The LIFETEST Procedure

Summary of the Number of Censored and Uncensored Values					
Stratum	DisGroup	Total	Failed	Censored	Percent Censored
1	COMISA	1194	826	368	30.82
2	Control	224	205	19	8.48
3	Insomnia only	258	225	33	12.79
4	OSA only	1816	1388	428	23.57
Total		3492	2644	848	24.28

Note: 459 observations with invalid time, censoring, or strata values were deleted.

The LIFETEST Procedure

**Testing Homogeneity of Survival Curves for SDDtoMACEyr over Strata**

Rank Statistics		
DisGroup	**Log-Rank**	**Wilcoxon**
COMISA	-146.13	-250442
Control	47.22	120375
Insomnia only	17.79	50064
OSA only	81.12	80003

Covariance Matrix for the Log-Rank Statistics				
DisGroup	**COMISA**	**Control**	**Insomnia only**	**OSA only**
COMISA	599.921	-56.594	-74.777	-468.551
Control	-56.594	145.552	-12.210	-76.748
Insomnia only	-74.777	-12.210	186.879	-99.892
OSA only	-468.551	-76.748	-99.892	645.191

Covariance Matrix for the Wilcoxon Statistics				
DisGroup	**COMISA**	**Control**	**Insomnia only**	**OSA only**
COMISA	1.5258E9	-1.459E8	-1.818E8	-1.198E9
Control	-1.459E8	4.0161E8	-3.373E7	-2.219E8
Insomnia only	-1.818E8	-3.373E7	4.9184E8	-2.763E8
OSA only	-1.198E9	-2.219E8	-2.763E8	1.6963E9

Test of Equality over Strata			
Test	**Chi-Square**	**DF**	**Pr > Chi-Square**
Log-Rank	43.6696	3	<.0001
Wilcoxon	67.4314	3	<.0001
-2Log(LR)	11.8083	3	0.0081

The LIFETEST Procedure
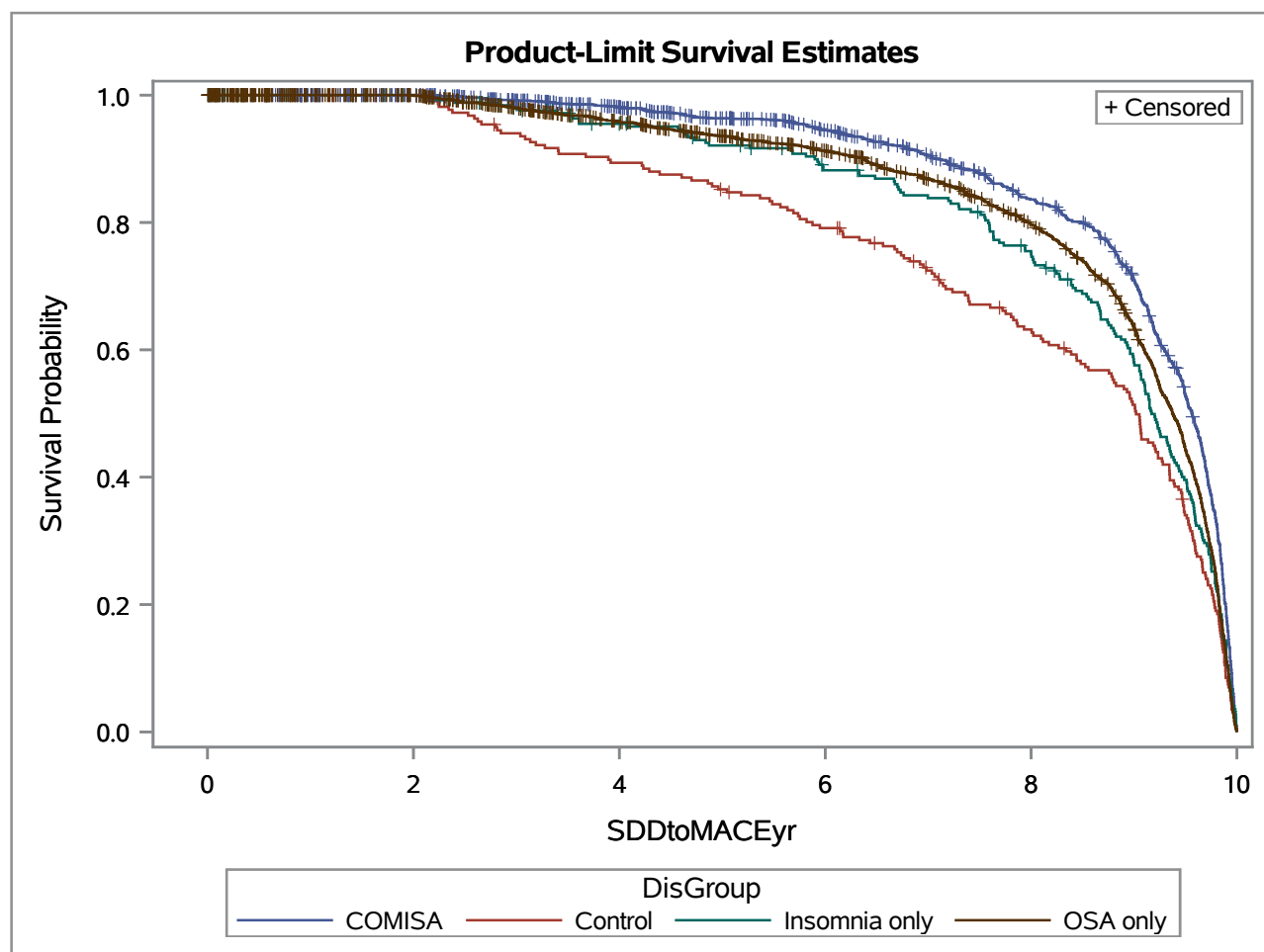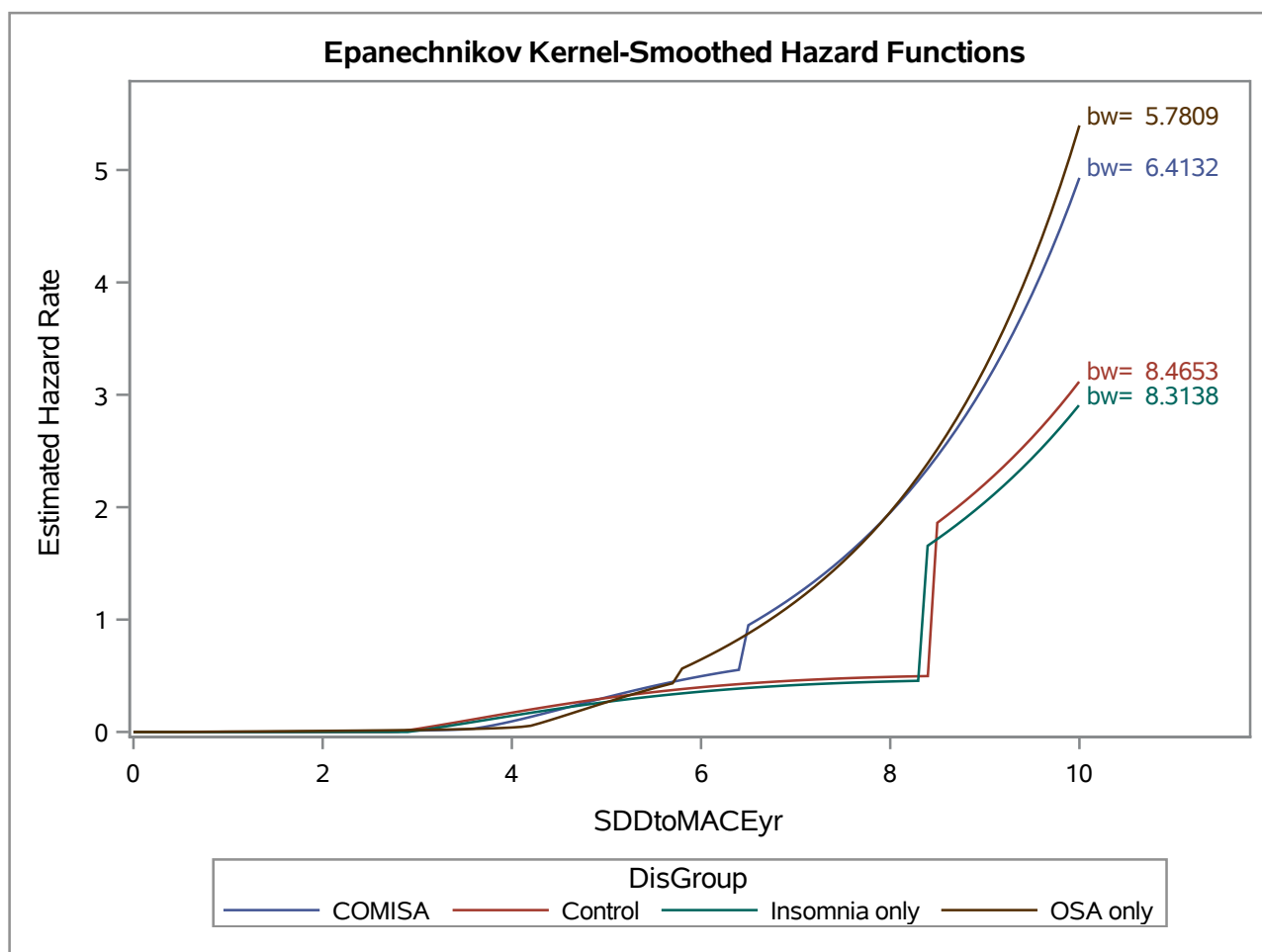
Product-Limit Survival Estimates

The LIFETEST Procedure

Epanechnikov Kernel-Smoothed Hazard Functions

The LIFETEST Procedure

Summary of the Number of Censored and Uncensored Values					
Stratum	**DisGroup**	**Total**	**Failed**	**Censored**	**Percent Censored**
1	COMISA	1194	1105	89	7.45
2	Control	224	220	4	1.79
3	Insomnia only	258	251	7	2.71
4	OSA only	1816	1759	57	3.14
Total		3492	3335	157	4.50

Note: 459 observations with invalid time, censoring, or strata values were deleted.

The LIFETEST Procedure

## Testing Homogeneity of Survival Curves for SDDtoMACEyr over Strata

Rank Statistics		
DisGroup	**Log-Rank**	**Wilcoxon**
COMISA	-100.10	-129149
Control	16.49	27457
Insomnia only	-10.49	-33613
OSA only	94.11	135305

Covariance Matrix for the Log-Rank Statistics				
DisGroup	**COMISA**	**Control**	**Insomnia only**	**OSA only**
COMISA	754.286	-72.008	-93.064	-589.213
Control	-72.008	188.246	-15.802	-100.436
Insomnia only	-93.064	-15.802	236.875	-128.008
OSA only	-589.213	-100.436	-128.008	817.658

Covariance Matrix for the Wilcoxon Statistics				
DisGroup	**COMISA**	**Control**	**Insomnia only**	**OSA only**
COMISA	2.8595E9	-2.797E8	-3.39E8	-2.241E9
Control	-2.797E8	7.714E8	-6.467E7	-4.27E8
Insomnia only	-3.39E8	-6.467E7	9.2114E8	-5.174E8
OSA only	-2.241E9	-4.27E8	-5.174E8	3.1852E9

Test of Equality over Strata			
Test	**Chi-Square**	**DF**	**Pr > Chi-Square**
Log-Rank	15.7094	3	0.0013
Wilcoxon	8.6705	3	0.0340
-2Log(LR)	1.4473	3	0.6945

The LIFETEST Procedure
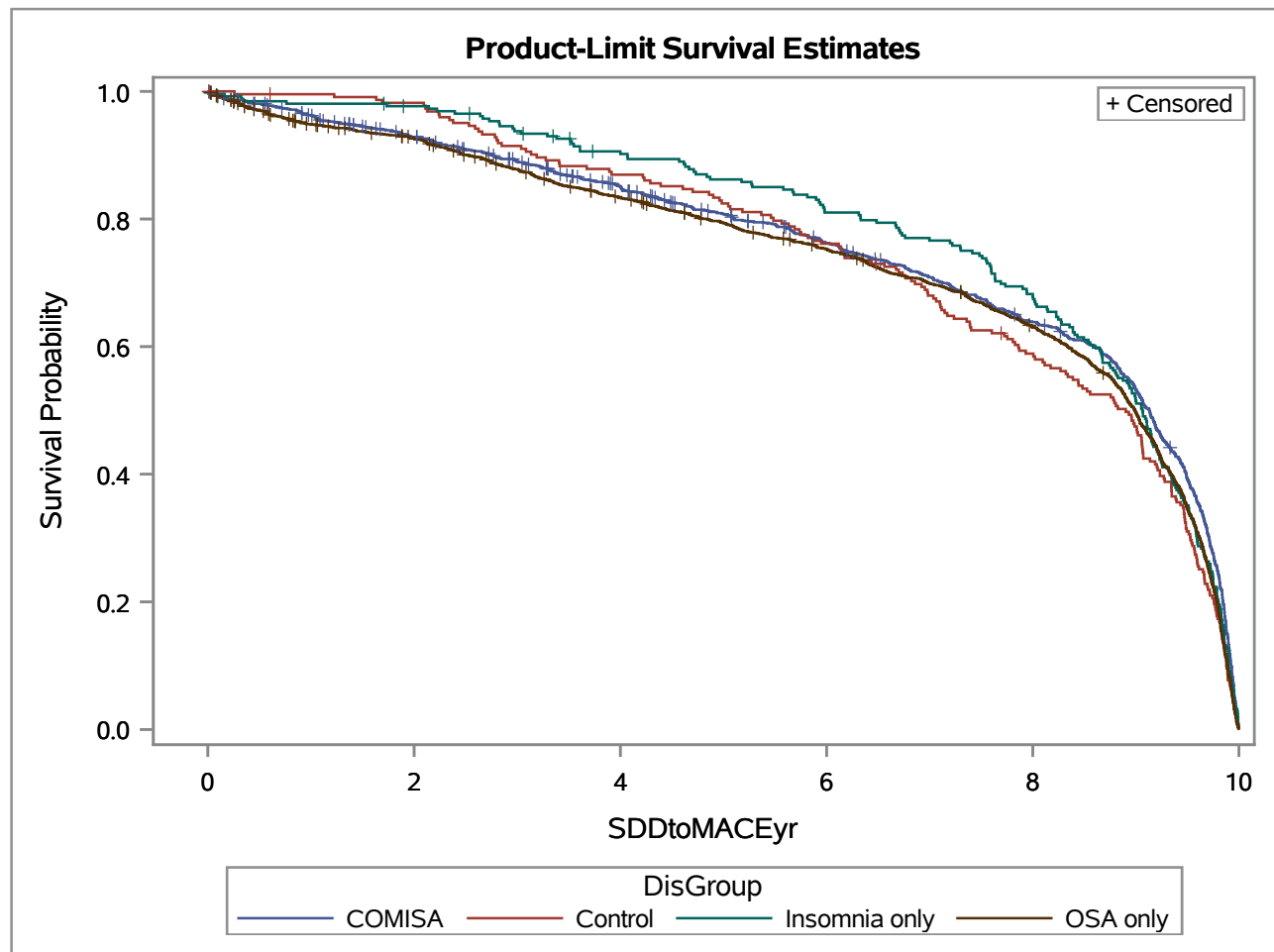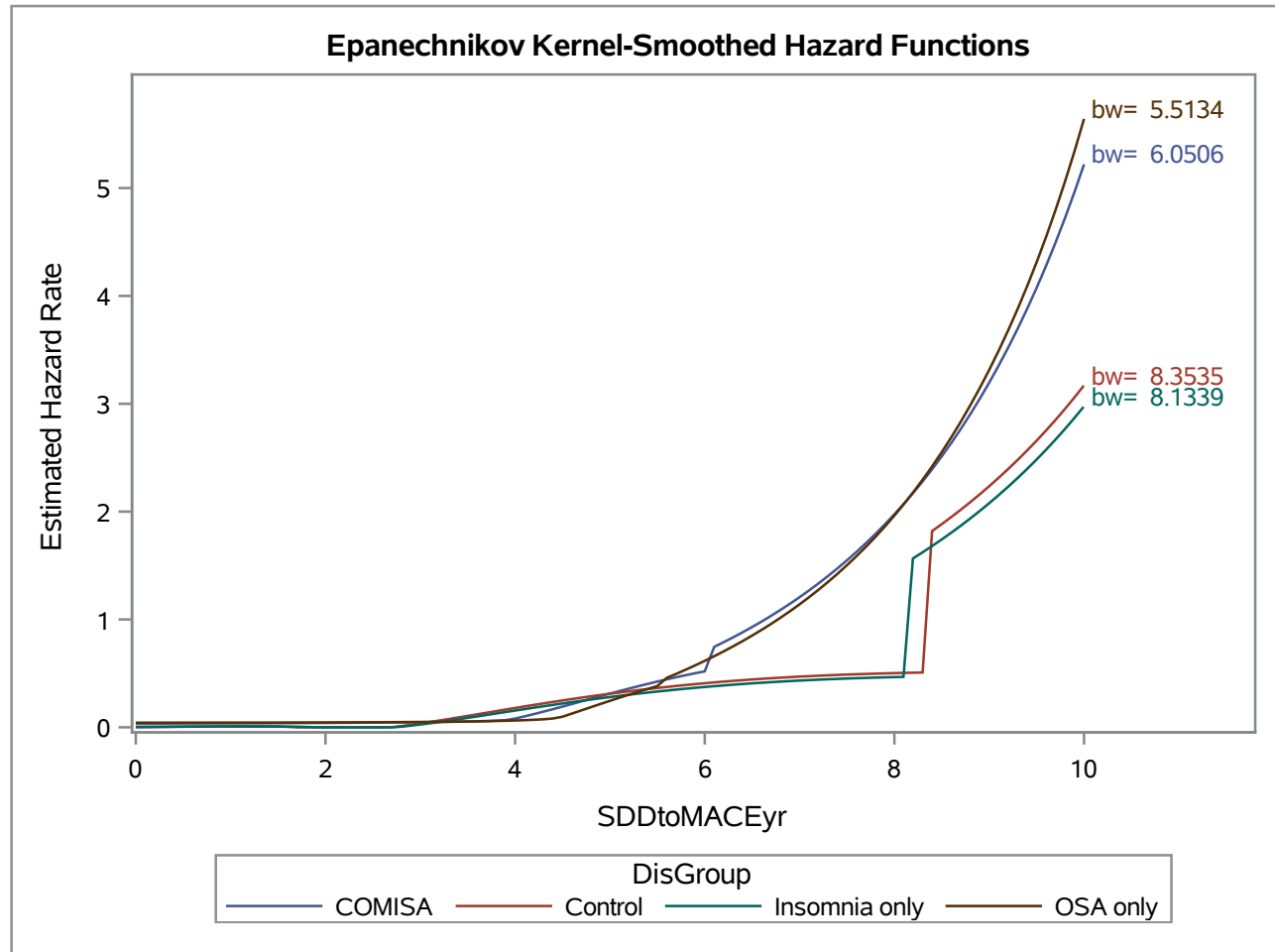
Product-Limit Survival Estimates

The LIFETEST Procedure

Epanechnikov Kernel-Smoothed Hazard Functions

The LIFETEST Procedure

Summary of the Number of Censored and Uncensored Values					
Stratum	**DisGroup**	**Total**	**Failed**	**Censored**	**Percent Censored**
1	COMISA	1194	1120	74	6.20
2	Control	224	221	3	1.34
3	Insomnia only	258	257	1	0.39
4	OSA only	1816	1745	71	3.91
Total		3492	3343	149	4.27

Note: 459 observations with invalid time, censoring, or strata values were deleted.

The LIFETEST Procedure

**Testing Homogeneity of Survival Curves for SDDtoMACEyr over Strata**

Rank Statistics		
DisGroup	**Log-Rank**	**Wilcoxon**
COMISA	-87.680	-96447
Control	16.898	28687
Insomnia only	-5.206	-17011
OSA only	75.988	84771

Covariance Matrix for the Log-Rank Statistics				
DisGroup	**COMISA**	**Control**	**Insomnia only**	**OSA only**
COMISA	756.033	-72.199	-93.296	-590.538
Control	-72.199	188.791	-15.854	-100.739
Insomnia only	-93.296	-15.854	237.526	-128.376
OSA only	-590.538	-100.739	-128.376	819.653

Covariance Matrix for the Wilcoxon Statistics				
DisGroup	**COMISA**	**Control**	**Insomnia only**	**OSA only**
COMISA	2.8602E9	-2.799E8	-3.394E8	-2.241E9
Control	-2.799E8	7.7216E8	-6.48E7	-4.274E8
Insomnia only	-3.394E8	-6.48E7	9.2231E8	-5.181E8
OSA only	-2.241E9	-4.274E8	-5.181E8	3.1864E9

Test of Equality over Strata			
Test	**Chi-Square**	**DF**	**Pr > Chi-Square**
Log-Rank	11.5606	3	0.0091
Wilcoxon	4.5228	3	0.2103
-2Log(LR)	0.3124	3	0.9577

The LIFETEST Procedure
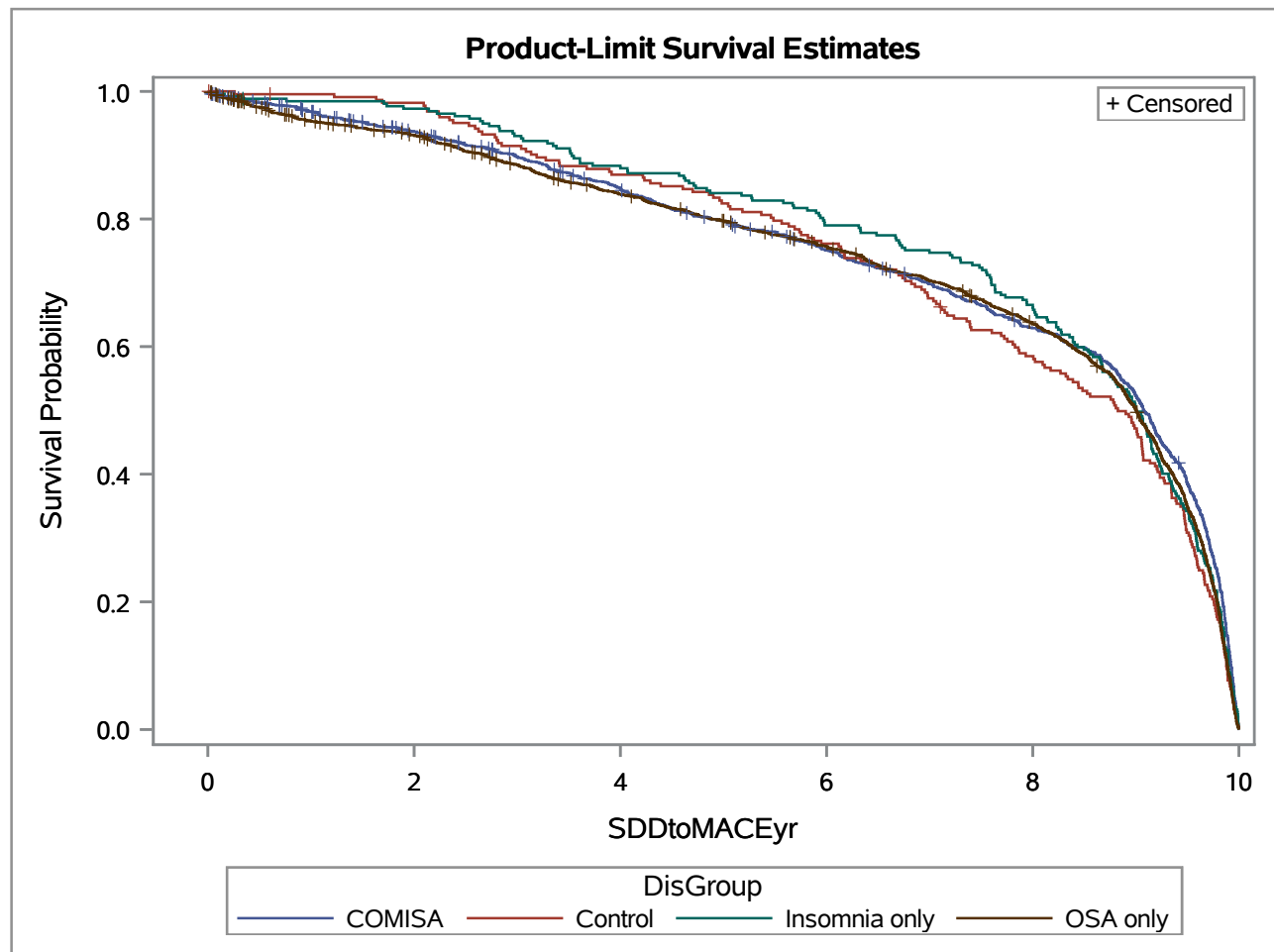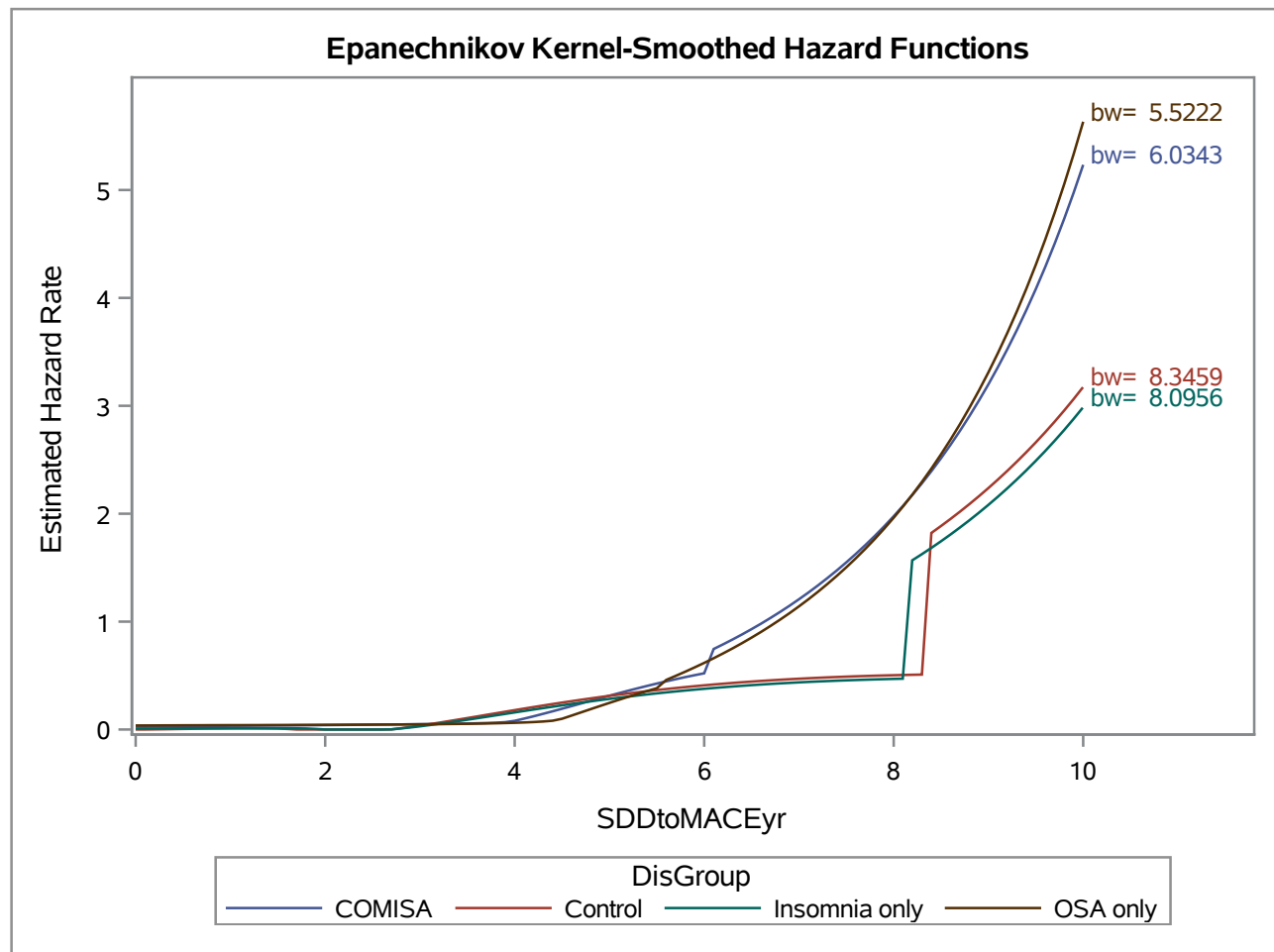
Product-Limit Survival Estimates

The LIFETEST Procedure

Epanechnikov Kernel-Smoothed Hazard Functions

The LIFETEST Procedure

Summary of the Number of Censored and Uncensored Values					
Stratum	DisGroup	Total	Failed	Censored	Percent Censored
1	COMISA	1194	1021	173	14.49
2	Control	224	217	7	3.13
3	Insomnia only	258	249	9	3.49
4	OSA only	1816	1652	164	9.03
Total		3492	3139	353	10.11

Note: 459 observations with invalid time, censoring, or strata values were deleted.

The LIFETEST Procedure

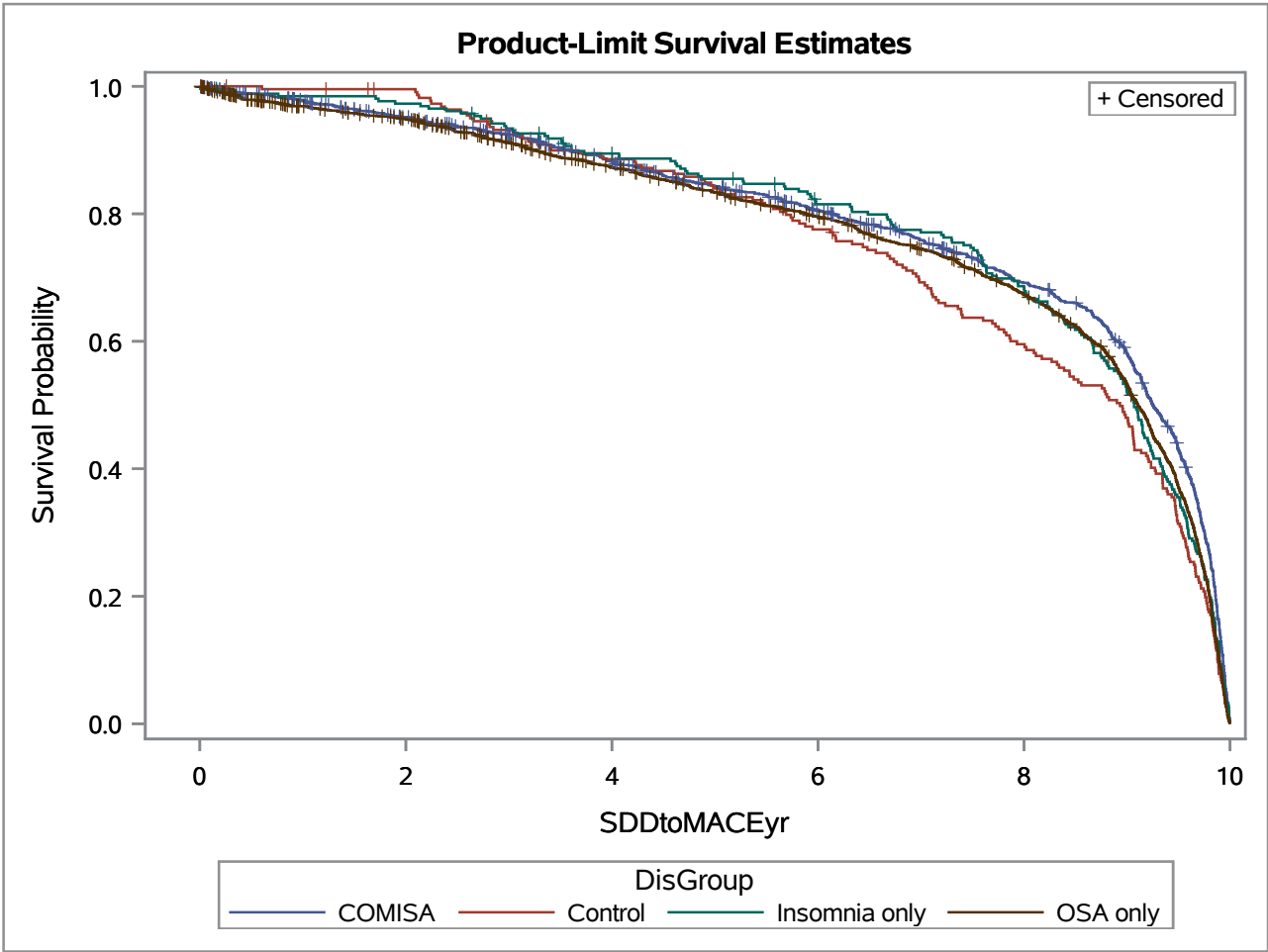**Testing Homogeneity of Survival Curves for SDDtoMACEyr over Strata**

Rank Statistics		
DisGroup	Log-Rank	Wilcoxon
COMISA	-117.91	-171706
Control	26.41	54570
Insomnia only	2.85	7247
OSA only	88.66	109889

Covariance Matrix for the Log-Rank Statistics				
DisGroup	COMISA	Control	Insomnia only	OSA only
COMISA	710.476	-67.647	-87.889	-554.940
Control	-67.647	176.181	-14.791	-93.743
Insomnia only	-87.889	-14.791	222.745	-120.065
OSA only	-554.940	-93.743	-120.065	768.748

Covariance Matrix for the Wilcoxon Statistics				
DisGroup	COMISA	Control	Insomnia only	OSA only
COMISA	2.4745E9	-2.412E8	-2.938E8	-1.939E9
Control	-2.412E8	6.6503E8	-5.581E7	-3.68E8
Insomnia only	-2.938E8	-5.581E7	7.9779E8	-4.482E8
OSA only	-1.939E9	-3.68E8	-4.482E8	2.7557E9

Test of Equality over Strata			
Test	Chi-Square	DF	Pr > Chi-Square
Log-Rank	21.3754	3	<.0001
Wilcoxon	14.2347	3	0.0026
-2Log(LR)	2.3156	3	0.5095

The LIFETEST Procedure
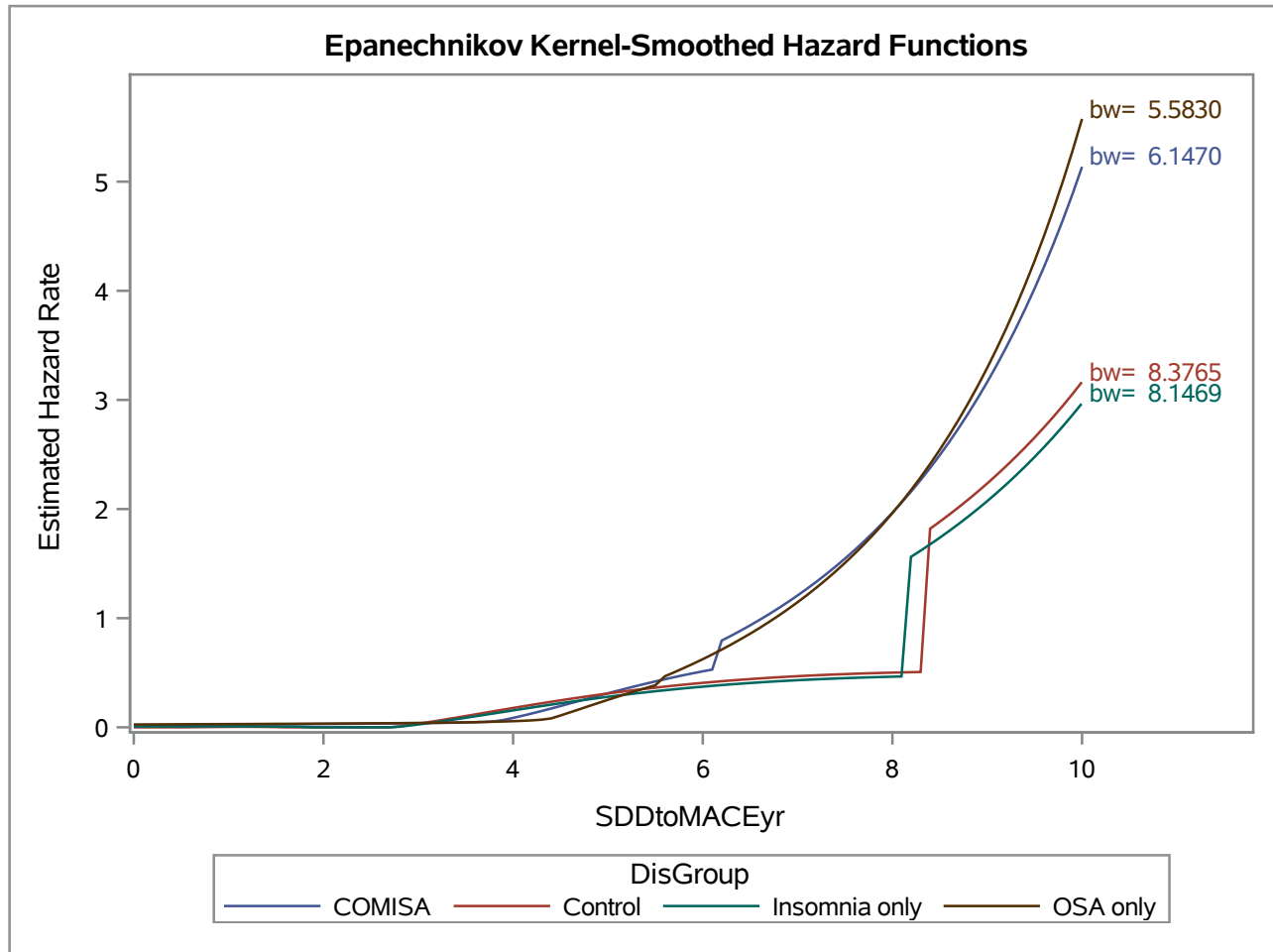
Product-Limit Survival Estimates

+ Censored

DisGroup
COMISA — Control — Insomnia only — OSA only

The LIFETEST Procedure

Epanechnikov Kernel-Smoothed Hazard Functions

The LIFETEST Procedure

Summary of the Number of Censored and Uncensored Values					
Stratum	**DisGroup**	**Total**	**Failed**	**Censored**	**Percent Censored**
1	COMISA	1194	991	203	17.00
2	Control	224	213	11	4.91
3	Insomnia only	258	237	21	8.14
4	OSA only	1816	1539	277	15.25
Total		3492	2980	512	14.66

Note: 459 observations with invalid time, censoring, or strata values were deleted.

The LIFETEST Procedure

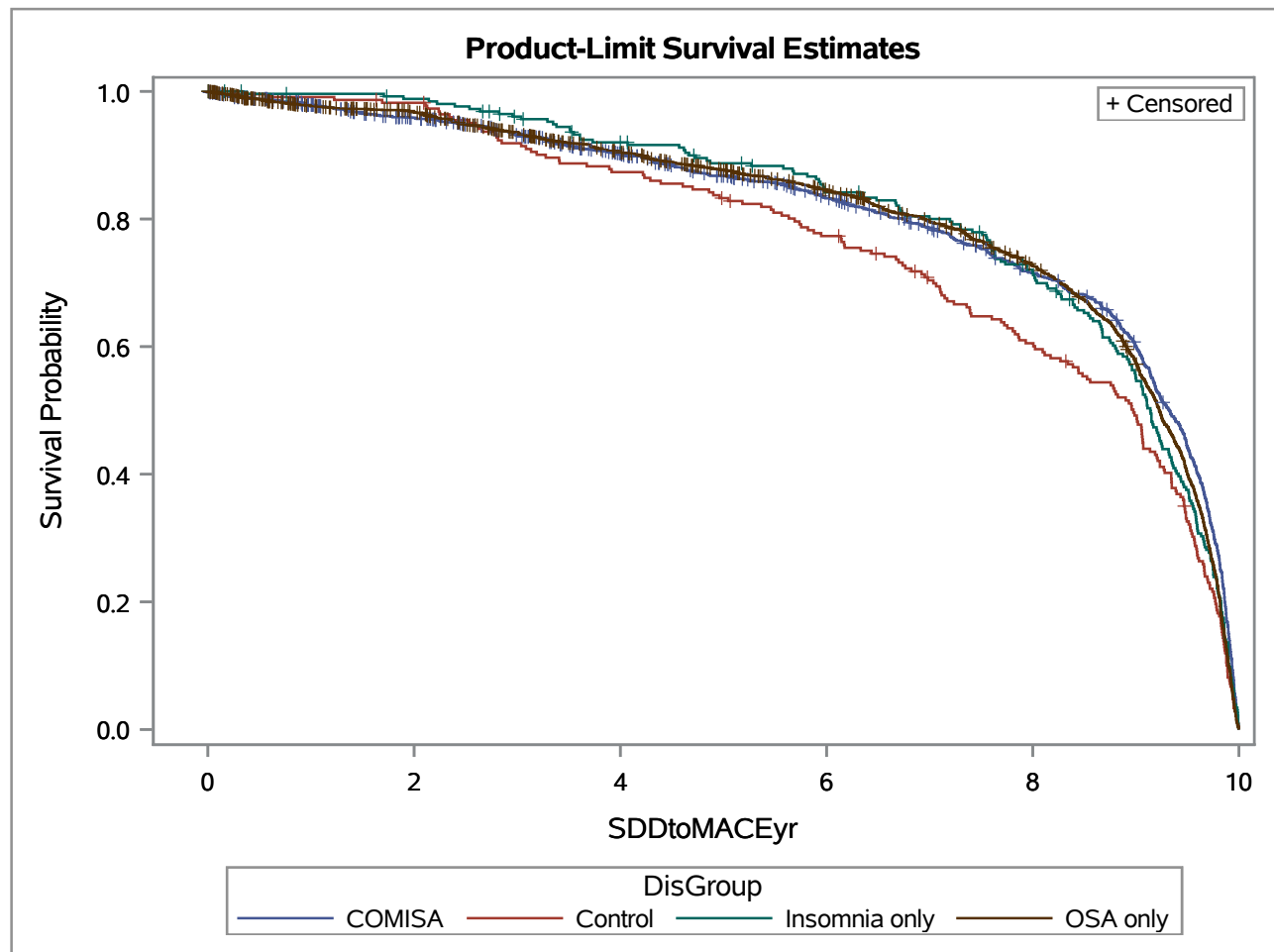## Testing Homogeneity of Survival Curves for SDDtoMACEyr over Strata

Rank Statistics		
DisGroup	**Log-Rank**	**Wilcoxon**
COMISA	-94.509	-110347
Control	33.017	79360
Insomnia only	3.414	9031
OSA only	58.078	21956

Covariance Matrix for the Log-Rank Statistics				
DisGroup	**COMISA**	**Control**	**Insomnia only**	**OSA only**
COMISA	675.010	-64.084	-83.669	-527.257
Control	-64.084	166.283	-13.953	-88.246
Insomnia only	-83.669	-13.953	211.172	-113.550
OSA only	-527.257	-88.246	-113.550	729.053

Covariance Matrix for the Wilcoxon Statistics				
DisGroup	**COMISA**	**Control**	**Insomnia only**	**OSA only**
COMISA	2.1713E9	-2.107E8	-2.579E8	-1.703E9
Control	-2.107E8	5.8048E8	-4.869E7	-3.211E8
Insomnia only	-2.579E8	-4.869E7	6.9953E8	-3.929E8
OSA only	-1.703E9	-3.211E8	-3.929E8	2.4168E9

Test of Equality over Strata			
Test	**Chi-Square**	**DF**	**Pr > Chi-Square**
Log-Rank	16.9681	3	0.0007
Wilcoxon	14.0613	3	0.0028
-2Log(LR)	1.6943	3	0.6382

The LIFETEST Procedure

Product-Limit Survival Estimates

The LIFETEST Procedure

Epanechnikov Kernel-Smoothed Hazard Functions