Obs	id	admitdate	foldate	los	lenfol	fstat	age	gender	bmi	time_yrs
1	1	03/13/19	03/19/19	4	6	1	65	0	31.3813	0.01643
2	2	01/14/19	01/23/19	5	374	1	88	1	22.6579	1.02396
3	3	02/17/19	10/04/20	5	2421	1	77	0	27.8789	6.62834
4	4	04/07/19	07/14/19	9	98	1	81	1	21.4788	0.26831
5	5	02/09/19	05/29/19	4	1205	1	78	0	30.7060	3.29911

Model Information			
Data Set	SURVIVAL.WHAS100		
Dependent Variable	Log(time_yrs)		
Censoring Variable	fstat		
Censoring Value(s)	0		
Number of Observations	100		
Noncensored Values	51		
Right Censored Values	49		
Left Censored Values	0		
Interval Censored Values	0		
Number of Parameters	1		
Name of Distribution	Exponential		
Log Likelihood	-147.334973		

Number of Observations Read	100
Number of Observations Used	100

Fit Statistics				
-2 Log Likelihood	294.670			
AIC (smaller is better)	296.670			
AICC (smaller is better)	296.711			
BIC (smaller is better)	299.275			

Fit Statistics (Unlogged Response)			
-2 Log Likelihood	315.137		
Exponential AIC (smaller is better)	317.137		
Exponential AICC (smaller is better)	317.178		
Exponential BIC (smaller is better)	319.742		

Algorithm converged.

	Analysis of Maximum Likelihood Parameter Estimates						
Parameter	DF	Estimate	Standard Error	Conf	5% idence nits	Chi-Square	Pr > ChiSq
Intercept	1	2.0896	0.1400	1.8151	2.3640	222.68	<.0001
Scale	0	1.0000	0.0000	1.0000	1.0000		
Weibull Scale	1	8.0815	1.1316	6.1419	10.6337		
Weibull Shape	0	1.0000	0.0000	1.0000	1.0000		

Lagrange Multiplier Statistics			
Parameter Chi-Square Pr > ChiS			
Scale	4.6314	0.0314	

Obs	time_yrs	LAMBDA_exp	S_exp	model
1	0.01643	0.002033	0.99797	ехр
2	0.01643	0.002033	0.99797	ехр
3	0.03833	0.004743	0.99527	ехр
4	0.12047	0.014906	0.98520	ехр
5	0.16975	0.021004	0.97921	ехр
6	0.24367	0.030151	0.97030	ехр
7	0.26831	0.033200	0.96734	ехр
8	0.28474	0.035233	0.96538	ехр
9	0.29295	0.036250	0.96440	ехр
10	0.31211	0.038621	0.96212	ехр

Model Information			
Data Set	SURVIVAL.WHAS100		
Dependent Variable	Log(time_yrs)		
Censoring Variable	fstat		
Censoring Value(s)	0		
Number of Observations	100		
Noncensored Values	51		
Right Censored Values	49		
Left Censored Values	0		
Interval Censored Values	0		
Number of Parameters	2		
Name of Distribution	Weibull		
Log Likelihood	-144.0876166		

Number of Observations Read	100
Number of Observations Used	100

Fit Statistics				
-2 Log Likelihood	288.175			
AIC (smaller is better)	292.175			
AICC (smaller is better)	292.299			
BIC (smaller is better)	297.386			

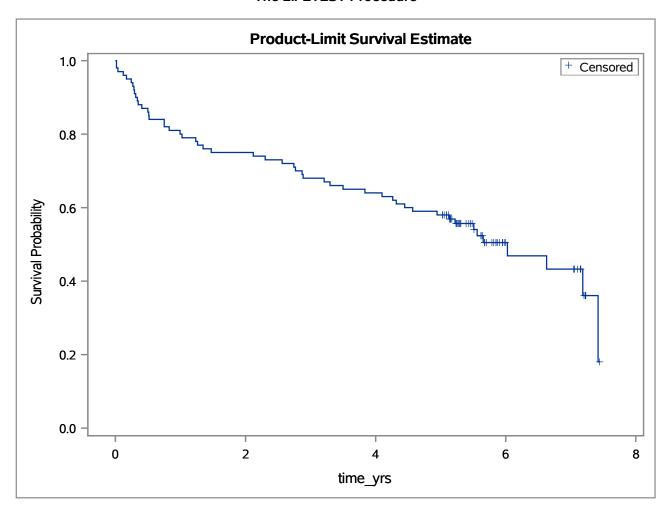
Fit Statistics (Unlogged Response)					
-2 Log Likelihood	308.642				
Weibull AIC (smaller is better)	312.642				
Weibull AICC (smaller is better)	312.766				
Weibull BIC (smaller is better)	317.852				

Algorithm converged.

Analysis of Maximum Likelihood Parameter Estimates								
Parameter	DF	Estimate	Standard Error	95% Confidence Limits		Chi-Square	Pr > ChiSq	
Intercept	1	2.2676	0.2117	1.8528	2.6825	114.79	<.0001	
Scale	1	1.3655	0.1767	1.0596	1.7596			
Weibull Scale	1	9.6566	2.0438	6.3777	14.6211			
Weibull Shape	1	0.7323	0.0947	0.5683	0.9437			

Obs	time_yrs	LAMBDA_weib	S_weib	model
1	0.01643	0.009374	0.99067	weib
2	0.01643	0.009374	0.99067	weib
3	0.03833	0.017435	0.98272	weib
4	0.12047	0.040331	0.96047	weib
5	0.16975	0.051846	0.94947	weib
6	0.24367	0.067561	0.93467	weib
7	0.26831	0.072499	0.93007	weib
8	0.28474	0.075724	0.92707	weib
9	0.29295	0.077318	0.92560	weib
10	0.31211	0.080990	0.92220	weib

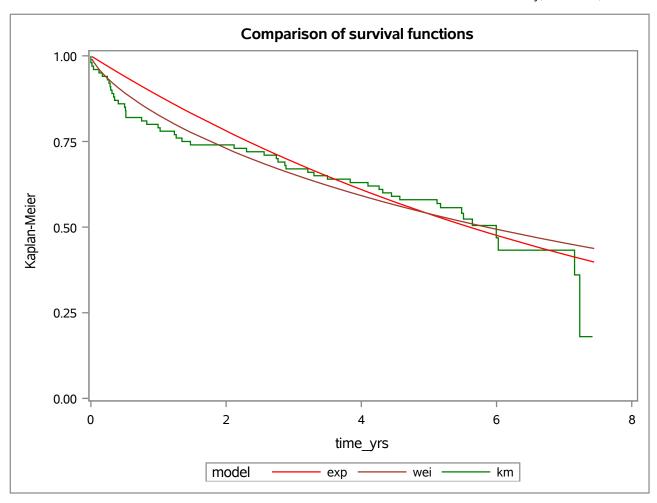
The LIFETEST Procedure

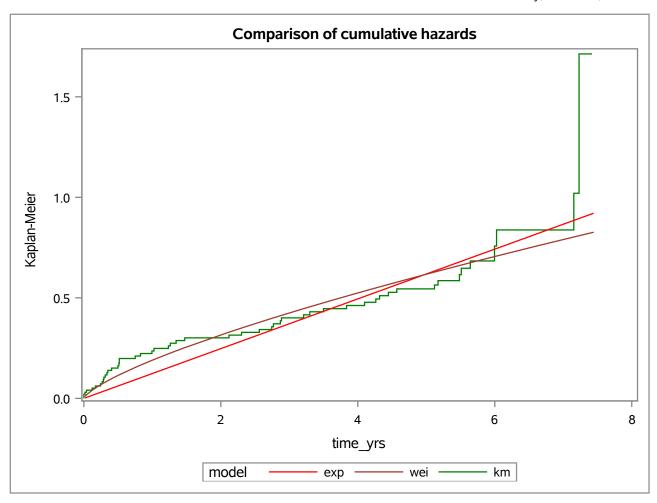


Summary of the Number of Censored and Uncensored Values					
Total Failed Censored Percent Censored					
100	51	49	49.00		

Kaplan-Meier curve for WHAS100 data

Obs	time_yrs	S_km	LAMBDA_km	model
1	0.00000	1.00	0.00000	km
2	0.01643	0.98	0.02020	km
3	0.03833	0.97	0.03046	km
4	0.12047	0.96	0.04082	km
5	0.16975	0.95	0.05129	km
6	0.24367	0.94	0.06188	km
7	0.26831	0.93	0.07257	km
8	0.28474	0.92	0.08338	km
9	0.29295	0.91	0.09431	km
10	0.31211	0.90	0.10536	km





Weibull model with covariates and interaction

The LIFEREG Procedure

Model Information					
Data Set	WORK.CENTER				
Dependent Variable	Log(time_yrs)				
Censoring Variable	fstat				
Censoring Value(s)	0				
Number of Observations	100				
Noncensored Values	51				
Right Censored Values	49				
Left Censored Values	0				
Interval Censored Values	0				
Number of Parameters	6				
Name of Distribution	Weibull				
Log Likelihood	-131.4099023				

Number of Observations Read	100
Number of Observations Used	100

Fit Statistics						
-2 Log Likelihood	262.820					
AIC (smaller is better)	274.820					
AICC (smaller is better)	275.723					
BIC (smaller is better)	290.451					

Fit Statistics (Unlogged Response)					
-2 Log Likelihood	283.287				
Weibull AIC (smaller is better)	295.287				
Weibull AICC (smaller is better)	296.190				
Weibull BIC (smaller is better)	310.918				

Algorithm converged.

Weibull model with covariates and interaction

The LIFEREG Procedure

Type III Analysis of Effects							
Effect DF Chi-Square Pr > ChiSq							
gender	1	2.6596	0.1029				
age_c	1	9.6083	0.0019				
bmi_c	1	5.1540	0.0232				
gender*age_c	1	3.7810	0.0518				

Analysis of Maximum Likelihood Parameter Estimates								
Parameter	DF	Estimate	Standard Error	95% Confidence Limits		Chi-Square	Pr > ChiSq	
Intercept	1	2.4612	0.2746	1.9230	2.9994	80.33	<.0001	
gender	1	-0.6522	0.3999	-1.4360	0.1316	2.66	0.1029	
age_c	1	-0.0639	0.0206	-0.1044	-0.0235	9.61	0.0019	
bmi_c	1	0.1055	0.0465	0.0144	0.1966	5.15	0.0232	
gender*age_c	1	0.0592	0.0304	-0.0005	0.1188	3.78	0.0518	
Scale	1	1.2529	0.1556	0.9821	1.5982			
Weibull Shape	1	0.7982	0.0991	0.6257	1.0182			