

**Table 1:**  
**Description of Variables Used**

<b>Variable</b>	<b>Description</b>
DURAT <sub>i</sub>	Duration between child i and child i+1; i = 1, 2, 3
BLACK*	= 1 if the household is Black, 0 otherwise
COLOURED	= 1 if the household is Coloured, 0 otherwise
INDIAN	= 1 if the household is Indian, 0 otherwise
WHITE	= 1 if the household is White, 0 otherwise
AGEMOTH	Current Age of Mother
AGEPREV	Age of Mother at the time of previous birth
SEXPREV	= 1 if the previous child is a boy, 0 otherwise
TOTMAL	Total number of existing sons
DIFFSEX	= 1 if the previous children are of different sex, 0 otherwise
SAMESEX	= 1 if the previous children are of same sex, 0 otherwise
ATLEAST1B	= 1 if the previous children contains at least one boy, 0 otherwise
RURAL	= 1 if the mother lives in a rural area, 0 otherwise
INC1	= 1 if the household income is in the bottom third of the income distribution, 0 otherwise
INC2	= 1 if the household income is in the middle third of the income distribution, 0 otherwise
INC3*	= 1 if the household income is in the top third of the income distribution, 0 otherwise
EDUCM0*	= 1 if the mother has no education, 0 otherwise
EDUCM1	= 1 if the highest level of education attained by the mother is some primary school, 0 otherwise
EDUCM2	= 1 if the highest level of education attained by the mother is completed primary school, 0 otherwise
EDUCM3	= 1 if the highest level of education attained by the mother is completed secondary school, 0 otherwise
NOEDUC*	= 1 if the household head has no education, 0 otherwise
PRIMSCH	= 1 if the highest level of education attained by the household head is some primary school, 0 otherwise
PRIMPLUS	= 1 if the highest level of education attained by the household head is completed primary school, 0 otherwise
SECONDAR	= 1 if the highest level of education attained by the household head is completed secondary school, 0 otherwise
EMPLOY	= 1 if the woman is currently employed, 0 otherwise
EXTEND	= 1 if the woman lives in a joint (extended) family, 0 otherwise
N_FEM	Total number of adult females in the household
HHSIZE	Household size
IR2SEXPREV	SEXPREV⊗COLOURED
IR3SEXPREV	SEXPREV⊗INDIAN
IR4SEXPREV	SEXPREV⊗WHITE
IR2TOTMAL	TOTMAL⊗COLOURED
IR3TOTMAL	TOTMAL⊗INDIAN
IR4TOTMAL	TOTMAL⊗WHITE

IR2DIFFSEX	DIFFSEX⊗COLOURED
IR3DIFFSEX	DIFFSEX⊗INDIAN
IR4DIFFSEX	DIFFSEX⊗WHITE
IR2INC1	INC1⊗COLOURED
IR3INC1	INC1⊗INDIAN
IR4INC1	INC1⊗WHITE
IR2INC2	INC2⊗COLOURED
IR3INC2	INC2⊗INDIAN
IR4INC2	INC2⊗WHITE
ISEXPINC1	INC1⊗SEXPREV
ISEXPINC2	INC2⊗SEXPREV
ITOTMINC1	INC1⊗TOTMAL
ITOTMINC2	INC2⊗TOTMAL
IDIFFSINC1	INC1⊗DIFFSEX
IDIFFSINC2	INC2⊗DIFFSEX

**Notes:**

\* Reference Dummy

**Table 2**  
**Average Duration Between Children by Race and Sex of Children**

Number of Children	Sex of Existing Children	Black	Coloured	Indian	White
1	1 Daughter	53.81	46.57	35.74	38.52
	1 Son	53.15	47.47	47.23	39.34
	t-value for Difference in Duration	0.55	-0.33	-2.51*	-0.35
2	2 Daughters	48.37	43.38	41.68	44.4
	1 Son, 1 Daughter	44.64	51.79	49.54	48.76
	2 Sons	47.62	41.06	54.5	38.95
	Children of Different Sex	44.64	51.79	49.55	48.76
	Children of Same Sex	47.98	42.19	46.65	41.5
	t-value for Difference in Duration <sup>a</sup>	-2.68*	2.82*	0.64	1.70**
	No Boy	48.37	43.38	41.68	44.4
	At least one boy	45.69	47.67	51.71	44.1
	t-value for Difference in Duration <sup>b</sup>	1.84**	-1.1	-1.72**	0.07
3	3 Daughters	45.95	49.5	33.6	30
	1 Son, 2 Daughters	44.48	54.49	44	59
	2 Sons, 1 Daughter	43.73	47	39.27	43
	3 Sons	42.13	35.43	44	37.71
	Children of Different Sex	44.11	49.86	42	51
	Children of Same Sex	43.79	42.44	39.27	34.15
	t-value for Difference in Duration <sup>a</sup>	0.2	-1.3	0.37	1.71**
	No Boy	45.95	49.8	33.6	30
	At least one boy	43.77	47.29	42.38	48
t-value for Difference in Duration <sup>b</sup>	1.02	0.34	-0.65	-1.39	

**Notes**

a: Difference in Mean for SAMESEX = 1 and SAMESEX = 0. See definition of SAMESEX dummy in Table 1.

b: Difference in Mean for ATLEAST1B = 1 and ATLEAST1B = 0. See definition of ATLEAST1B dummy in Table 1.

\*: Significant using the 95% confidence interval

\*\* : Significant using the 90% confidence interval

**Table 3**  
**Proportion of Women who have another Child by Race and Sex of Children**

Number of Children	Sex of Existing Children	Black	Coloured	Indian	White
1	Parity Progression <sup>c</sup>	65.5	65.3	71.4	60.6
	1 Daughter	65.2	63.4	74	60.6
	1 Son	65.8	67.8	70.5	62.2
	t-value for Difference in Proportion	-0.472	-1.71**	0.722	-0.41
2	Parity Progression <sup>c</sup>	65	59.5	49.7	33.3
	2 Daughters	65.1	61.9	80.9	38.3
	1 Son, 1 Daughter	64.3	55.2	38.1	26.6
	2 Sons	67.9	67.2	42.9	39.6
	Children of Different Sex	64.2	54.3	36.9	26.4
	Children of Same Sex	65.8	64.7	60.2	39.5
	t-value for Difference in Proportion <sup>a</sup>	-1.132	-2.348*	-3.168*	-3.137*
	No Boy	64.51	61.9	80.85	38.46
	At least one boy	65.13	58.7	39.29	31.58
t-value for Difference in Proportion <sup>b</sup>	-0.37	0.63	4.93*	1.44	
3	Parity Progression <sup>c</sup>	62.5	46.9	39.8	21.8
	3 Daughters	59.8	52.6	31.3	25
	1 Son, 2 Daughters	65.5	37.8	39.5	22.6
	2 Sons, 1 Daughter	62.5	56	42.9	18.5
	3 Sons	65.7	45.7	50	28
	Children of Different Sex	62.7	46	40	20.2
	Children of Same Sex	61.8	47.7	39.3	25.5
	t-value for Difference in Proportion <sup>a</sup>	0.49	-0.26	0.06	-0.77
	No Boy	59.29	52.63	31.25	25
	At least one boy	62.92	46.09	41.56	21.23
t-value for Difference in Proportion <sup>b</sup>	-1.34	0.75	-0.77	0.41	

**Notes**

a: Difference in Proportion for SAMESEX = 1 and SAMESEX = 0. See definition of SAMESEX dummy in Table 1.

b: Difference in Proportion for ATLEAST1B = 1 and ATLEAST1B = 0. See definition of ATLEAST1B dummy in Table 1.

c: Parity Progression refers to the percentage who go on to the next level – in this case the percentage who have an additional child at each transition.

\*: Significant using the 95% confidence interval

\*\* : Significant using the 90% confidence interval

**Table 4:**  
**Accelerated Hazard Regression for Duration Between Successive Children**  
**Distribution: Gamma**

Variable	Transition 1 -> 2		Transition 2-> 3 <sup>a</sup>		Transition 3 -> 4 <sup>b</sup>	
	Estimate	Acceleration Factor	Estimate	Acceleration Factor	Estimate Std Err	Acceleration Factor
INTERCPT	1.30* (0.01)	3.68	1.31* (0.01)	3.69	1.29* (0.02)	3.63
COLOURED	-0.05* (0.01)	0.95	-0.04** (0.02)	0.96	0.05 (0.04)	1.05
INDIAN	-0.09* (0.02)	0.91	-0.05 (0.03)	0.95	0.02 (0.06)	1.02
WHITE	-0.06* (0.01)	0.94	0.00 (0.02)	1.00	0.02 (0.05)	1.02
SEXPREV	-0.01 (0.00)	0.99	0.00 (0.01)	1.00	0.00 (0.01)	1.00
IR2SEXPREV	0.01 (0.01)	1.01	-0.06* (0.03)	0.94	-0.01 (0.03)	0.99
IR3SEXPREV	0.06* (0.02)	1.06	0.10** (0.06)	1.10	0.02 (0.05)	1.02
IR4SEXPREV	0.01 (0.01)	1.01	0.00 (0.04)	1.00	0.01 (0.05)	1.01
TOTMAL			0.00 (0.01)	1.00	-0.01 (0.00)	0.99
IR2TOTMAL			0.02 (0.02)	1.03	-0.02 (0.02)	0.98
IR3TOTMAL			0.10* (0.03)	1.10	0.00 (0.03)	1.00
IR4TOTMAL			-0.01 (0.02)	0.99	0.01 (0.03)	1.01
DIFFSEX2			-0.01* (0.01)	0.99	0.00 (0.01)	1.00

IR2DIFFSEX			0.06*	1.06	0.02	1.02
			(0.02)		(0.03)	
IR3DIFFSEX			0.07**	1.07	-0.01	0.99
			(0.03)		(0.05)	
IR4DIFFSEX			0.07*	1.07	0.08**	1.08
			(0.02)		(0.04)	
AGEPREV	-2.21E-03*	1.00	1.03E-03*	1.00	3.48E-03*	1.00
	(0.00)		(0.00)		(0.00)	
AGEMOTH	3.54E-03*	1.00	1.30E-03*	1.00	4.18E-04*	1.00
	(0.00)		(0.00)		(0.00)	
RURAL	-0.02*	0.98	-0.04*	0.96	-0.03*	0.97
	(0.01)		(0.01)		(0.01)	
INC1	0.01**	1.01	0.00	1.00	0.02*	1.02
	(0.01)		(0.01)		(0.01)	
IR2INC1	0.00	1.00	0.02	1.02	-0.06	0.94
	(0.02)		(0.02)		(0.03)	
IR3INC1	0.01	1.01	0.02	1.02	0.00	1.00
	(0.03)		(0.04)		(0.06)	
IR4INC1	-0.01	0.99	0.06*	1.06	-0.13*	0.88
	(0.02)		(0.03)		(0.05)	
INC2	0.00	1.00	0.00	1.00	0.01	1.01
	(0.01)		(0.01)		(0.01)	
IR2INC2	0.01	1.01	-0.03	0.97	-0.07*	0.93
	(0.02)		(0.02)		(0.03)	
IR3INC2	0.04	1.04	-0.04	0.96	-0.08	0.92
	(0.04)		(0.05)		(0.06)	
IR4INC2	-0.03	0.97	0.02	1.02	0.01	1.01
	(0.03)		(0.05)		(0.09)	
SCALE ( $\kappa$ )	0.15		0.15		0.15	
	(0.00)		(0.00)		(0.00)	
SHAPE ( $\sigma$ )	0.62		0.61		0.64	
	(0.03)		(0.04)		(0.05)	
W(1)	142.27*		92.47*		49.54*	
W(0)	366.77*		231.38*		150.29*	
LR	78.69*		57.59*		28.46*	

Notes

a: Defined for women with number of children exceeding 2

b: Defined for women with number of children exceeding 3

Acceleration Factor Defined by  $e^{\beta}$

$W(0) \sim \chi^2(1)$

$W(1) \sim \chi^2(1)$

$LR \sim \chi^2(12)$

Figures in Parenthesis indicate Standard Errors

\*: Significant using the 95% confidence interval

\*\*: Significant using the 90% confidence interval

Regressions include a set of province dummies: the reference province is Transvaal

$IR2SEXPREV = SEXPREV \otimes COLOURED$ ;  $IR3SEXPREV = SEXPREV \otimes INDIAN$ ;  $IR2SEXPREV = SEXPREV \otimes WHITE$

$IR2TOTMAL = TOTMAL \otimes COLOURED$ ;  $IR3TOTMAL = TOTMAL \otimes INDIAN$ ;  $IR2TOTMAL = TOTMAL \otimes WHITE$

$IR2DIFFSEX = DIFFSEX \otimes COLOURED$ ;  $IR3DIFFSEX = DIFFSEX \otimes INDIAN$ ;  $IR2DIFFSEX = DIFFSEX \otimes WHITE$

$IR2INC1 = INC1 \otimes COLOURED$ ;  $IR3INC1 = INC1 \otimes INDIAN$ ;  $IR2INC1 = INC1 \otimes WHITE$

$IR2INC2 = INC2 \otimes COLOURED$ ;  $IR3INC2 = INC2 \otimes INDIAN$ ;  $IR2INC2 = INC2 \otimes WHITE$

**Table 5A:**  
**Accelerated Hazard Regression for Duration between Successive Children: By Race**  
**Transition 1 → 2**

Variable	Black		Coloured		Indian		White	
	Estimate	Acceleration Factor	Estimate	Acceleration Factor	Estimate	Acceleration Factor	Estimate	Acceleration Factor
	Distribution: Gamma		Distribution: Gamma		Distribution: Weibull		Distribution: Gamma	
INTERCPT	1.31* (0.01)	3.70	1.27* (0.04)	3.56	1.25* (0.07)	3.49	1.10* (0.04)	2.99
SEXPREV	-0.01 (0.00)	0.99	0.00 (0.01)	1.00	0.05* (0.02)	1.05	0.00 (0.01)	1.00
AGEPREV	-2.51E-03* (0.00)	1.00	0.00 (0.00)	1.00	-0.01** (0.00)	0.99	0.00 (0.00)	1.00
AGEMOTH	3.57E-03* (0.00)	1.00	2.13E-03* (0.00)	1.00	5.19E-03* (0.00)	1.01	4.41E-03* (0.00)	1.00
RURAL	-0.02* (0.01)	0.98	-0.02 (0.03)	0.98			0.00 (0.02)	1.00
INC1	0.01** (0.01)	1.01	0.01 (0.02)	1.01	4.01E-03 (0.03)	1.00	0.00 (0.01)	1.00
INC2	0.00 (0.01)	1.00	0.00 (0.02)	1.00	-0.03 (0.04)	0.97	-0.02 (0.03)	0.98
SCALE ( $\kappa$ )	0.15 (0.00)		0.14 (0.01)		0.14* (0.07)		0.15 (0.01)	
SHAPE ( $\sigma$ )	0.61 (0.04)		0.75 (0.11)				0.39 (0.10)	
W(1)	114.13*		4.98*				36.20*	
W(0)	284.78*		46.04*				15.01*	

**Notes:**

Acceleration Factor defined by  $e^{\beta}$

Figures in Parenthesis indicate Standard Errors

\*: Significant using the 95% confidence interval

\*\* : Significant using the 90% confidence interval

Regressions include a set of province dummies: the reference province is Transvaal



**Table 5B:**  
**Accelerated Hazard Regression for Duration between Successive Children: By Race**  
**Transition 2 → 3**

Variable	Black		Coloured		Indian		White	
	Estimate	Acceleration Factor	Estimate	Acceleration Factor	Estimate	Acceleration Factor	Estimate	Acceleration Factor
	Distribution: Gamma		Distribution: Gamma		Distribution: Weibull		Distribution: Gamma	
INTERCPT	1.31*	3.69	1.35*	3.87	1.32*	3.74	1.22*	3.39
	(0.01)		(0.05)		(0.09)		(0.06)	
SEXPREV	0.00	1.00	-0.05*	0.95	0.08**	1.08	0.00	1.00
	(0.01)		(0.02)		(0.05)		(0.03)	
TOTMAL	0.00	1.00	0.02**	1.02	0.08*	1.08	-0.02	0.99
	(0.01)		(0.01)		(0.03)		(0.02)	
DIFFSEX	-0.01*	0.99	0.04*	1.04	0.05	1.05	0.04*	1.04
	(0.01)		(0.01)		(0.03)		(0.02)	
AGEPREV	0.00	1.00	0.00	1.00	1.84E-03	1.00	0.01*	1.01
	(0.00)		(0.00)		(4.17E-03)		(0.00)	
AGEMOTH	1.33E-03*	1.00	2.24E-03*	1.00	5.90E-05	1.00	0.00	1.00
	(0.00)		(0.00)		(1.79E-03)		(0.00)	
RURAL	-0.04*	0.96	-0.04	0.96			-0.06*	0.94
	(0.01)		(0.03)				(0.03)	
INC1	0.00	1.00	0.01	1.01	-4.52E-03	1.00	0.05*	1.05
	(0.01)		(0.02)		(0.03)		(0.02)	
INC2	0.01	1.01	-0.01	0.99	6.91E-03	1.01	0.04	1.04
	(0.01)		(0.02)		(0.03)		(0.05)	
SCALE ( $\kappa$ )	0.16		0.11		0.12*		0.12	
	(0.00)		(0.01)		(0.01)		(0.01)	
SHAPE ( $\sigma$ )	0.57		1.41				0.72	
	(0.04)		(0.19)				(0.14)	
W(1)	114.13*		4.98*				36.20*	
W(0)	284.78*		46.04*				15.01*	

**Notes:**

Acceleration Factor defined by  $e^{\beta}$

Figures in Parenthesis indicate Standard Errors

\*: Significant using the 95% confidence interval

\*\*: Significant using the 90% confidence interval

Regressions include a set of province dummies: the reference province is Transvaal

**Table 5C:**  
**Accelerated Hazard Regression for Duration between Successive Children: By Race**  
**Transition 3 → 4**

Variable	Black		Coloured		Indian		White	
	Estimate	Acceleration Factor	Estimate	Acceleration Factor	Estimate	Acceleration Factor	Estimate	Acceleration Factor
	Distribution: Gamma		Distribution: Gamma		Distribution: Weibull		Distribution: Gamma	
INTERCPT	1.30* (0.02)	3.66	1.28* (0.07)	3.59	1.08* (0.16)	2.94	1.09* (0.07)	2.96
SEXPREV	0.00 (0.01)	1.00	-0.01 (0.03)	0.99	0.09** (0.05)	1.09	0.03 (0.04)	1.04
TOTMAL	-0.01 (0.00)	0.99	-0.02 (0.01)	0.98	-0.04 (0.03)	0.96	0.01 (0.01)	1.01
DIFFSEX	0.00 (0.01)	1.00	0.02 (0.02)	1.02	0.01 (0.05)	1.01	0.12* (0.02)	1.13
AGEPREV	3.00E-03* (0.00)	1.00	0.01* (0.00)	1.01	0.02* (0.01)	1.02	0.01* (0.00)	1.01
AGEMOTH	0.00 (0.00)	1.00	0.00 (0.00)	1.00	-1.91E-03 (3.41E-03)	1.00	0.00 (0.00)	1.00
RURAL	-0.04* (0.01)	0.96	0.00 (0.05)	1.00			-0.10* (0.03)	0.90
INC1	0.02* (0.01)	1.02	-0.04** (0.03)	0.96	-0.06 (0.05)	0.94	-0.11* (0.04)	0.90
INC2	0.01 (0.01)	1.01	-0.07* (0.03)	0.93	-0.01 (0.05)	0.99	-0.02 (0.04)	0.98
SCALE ( $\kappa$ )	0.15 (0.00)		0.13 (0.01)		0.12 (0.01)		0.01 (0.01)	
SHAPE ( $\sigma$ )	0.65 (0.06)		0.46 (0.20)				9.37 (5.29)	
W(1)	39.93*		7.59*				2.50*	
W(0)	135.39*		5.57*				3.14*	

**Notes:**

Acceleration Factor defined by  $e^{\beta}$

Figures in Parenthesis indicate Standard Errors

\*: Significant using the 95% confidence interval

\*\*: Significant using the 90% confidence interval

Regressions include a set of province dummies: the reference province is Transvaal

**Table 6:**  
**Accelerated Hazard Regression for Duration between Successive Children**  
**Indian Households Only**  
**Distribution Used: Weibull**

Variable	Transition 1 → 2		Transition 2 → 3		Transition 3 → 4	
	Estimate	Acceleration Factor	Estimate	Acceleration Factor	Estimate	Acceleration Factor
INTERCPT	1.25* (0.07)	3.49	1.32* (0.09)	3.74	1.08* (0.16)	2.94
SEXPREV	0.05* (0.02)	1.05	0.08** (0.05)	1.08	0.09** (0.05)	1.09
TOTMAL			0.08* (0.03)	1.08	-0.04 (0.03)	0.96
DIFFSEX			0.05 (0.03)	1.05	0.01 (0.05)	1.01
AGEPREV	-0.01** (0.00)	0.99	1.84E-03 (4.17E-03)	1.00	0.02* (0.01)	1.02
AGEMOTH	5.19E-03* (0.00)	1.01	5.90E-05 (1.79E-03)	1.00	-1.91E-03 (3.41E-03)	1.00
INC1	4.01E-03 (0.03)	1.00	-4.52E-03 (0.03)	1.00	-0.06 (0.05)	0.94
INC2	-0.03 (0.04)	0.97	6.91E-03 (0.03)	1.01	-0.01 (0.05)	0.99
SCALE ( $\kappa$ )	0.14* (0.07)		0.12* (0.01)		0.12 (0.01)	

**Notes:**

Acceleration Factor defined by  $e^{\beta}$

Figures in Parenthesis indicate Standard Errors

\*: Significant using the 95% confidence interval

\*\* : Significant using the 90% confidence interval

Regressions include a set of province dummies: the reference province is Transvaal

**Table 7:  
Robustness – Duration Between Births  
Indian Households Only**

	<b>Transition 1 -&gt; 2</b>			<b>Transition 2 -&gt; 3<sup>a</sup></b>			<b>Transition 3 -&gt; 4<sup>b</sup></b>		
SEXPREV	0.07** (1.88)	0.05* (2.37)	0.05* (2.57)	0.04 (0.57)	0.08** (1.78)	0.08** (1.74)	0.15 (1.46)	1.57* (2.41)	0.18* (2.56)
TOTMAL				0.01 (0.24)	0.08* (2.59)	0.08** (2.78)	-0.11** (-1.91)	-0.05 (-1.17)	-0.05 (-1.25)
DIFFSEX				0.04 (0.97)	0.05** (1.81)	0.04 (1.51)	0.14** (1.86)	-0.08 (-1.16)	-2.98E-03 (-0.05)
<b>Interaction Effects</b>									
IEXPINC1	-0.05 (-0.94)			-0.06 (-0.52)			0.09 (0.71)		
IEXPINC2	-1.19E-03 (-0.02)			-0.09 (-0.75)			-0.17 (-1.25)		
ITOTMINC1				0.07 (1.01)			0.05 (0.71)		
ITOTMINC2				0.12** (1.75)			0.10 (1.16)		
IDIFFSINC1				-0.02 (-0.07)			-0.14 (-1.38)		
IDIFFSINC2				0.05 (0.70)			-0.25** (-1.66)		
<b>Mother's Education</b>									
EDUCM1		0.04 (0.88)			0.07 (1.20)			0.11 (0.89)	
EDUCM2		4.10E-04 (0.01)			0.04 (0.66)			0.22** (1.67)	
EDUCM3		-2.51E-03 (-0.06)			0.05 (0.92)			0.11 (0.83)	
<b>Household Head's</b>									
<b>Education</b> PRIMSCH			0.03 (0.42)			0.06 (0.75)			0.27 (1.35)

PRIMPLUS	-0.01 (-0.22)	0.08 (1.08)	0.26 (1.39)
SECONDAR	0.03 (0.55)	0.09 (1.14)	0.15 (0.77)

**Notes:**

Figures in Parenthesis indicate t-ratios

a: Defined for women with number of children exceeding 2

b: Defined for women with number of children exceeding 3

\*: Significant using the 95% confidence interval

\*\*: Significant using the 90% confidence interval

Regressions include a set of province dummies: the reference province is Transvaal

ISEXPINC1 = INC1⊗SEXPREV; ISEXPINC2 = INC2⊗SEXPREV;

ITOTMINC1 = INC1⊗TOTMAL; ITOTMINC2 = INC2⊗TOTMAL;

IDIFFSINC1 = INC1⊗DIFFSEX; IDIFFSINC2 = INC2⊗DIFFSEX;