The MI Procedure

Model Information	
Data Set	WORK.PRE_1
Method	FCS
Number of Imputations	5
Number of Burn-in Iterations	20
Seed for random number generator	35399

FCS Model Specification	
Method	**Imputed Variables**
Regression	wiek
Logistic Regression	czy_wyzsze czy_uzywa_internetu czy_rownosciowy konkubinat CZY_90_PERC

Missing Data Patterns									Group Means
Group	czy_wyzsze	wiek	czy_uzywa_internetu	czy_rownosciowy	konkubinat	CZY_90_PERC	Freq	Percent	wiek
1	X	X	X	X	X	X	1189	70.19	49.238856
2	X	X	X	X	X	.	355	20.96	43.149296
3	X	X	X	X	.	X	67	3.96	37.059701
4	X	X	X	X	.	.	37	2.18	36.594595
5	X	X	X	.	X	X	16	0.94	63.187500
6	X	X	X	.	X	.	17	1.00	40.058824
7	X	X	X	.	.	X	2	0.12	24.500000
8	X	X	X	.	.	.	3	0.18	35.000000
9	X	X	.	X	.	.	1	0.06	31.000000
10	X	X	.	.	X	.	1	0.06	46.000000
11	X	X	.	.	.	.	1	0.06	40.000000
12	.	X	X	X	.	.	2	0.12	39.000000
13	.	X	X	.	.	.	1	0.06	68.000000
14	.	.	X	X	.	.	1	0.06	.
15	.	.	X	.	.	.	1	0.06	.

Variance Information (5 Imputations)							
	Variance				Relative Increase in Variance	Fraction Missing Information	Relative Efficiency
Variable	Between	Within	Total	DF			
wiek	0.000096599	0.197273	0.197388	1689.8	0.000588	0.000587	0.999883

The MI Procedure

Parameter Estimates (5 Imputations)										
Variable	Mean	Std Error	95% Confidence Limits		DF	Minimum	Maximum	Mu0	t for H0: Mean=Mu0	Pr > |t|
wiek	47.170614	0.444284	46.29921	48.04202	1689.8	47.162025	47.186724	0	106.17	<.0001

The LOGISTIC Procedure

Imputation Number=1

Model Information		
Data Set	WORK.POST_1	Multiply-Imputed Data
Response Variable	CZY_90_PERC	
Number of Response Levels	2	
Model	binary logit	
Optimization Technique	Fisher's scoring	

Number of Observations Read	1694
Number of Observations Used	1694

Response Profile		
Ordered Value	CZY_90_PERC	Total Frequency
1	0	1453
2	1	241

Probability modeled is CZY_90_PERC=1.

Class Level Information		
Class	Value	Design Variables
czy_wyzsze	0	1
	1	-1
czy_uzywa_internetu	0	1
	1	-1
czy_rownosciowy	0	1
	1	-1
konkubinat	0	1
	1	-1

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

The LOGISTIC Procedure

Imputation Number=1

Model Fit Statistics		
Criterion	Intercept Only	Intercept and Covariates
AIC	1387.886	1160.169
SC	1393.321	1192.778
-2 Log L	1385.886	1148.169

Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	237.7171	5	<.0001
Score	251.2414	5	<.0001
Wald	186.3693	5	<.0001

Type 3 Analysis of Effects			
Effect	DF	Wald Chi-Square	Pr > ChiSq
czy_wyzsze	1	50.9252	<.0001
wiek	1	2.9488	0.0859
czy_uzywa_internetu	1	21.3982	<.0001
czy_rownosciowy	1	36.4821	<.0001
konkubinat	1	4.5144	0.0336

Analysis of Maximum Likelihood Estimates						
Parameter		DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept		1	-1.1853	0.2946	16.1877	<.0001
czy_wyzsze	0	1	-0.5705	0.0800	50.9252	<.0001
wiek		1	-0.00905	0.00527	2.9488	0.0859
czy_uzywa_internetu	0	1	-0.6317	0.1366	21.3982	<.0001
czy_rownosciowy	0	1	0.5080	0.0841	36.4821	<.0001
konkubinat	0	1	-0.1890	0.0889	4.5144	0.0336

The LOGISTIC Procedure

Imputation Number=1

Odds Ratio Estimates			
Effect	**Point Estimate**	**95% Wald Confidence Limits**	
czy_wyzsze　　0 vs 1	0.319	0.234	0.437
wiek	0.991	0.981	1.001
czy_uzywa_internetu 0 vs 1	0.283	0.166	0.483
czy_rownosciowy　0 vs 1	2.762	1.986	3.841
konkubinat　　0 vs 1	0.685	0.484	0.971

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	78.9	**Somers' D**	0.580
Percent Discordant	20.9	**Gamma**	0.582
Percent Tied	0.3	**Tau-a**	0.142
Pairs	350173	**c**	0.790

The LOGISTIC Procedure

Imputation Number=2

Model Information		
Data Set	WORK.POST_1	Multiply-Imputed Data
Response Variable	CZY_90_PERC	
Number of Response Levels	2	
Model	binary logit	
Optimization Technique	Fisher's scoring	

Number of Observations Read	1694
Number of Observations Used	1694

Response Profile		
Ordered Value	**CZY_90_PERC**	**Total Frequency**
1	0	1459
2	1	235

Probability modeled is CZY_90_PERC=1.

Class Level Information		
Class	**Value**	**Design Variables**
czy_wyzsze	0	1
	1	-1
czy_uzywa_internetu	0	1
	1	-1
czy_rownosciowy	0	1
	1	-1
konkubinat	0	1
	1	-1

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

The LOGISTIC Procedure

Imputation Number=2

Model Fit Statistics		
Criterion	Intercept Only	Intercept and Covariates
AIC	1366.151	1129.127
SC	1371.586	1161.736
-2 Log L	1364.151	1117.127

Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	247.0244	5	<.0001
Score	264.5278	5	<.0001
Wald	195.0316	5	<.0001

Type 3 Analysis of Effects			
Effect	DF	Wald Chi-Square	Pr > ChiSq
czy_wyzsze	1	70.8395	<.0001
wiek	1	5.8890	0.0152
czy_uzywa_internetu	1	15.7612	<.0001
czy_rownosciowy	1	27.9467	<.0001
konkubinat	1	3.7344	0.0533

Analysis of Maximum Likelihood Estimates						
Parameter		DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept		1	-1.0058	0.2999	11.2502	0.0008
czy_wyzsze	0	1	-0.6820	0.0810	70.8395	<.0001
wiek		1	-0.0132	0.00544	5.8890	0.0152
czy_uzywa_internetu	0	1	-0.5471	0.1378	15.7612	<.0001
czy_rownosciowy	0	1	0.4553	0.0861	27.9467	<.0001
konkubinat	0	1	-0.1735	0.0898	3.7344	0.0533

The LOGISTIC Procedure

Imputation Number=2

Odds Ratio Estimates			
Effect	**Point Estimate**	**95% Wald Confidence Limits**	
czy_wyzsze 0 vs 1	0.256	0.186	0.351
wiek	0.987	0.976	0.997
czy_uzywa_internetu 0 vs 1	0.335	0.195	0.575
czy_rownosciowy 0 vs 1	2.486	1.774	3.484
konkubinat 0 vs 1	0.707	0.497	1.005

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	79.9	**Somers' D**	0.600
Percent Discordant	19.8	**Gamma**	0.602
Percent Tied	0.3	**Tau-a**	0.144
Pairs	342865	**c**	0.800

The LOGISTIC Procedure

Imputation Number=3

Model Information		
Data Set	WORK.POST_1	Multiply-Imputed Data
Response Variable	CZY_90_PERC	
Number of Response Levels	2	
Model	binary logit	
Optimization Technique	Fisher's scoring	

Number of Observations Read	1694
Number of Observations Used	1694

Response Profile		
Ordered Value	CZY_90_PERC	Total Frequency
1	0	1453
2	1	241

Probability modeled is CZY_90_PERC=1.

Class Level Information		
Class	Value	Design Variables
czy_wyzsze	0	1
	1	-1
czy_uzywa_internetu	0	1
	1	-1
czy_rownosciowy	0	1
	1	-1
konkubinat	0	1
	1	-1

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

The LOGISTIC Procedure

Imputation Number=3

Model Fit Statistics		
Criterion	Intercept Only	Intercept and Covariates
AIC	1387.886	1140.461
SC	1393.321	1173.070
-2 Log L	1385.886	1128.461

Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	257.4244	5	<.0001
Score	278.5880	5	<.0001
Wald	206.5987	5	<.0001

Type 3 Analysis of Effects			
Effect	DF	Wald Chi-Square	Pr > ChiSq
czy_wyzsze	1	83.6394	<.0001
wiek	1	7.1463	0.0075
czy_uzywa_internetu	1	12.2308	0.0005
czy_rownosciowy	1	19.7710	<.0001
konkubinat	1	7.4308	0.0064

Analysis of Maximum Likelihood Estimates						
Parameter		DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept		1	-0.8536	0.2979	8.2132	0.0042
czy_wyzsze	0	1	-0.7372	0.0806	83.6394	<.0001
wiek		1	-0.0145	0.00544	7.1463	0.0075
czy_uzywa_internetu	0	1	-0.4698	0.1343	12.2308	0.0005
czy_rownosciowy	0	1	0.3868	0.0870	19.7710	<.0001
konkubinat	0	1	-0.2406	0.0883	7.4308	0.0064

The LOGISTIC Procedure

Imputation Number=3

Odds Ratio Estimates			
Effect	**Point Estimate**	**95% Wald Confidence Limits**	
czy_wyzsze 0 vs 1	0.229	0.167	0.314
wiek	0.986	0.975	0.996
czy_uzywa_internetu 0 vs 1	0.391	0.231	0.662
czy_rownosciowy 0 vs 1	2.168	1.541	3.049
konkubinat 0 vs 1	0.618	0.437	0.874

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	79.8	**Somers' D**	0.600
Percent Discordant	19.9	**Gamma**	0.601
Percent Tied	0.3	**Tau-a**	0.146
Pairs	350173	**c**	0.800

The LOGISTIC Procedure

Imputation Number=4

Model Information		
Data Set	WORK.POST_1	Multiply-Imputed Data
Response Variable	CZY_90_PERC	
Number of Response Levels	2	
Model	binary logit	
Optimization Technique	Fisher's scoring	

Number of Observations Read	1694
Number of Observations Used	1694

Response Profile		
Ordered Value	CZY_90_PERC	Total Frequency
1	0	1447
2	1	247

Probability modeled is CZY_90_PERC=1.

Class Level Information		
Class	Value	Design Variables
czy_wyzsze	0	1
	1	-1
czy_uzywa_internetu	0	1
	1	-1
czy_rownosciowy	0	1
	1	-1
konkubinat	0	1
	1	-1

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

The LOGISTIC Procedure

Imputation Number=4

Model Fit Statistics		
Criterion	**Intercept Only**	**Intercept and Covariates**
AIC	1409.272	1153.656
SC	1414.707	1186.265
-2 Log L	1407.272	1141.656

Testing Global Null Hypothesis: BETA=0			
Test	**Chi-Square**	**DF**	**Pr > ChiSq**
Likelihood Ratio	265.6157	5	<.0001
Score	281.6207	5	<.0001
Wald	204.3070	5	<.0001

Type 3 Analysis of Effects			
Effect	**DF**	**Wald Chi-Square**	**Pr > ChiSq**
czy_wyzsze	1	67.2536	<.0001
wiek	1	4.8512	0.0276
czy_uzywa_internetu	1	20.1196	<.0001
czy_rownosciowy	1	44.7658	<.0001
konkubinat	1	1.1455	0.2845

Analysis of Maximum Likelihood Estimates						
Parameter		**DF**	**Estimate**	**Standard Error**	**Wald Chi-Square**	**Pr > ChiSq**
Intercept		1	-1.0472	0.2951	12.5936	0.0004
czy_wyzsze	0	1	-0.6524	0.0796	67.2536	<.0001
wiek		1	-0.0117	0.00531	4.8512	0.0276
czy_uzywa_internetu	0	1	-0.6131	0.1367	20.1196	<.0001
czy_rownosciowy	0	1	0.5608	0.0838	44.7658	<.0001
konkubinat	0	1	-0.0964	0.0900	1.1455	0.2845

The LOGISTIC Procedure

Imputation Number=4

Odds Ratio Estimates			
Effect	**Point Estimate**	**95% Wald Confidence Limits**	
czy_wyzsze 0 vs 1	0.271	0.199	0.370
wiek	0.988	0.978	0.999
czy_uzywa_internetu 0 vs 1	0.293	0.172	0.501
czy_rownosciowy 0 vs 1	3.070	2.210	4.264
konkubinat 0 vs 1	0.825	0.579	1.174

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	79.9	**Somers' D**	0.602
Percent Discordant	19.8	**Gamma**	0.603
Percent Tied	0.3	**Tau-a**	0.150
Pairs	357409	**c**	0.801

The LOGISTIC Procedure

Imputation Number=5

Model Information		
Data Set	WORK.POST_1	Multiply-Imputed Data
Response Variable	CZY_90_PERC	
Number of Response Levels	2	
Model	binary logit	
Optimization Technique	Fisher's scoring	

Number of Observations Read	1694
Number of Observations Used	1694

Response Profile		
Ordered Value	CZY_90_PERC	Total Frequency
1	0	1448
2	1	246

Probability modeled is CZY_90_PERC=1.

Class Level Information		
Class	Value	Design Variables
czy_wyzsze	0	1
	1	-1
czy_uzywa_internetu	0	1
	1	-1
czy_rownosciowy	0	1
	1	-1
konkubinat	0	1
	1	-1

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

The LOGISTIC Procedure

Imputation Number=5

Model Fit Statistics		
Criterion	**Intercept Only**	**Intercept and Covariates**
AIC	1405.731	1180.305
SC	1411.166	1212.914
-2 Log L	1403.731	1168.305

Testing Global Null Hypothesis: BETA=0			
Test	**Chi-Square**	**DF**	**Pr > ChiSq**
Likelihood Ratio	235.4266	5	<.0001
Score	251.3021	5	<.0001
Wald	190.2806	5	<.0001

Type 3 Analysis of Effects			
Effect	**DF**	**Wald Chi-Square**	**Pr > ChiSq**
czy_wyzsze	1	67.2552	<.0001
wiek	1	3.5325	0.0602
czy_uzywa_internetu	1	17.5137	<.0001
czy_rownosciowy	1	25.2013	<.0001
konkubinat	1	4.2161	0.0400

Analysis of Maximum Likelihood Estimates						
Parameter		**DF**	**Estimate**	**Standard Error**	**Wald Chi-Square**	**Pr > ChiSq**
Intercept		1	-1.0896	0.2912	13.9986	0.0002
czy_wyzsze	0	1	-0.6492	0.0792	67.2552	<.0001
wiek		1	-0.00986	0.00525	3.5325	0.0602
czy_uzywa_internetu	0	1	-0.5480	0.1309	17.5137	<.0001
czy_rownosciowy	0	1	0.4261	0.0849	25.2013	<.0001
konkubinat	0	1	-0.1813	0.0883	4.2161	0.0400

The LOGISTIC Procedure

Imputation Number=5

Odds Ratio Estimates			
Effect	**Point Estimate**	**95% Wald Confidence Limits**	
czy_wyzsze 0 vs 1	0.273	0.200	0.372
wiek	0.990	0.980	1.000
czy_uzywa_internetu 0 vs 1	0.334	0.200	0.558
czy_rownosciowy 0 vs 1	2.345	1.681	3.271
konkubinat 0 vs 1	0.696	0.492	0.984

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	78.8	**Somers' D**	0.579
Percent Discordant	20.9	**Gamma**	0.580
Percent Tied	0.3	**Tau-a**	0.144
Pairs	356208	**c**	0.789

The MIANALYZE Procedure

Model Information	
PARMS Data Set	WORK.LGPARMS
Number of Imputations	5

Variance Information (5 Imputations)							
	Variance						
Parameter	**Between**	**Within**	**Total**	**DF**	**Relative Increase in Variance**	**Fraction Missing Information**	**Relative Efficiency**
Intercept	0.014863	0.087466	0.105301	139.43	0.203911	0.181037	0.965058
czy_wyzsze	0.003652	0.006410	0.010792	24.264	0.683558	0.449592	0.917500
wiek	0.000005183	0.000028538	0.000034757	124.92	0.217943	0.191781	0.963061
czy_uzywa_internetu	0.004097	0.018303	0.023219	89.212	0.268629	0.228844	0.956234
czy_rownosciowy	0.004678	0.007258	0.012872	21.03	0.773452	0.483059	0.911900
konkubinat	0.002679	0.007934	0.011148	48.119	0.405121	0.316162	0.940528

Parameter Estimates (5 Imputations)										
Parameter	**Estimate**	**Std Error**	**95% Confidence Limits**		**DF**	**Minimum**	**Maximum**	**Theta0**	**t for H0: Parameter=Theta0**	**Pr > |t|**
Intercept	-1.036314	0.324502	-1.67789	-0.39473	139.43	-1.185304	-0.853647	0	-3.19	0.0017
czy_wyzsze	-0.658275	0.103885	-0.87256	-0.44399	24.264	-0.737192	-0.570543	0	-6.34	<.0001
wiek	-0.011670	0.005896	-0.02334	-0.00000	124.92	-0.014547	-0.009050	0	-1.98	0.0500
czy_uzywa_internetu	-0.561935	0.152379	-0.86470	-0.25917	89.212	-0.631658	-0.469789	0	-3.69	0.0004
czy_rownosciowy	0.467420	0.113457	0.23149	0.70335	21.03	0.386831	0.560791	0	4.12	0.0005
konkubinat	-0.176156	0.105585	-0.38843	0.03612	48.119	-0.240590	-0.096379	0	-1.67	0.1017