

## ANNEX 3

**Annex 3 Table 1 -- Madagascar: Girls 6-12 Primary School Choice Nested Logit Model Estimates**

Variable	Public school		Private school	
	Coefficient	t-Statistic	Coefficient	t-Statistic
Intercept	-5.051	-1.096	-11.670	-1.470
Age	0.549	2.452	0.550	2.580
# children <15	0.039	0.399	-0.073	-0.422
# adults (15+)	0.480	2.107	0.778	2.800
Mother primary	1.431	2.126	-0.013	-0.019
Mother Secondary or higher	2.652	1.998	1.459	1.184
Mother education missing	0.396	0.257	--	--
Father primary	0.783	1.655	1.766	1.915
Father secondary or higher	3.099	2.300	4.499	2.479
Father education missing	-0.497	-0.570	1.059	0.690
Log household expend.	-0.098	-0.205	0.666	0.769
School variables:				
Cost	-0.105	-1.966	-0.060	-2.093
Cost*log hh expend.	0.012	1.814	0.008	2.094
Distance (km)	-1.176	-2.221	0.287	0.507
Multigrade teaching	-1.338	-2.626	0.502	0.964
Window condition	0.926	1.320	0.130	0.217
Building condition	-0.131	-0.420	-1.797	-1.860
Sigma	0.550	2.540	0.550	2.540

No. of observations = 896

Notes: Base choice is non-enrollment. Model also includes region dummies.

**Annex 3 Table 2 -- Madagascar: Boys 6-12 Primary School Choice Nested Logit Model Estimates**

Variable	Public school		Private school	
	Coefficient	t-Statistic	Coefficient	t-Statistic
Intercept	-12.844	-2.026	-15.586	-2.208
Age	0.391	2.500	0.292	1.859
# children <15	-0.007	-0.083	-0.206	-1.247
# adults (15+)	0.172	1.462	0.375	2.329
Mother primary	0.661	1.729	0.939	1.214
Mother Secondary or higher	2.134	2.063	2.197	1.410
Mother education missing	-0.991	-0.693		
Father primary	1.035	1.956	2.185	2.441
Father secondary or higher	2.738	2.250	4.263	3.156
Father education missing	1.194	1.216	1.582	0.905
Log household expend.	1.189	1.759	1.460	1.779
School variables:				
Cost	-0.103	-1.967	-0.073	-2.069
Cost*log hh expend.	0.012	1.861	0.009	1.991
Distance (km)	-0.692	-1.963	0.397	0.841
Multigrade teaching	-0.793	-2.021	0.172	0.333
Window condition	1.629	2.285	0.137	0.236
Building condition	0.485	1.436	0.308	0.448
Sigma	0.617	2.687	0.617	2.687

No. of observations = 924

Notes: Base choice is non-enrollment. Model also includes region dummies.

**Annex 3 Table 3** – Madagascar current secondary enrollment probit model, children 14-18 (primary school completers only): female and male marginal effects and their differences

Variable	Girls		Boys		Difference	t-statistic
	Marginal effect	t-statistic	Marginal effect	t-statistic		
Intercept	1.566	2.743	0.876	1.337	0.691	0.795
Age	-0.114	-5.389	-0.096	-4.270	-0.017	-0.561
log household expend.	0.023	0.398	0.074	1.248	-0.051	-0.616
# children <5	-0.029	-0.998	0.043	1.197	-0.072	-1.558
# children 5-14	0.036	1.602	0.026	1.172	0.010	0.328
# males 15-20	-0.003	-0.102	-0.002	-0.045	-0.001	-0.026
# females 15-20	0.080	1.783	0.036	0.698	0.045	0.657
# females 21+	0.000	-0.009	-0.008	-0.224	0.008	0.142
# males 21+	-0.063	-1.630	0.063	1.178	-0.126	-1.910
Mother primary	-0.044	-0.582	-0.101	-1.244	0.057	0.513
Mother secondary plus	0.106	0.781	0.023	0.196	0.083	0.461
Mother ed missing	-0.259	-0.822	-0.280	-1.442	0.021	0.058
Father primary	0.083	0.976	-0.009	-0.111	0.092	0.785
Father secondary plus	0.174	1.559	0.197	1.868	-0.023	-0.148
Father ed missing	0.285	1.401	-0.183	-0.904	0.468	1.631
Distance to lower secondary school (km)	-0.018	-3.432	-0.010	-2.427	-0.008	-1.205
Distance to upper secondary school (km)	0.000	0.304	-0.001	-0.549	0.001	0.587
Paved road in village	0.191	3.055	0.163	2.470	0.028	0.308

Notes: Based on probit model estimates. For continuous variables, shows the derivative of the probability with respect to the variables. For discrete variables, shows the difference in probability for 0,1 values of the variable. Standard errors calculated

Model also includes region dummies.

**Annex 3 Table 4** – Uganda current secondary enrollment, children 14-18 (primary school completers only): female and male probit marginal effects and their differences

Variable	Girls		Boys		Difference	t-statistic
	Marginal effect	t-statistic	Marginal effect	t-statistic		
Intercept	-0.655	-27.587	-0.536	-21.422	-0.118	-3.426
Age	-0.002	-0.125	0.052	2.854	-0.054	-2.309
Father some primary	-0.092	-1.506	0.121	1.663	-0.212	-2.242
Father completed primary	0.069	0.933	0.121	1.375	-0.052	-0.454
Father secondary plus	0.155	1.938	0.036	0.377	0.119	0.962
Mother some primary	-0.018	-0.286	-0.066	-1.304	0.048	0.598
Mother completed primary	0.018	0.247	0.096	1.409	-0.078	-0.783
Mother secondary plus	-0.083	-1.312	0.097	1.365	-0.180	-1.892
Fostered in child	-0.041	-0.793	-0.107	-2.171	0.066	0.922
# children <5	-0.032	-1.826	0.024	1.381	-0.056	-2.268
# males 6-16	0.026	1.413	0.025	1.104	0.001	0.031
# females 6-16	0.025	1.220	0.000	-0.007	0.025	0.932
# males 17+	0.005	0.301	0.004	0.270	0.001	0.036
# females 17+	0.053	3.102	0.013	0.678	0.039	1.513
log household expend. distance to secondary (km)	0.077	2.733	0.173	5.371	-0.096	-2.240
EAST	-0.007	-1.874	-0.012	-3.473	0.005	1.063
WEST	-0.105	-2.199	0.021	0.390	-0.126	-1.733
NORTH	-0.138	-2.529	-0.007	-0.097	-0.132	-1.520
NORTH	0.053	0.711	-0.033	-0.572	0.086	0.912

Notes: Based on probit model estimates. For continuous variables, shows the derivative of the probability with respect to the variables. For discrete variables, shows the difference in probability for 0,1 values of the variable. Standard errors calculated

Model also includes region dummies.

**Annex 3 Table 5 – Madagascar: Women (age 15+) Health Care Provider Choice  
Multinomial Logit Estimates**

Variable	Provider					
	Hospital		Basic Care		Private Formal Care	
	Coefficient	t-Statistic	Coefficient	t-Statistic	Coefficient	t-Statistic
Intercept	-2.537	-1.655	-2.924	-2.501	-7.034	-4.611
Age	-0.016	-1.207	-0.005	-0.640	-0.014	-1.151
Years schooling	0.010	0.169	0.024	0.524	-0.048	-0.736
# children <5	0.053	0.251	0.289	1.889	0.731	3.377
# boys 5-14	0.111	0.584	-0.120	-0.811	0.436	1.965
# girls 5-14	-0.143	-0.636	0.008	0.058	0.105	0.549
# males 15+	0.205	1.226	0.206	1.698	0.357	1.970
# females 15+	0.377	2.254	-0.070	-0.505	-0.230	-1.064
log household expend.	0.320	0.868	0.404	1.522	1.315	3.624
Distance to provider	-0.069	-3.700	-0.069	-3.700	-0.069	-3.700
cost	0.007	0.581	0.007	0.581	0.007	0.581
doctor present	0.064	0.332	0.064	0.332	0.064	0.332
Free malaria medicine	0.042	0.229	0.042	0.229	0.042	0.229
Free antibiotics	-0.064	-0.267	-0.064	-0.267	-0.064	-0.267
Refrigerator	0.001	0.004	0.001	0.004	0.001	0.004
Electricity	0.462	1.491	0.462	1.491	0.462	1.491
Provider data missing	-0.436	-1.044	-0.436	-1.044	--	--

No. of observations = 652

Notes: Model also includes dummy variables for region (Faritany) and season.

**Annex 3 Table 6 – Madagascar: men (age 15+) Health Care Provider Choice  
Multinomial Logit Estimates**

Variable	Provider					
	Hospital		Basic Care		Private Formal Care	
	Coefficient	t-Statistic	Coefficient	t-Statistic	Coefficient	t-Statistic
Intercept	-5.472	-3.103	-3.291	-2.719	-6.083	-3.596
Age	0.013	1.144	-0.016	-1.845	0.000	0.034
Years schooling	-0.015	-0.273	-0.018	-0.407	0.033	0.592
# children <5	0.422	2.052	0.024	0.153	0.135	0.653
# boys 5-14	0.102	0.535	0.174	1.268	0.024	0.104
# girls 5-14	-0.145	-0.669	0.251	1.816	0.186	0.836
# males 15+	0.270	1.602	0.180	1.404	0.165	0.926
# females 15+	0.125	0.675	-0.232	-1.277	0.041	0.202
log household expend.	0.627	1.758	0.352	1.316	0.823	2.334
Distance to provider	-0.037	-2.202	-0.037	-2.202	-0.037	-2.202
cost	0.001	0.098	0.001	0.098	0.001	0.098
doctor present	0.127	0.576	0.127	0.576	0.127	0.576
Free malaria medicine	0.326	1.717	0.326	1.717	0.326	1.717
Free antibiotics	0.012	0.044	0.012	0.044	0.012	0.044
Refrigerator	-0.373	-1.336	-0.373	-1.336	-0.373	-1.336
Electricity	0.294	0.933	0.294	0.933	0.294	0.933
Provider data missing	0.376	0.835	-2.070	-2.748	--	--

No. of observations = 577

Note: Model also includes dummy variables for region (Faritany) and season.

**Annex 3 Table 7 – Madagascar: Girls under 15 Health Care Provider Choice  
Multinomial Logit Model Estimates**

Variable	Provider					
	Hospital		Basic Care		Private Formal Care	
	Coefficient	t- statistic	Coefficient	t- statistic	Coefficient	t- statistic
Intercept	-0.254	-0.121	-0.710	-0.486	-4.382	-1.604
Age	-0.121	-1.818	-0.038	-0.932	-0.163	-1.741
Head schooling	0.147	2.003	0.054	1.266	0.178	2.494
# children <5	0.024	0.087	-0.027	-0.147	-0.679	-1.599
# boys 5-14	0.535	2.125	-0.515	-2.847	0.280	0.991
# girls 5-14	-0.314	-1.223	0.039	0.247	-0.336	-1.035
# males 15+	-0.041	-0.150	0.338	2.048	-0.344	-0.941
# females 15+	0.474	1.551	0.011	0.044	1.241	3.531
log household expend.	-0.638	-1.263	-0.193	-0.624	0.050	0.092
Distance to provider cost (francs Malagasy)	-0.007	-0.577	-0.007	-0.577	-0.007	-0.577
doctor present	0.000	0.028	0.000	0.028	0.000	0.028
Free malaria medicine	-0.114	-0.509	-0.114	-0.509	-0.114	-0.509
Free antibiotics	0.198	0.920	0.198	0.920	0.198	0.920
Free vaccines	-0.320	-1.113	-0.320	-1.113	-0.320	-1.113
Refrigerator	0.216	0.833	0.216	0.833	0.216	0.833
Electricity	0.124	0.363	0.124	0.363	0.124	0.363
distance missing	0.179	0.476	0.179	0.476	0.179	0.476
Provider data missing	-1.520	-1.372	0.363	0.414	0.869	0.487
	0.946	1.019	-0.172	-0.220	--	--

No. of observations = 411

Note: Model also includes dummy variables for region (Faritany) and season.

**Annex 3 Table 8 – Madagascar: Boys under 15 Health Care Provider Choice  
Multinomial Logit Model Estimates**

Variable	Provider					
	Hospital		Basic Care		Private Formal Care	
	Coefficient	t- statistic	Coefficient	t- statistic	Coefficient	t- statistic
Intercept	-2.808	-1.492	-2.300	-1.695	-3.950	-1.971
Age	-0.067	-0.922	-0.110	-2.265	-0.080	-1.026
Head schooling	-0.013	-0.173	0.048	1.056	0.061	0.837
# children <5	0.106	0.327	-0.184	-0.900	-0.018	-0.053
# boys 5-14	-0.473	-1.615	-0.262	-1.564	-0.089	-0.338
# girls 5-14	0.155	0.562	0.022	0.138	0.218	0.784
# males 15+	0.406	1.449	0.081	0.492	0.645	3.044
# females 15+	0.044	0.117	0.277	1.196	-0.588	-1.379
log household expend.	0.189	0.447	0.303	0.941	0.506	0.992
Distance to provider	-0.027	-2.294	-0.027	-2.294	-0.027	-2.294
cost (francs Malagasy)	-0.054	-2.602	-0.054	-2.602	-0.054	-2.602
doctor present	0.404	1.785	0.404	1.785	0.404	1.785
Free malaria medicine	0.202	0.932	0.202	0.932	0.202	0.932
Free antibiotics	0.199	0.719	0.199	0.719	0.199	0.719
Free vaccines	-0.325	-1.329	-0.325	-1.329	-0.325	-1.329
Refrigerator	0.804	2.468	0.804	2.468	0.804	2.468
Electricity	-0.160	-0.406	-0.160	-0.406	-0.160	-0.406
distance missing	-1.624	-1.580	-0.467	-0.607	--	--
Provider data missing	1.233	1.463	0.027	0.041	--	--

No. of observations = 411

Note: Model also includes dummy variables for region (Faritany) and season.