

Appendix

Table 1: Correlation Matrix of the Characteristics under Investigation of Sexually Active Young Women in KwaZulu Natal, 2001

	Contraceptive methods	Age	Race	Relationship status	Religion	Currently in school	Knows how conception occurs	Condom use at last sex	Number of sexual partners	Ever been pregnant	Life Skills Subject	Radio	Television	Newspaper or magazine	Billboards
Contraceptive methods	1														
Age	0.1251	1													
Race	-0.1911	0.0185	1												
Relationship status	-0.0642	0.0021	-0.072	1											
Religion	-0.0968	-0.0203	0.3809	0.0163	1										
Currently in school	-0.0109	-0.3099	-0.0261	0.0187	-0.0215	1									
Knows how conception occurs	-0.0922	-0.0494	0.0682	0.1022	0.1006	-0.0211	1								
Condom use at last sex	-0.2316	0.0914	-0.0446	0.0174	0.012	-0.1959	0.0104	1							
Number of sexual partners	0.0074	-0.0095	-0.0034	-0.0099	0.0461	0.0103	0.0211	0.0052	1						
Ever been pregnant	-0.0525	-0.2361	-0.1505	-0.0145	-0.0689	0.3211	-0.0238	-0.2738	0.0080	1					
Life Skills subject	-0.1572	-0.3881	0.1218	0.0591	0.0557	0.4389	-0.0107	-0.074	0.0179	0.2177	1				
Radio	0.0014	0.1169	0.0335	0.108	-0.0204	-0.0273	-0.0032	-0.0052	-0.0293	-0.0565	-0.0807	1			
Television	0.1165	0.0456	-0.1999	0.0413	-0.1451	0.0587	-0.0752	-0.0955	-0.0412	0.0038	-0.0605	0.4437	1		

Newspaper or magazine	0.1141	0.0528	-0.2633	0.0821	-0.1761	0.0157	-0.0706	-0.0839	0.004	0.0559	-0.115	0.3451	0.496	1	
Billboards	0.1364	0.0331	-0.2599	0.0928	-0.1639	0.0341	-0.0437	-0.1109	0.0031	0.1075	-0.1	0.2812	0.4321	0.6138	1

Table 2: Percentage Distribution of Dual Contraceptive Use among Sexually Active Young Women in KwaZulu Natal, 2001

Variable	Contraceptive Methods		
	None % (N)	Barrier Methods % (N)	Hormonal and Other Methods % (N)
Condom use at last sex			
Yes	9.01 (20)	75.25 (168)	15.74 (35)
No	65.21 (134)	0.87 (2)	33.92 (70)
Non-response	100.00 (35)	0.00 (0)	0.00 (0)

Table 3: Unadjusted Relative Risk Ratios for Barrier as well as Hormonal and Other Contraceptive Methods with Condon Use at Last Sex

Contraceptive Method: None (base outcome)	Barrier Method				Hormonal and other method			
Variable	Unadjusted RRR	P-value	[95% Confidence Interval]		Unadjusted RRR	P-value	[95% Confidence Interval]	
Age								
Constant	0.897	0.64	0.5668887	1.417953	0.554	0.037	0.3177288	0.9658926
15-19	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
20-24	1.186	0.719	0.467	3.014	1.441	0.481	0.520	3.988
Race								
Constant	0.847	0.578	0.472	1.521	0.487	0.081	0.217	1.093
Other	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Black	0.366	0.07	0.123	1.086	0.106	0.0001	0.035	0.320
Relationship Status								
Constant	2.378	0.083	0.893	6.329	4.546	0.001	1.820	11.356
In a relationship	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Single	0.187	0.002	0.065	0.535	0.246	0.033	0.068	0.890
Religion								
Constant	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Other	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Christian	5.797	0.118	0.637	52.736	1.274	0.821	0.155	10.479
Traditional	9.932	0.047	1.027	96.076	0.630	0.672	0.074	5.360
None	5.539	0.144	0.556	55.165	6.104	0.113	0.651	57.252
Currently in school								
Constant	0.135	0.066	0.016	1.144	0.378	0.337	0.052	2.762
No	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.

Yes	2.570	0.023	1.140	5.792	0.348	0.023	0.140	0.862
Constant	0.561	0.1432935	0.340	0.927	0.737	0.389	0.368	1.477
Knows how conception occurs								
Yes	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
No	0.602	0.321	0.220	1.645	1.698	0.570	0.272	10.608
Constant	0.939	0.803	0.574	1.537	0.525	0.027	0.297	0.929
Condom use at last sex								
Yes	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
No	0.002	0.0001	3.37E-04	7.48E-03	0.298	0.041	0.093	0.951
Non-response	9.88E-09	0.0001	3.77E-09	2.59E-08	2.92E-08	0.0001	8.59E-09	9.91E-08
Constant	8.350	0.0001	4.772	14.612	1.747	0.244	0.683	4.470
Number of sexual partners								
One	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
More than one	0.790	0.645	0.289	2.158	0.519	0.303	0.148	1.811
Constant	1.109	0.685	0.672	1.829	0.700	0.238	0.387	1.267
Ever been pregnant								
Yes	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
No	4.061	0.004	1.565	10.537	0.389	0.040	0.158	0.959
Constant	0.404	0.019	0.190	0.861	0.732	0.392	0.357	1.498
Life Skills subject								
Don't know	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Yes	2.081	0.088	0.896	4.831	0.493	0.287	0.134	1.818
No	0.878	0.832	0.261	2.949	0.178	0.004	0.055	0.583
Constant	0.693	0.252	0.369	1.299	0.945	0.891	0.420	2.128
Radio								

No	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Yes	1.689	0.197	0.761	3.748	1.503	0.467	0.500	4.517
Constant	0.755	0.400	0.393	1.453	0.487	0.045	0.241	0.984
Television								
No	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Yes	2.650	0.052	0.990	7.096	0.965	0.946	0.336	2.770
Constant	0.629	0.12	0.350	1.129	0.559	0.096	0.282	1.109
Newspaper and magazine								
No	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Yes	1.835	0.251	0.649	5.185	0.790	0.693	0.245	2.546
Constant	0.756	0.322	0.434	1.316	0.581	0.095	0.307	1.100
Billboards								
No	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Yes	1.245	0.681	0.436	3.557	1.375	0.604	0.411	4.603
Constant	0.859	0.572	0.506	1.457	0.519	0.050	0.270	0.999

Table 4: Adjusted Relative Risk Ratios for Barrier as well as Hormonal and Other Contraceptive Methods with Condon Use at Last Sex

Contraceptive Method: None (base outcome)	Barrier Method				Hormonal and other method			
Variable	Adjusted RRR	P-value	[95% Confidence Interval]		Adjusted RRR	P-value	[95% Confidence Interval]	
Age								
15-19	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
20-24	2.414	0.182	0.661	8.823	1.640	0.317	0.621	4.334
Race								
Other	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Black	0.637	0.645	0.093	4.354	0.045	0.0001	0.009	0.240
Relationship Status								
In a relationship	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Single	0.194	0.037	0.042	0.905	0.452	0.223	0.126	1.626
Religion								
Other	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Christian	0.017	0.089	1.47E-04	1.866	0.616	0.650	0.075	5.034
Traditional	0.022	0.112	1.99E-04	2.459	0.340	0.355	0.034	3.358
None	0.017	0.112	1.14E-04	2.589	2.448	0.465	0.221	2.,137
Currently in school								
No	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Yes	0.596	0.439	0.161	2.213	0.524	0.177	0.205	1.342
Knows how conception occurs								
Yes	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
No	1.226	0.816	0.220	6.847	1.379	0.685	0.291	6.542

Condom use at last sex									
Yes	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
No	4.43E-04	0.0001	4.84E-05	4.06E-03	0.188	0.001	0.068	0.522	
Non-response	1.00E-06	0.0001	6.49E-08	1.55E-05	5.40E-06	0.0001	4.64E-07	6.28E-05	
Number of sexual partners									
One	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
More than one	2.931	0.192	0.580	14.804	0.467	0.366	0.089	2.441	
Ever been pregnant									
Yes	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
No	3.287	0.029	1.127	9.586	0.330	0.013	0.137	0.790	
Life Skills subject									
Don't know	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Yes	1.223	0.804	0.248	6.035	0.509	0.250	0.160	1.614	
No	1.624	0.52	0.369	7.149	0.347	0.075	0.108	1.112	
Radio									
No	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Yes	1.941	0.259	0.613	6.142	1.184	0.714	0.478	2.932	
Television									
No	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Yes	4.392	0.008	1.478	13.054	1.116	0.826	0.419	2.969	
Newspaper and magazine									
No	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Yes	2.395	0.235	0.566	10.139	0.264	0.031	0.079	0.888	
Billboards									
No	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Yes	0.181	0.05	0.033	1.000	1.233	0.733	0.369	4.121	
Constant	197.039	0.037	1.374	28250.490	171.989	0.0001	12.802	2310.591	

Table 1: Model Fit of Multinomial Logistic Regression Model using Pearson’s Chi-squared Statistic

Contraceptive Method: None (base outcome)	Barrier Method				Hormonal and other method			
	Variable	Adjusted RRR	P-value	[95% Confidence Interval]	Adjusted RRR	P-value	[95% Confidence Interval]	
Age								
15-19	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
20-24	2.414	0.182	0.661	8.823	1.640	0.317	0.621	4.334
Race								
Other	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Black	0.637	0.645	0.093	4.354	0.045	0.0001	0.009	0.240
Relationship Status								
In a relationship	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Single	0.194	0.037	0.042	0.905	0.452	0.223	0.126	1.626
Religion								
Other	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Christian	0.017	0.089	1.47E-04	1.866	0.616	0.650	0.075	5.034
Traditional	0.022	0.112	1.99E-04	2.459	0.340	0.355	0.034	3.358
None	0.017	0.112	1.14E-04	2.589	2.448	0.465	0.221	2.,137
Currently in school								
No	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Yes	0.596	0.439	0.161	2.213	0.524	0.177	0.205	1.342
Knows how conception occurs								
Yes	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
No	1.226	0.816	0.220	6.847	1.379	0.685	0.291	6.542
Condom use at last sex								

Yes	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
No	4.43E-04	0.0001	4.84E-05	4.06E-03	0.188	0.001	0.068	0.522	
Non-response	1.00E-06	0.0001	6.49E-08	1.55E-05	5.40E-06	0.0001	4.64E-07	6.28E-05	
Number of sexual partners									
One	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	
More than one	2.931	0.192	0.580	14.804	0.467	0.366	0.089	2.441	
Ever been pregnant									
Yes	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	
No	3.287	0.029	1.127	9.586	0.330	0.013	0.137	0.790	
Life Skills subject									
Don't know	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	
Yes	1.223	0.804	0.248	6.035	0.509	0.250	0.160	1.614	
No	1.624	0.52	0.369	7.149	0.347	0.075	0.108	1.112	
Radio									
No	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	
Yes	1.941	0.259	0.613	6.142	1.184	0.714	0.478	2.932	
Television									
No	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	
Yes	4.392	0.008	1.478	13.054	1.116	0.826	0.419	2.969	
Newspaper and magazine									
No	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	
Yes	2.395	0.235	0.566	10.139	0.264	0.031	0.079	0.888	
Billboards									
No	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	
Yes	0.181	0.05	0.033	1.000	1.233	0.733	0.369	4.121	
Constant	197.039	0.037	1.374	28250.490	171.989	0.0001	12.802	2310.591	

Model statistics:
Number of strata= 8
Number of PSU = 365
Number of observations = 365
Population size = 428.73
Design df = 357
$F(36, 322) = 8.69$
Prob > F = 0.00001

