

GENERAL NOTES ABOUT ANALYSIS EXAMPLES REPLICATION

These examples are intended to provide guidance on how to use the commands/procedures for analysis of complex sample survey data and assume all data management and other preliminary work is done. The relevant syntax for the procedure of interest is shown first along with the associated output for that procedure(s). In some examples, there may be more than one block of syntax and in this case all syntax is first presented followed by the output produced.

In some software packages certain procedures or options are not available but we have made every attempt to demonstrate how to match the output produced by Stata 10+ in the textbook. Check the ASDA website for updates to the various software tools we cover.

NOTES ABOUT SURVIVAL ANALYSIS IN SUDAAN 10.0.1

The analysis replication examples were all run using SAS-callable SUDAAN version 10.0.1. There are very few differences between SAS-callable and stand-alone SUDAAN with the exception of the names of the procedures are sometimes slightly different as to avoid confusion with SAS procedures.

SUDAAN does not offer the ability to perform graphical analyses within the program therefore are not included in this output however output data sets can be saved and used in other software packages.

SUDAAN PROCS SURVIVAL/KAPMEIER can perform all of the analyses presented in Chapter 10 of ASDA. For the discrete-time logistic regression, a person year file with multiple records per individual is needed, see Chapter 10 of ASDA for details on this process.

Some of the fine points of these procedures are the use of a SUBPOPN statement for subpopulation analyses, a CLASS statement for declaration of categorical variables, RFORMAT and REFLEVEL for use with formatted variables and optional reference level changes, and an EFFECTS/CONTRAST statement for hypothesis tests and many other options for analysis/output. Another feature is that for the discrete-time model, person years less than or equal to the age at censor/event of interest are analyzed, see Chapter 10 for details on the theory. Please see the Sudaan 10.0.1 Language and Examples Guides for additional detail on Sudaan programming.

```

title "Analysis Example for Kaplan Meier Survival Curve : NCS-R" ;
proc kapmeier filetype=sas data=ncsr_c10 ;
nest sestrat seclustr ;
weight ncsrwtsh ;
class racecat ;
event mde ;
time ageonsetmde ;
strhaz racecat ;
output / kapmeier=all filename=work.kmcurve filetype=sas replace ;
run ;

```

```

proc print data=work.kmcurve ;
by racecat ;
var racecat ageonsetmde km sekm lowkm upkm ;
format racecat rf. ;
run ;

```

Kaplan Meier Survival Curve by Race Categories

RACECAT=Other

Obs	racecat	ageonsetmde	KM	SEKM	LOWKM	UPKM
1	Other	5.00	1.00	0.00	0.98	1.00
2	Other	6.00	1.00	0.00	0.98	1.00
3	Other	7.00	0.99	0.01	0.96	0.99
4	Other	8.00	0.98	0.01	0.95	0.99
5	Other	9.00	0.98	0.01	0.95	0.99
6	Other	10.00	0.98	0.01	0.95	0.99
7	Other	11.00	0.97	0.01	0.95	0.99
8	Other	12.00	0.97	0.01	0.95	0.98
9	Other	13.00	0.96	0.01	0.94	0.97
10	Other	14.00	0.95	0.01	0.93	0.97
11	Other	15.00	0.94	0.01	0.91	0.96
12	Other	16.00	0.93	0.01	0.90	0.95
13	Other	17.00	0.92	0.02	0.88	0.95
14	Other	18.00	0.91	0.02	0.87	0.94
15	Other	19.00	0.90	0.02	0.85	0.93
16	Other	20.00	0.90	0.02	0.85	0.93
17	Other	21.00	0.89	0.02	0.85	0.92
18	Other	22.00	0.89	0.02	0.85	0.92
19	Other	23.00	0.88	0.02	0.83	0.91
20	Other	24.00	0.87	0.02	0.83	0.91
21	Other	25.00	0.87	0.02	0.83	0.91
22	Other	27.00	0.87	0.02	0.83	0.90
23	Other	28.00	0.87	0.02	0.82	0.90
24	Other	29.00	0.86	0.02	0.82	0.90
25	Other	30.00	0.85	0.02	0.80	0.89
26	Other	31.00	0.85	0.02	0.80	0.88
27	Other	32.00	0.83	0.02	0.78	0.87
28	Other	33.00	0.83	0.02	0.78	0.87
29	Other	34.00	0.82	0.02	0.77	0.86
30	Other	35.00	0.81	0.02	0.76	0.85
31	Other	36.00	0.81	0.02	0.76	0.84
32	Other	37.00	0.80	0.02	0.75	0.84
33	Other	38.00	0.79	0.02	0.74	0.83
34	Other	40.00	0.78	0.02	0.73	0.83
35	Other	44.00	0.78	0.02	0.73	0.82
36	Other	46.00	0.78	0.02	0.72	0.82
37	Other	48.00	0.77	0.02	0.72	0.82
38	Other	49.00	0.76	0.02	0.71	0.81
39	Other	50.00	0.76	0.02	0.70	0.80
40	Other	51.00	0.75	0.03	0.69	0.80
41	Other	52.00	0.75	0.03	0.69	0.80
42	Other	55.00	0.74	0.02	0.68	0.78
43	Other	57.00	0.73	0.03	0.67	0.77

RACECAT=Hispanic

Obs	racecat	ageonsetmde	KM	SEKM	LOWKM	UPKM
44	Hispanic	4.00	1.00	0.00	0.99	1.00
45	Hispanic	5.00	1.00	0.00	0.99	1.00
46	Hispanic	6.00	0.99	0.00	0.99	1.00
47	Hispanic	7.00	0.99	0.00	0.98	1.00
48	Hispanic	8.00	0.99	0.00	0.98	0.99
49	Hispanic	9.00	0.99	0.00	0.98	0.99
50	Hispanic	10.00	0.99	0.00	0.98	0.99
51	Hispanic	11.00	0.99	0.00	0.97	0.99
52	Hispanic	12.00	0.98	0.00	0.97	0.99
53	Hispanic	13.00	0.97	0.01	0.96	0.98
54	Hispanic	14.00	0.97	0.01	0.95	0.98
55	Hispanic	15.00	0.96	0.01	0.95	0.97
56	Hispanic	16.00	0.96	0.01	0.95	0.97
57	Hispanic	17.00	0.95	0.01	0.94	0.96
58	Hispanic	18.00	0.94	0.01	0.93	0.96
59	Hispanic	19.00	0.94	0.01	0.92	0.95
60	Hispanic	20.00	0.93	0.01	0.91	0.94
61	Hispanic	21.00	0.92	0.01	0.91	0.94
62	Hispanic	22.00	0.92	0.01	0.90	0.93
63	Hispanic	23.00	0.91	0.01	0.89	0.93
64	Hispanic	24.00	0.91	0.01	0.89	0.92
65	Hispanic	25.00	0.90	0.01	0.87	0.92
66	Hispanic	26.00	0.89	0.01	0.86	0.91
67	Hispanic	27.00	0.89	0.01	0.86	0.91
68	Hispanic	28.00	0.88	0.01	0.85	0.91
69	Hispanic	29.00	0.88	0.01	0.85	0.90
70	Hispanic	31.00	0.87	0.01	0.84	0.90
71	Hispanic	32.00	0.87	0.01	0.83	0.89
72	Hispanic	33.00	0.86	0.02	0.82	0.89
73	Hispanic	34.00	0.85	0.02	0.81	0.88
74	Hispanic	35.00	0.83	0.02	0.79	0.87
75	Hispanic	36.00	0.83	0.02	0.79	0.87
76	Hispanic	37.00	0.83	0.02	0.79	0.86
77	Hispanic	38.00	0.83	0.02	0.79	0.86
78	Hispanic	40.00	0.82	0.02	0.78	0.85
79	Hispanic	41.00	0.81	0.02	0.76	0.85
80	Hispanic	42.00	0.80	0.02	0.75	0.84
81	Hispanic	43.00	0.80	0.02	0.75	0.84
82	Hispanic	45.00	0.79	0.02	0.75	0.83
83	Hispanic	46.00	0.79	0.02	0.74	0.83
84	Hispanic	50.00	0.78	0.02	0.74	0.83
85	Hispanic	51.00	0.78	0.02	0.73	0.82
86	Hispanic	52.00	0.78	0.02	0.72	0.82
87	Hispanic	53.00	0.77	0.02	0.72	0.81
88	Hispanic	55.00	0.76	0.03	0.71	0.81
89	Hispanic	58.00	0.75	0.03	0.70	0.80
90	Hispanic	63.00	0.74	0.03	0.69	0.79

RACECAT=Black

Obs	racecat	ageonsetmde	KM	SEKM	LOWKM	UPKM
91	Black	4.00	1.00	0.00	0.99	1.00
92	Black	5.00	1.00	0.00	0.99	1.00
93	Black	6.00	1.00	0.00	0.99	1.00
94	Black	7.00	1.00	0.00	0.99	1.00
95	Black	8.00	0.99	0.00	0.99	1.00
96	Black	9.00	0.99	0.00	0.99	1.00
97	Black	10.00	0.99	0.00	0.98	0.99
98	Black	11.00	0.98	0.00	0.98	0.99
99	Black	12.00	0.98	0.00	0.97	0.99
100	Black	13.00	0.98	0.00	0.97	0.98
101	Black	14.00	0.97	0.00	0.96	0.98
102	Black	15.00	0.96	0.01	0.95	0.97
103	Black	16.00	0.96	0.01	0.94	0.97
104	Black	17.00	0.95	0.01	0.93	0.96
105	Black	18.00	0.94	0.01	0.93	0.96
106	Black	19.00	0.94	0.01	0.92	0.95
107	Black	20.00	0.93	0.01	0.92	0.95
108	Black	21.00	0.93	0.01	0.91	0.94
109	Black	22.00	0.92	0.01	0.90	0.93
110	Black	23.00	0.92	0.01	0.90	0.93
111	Black	24.00	0.92	0.01	0.90	0.93
112	Black	25.00	0.91	0.01	0.89	0.93
113	Black	26.00	0.91	0.01	0.89	0.93
114	Black	27.00	0.91	0.01	0.89	0.93
115	Black	28.00	0.90	0.01	0.88	0.92
116	Black	29.00	0.90	0.01	0.88	0.92
117	Black	30.00	0.89	0.01	0.87	0.91
118	Black	31.00	0.89	0.01	0.86	0.91
119	Black	32.00	0.89	0.01	0.86	0.91
120	Black	33.00	0.89	0.01	0.86	0.91
121	Black	34.00	0.88	0.01	0.85	0.91
122	Black	35.00	0.88	0.01	0.85	0.90
123	Black	36.00	0.88	0.01	0.84	0.90
124	Black	37.00	0.87	0.01	0.83	0.89
125	Black	38.00	0.87	0.01	0.83	0.89
126	Black	39.00	0.86	0.02	0.82	0.89
127	Black	40.00	0.86	0.02	0.82	0.88
128	Black	41.00	0.85	0.02	0.82	0.88
129	Black	42.00	0.85	0.02	0.82	0.88
130	Black	43.00	0.85	0.02	0.82	0.88
131	Black	44.00	0.85	0.02	0.81	0.88
132	Black	45.00	0.84	0.02	0.81	0.87
133	Black	46.00	0.84	0.02	0.80	0.87
134	Black	47.00	0.84	0.02	0.80	0.87
135	Black	48.00	0.83	0.02	0.80	0.86
136	Black	49.00	0.83	0.02	0.79	0.86
137	Black	50.00	0.82	0.02	0.79	0.85
138	Black	51.00	0.82	0.02	0.78	0.85
139	Black	52.00	0.82	0.02	0.78	0.85
140	Black	63.00	0.81	0.01	0.78	0.84
141	Black	65.00	0.80	0.02	0.76	0.83

RACECAT=White

Obs	racecat	ageonsetmde	KM	SEKM	LOWKM	UPKM
142	White	4.00	1.00	0.00	1.00	1.00
143	White	5.00	1.00	0.00	0.99	1.00
144	White	6.00	0.99	0.00	0.99	1.00
145	White	7.00	0.99	0.00	0.99	0.99
146	White	8.00	0.99	0.00	0.99	0.99
147	White	9.00	0.99	0.00	0.98	0.99
148	White	10.00	0.99	0.00	0.98	0.99
149	White	11.00	0.98	0.00	0.98	0.99
150	White	12.00	0.97	0.00	0.97	0.98
151	White	13.00	0.96	0.00	0.96	0.97
152	White	14.00	0.96	0.00	0.95	0.96
153	White	15.00	0.95	0.00	0.94	0.96
154	White	16.00	0.94	0.00	0.93	0.95
155	White	17.00	0.93	0.00	0.93	0.94
156	White	18.00	0.93	0.00	0.92	0.93
157	White	19.00	0.92	0.00	0.91	0.93
158	White	20.00	0.91	0.00	0.90	0.92
159	White	21.00	0.91	0.00	0.90	0.92
160	White	22.00	0.90	0.00	0.89	0.91
161	White	23.00	0.90	0.00	0.89	0.91
162	White	24.00	0.89	0.00	0.88	0.90
163	White	25.00	0.88	0.01	0.87	0.89
164	White	26.00	0.88	0.01	0.87	0.89
165	White	27.00	0.88	0.01	0.86	0.89
166	White	28.00	0.87	0.01	0.86	0.88
167	White	29.00	0.87	0.01	0.86	0.88
168	White	30.00	0.86	0.01	0.85	0.87
169	White	31.00	0.86	0.01	0.84	0.87
170	White	32.00	0.85	0.01	0.84	0.86
171	White	33.00	0.85	0.01	0.84	0.86
172	White	34.00	0.84	0.01	0.83	0.85
173	White	35.00	0.84	0.01	0.82	0.85
174	White	36.00	0.83	0.01	0.82	0.85
175	White	37.00	0.83	0.01	0.81	0.84
176	White	38.00	0.82	0.01	0.81	0.83
177	White	39.00	0.82	0.01	0.81	0.83
178	White	40.00	0.81	0.01	0.80	0.82
179	White	41.00	0.81	0.01	0.80	0.82
180	White	42.00	0.80	0.01	0.79	0.81
181	White	43.00	0.80	0.01	0.78	0.81
182	White	44.00	0.79	0.01	0.78	0.80
183	White	45.00	0.79	0.01	0.78	0.80
184	White	46.00	0.78	0.01	0.77	0.80
185	White	47.00	0.78	0.00	0.77	0.79
186	White	48.00	0.78	0.01	0.77	0.79
187	White	49.00	0.77	0.01	0.76	0.78
188	White	50.00	0.77	0.01	0.76	0.78
189	White	51.00	0.77	0.01	0.76	0.78
190	White	52.00	0.77	0.01	0.75	0.78
191	White	53.00	0.76	0.01	0.75	0.77
192	White	54.00	0.76	0.01	0.75	0.77
193	White	55.00	0.76	0.01	0.75	0.77
194	White	56.00	0.76	0.01	0.74	0.77
195	White	57.00	0.75	0.01	0.74	0.77
196	White	58.00	0.75	0.01	0.74	0.77
197	White	59.00	0.75	0.01	0.74	0.76
198	White	60.00	0.75	0.01	0.74	0.76
199	White	61.00	0.75	0.01	0.74	0.76
200	White	62.00	0.75	0.01	0.74	0.76
201	White	63.00	0.75	0.01	0.73	0.76
202	White	64.00	0.75	0.01	0.73	0.76
203	White	65.00	0.74	0.01	0.73	0.76
204	White	66.00	0.74	0.01	0.73	0.76
205	White	67.00	0.74	0.01	0.73	0.75
206	White	68.00	0.74	0.01	0.73	0.75
207	White	69.00	0.74	0.01	0.73	0.75
208	White	70.00	0.74	0.01	0.72	0.75
209	White	72.00	0.74	0.01	0.72	0.75
210	White	74.00	0.73	0.01	0.72	0.75
211	White	76.00	0.73	0.01	0.72	0.75
212	White	78.00	0.73	0.01	0.72	0.74
213	White	80.00	0.72	0.01	0.70	0.74
214	White	81.00	0.72	0.01	0.70	0.74

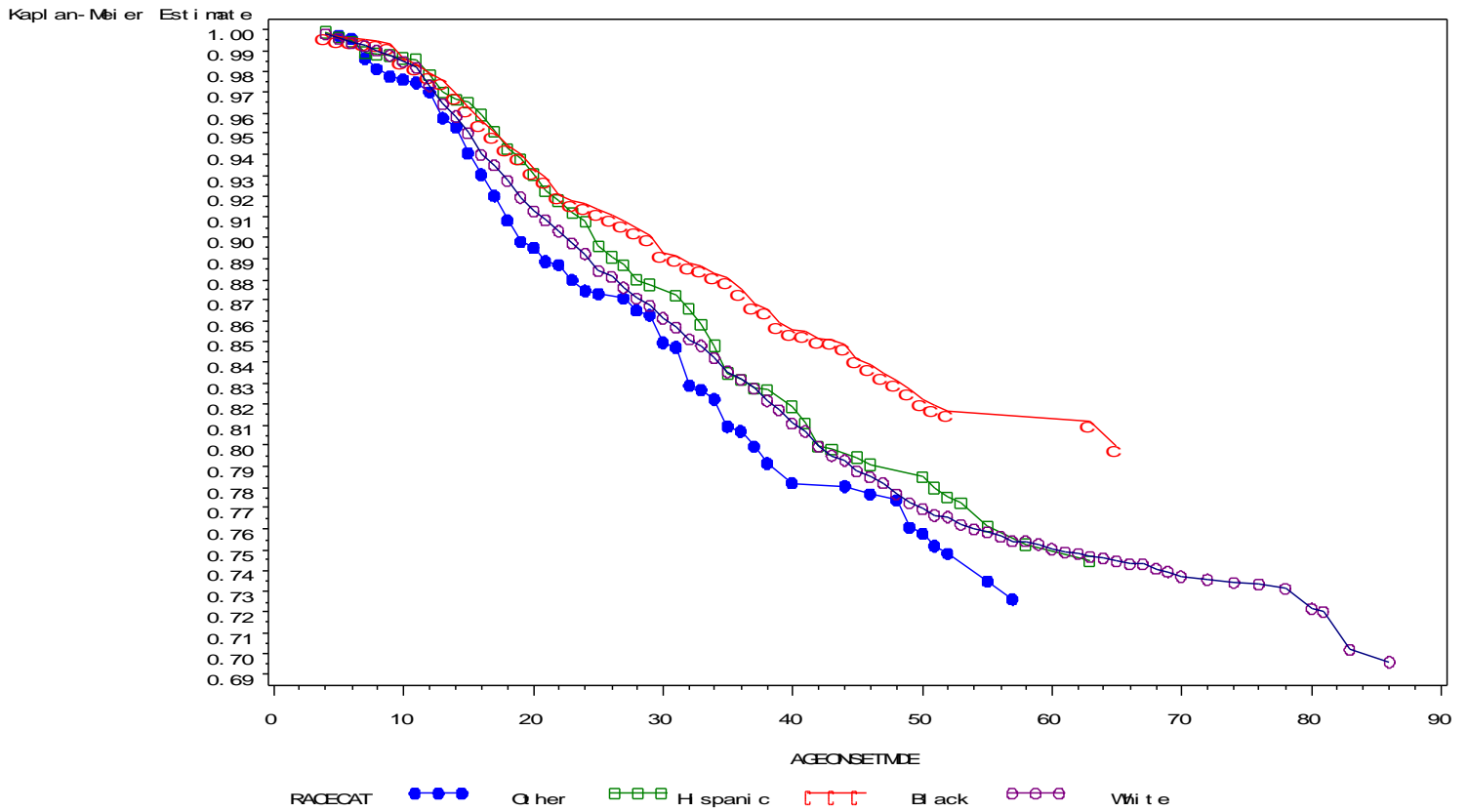
215	White	83.00	0.70	0.02	0.67	0.74
216	White	86.00	0.70	0.02	0.66	0.73

```

* use proc gplot for survival curve ;
symbol1 c=blue i=join v=dot ;
symbol2 c=green i=join v=square ;
symbol3 c=red i=join v=cross ;
symbol4 c=purple i=join v=circle ;
proc gplot data=work.kmcurve ;
plot km * ageonsetmde = racecat ;
title "Kaplan Meier Survival Curve by Race Categories" ;
format racecat rf. ;
run ;

```

Kaplan Meier Survival Curve by Race Categories



```
title "Analysis Example for Table 10.2: Cox Model: NCS-R" ;
proc survival filetype=sas data=ncsr_c10 ;
nest sestrat seclustr ;
weight ncsrwtsh ;
class sex mar3cat ed4cat / nofreq ;
rformat ed4cat edf. ; rformat mar3cat marf. ;
reflevel sex=2 mar3cat=1 ed4cat=1 ;
event mde ;
model ageonsetmde = age sex mar3cat ed4cat hispanic black white ;
run ;
```

Analysis Example for Table 10.2: Cox Model: NCS-R

S U D A A N
Software for the Statistical Analysis of Correlated Data
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Release 10.0.1

DESIGN SUMMARY: Variances will be computed using the Taylor Linearization Method, Assuming a With Replacement (WR) Design
Sample Weight: NCSRWTSH
Stratification Variables(s): SESTRAT
Primary Sampling Unit: SECLUSTR

NOTE: Using a default start time of -10000000000 for all records

Number of observations read	:	9282	Weighted count:	9282
Observations used in the analysis	:	9282	Weighted count:	9282
Denominator degrees of freedom	:	42		

Maximum number of estimable parameters for the model is 10

Summary of Event Values
 by: MDE.

MDE	Frequency	Weighted Sum
Censored	7453.000	7502.536
Non-Censored	1829.000	1779.464

SURVIVAL has converged to a solution in 6 iterations.

-2 * Normalized Log-Likelihood with Beta(s) = 0 : 31216.13
 -2 * Normalized Log-Likelihood Full Model : 30350.14
 Approximate Chi-Square (-2 * Log-L Ratio) : 865.98
 Degrees of Freedom : 10
 Approximate P-Value : 0.00

Note: The approximate Chi-Square is not adjusted for clustering.
 Refer to hypothesis test table for adjusted test.

Variance Estimation Method: Taylor Series (WR)
 Dependent Variable: AGEONSETMDE
 Censoring Variable: MDE
 Ties Handling: EFRON
 by: Independent Variables and Effects.

Independent Variables and Effects	Beta Coeff.	SE Beta	Lower 95% Limit Beta	Upper 95% Limit Beta	T-Test B=0	P-value T-Test B=0
Age	-0.05	0.00	-0.05	-0.04	-20.77	0.0000
Sex						
Male	-0.46	0.06	-0.58	-0.33	-7.28	0.0000
Female	0.00	0.00	0.00	0.00	.	.
Marital Status-3 categories						
Married	0.00	0.00	0.00	0.00	.	.
Previously Married	0.50	0.06	0.38	0.63	8.36	0.0000
Never Married	0.08	0.09	-0.10	0.26	0.91	0.3658
Years of education-4 categories						
0-11 Yrs	0.00	0.00	0.00	0.00	.	.
12 Yrs	-0.06	0.07	-0.19	0.08	-0.85	0.3986
13-15 Yrs	0.05	0.06	-0.07	0.16	0.77	0.4435
16+ Yrs	-0.09	0.06	-0.22	0.04	-1.43	0.1600
HISPANIC	-0.25	0.14	-0.52	0.02	-1.86	0.0699
BLACK	-0.48	0.15	-0.78	-0.18	-3.21	0.0025
WHITE	0.08	0.12	-0.16	0.32	0.66	0.5121

Variance Estimation Method: Taylor Series (WR)
 Dependent Variable: AGEONSETMDE
 Censoring Variable: MDE
 Ties Handling: EFRON
 by: Contrast.

Contrast	Degrees of Freedom	Wald F	P-value Wald F
OVERALL MODEL	10	67.25	0.0000
AGE	1	431.23	0.0000
SEX	1	53.01	0.0000
MAR3CAT	2	35.48	0.0000
ED4CAT	3	2.07	0.1182
HISPANIC	1	3.46	0.0699
BLACK	1	10.31	0.0025
WHITE	1	0.44	0.5121

Variance Estimation Method: Taylor Series (WR)
 Dependent Variable: AGEONSETMDE
 Censoring Variable: MDE
 Ties Handling: EFRON
 by: Independent Variables and Effects.

Independent Variables and Effects	Hazards Ratio	Lower 95% Limit	Upper 95% Limit
Age	0.95	0.95	0.96
Sex			
Male	0.63	0.56	0.72
Female	1.00	1.00	1.00
Marital Status-3 categories			
Married	1.00	1.00	1.00
Previously Married	1.66	1.47	1.87
Never Married	1.08	0.91	1.30
Years of education-4 categories			
0-11 Yrs	1.00	1.00	1.00
12 Yrs	0.94	0.82	1.08
13-15 Yrs	1.05	0.93	1.18
16+ Yrs	0.91	0.80	1.04
HISPANIC	0.78	0.59	1.02
BLACK	0.62	0.46	0.84
WHITE	1.08	0.85	1.37

```

title "Analysis Example for Table 10.3: Discrete Time Logistic Regression : NCS-R" ;
proc rlogist data=finalc10pyr filetype=sas ;
nest sestrat seclustr ;
weight ncsrwtsh ;
class mar3cat / nofreq ;
reflevel mar3cat=1 ;
rformat mar3cat msf. ;
subpopn pyr <= ageonsetmde ;
model mdetv = pyr intwage male ed12 ed1315 ed16 hispanic black white mar3cat ;
setenv decwidth=3 ;
test adjwaldf ;
print / style=nchs ;
run ;

```

Analysis Example for Table 10.3: Discrete Time Logistic Regression : NCS-R

S U D A A N
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DESIGN SUMMARY: Variances will be computed using the Taylor Linearization Method, Assuming a With Replacement (WR) Design

Sample Weight: NCSRWTSH
 Stratification Variables(s): SESTRAT
 Primary Sampling Unit: SECLUSTR

Number of zero responses : 383867
 Number of non-zero responses : 1829

Independence parameters have converged in 7 iterations

Number of observations read	: 415219	Weighted count:	415607
Observations in subpopulation	: 385696	Weighted count:	386866
Observations used in the analysis	: 385696	Weighted count:	386866
Denominator degrees of freedom	: 42		

Maximum number of estimable parameters for the model is 12

File FINALC10PYR contains 84 Clusters
 84 clusters were used to fit the model
 Maximum cluster size is 9268 records
 Minimum cluster size is 1168 records

Sample and Population Counts for Response Variable MDETV
 Based on observations used in the analysis

0:	Sample Count	383867	Population Count	385087
1:	Sample Count	1829	Population Count	1779

R-Square for dependent variable MDETV (Cox & Snell, 1989): 0.002700

-2 * Normalized Log-Likelihood with Intercepts Only	: 22635.38
-2 * Normalized Log-Likelihood Full Model	: 21592.41
Approximate Chi-Square (-2 * Log-L Ratio)	: 1042.97
Degrees of Freedom	: 11

Note: The approximate Chi-Square is not adjusted for clustering.
 Refer to hypothesis test table for adjusted test.

Variance Estimation Method: Taylor Series (WR)
 SE Method: Robust (Binder, 1983)
 Working Correlations: Independent
 Link Function: Logit
 Response variable MDETV: MDETV
 For Subpopulation: PYR <= AGEONSETMDE
 by: Independent Variables and Effects.

Independent Variables and Effects	Beta Coeff.	SE Beta	Lower 95% Limit Beta	Upper 95% Limit Beta
Intercept	-3.436	0.162	-3.762	-3.109
PYR	0.033	0.002	0.029	0.037
INTWAGE	-0.058	0.002	-0.063	-0.053
MALE	-0.445	0.062	-0.571	-0.319
ED12	-0.020	0.066	-0.154	0.113
ED1315	0.093	0.057	-0.023	0.209
ED16	-0.019	0.063	-0.147	0.108
HISPANIC	-0.248	0.135	-0.520	0.024
BLACK	-0.457	0.150	-0.759	-0.154
WHITE	0.074	0.118	-0.165	0.313
Marital Status-3 categories				
Married	0.000	0.000	0.000	0.000
Previously Married	0.494	0.061	0.371	0.617
Never Married	-0.035	0.088	-0.213	0.142

Variance Estimation Method: Taylor Series (WR)
 SE Method: Robust (Binder, 1983)
 Working Correlations: Independent
 Link Function: Logit
 Response variable MDETV: MDETV
 For Subpopulation: PYR <= AGEONSETMDE
 by: Independent Variables and Effects.

Independent Variables and Effects	T-Test B=0	P-value T-Test B=0
Intercept	-21.209	0.000
PYR	15.816	0.000
INTWAGE	-23.823	0.000
MALE	-7.142	0.000
ED12	-0.305	0.762
ED1315	1.618	0.113
ED16	-0.307	0.760
HISPANIC	-1.843	0.072
BLACK	-3.049	0.004
WHITE	0.626	0.535
Marital Status-3 categories		
Married	.	.
Previously Married	8.101	0.000
Never Married	-0.402	0.690

Variance Estimation Method: Taylor Series (WR)
 SE Method: Robust (Binder, 1983)
 Working Correlations: Independent
 Link Function: Logit
 Response variable MDETV: MDETV
 For Subpopulation: PYR <= AGEONSETMDE
 by: Contrast.

Contrast	Degrees of Freedom	Adj Wald F	P-value Adj Wald F
OVERALL MODEL	12.000	3474.892	0.000
MODEL MINUS INTERCEPT	11.000	53.633	0.000
INTERCEPT	.	.	.
PYR	1.000	250.133	0.000
INTWAGE	1.000	567.546	0.000
MALE	1.000	51.010	0.000
ED12	1.000	0.093	0.762
ED1315	1.000	2.616	0.113
ED16	1.000	0.094	0.760
HISPANIC	1.000	3.398	0.072
BLACK	1.000	9.295	0.004
WHITE	1.000	0.392	0.535
MAR3CAT	2.000	34.351	0.000

Variance Estimation Method: Taylor Series (WR)
 SE Method: Robust (Binder, 1983)
 Working Correlations: Independent
 Link Function: Logit
 Response variable MDETV: MDETV
 For Subpopulation: PYR <= AGEONSETMDE
 by: Independent Variables and Effects.

Independent Variables and Effects	Odds Ratio	Lower 95% Limit OR	Upper 95% Limit OR
Intercept	0.032	0.023	0.045
PYR	1.033	1.029	1.038
INTWAGE	0.943	0.939	0.948
MALE	0.641	0.565	0.727
ED12	0.980	0.858	1.120
ED1315	1.097	0.977	1.232
ED16	0.981	0.863	1.114
HISPANIC	0.780	0.594	1.024
BLACK	0.633	0.468	0.857
WHITE	1.077	0.848	1.367
Marital Status-3 categories			
Married	1.000	1.000	1.000
Previously Married	1.639	1.449	1.854
Never Married	0.965	0.808	1.153