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Determinants of the choice of type of contraceptive methods used by young women in KwaZulu Natal, South Africa, 2001

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2017

https://hdl.handle.net/10539/24458

Nkumanda, Vuyelwa (2017) Determinants of the choice of type of contraceptive methods used by young women in KwaZulu Natal, South Africa, 2001, University of the Witwatersrand, Johannesburg, <https://hdl.handle.net/10539/24458>

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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

	Contraceptive Methods		
Variable	**None % (N)**	**Barrier Methods % (N)**	**Hormonal and Other Methods % (N)**
Condom use at last sex			
Yes	9.01	75.25	15.74
	(20)	(168)	(35)
No	65.21	0.87	33.92
	(134)	(2)	(70)
Non-response	100.00	0.00	0.00
	(35)	(0)	(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]**	
Constant	0.897	0.64	0.5668887	1.417953	0.554	0.037	0.3177288	0.9658926
Age								
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
Constant	0.847	0.578	0.472	1.521	0.487	0.081	0.217	1.093
Race								
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
Constant	2.378	0.083	0.893	6.329	4.546	0.001	1.820	11.356
Relationship Status								
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
Constant	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Religion								
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
Constant	0.135	0.066	0.016	1.144	0.378	0.337	0.052	2.762
Currently in school								
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.
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**

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.
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