

The CONTENTS Procedure

Data Set Name	WORK.MYDATA	Observations	299
Member Type	DATA	Variables	13
Engine	V9	Indexes	0
Created	08/14/2025 13:48:02	Observation Length	104
Last Modified	08/14/2025 13:48:02	Deleted Observations	0
Protection		Compressed	NO
Data Set Type		Sorted	NO
Label			
Data Representation	SOLARIS_X86_64, LINUX_X86_64, ALPHA_TRU64, LINUX_IA64		
Encoding	utf-8 Unicode (UTF-8)		

Engine/Host Dependent Information	
Data Set Page Size	131072
Number of Data Set Pages	1
First Data Page	1
Max Obs per Page	1258
Obs in First Data Page	299
Number of Data Set Repairs	0
Filename	/saswork/SAS_work4E8A00014E38_odaws01-apse1-2.oda.sas.com/SAS_work95BA00014E38_odaws01-apse1-2.oda.sas.com/mydata.sas7bdat
Release Created	9.0401M8
Host Created	Linux
Inode Number	67110358
Access Permission	rw-r--r--
Owner Name	u64153637
File Size	256KB
File Size (bytes)	262144

Alphabetic List of Variables and Attributes					
#	Variable	Type	Len	Format	Informat
13	DEATH_EVENT	Num	8	BEST12.	BEST32.
1	age	Num	8	BEST12.	BEST32.
2	anaemia	Num	8	BEST12.	BEST32.
3	creatinine_phosphokinase	Num	8	BEST12.	BEST32.
4	diabetes	Num	8	BEST12.	BEST32.
5	ejection_fraction	Num	8	BEST12.	BEST32.
6	high_blood_pressure	Num	8	BEST12.	BEST32.
7	platelets	Num	8	BEST12.	BEST32.
8	serum_creatinine	Num	8	BEST12.	BEST32.
9	serum_sodium	Num	8	BEST12.	BEST32.
10	sex	Num	8	BEST12.	BEST32.
11	smoking	Num	8	BEST12.	BEST32.
12	time	Num	8	BEST12.	BEST32.

The MEANS Procedure

Variable	N	N Miss	Minimum	Maximum	Mean	Std Dev
age	299	0	40.0000000	95.0000000	60.8338930	11.8948091
anaemia	299	0	0	1.0000000	0.4314381	0.4961073
creatinine_phosphokinase	299	0	23.0000000	7861.00	581.8394649	970.2878807
diabetes	299	0	0	1.0000000	0.4180602	0.4940671
ejection_fraction	299	0	14.0000000	80.0000000	38.0836120	11.8348407
high_blood_pressure	299	0	0	1.0000000	0.3511706	0.4781364
platelets	299	0	25100.00	850000.00	263358.03	97804.24
serum_creatinine	299	0	0.5000000	9.4000000	1.3938796	1.0345101
serum_sodium	299	0	113.0000000	148.0000000	136.6254181	4.4124773
sex	299	0	0	1.0000000	0.6488294	0.4781364
smoking	299	0	0	1.0000000	0.3210702	0.4676704
time	299	0	4.0000000	285.0000000	130.2608696	77.6142080
DEATH_EVENT	299	0	0	1.0000000	0.3210702	0.4676704

The MEANS Procedure

Variable	N	N Miss	Minimum	Maximum	Mean	Std Dev
age	299	0	40.0000000	95.0000000	60.8338930	11.8948091
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diabetes	299	0	0	1.0000000	0.4180602	0.4940671
ejection_fraction	299	0	14.0000000	80.0000000	38.0836120	11.8348407
high_blood_pressure	299	0	0	1.0000000	0.3511706	0.4781364
platelets	299	0	25100.00	850000.00	263358.03	97804.24
serum_creatinine	299	0	0.5000000	9.4000000	1.3938796	1.0345101
serum_sodium	299	0	113.0000000	148.0000000	136.6254181	4.4124773
sex	299	0	0	1.0000000	0.6488294	0.4781364
smoking	299	0	0	1.0000000	0.3210702	0.4676704
time	299	0	4.0000000	285.0000000	130.2608696	77.6142080
DEATH_EVENT	299	0	0	1.0000000	0.3210702	0.4676704

Unadjusted Kaplan-Meier Survival Curves by High Blood Pressure

The LIFETEST Procedure

Summary of the Number of Censored and Uncensored Values					
Stratum	high_blood_pressure	Total	Failed	Censored	Percent Censored
1	0	194	57	137	70.62
2	1	105	39	66	62.86
Total		299	96	203	67.89

Unadjusted Kaplan-Meier Survival Curves by High Blood Pressure

The LIFETEST Procedure

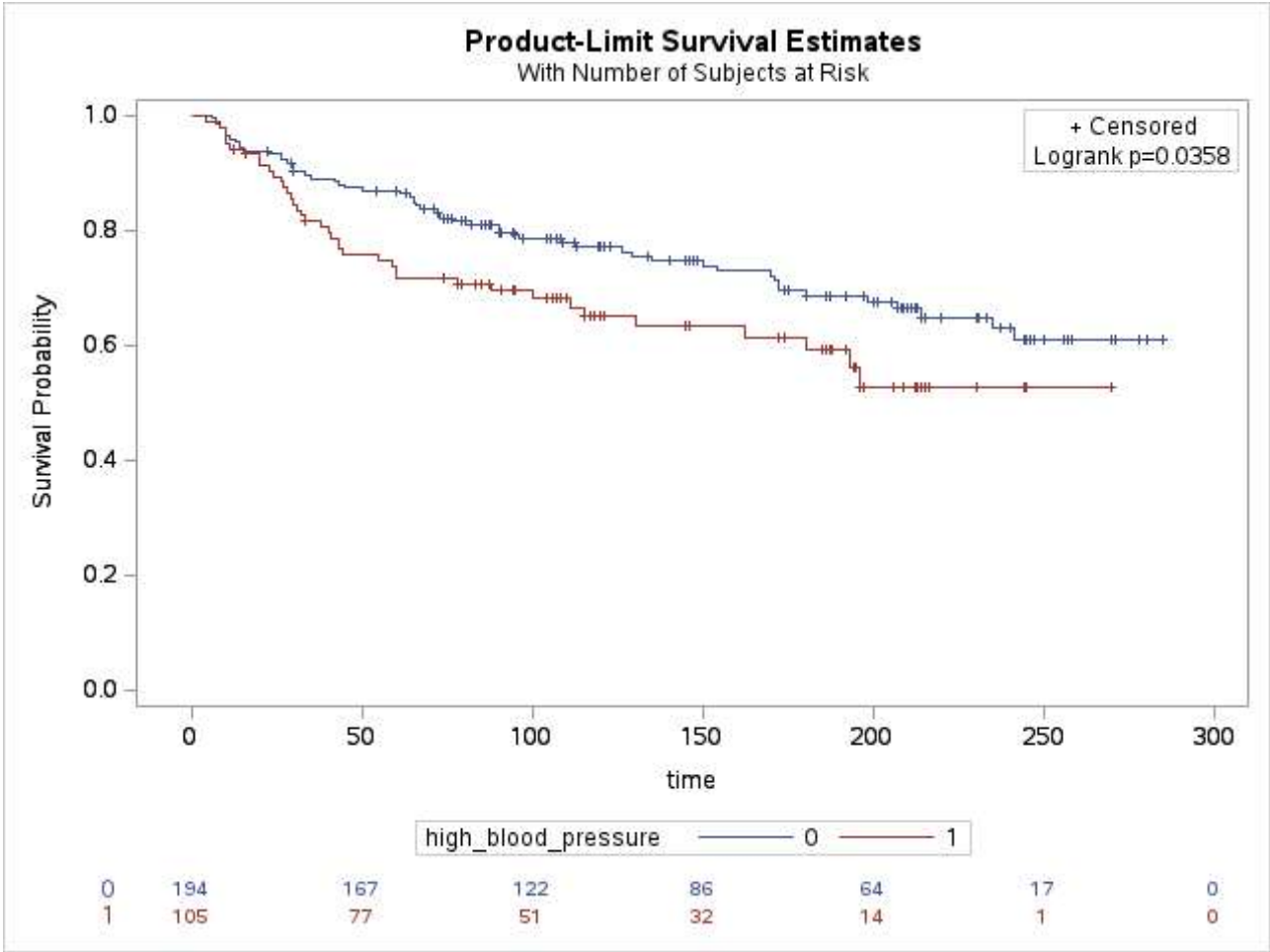
Testing Homogeneity of Survival Curves for time over Strata

Rank Statistics		
high_blood_pressure	Log-Rank	Wilcoxon
0	-9.4224	-2345.0
1	9.4224	2345.0

Covariance Matrix for the Log-Rank Statistics		
high_blood_pressure	0	1
0	20.1492	-20.1492
1	-20.1492	20.1492

Covariance Matrix for the Wilcoxon Statistics		
high_blood_pressure	0	1
0	1116023	-1116023
1	-1116023	1116023

Test of Equality over Strata			
Test	Chi-Square	DF	Pr > Chi-Square
Log-Rank	4.4062	1	0.0358
Wilcoxon	4.9273	1	0.0264
-2Log(LR)	5.3408	1	0.0208



**Adjusted Cox Survival Curves by high BP**

The PHREG Procedure

Model Information	
Data Set	WORK.MYDATA_CLEAN
Dependent Variable	time
Censoring Variable	DEATH_EVENT
Censoring Value(s)	0
Ties Handling	BRESLOW

Number of Observations Read	299
Number of Observations Used	299

Class Level Information		
Class	Value	Design Variables
high_blood_pressure	0	1
	1	0

Summary of the Number of Event and Censored Values			
Total	Event	Censored	Percent Censored
299	96	203	67.89

Convergence Status
Convergence criterion (GCONV=1E-8) satisfied.

Model Fit Statistics		
Criterion	Without Covariates	With Covariates
-2 LOG L	1018.743	938.968
AIC	1018.743	952.968
SBC	1018.743	970.918

Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	79.7754	7	<.0001
Score	86.9589	7	<.0001
Wald	87.5127	7	<.0001

Type 3 Tests			
Effect	DF	Wald Chi-Square	Pr > ChiSq
high_blood_pressure	1	5.2980	0.0213
age	1	24.0390	<.0001
ejection_fraction	1	21.0576	<.0001
serum_creatinine	1	19.7617	<.0001
anaemia	1	4.2186	0.0400
creatinine_phosphoki	1	4.5685	0.0326
serum_sodium	1	3.8942	0.0485

Analysis of Maximum Likelihood Estimates							
Parameter		DF	Parameter Estimate	Standard Error	Chi-Square	Pr > ChiSq	Hazard Ratio
high_blood_pressure	0	1	-0.49218	0.21383	5.2980	0.0213	0.611
age		1	0.04335	0.00884	24.0390	<.0001	1.044
ejection_fraction		1	-0.04732	0.01031	21.0576	<.0001	0.954
serum_creatinine		1	0.30446	0.06849	19.7617	<.0001	1.356
anaemia		1	0.44183	0.21511	4.2186	0.0400	1.556
creatinine_phosphoki		1	0.0002097	0.0000981	4.5685	0.0326	1.000
serum_sodium		1	-0.04600	0.02331	3.8942	0.0485	0.955

Effect of High BP: Hazard Ratios for high_blood_pressure			
Description	Point Estimate	95% Wald Confidence Limits	
high_blood_pressure 0 vs 1	0.611	0.402	0.930

## Unadjusted Kaplan-Meier Survival Curves by High Blood Pressure (Standardised Var)

### The LIFETEST Procedure

Summary of the Number of Censored and Uncensored Values					
Stratum	high_blood_pressure	Total	Failed	Censored	Percent Censored
1	0	98	13	85	86.73
2	1	35	4	31	88.57
Total		133	17	116	87.22

**Note:** 166 observations with invalid time, censoring, or strata values were deleted.

## Unadjusted Kaplan-Meier Survival Curves by High Blood Pressure (Standardised Var)

### The LIFETEST Procedure

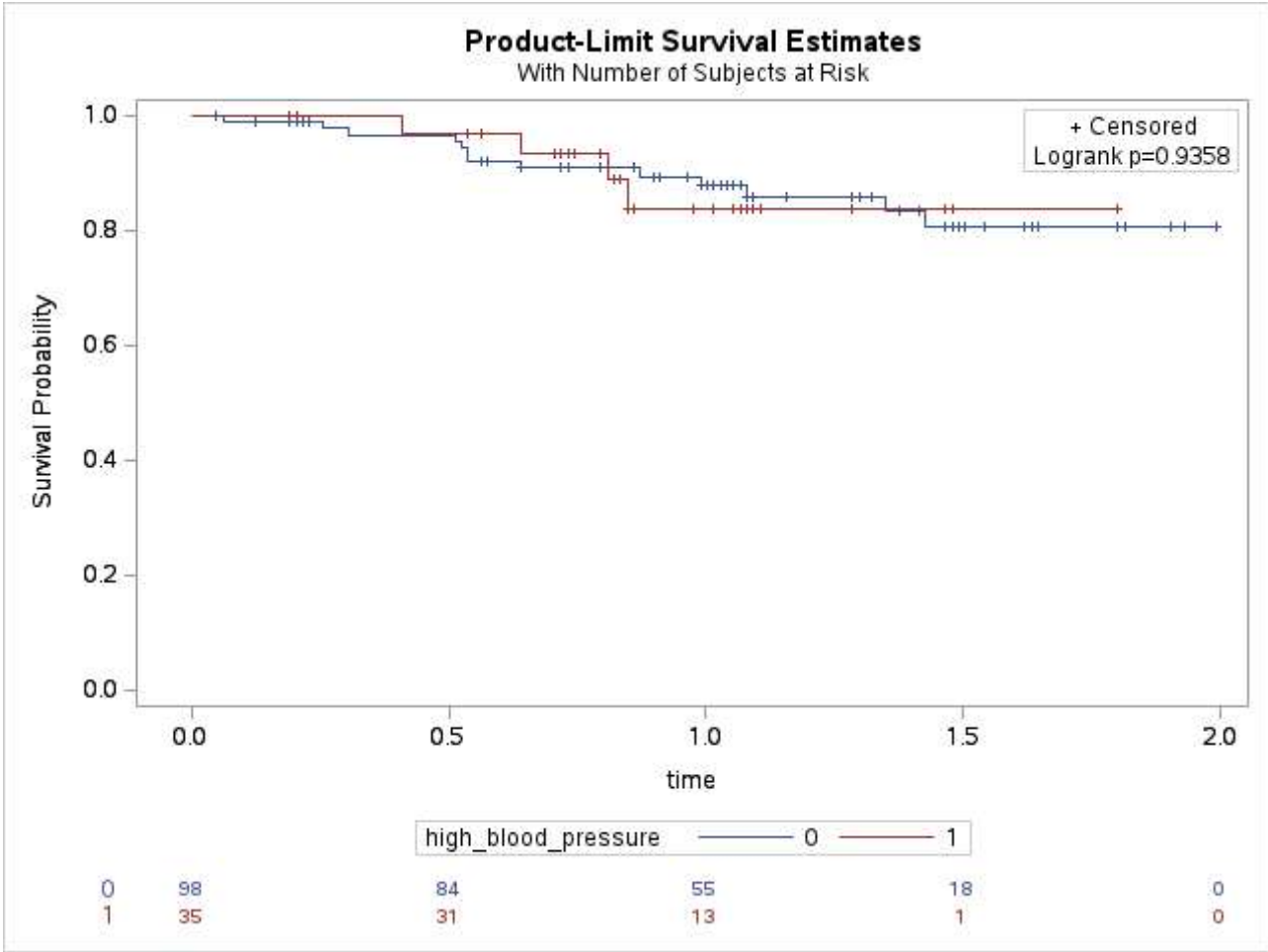
#### Testing Homogeneity of Survival Curves for time over Strata

Rank Statistics		
high_blood_pressure	Log-Rank	Wilcoxon
0	-0.13747	1.0000
1	0.13747	-1.0000

Covariance Matrix for the Log-Rank Statistics		
high_blood_pressure	0	1
0	2.90897	-2.90897
1	-2.90897	2.90897

Covariance Matrix for the Wilcoxon Statistics		
high_blood_pressure	0	1
0	30888.1	-30888.1
1	-30888.1	30888.1

Test of Equality over Strata			
Test	Chi-Square	DF	Pr > Chi-Square
Log-Rank	0.0065	1	0.9358
Wilcoxon	0.0000	1	0.9955
-2Log(LR)	0.0022	1	0.9624



**Adjusted Cox Survival Curves by high BP( Standardised Var)**

The PHREG Procedure

Model Information	
Data Set	WORK.MYDATA_STD
Dependent Variable	time
Censoring Variable	DEATH_EVENT
Censoring Value(s)	0
Ties Handling	BRESLOW

Number of Observations Read	299
Number of Observations Used	133

Class Level Information		
Class	Value	Design Variables
high_blood_pressure	0	1
	1	0

Summary of the Number of Event and Censored Values			
Total	Event	Censored	Percent Censored
133	17	116	87.22

Convergence Status
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Convergence Status
Convergence criterion (GCONV=1E-8) satisfied.

Model Fit Statistics		
Criterion	Without Covariates	With Covariates
<b>-2 LOG L</b>	152.030	129.822
<b>AIC</b>	152.030	143.822
<b>SBC</b>	152.030	149.654

Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
<b>Likelihood Ratio</b>	22.2085	7	0.0023
<b>Score</b>	23.6982	7	0.0013
<b>Wald</b>	20.6283	7	0.0044

Type 3 Tests			
Effect	DF	Wald Chi-Square	Pr > ChiSq
<b>high_blood_pressure</b>	1	0.1230	0.7258
<b>age</b>	1	0.7284	0.3934
<b>ejection_fraction</b>	1	11.1652	0.0008
<b>serum_creatinine</b>	1	11.9065	0.0006
<b>anaemia</b>	1	3.1506	0.0759
<b>creatinine_phosphoki</b>	1	0.6550	0.4183
<b>serum_sodium</b>	1	0.0077	0.9303

Analysis of Maximum Likelihood Estimates								
Parameter		DF	Parameter Estimate	Standard Error	Chi-Square	Pr > ChiSq	Hazard Ratio	Label
<b>high_blood_pressure</b>	<b>0</b>	1	-0.21596	0.61567	0.1230	0.7258	0.806	high_blood_pressure 0
<b>age</b>		1	0.26468	0.31012	0.7284	0.3934	1.303	
<b>ejection_fraction</b>		1	-1.29274	0.38688	11.1652	0.0008	0.275	
<b>serum_creatinine</b>		1	0.65807	0.19071	11.9065	0.0006	1.931	
<b>anaemia</b>		1	1.00368	0.56545	3.1506	0.0759	2.728	
<b>creatinine_phosphoki</b>		1	0.32401	0.40036	0.6550	0.4183	1.383	
<b>serum_sodium</b>		1	0.02728	0.31178	0.0077	0.9303	1.028	

Effect of High BP: Hazard Ratios for high_blood_pressure			
Description	Point Estimate	95% Wald Confidence Limits	
<b>high_blood_pressure 0 vs 1</b>	0.806	0.241	2.693