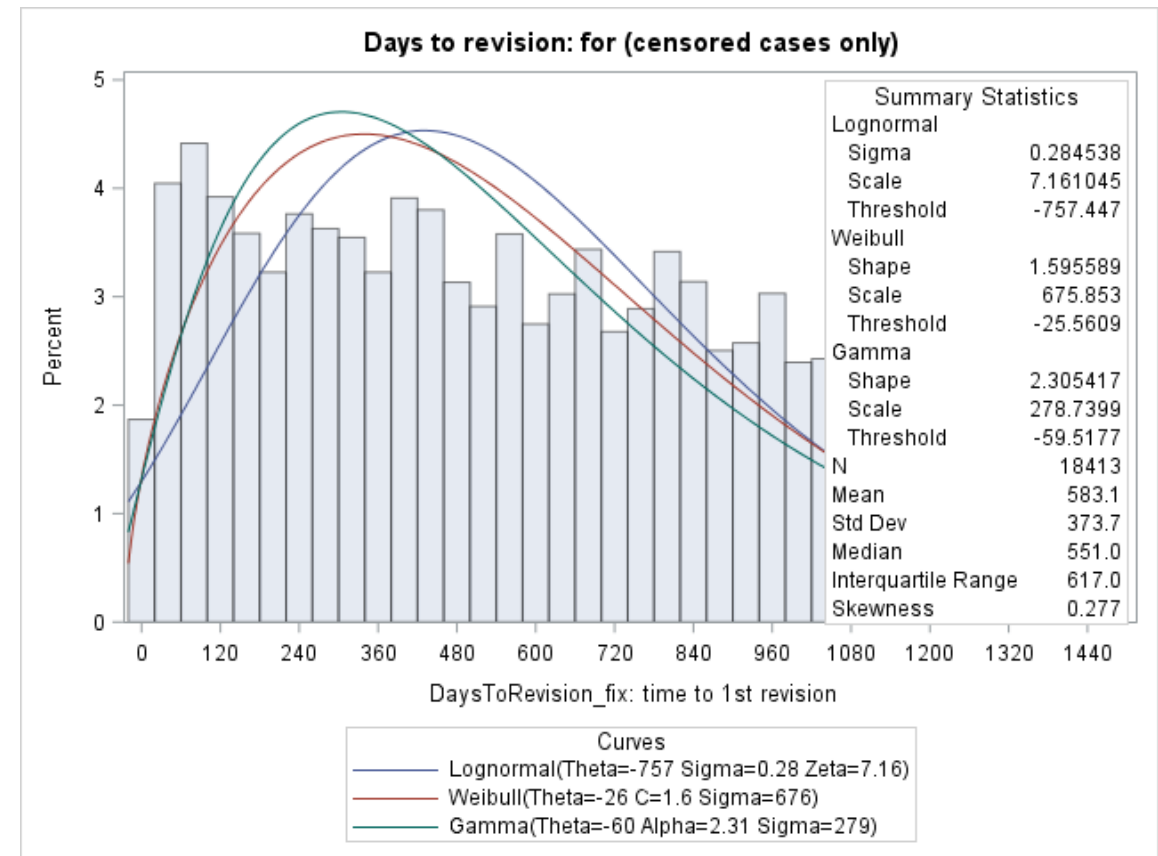
Limited to top 1 implant = "Persona / Persona": N = **18655**

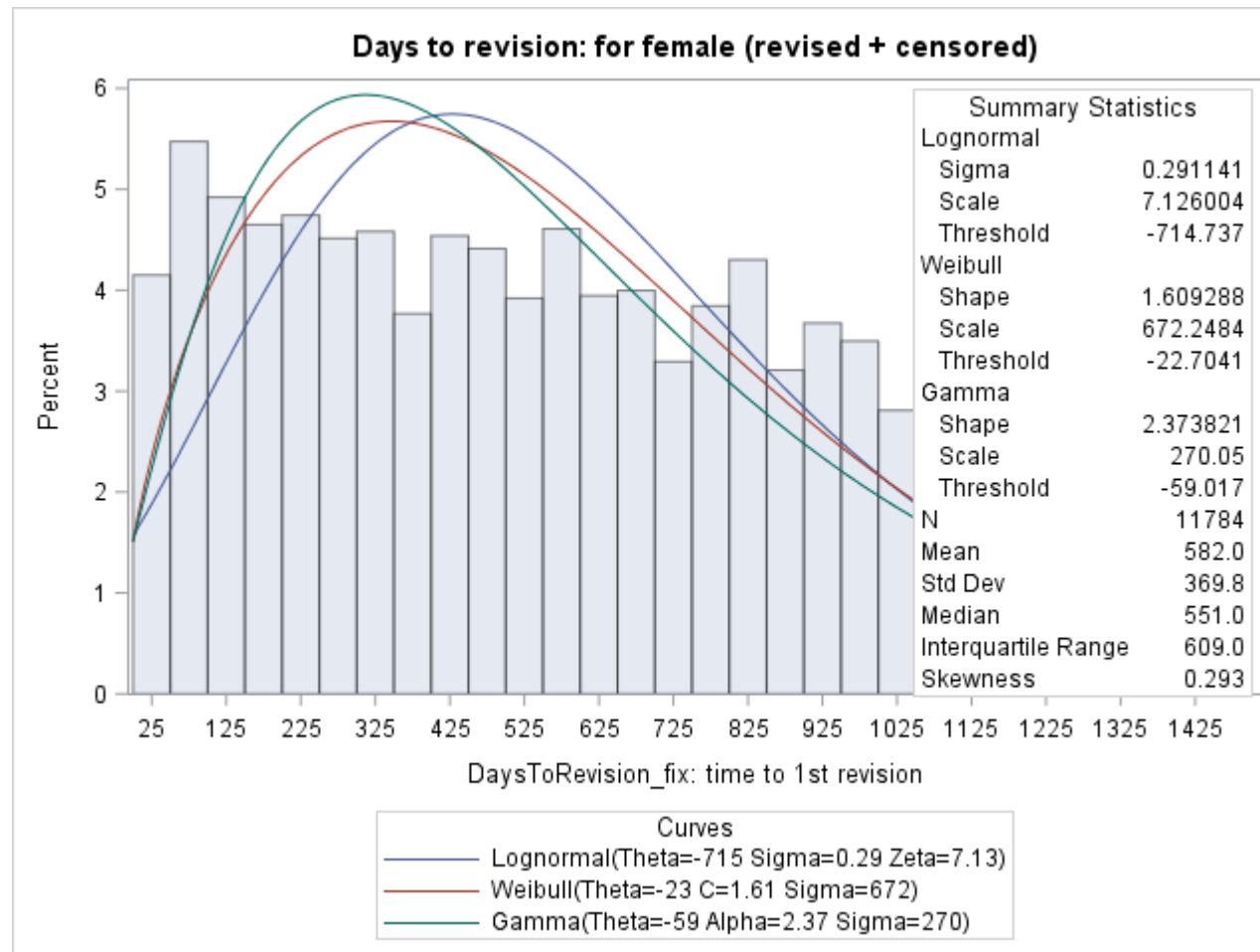revised (time to revision)

non-revised (time to censoring)

TKA: Primary Conventional

Limited to top 1 implant = "Persona / Persona": N = **18655**

Female ONLY

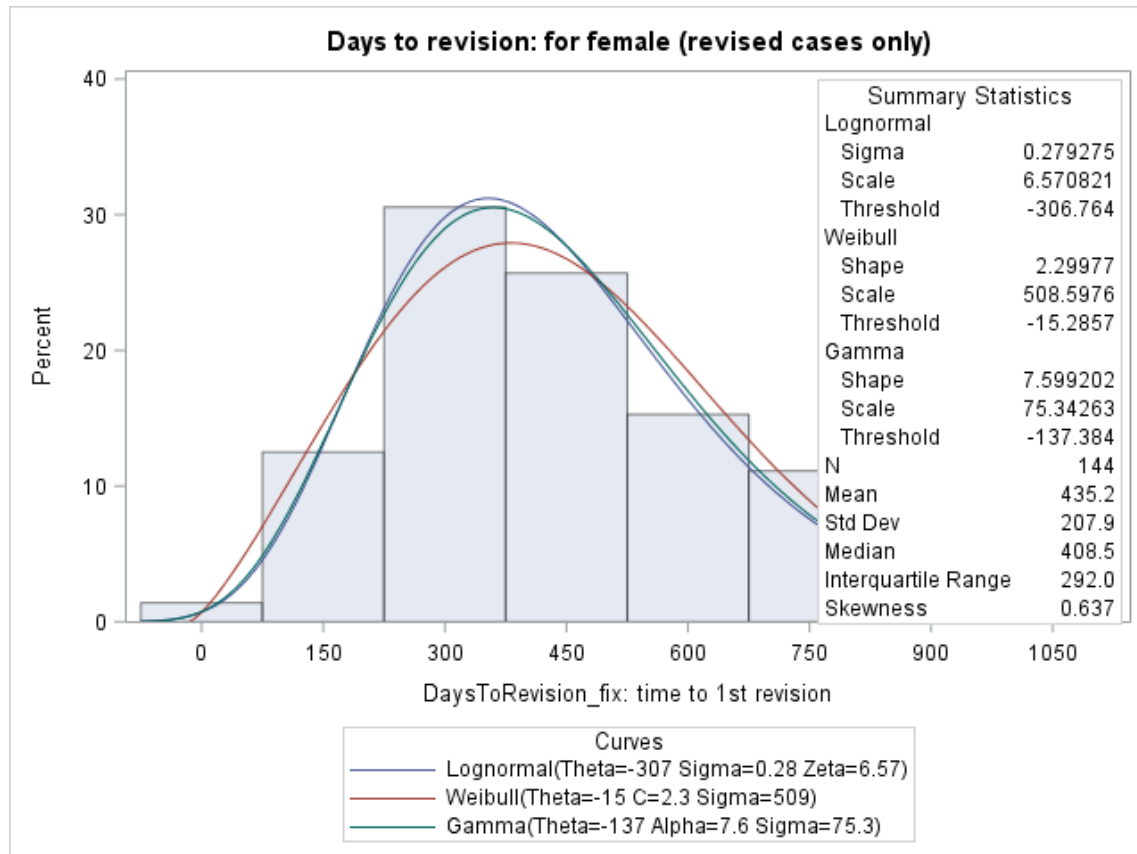including revised (time to revision), and non-revised (time to censoring)

Days to revision: for female (revised + censored)

Summary Statistics	
Lognormal	
Sigma	0.291141
Scale	7.126004
Threshold	-714.737
Weibull	
Shape	1.609288
Scale	672.2484
Threshold	-22.7041
Gamma	
Shape	2.373821
Scale	270.05
Threshold	-59.017
N	11784
Mean	582.0
Std Dev	369.8
Median	551.0
Interquartile Range	609.0
Skewness	0.293

DaysToRevision_fix: time to 1st revision

Curves
— Lognormal(Theta=-715 Sigma=0.29 Zeta=7.13)
— Weibull(Theta=-23 C=1.61 Sigma=672)
— Gamma(Theta=-59 Alpha=2.37 Sigma=270)
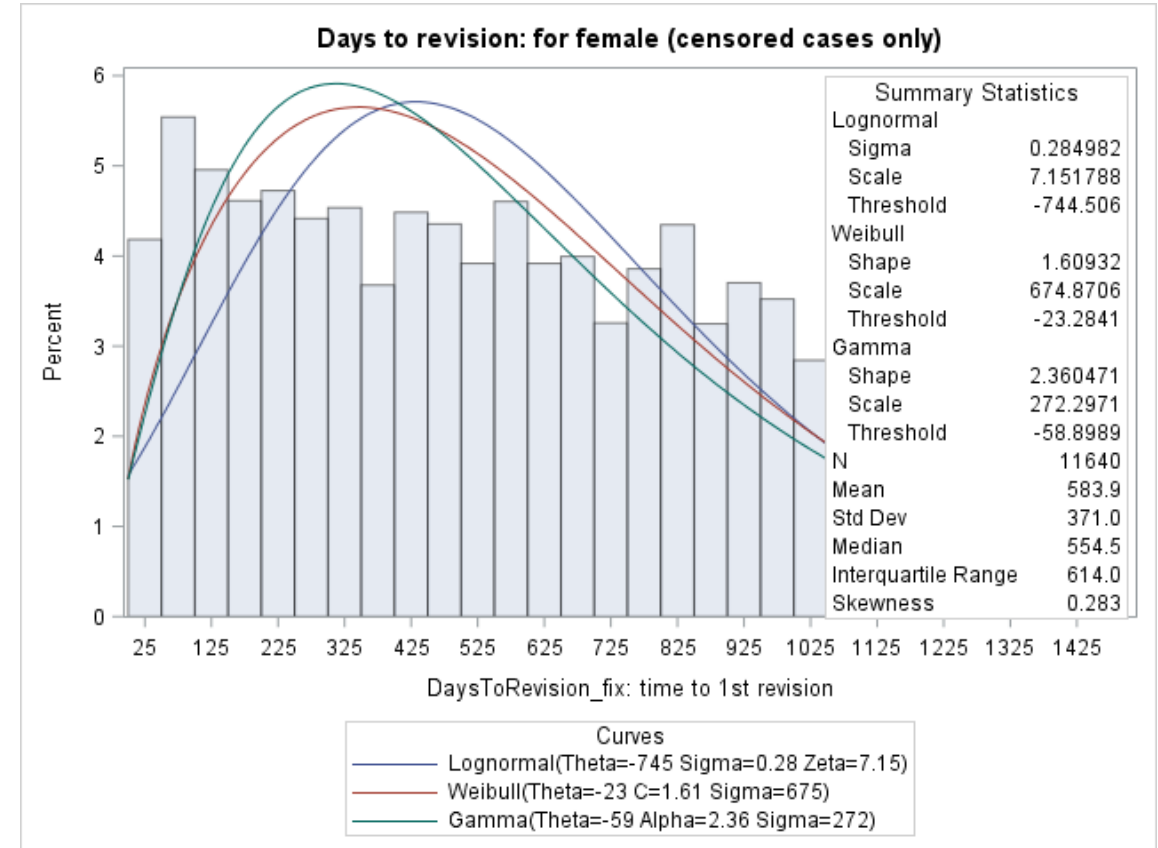
TKA: Primary Conventional

Limited to top 1 implant = "Persona / Persona": N = **18655**

Female ONLY

revised (time to revision)
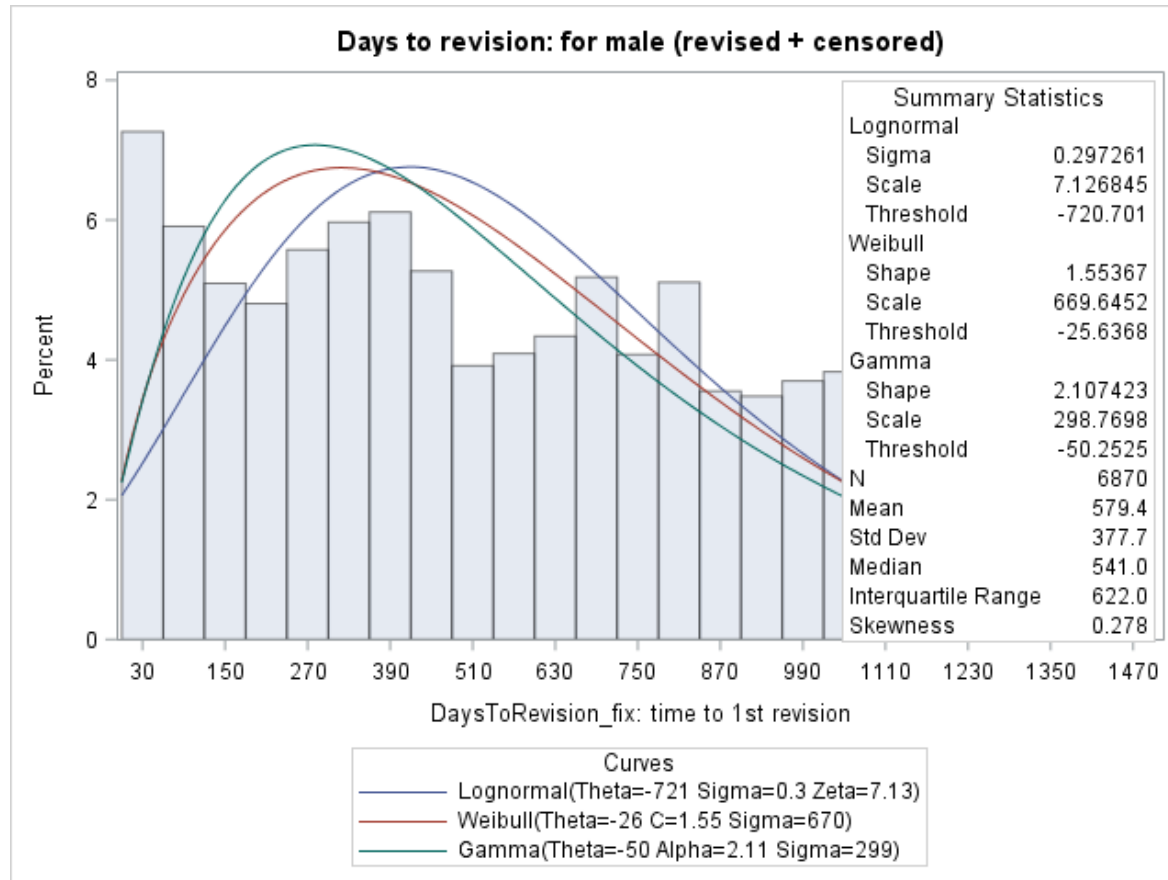
non-revised (time to censoring)

TKA: Primary Conventional

Limited to top 1 implant = "Persona / Persona": N = **18655**

Male ONLY

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

Days to revision: for male (revised + censored)

Summary Statistics	
Lognormal	
Sigma	0.297261
Scale	7.126845
Threshold	-720.701
Weibull	
Shape	1.55367
Scale	669.6452
Threshold	-25.6368
Gamma	
Shape	2.107423
Scale	298.7698
Threshold	-50.2525
N	6870
Mean	579.4
Std Dev	377.7
Median	541.0
Interquartile Range	622.0
Skewness	0.278

DaysToRevision_fix: time to 1st revision

Curves
— Lognormal(Theta=-721 Sigma=0.3 Zeta=7.13)
— Weibull(Theta=-26 C=1.55 Sigma=670)
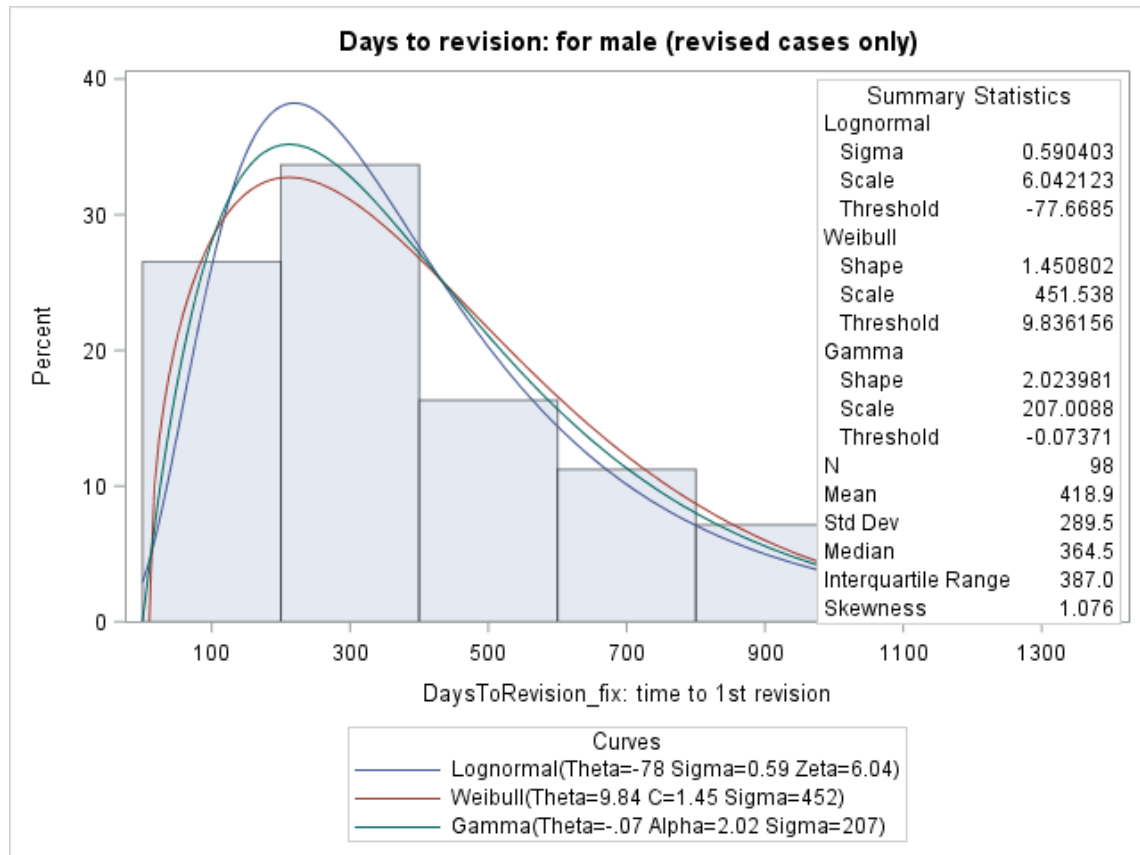— Gamma(Theta=-50 Alpha=2.11 Sigma=299)

TKA: Primary Conventional

Limited to top 1 implant = "Persona / Persona": N = **18655**

Male ONLY

revised (time to revision)

non-revised (time to censoring)