Evaluating Early Childhood Policies: An Estimable Model of Family Child Investments Online Appendix

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1 Factor Loadings

Table 1: Estimates: Measurement system -Pareto weight

Parameter	Estimate	Standard Error
$MS1_{BARG}$	-0.2155	0.0667
$SDS1_{BARG}$	0.6144	0.0141
$MS2_{BARG}$	0.0875	0.0684
$SDS2_{BARG}$	0.6301	0.0145
$MS3_{BARG}$	-0.0703	0.0694
$SDS3_{BARG}$	0.6395	0.0151
$MS4_{BARG}$	0.0155	0.0668
$SDS4_{BARG}$	0.6151	0.0141
$MS5_{BARG}$	0.1219	0.0694
$SDS5_{BARG}$	0.6395	0.0147
$MS6_{BARG}$	-0.1325	0.0675
$SDS6_{BARG}$	0.6223	0.0142
$MS7_{BARG}$	0.1015	0.0657
$SDS7_{BARG}$	0.6056	0.0139
$MS8_{BARG}$	-0.0151	0.0672
$SDS8_{BARG}$	0.6191	0.0142
$MS9_{BARG}$	0.0941	0.0685
$SDS9_{BARG}$	0.6307	0.0145
$MS10_{BARG}$	-0.0283	0.0671
$SDS10_{BARG}$	0.6180	0.0144
$MS11_{BARG}$	0.0166	0.0040
$SDS11_{BARG}$	0.0292	0.0059
$MS12_{BARG}$	0.0445	0.0020
$SDS12_{BARG}$	0.0117	0.0005
$MS13_{BARG}$	0.6507	0.0889
$SDS13_{BARG}$	0.6429	0.0879
$MS14_{BARG}$	-0.5486	0.0546
$SDS14_{BARG}$	0.5027	0.0116
$MS15_{BARG}$	0.2877	0.0230
$SDS15_{BARG}$	0.1605	0.0128
$MS16_{BARG}$	-0.7954	0.0907
$SDS16_{BARG}$	0.6504	0.0744
$MS17_{BARG}$	1.0000	0.0416
$SDS17_{BARG}$	0.1868	0.0078
$MS18_{BARG}$	0.6205	0.0376
$SDS18_{BARG}$	0.0725	0.0044

Table 2: Estimates: Measurement system -Parental effort 2010

Parameter	Estimate	Standard Error
$MS1_{EF,10}$	0.368	0.084
$SDS1_{EF,10}$	1.101	0.081
$MS2_{EF,10}$	0.280	0.008
$SDS2_{EF,10}$	0.887	0.058
$MS3_{EF,10}$	0.212	0.049
$SDS3_{EF,10}$	0.325	0.181
$MS4_{EF,10}$	0.280	0.091
$SDS4_{EF,10}$	0.917	0.003
$MS5_{EF,10}$	0.299	0.045
$SDS5_{EF,10}$	0.391	0.026
$MS6_{EF,10}$	1.000	0.000
$SDS6_{EF,10}$	0.962	0.109

Table 3: Estimates: Measurement system -Pareto weight

Parameter	Estimate	Standard Error
$MS1_{BARG}$	-0.2155	0.0667
$SDS1_{BARG}$	0.6144	0.0141
$MS2_{BARG}$	0.0875	0.0684
$SDS2_{BARG}$	0.6301	0.0145
$MS3_{BARG}$	-0.0703	0.0694
$SDS3_{BARG}$	0.6395	0.0151
$MS4_{BARG}$	0.0155	0.0668
$SDS4_{BARG}$	0.6151	0.0141
$MS5_{BARG}$	0.1219	0.0694
$SDS5_{BARG}$	0.6395	0.0147
$MS6_{BARG}$	-0.1325	0.0675
$SDS6_{BARG}$	0.6223	0.0142
$MS7_{BARG}$	0.1015	0.0657
$SDS7_{BARG}$	0.6056	0.0139
$MS8_{BARG}$	-0.0151	0.0672
$SDS8_{BARG}$	0.6191	0.0142
$MS9_{BARG}$	0.0941	0.0685
$SDS9_{BARG}$	0.6307	0.0145
$MS10_{BARG}$	-0.0283	0.0671
$SDS10_{BARG}$	0.6180	0.0144
$MS11_{BARG}$	0.0166	0.0040
$SDS11_{BARG}$	0.0292	0.0059
$MS12_{BARG}$	0.0445	0.0020
$SDS12_{BARG}$	0.0117	0.0005
$MS13_{BARG}$	0.6507	0.0889
$SDS13_{BARG}$	0.6429	0.0879
$MS14_{BARG}$	-0.5486	0.0546
$SDS14_{BARG}$	0.5027	0.0116
$MS15_{BARG}$	0.2877	0.0230
$SDS15_{BARG}$	0.1605	0.0128
$MS16_{BARG}$	-0.7954	0.0907
$SDS16_{BARG}$	0.6504	0.0744
$MS17_{BARG}$	1.0000	0.0416
$SDS17_{BARG}$	0.1868	0.0078
$MS18_{BARG}$	0.6205	0.0376
$SDS18_{BARG}$	0.0725	0.0044

Table 4: Estimates: Measurement system -Investments 2010

Parameter	Estimate	Standard Error
$MS1_{INV,10}$	0.123	0.020
$SDS1_{INV,10}$	0.176	0.181
$MS2_{INV,10}$	1.000	0.000
$SDS2_{INV,10}$	2.241	1.349
$MS3_{INV,10}$	0.383	0.211
$SDS3_{INV,10}$	0.617	0.373
$MS4_{INV,10}$	0.334	0.247
$SDS4_{INV,10}$	0.404	0.316
$MS5_{INV,10}$	0.047	0.043
$SDS5_{INV,10}$	0.052	0.089
$MS6_{INV,10}$	0.041	0.002
$SDS6_{INV,10}$	0.171	0.162
$MS7_{INV,10}$	0.115	0.096
$SDS7_{INV,10}$	0.242	0.181
$MS8_{INV,10}$	0.074	0.062
$SDS8_{INV,10}$	0.259	0.175

Table 5: Estimates: Measurement system -Investments 2012

Parameter	Estimate	Standard Error
$MS1_{INV,12}$	0.016	0.088
$SDS1_{INV,12}$	1.063	0.072
$MS2_{INV,12}$	0.032	0.056
$SDS2_{INV,12}$	1.139	0.004
$MS3_{INV,12}$	0.003	0.006
$SDS3_{INV,12}$	1.095	0.027
$MS4_{INV,12}$	0.037	0.089
$SDS4_{INV,12}$	1.136	0.130
$MS5_{INV,12}$	0.041	0.108
$SDS5_{INV,12}$	1.182	0.117
$MS6_{INV,12}$	0.088	0.007
$SDS6_{INV,12}$	1.123	0.185
$MS7_{INV,12}$	0.002	0.040
$SDS7_{INV,12}$	1.195	0.179
$MS8_{INV,12}$	0.043	0.025
$SDS8_{INV,12}$	0.639	0.111
$MS9_{INV,12}$	0.024	0.006
$SDS9_{INV,12}$	0.995	0.118
$MS10_{INV,12}$	0.035	0.035
$SDS10_{INV,12}$	1.141	0.156
$MS11_{INV,12}$	0.048	0.001
$SDS11_{INV,12}$	1.230	0.078
$MS12_{INV,12}$	0.297	0.015
$SDS12_{INV,12}$	0.614	0.001
$MS13_{INV,12}$	0.530	0.065
$SDS13_{INV,12}$	1.426	0.203
$MS14_{INV,12}$	0.304	0.077
$SDS14_{INV,12}$	0.864	0.137
$MS15_{INV,12}$	477.340	46.683
$SDS15_{INV,12}$	0.000	0.007
$MS16_{INV,12}$	518.166	50.577
$SDS16_{INV,12}$	0.000	0.013
$MS17_{INV,12}$	0.061	0.042
$SDS17_{INV,12}$	0.151	0.038
$MS18_{INV,12}$	0.474	0.080
$SDS18_{INV,12}$	1.805	0.193
$MS19_{INV,12}$	1.000	0.000
$SDS19_{INV,12}$	5.642	0.570
$MS20_{INV,12}$	-0.100	0.064
$SDS20_{INV,12}$	1.287	0.144
$MS21_{INV,12}$	-0.090	0.037
$SDS21_{INV,12}$	1.139	0.088

Table 6: Estimates: Measurement system -Skills in 2010

Parameter	Estimate	Standard Error
$MS_{1,10}$	0.1679	0.0002
$SDS_{1,10}$	2.5059	0.0040
$MS_{2,10}$	0.1305	0.0003
$SDS_{2,10}$	2.4928	0.0027
$MS_{3,10}$	0.1117	0.0002
$SDS_{3,10}$	2.4283	0.0019
$MS_{4,10}$	-0.6097	0.0008
$SDS_{4,10}$	2.0847	0.0022
$MS_{5,10}$	-0.5080	0.0003
$SDS_{5,10}$	2.2865	0.0014
$MS_{6,10}$	-0.3238	0.0002
$SDS_{6,10}$	2.6349	0.0019
$MS_{7,10}$	-0.4028	0.0003
$SDS_{7,10}$	2.4463	0.0011
$MS_{8,10}$	-0.3325	0.0002
$SDS_{8,10}$	2.2173	0.0020
MS_{9_10}	-0.5363	0.0003
SDS_{9_10}	2.2473	0.0012
MS_{10_10}	-1.0000	0.0000
SDS_{10_10}	0.0010	0.0000

Table 7: Estimates: Measurement system -Skills in 2012

Parameter	Estimate	Standard Error
MS_{1_12}	1.000	0.000
SDS_{1_12}	2.754	0.010
MS_{2_12}	0.951	0.048
SDS_{2_12}	3.102	0.083
MS_{3_12}	1.097	0.012
SDS_{3_12}	2.943	0.032
MS_{4_12}	1.059	0.033
SDS_{4_12}	3.192	0.106
MS_{5_12}	0.990	0.012
SDS_{5_12}	3.533	0.134
MS_{6_12}	1.086	0.019
SDS_{6_12}	2.292	0.039
MS_{7_12}	1.102	0.012
SDS_{7_12}	2.794	0.041
MS_{8_12}	1.131	0.036
SDS_{8_12}	2.595	0.112
MS_{9_12}	0.977	0.100
SDS_{9_12}	3.055	0.005
MS_{10_12}	1.244	0.036
SDS_{10_12}	0.003	0.016
MS_{11_12}	1.116	0.002
SDS_{11_12}	4.810	0.084

Table 8: Estimates: Measurement system -Skills at birth

Parameter	Estimate	Standard Error
$MS1_{BIRTH}$	-0.494	0.245
$SDS1_{BIRTH}$	0.076	0.072
$MS2_{BIRTH}$	-0.395	0.292
$SDS2_{BIRTH}$	0.055	0.076
$MS3_{BIRTH}$	-0.262	0.179
$SDS3_{BIRTH}$	0.066	0.016
$MS4_{BIRTH}$	-0.635	0.291
$SDS4_{BIRTH}$	0.108	0.033
$MS5_{BIRTH}$	-0.141	0.042
$SDS5_{BIRTH}$	0.030	0.018
$MS6_{BIRTH}$	-0.552	0.321
$SDS6_{BIRTH}$	0.098	0.024
$MS7_{BIRTH}$	-0.095	0.052
$SDS7_{BIRTH}$	0.021	0.057
$MS8_{BIRTH}$	-0.368	0.226
$SDS8_{BIRTH}$	0.084	0.093
$MS9_{BIRTH}$	-0.354	0.210
$SDS9_{BIRTH}$	0.038	0.044
$MS10_{BIRTH}$	-3.084	1.779
$SDS10_{BIRTH}$	0.634	0.451
$MS11_{BIRTH}$	-0.059	0.044
$SDS11_{BIRTH}$	0.007	0.051
$MS12_{BIRTH}$	-0.171	0.070
$SDS12_{BIRTH}$	0.023	0.010
$MS13_{BIRTH}$	-1.000	0.000
$SDS13_{BIRTH}$	0.095	0.088
$MS14_{BIRTH}$	-0.712	0.515
$SDS14_{BIRTH}$	0.077	0.056
$MS15_{BIRTH}$	-0.125	0.084
$SDS15_{BIRTH}$	0.016	0.066
$MS16_{BIRTH}$	-0.115	0.029
$SDS16_{BIRTH}$	0.014	0.032
$MS17_{BIRTH}$	-0.107	0.045
$SDS17_{BIRTH}$	0.000	0.091
$MS18_{BIRTH}$	-0.125	0.062
$SDS18_{BIRTH}$	0.000	0.007
$MS19_{BIRTH}$	-0.186	0.108
$SDS19_{BIRTH}$	0.000	0.061
$MS20_{BIRTH}$	-0.059	0.098
$SDS20_{BIRTH}$	0.000	0.003
$MS21_{BIRTH}$	-0.417	0.330
$SDS21_{BIRTH}$	0.078	0.088
$MS22_{BIRTH}$	0.080	0.037
$SDS22_{BIRTH}$	0.200	0.168
$MS23_{BIRTH}$	0.027	0.017
$SDS23_{BIRTH}$	0.204	0.119

Table 9: Estimates: Measurement system -Skills in 2010

Parameter	Estimate	Standard Error
$MS_{1,10}$	0.1679	0.0002
$SDS_{1,10}$	2.5059	0.0040
$MS_{2,10}$	0.1305	0.0003
$SDS_{2,10}$	2.4928	0.0027
$MS_{3,10}$	0.1117	0.0002
$SDS_{3,10}$	2.4283	0.0019
$MS_{4,10}$	-0.6097	0.0008
$SDS_{4,10}$	2.0847	0.0022
$MS_{5,10}$	-0.5080	0.0003
$SDS_{5,10}$	2.2865	0.0014
$MS_{6,10}$	-0.3238	0.0002
$SDS_{6,10}$	2.6349	0.0019
$MS_{7,10}$	-0.4028	0.0003
$SDS_{7,10}$	2.4463	0.0011
$MS_{8,10}$	-0.3325	0.0002
$SDS_{8,10}$	2.2173	0.0020
MS_{9_10}	-0.5363	0.0003
SDS_{9_10}	2.2473	0.0012
MS_{10_10}	-1.0000	0.0000
SDS_{10_10}	0.0010	0.0000

2 Preliminary Evidence with Selected Sample

Table 10: Father's opinion on gender roles

Item	Number	Per cent
Women should only spend time taking care of chidlren	282	30
Women should take care of children and work if there is remaining time	611	64
Women should work full time	52	5
Men take care better of children than women	5	1
Total	950	100

Table 11: Summary statistics-Measures of bargaining power

Variable	Mean	(Std. Dev.)
A woman in charge of chores should not work	2.62	(0.82)
Both parents should contribute equally to household income	1.76	(0.62)
It is better if the man goes to work and the woman stays at home	2.52	(0.82)
Men should be more involved in household chores	1.75	(0.66)
If husband earned enough there is no reason for woman to work	2.19	(0.88)
It is better if woman has children after having a succesful carreer	2.36	(0.81)
It is very important for a woman to have a job	1.81	(0.66)
Having a job is the best way for a woman to achieve independence	1.79	(0.66)
Father's time is as important as mother's time for children	1.49	(0.61)
It is better to have a bad marriage than being single	3.3	(0.73)
N	950	

All questions are answered by the mother of the child. The possible answers are 1: strongly agrees; 2: agrees; 3: disagrees; 4: strongly disagrees.

Table 12: Summary statistics-Variables determining Pareto weight

Variable	Mean	(Std. Dev.)
Father's non-labor income share	0.28	(0.35)
Age difference (Father-Mother)	2.89	(5.19)
Difference in grades attained (Father-Mother)	-0.55	(2.84)
Sex ratio in city (Women/Men)	1	(0.07)
Unemployment ratio in region (Men/Women)	0.67	(0.11)
Wage ratio in region (Men/Women)	1.21	(0.07)
N	950	

The ratio of wages offered is not reported in these table as is the results of the parameters estimated in the model. The share of father's non-labor income, as well as the age difference and the differences in grades attained are all obtained from the ECLS dataset. The sex ratio in the city is computed using information from the CENSUS dataset. The last CENSUS available for Chile is from 2002. I use information about female-male ratio based on the population projections from the National Institute of Statistics fro Chile.

Table 13: Time investments and labor supply (2010)

VARIABLES	(1) Mother's effort (2010)	(2) Mother's effort (2010)	(3) Father's effort (2010)	(4) Father's effort (2010)
Mother works	-0.46	-0.71**	0.52	0.31
	(0.29)	(0.33)	(0.33)	(0.37)
Father works	1.50***	1.44***	-0.26	-0.06
	(0.46)	(0.49)	(0.49)	(0.54)
Total household income ($1,000 CLP)	0.00	0.01	0.09***	0.10***
	(0.03)	(0.03)	(0.03)	(0.03)
Age of child (months)	0.04**	0.03	-0.01	-0.02
	(0.02)	(0.02)	(0.02)	(0.02)
BFI-Kindness	0.04	0.08	0.01	0.01
	(0.15)	(0.17)	(0.17)	(0.19)
BFI-Openness	0.25*	0.15	-0.03	-0.23
	(0.14)	(0.16)	(0.15)	(0.17)
BFI-Extraversion	0.36**	0.39**	0.34**	0.48***
	(0.15)	(0.17)	(0.16)	(0.18)
BFI-Neuroticism	-0.45***	-0.31*	-0.23	-0.22
	(0.15)	(0.18)	(0.16)	(0.18)
BFI-Responsibility	-0.03	0.08	0.20	0.27
	(0.15)	(0.16)	(0.16)	(0.19)
Wais-digits	0.18	0.23	0.24	0.10
	(0.14)	(0.15)	(0.17)	(0.19)
Wais-Vocabulary	-0.12	-0.13	-0.34*	-0.30
	(0.16)	(0.17)	(0.18)	(0.20)
Number of siblings	-0.72***	-0.88***	-0.32*	-0.54***
	(0.16)	(0.19)	(0.19)	(0.20)
PSI-P Total		-0.12		-0.22
		(0.16)		(0.17)
Observations	950	759	950	759
Adjusted R-squared	0.07	0.07	0.03	0.04

Robust standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

The measure of effort is constructed via Principal component analysis, extracting one factor for the variables used as measures of time investments by parents. The measures of parental effort, altogether with the BFI, Wais and PSI test scores are all standardized to have mean zero and one standard deviation.

Table 14: Time investments and labor supply (2012)

VARIABLES	(1) Mother's effort (2012)	(2) Mother's effort (2012)	(3) Father's effort (2012)	(4) Father's effort (2012)
Mother works	-0.11	-0.12	0.27***	0.26**
	(0.13)	(0.15)	(0.11)	(0.12)
Father works	0.12	0.09	-0.07	-0.27
	(0.21)	(0.24)	(0.17)	(0.21)
Total household income ($1,000 CLP)	-0.02	-0.03	0.01	-0.00
	(0.02)	(0.02)	(0.02)	(0.02)
Age of child (months)	-0.02***	-0.02**	-0.01**	-0.01**
	(0.01)	(0.01)	(0.01)	(0.01)
BFI-Kindness	0.04	0.05	-0.00	-0.01
	(0.07)	(0.08)	(0.05)	(0.05)
BFI-Openness	0.16**	0.19***	0.02	0.06
	(0.07)	(0.07)	(0.05)	(0.05)
BFI-Extraversion	-0.02	-0.07	-0.04	-0.09
	(0.07)	(0.09)	(0.06)	(0.07)
BFI-Neuroticism	-0.09	-0.05	-0.07	-0.05
	(0.07)	(0.08)	(0.05)	(0.06)
BFI-Responsibility	0.06	0.08	0.11**	0.10*
	(0.07)	(0.08)	(0.05)	(0.06)
Wais-digits	0.16**	0.17**	0.07	0.06
	(0.07)	(0.08)	(0.05)	(0.05)
Wais-Vocabulary	0.11	0.11	0.08	0.10
	(0.07)	(0.08)	(0.07)	(0.07)
Number of siblings	-0.08	-0.12	-0.12**	-0.16**
	(0.08)	(0.09)	(0.06)	(0.06)
PSI-P Total		-0.17**		-0.11*
		(0.08)		(0.06)
Observations	950	759	950	759
Adjusted R-squared	0.04	0.05	0.04	0.04

Robust standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

The measure of effort is constructed via Principal component analysis, extracting one factor for the variables used as measures of time investments by parents. The measures of parental effort, altogether with the BFI, Wais and PSI test scores are all standardized to have mean zero and one standard deviation.

Table 15: Child outcomes in 2010 and share of income earned by women

VARIABLES	(1) TEPSI language test	(2) Emotional reactions (CBCL 1)+	(3) Aggresive behavior (CBCL 7)+
Mother's income share	0.31**	-0.25*	-0.24*
	(0.15)	(0.14)	(0.13)
Total household income	0.00	0.00	0.00
	(0.00)	(0.00)	(0.00)
Mother's years of schooling	0.03**	-0.02	0.01
	(0.01)	(0.02)	(0.01)
Father's years of schooling	0.01	-0.03**	-0.05***
	(0.01)	(0.01)	(0.01)
Childcare	0.29***	0.10	0.07
	(0.08)	(0.07)	(0.07)
Number of siblings	-0.01	-0.06*	-0.07**
	(0.03)	(0.03)	(0.03)
Age of child (months)	0.01***	0.00	-0.00
	(0.00)	(0.00)	(0.00)
BFI-Kindness	0.05	-0.04	-0.07**
	(0.04)	(0.04)	(0.04)
BFI-Openness	0.00	-0.03	-0.05
	(0.04)	(0.03)	(0.03)
BFI-Extraversion	0.04	-0.07**	-0.00
	(0.04)	(0.03)	(0.04)
BFI-Neuroticism	0.03	0.23***	0.27***
	(0.03)	(0.04)	(0.03)
BFI-Responsibility	-0.00	0.04	-0.06*
	(0.04)	(0.03)	(0.04)
Wais-digits	0.11***	-0.04	-0.08**
	(0.03)	(0.03)	(0.03)
Wais-Vocabulary	0.09**	-0.13***	0.02
	(0.04)	(0.03)	(0.04)
Observations	950	950	950
Adjusted R-squared	0.13	0.17	0.15

Robust standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

Table 16: Child outcomes in 2012 and share of income earned by women

VARIABLES	(1) Motor skills 2 (B3)	(2) Cognitive test (B5)	(3) Batelle Total
Mother's income share	0.44***	0.28**	0.34**
	(0.15)	(0.14)	(0.15)
Total household income	-0.01	0.01	0.01
	(0.01)	(0.01)	(0.01)
Mother's years of schooling	0.01	0.01	0.02
	(0.02)	(0.02)	(0.01)
Father's years of schooling	0.01	0.03**	0.03**
	(0.01)	(0.01)	(0.01)
Number of siblings	0.03	0.04	0.05
	(0.04)	(0.04)	(0.04)
Age of child (months)	0.00	0.00	0.01*
	(0.00)	(0.00)	(0.00)
BFI-Kindness	0.05	0.13***	0.07*
	(0.04)	(0.04)	(0.04)
BFI-Openness	0.06	0.04	0.07**
	(0.04)	(0.03)	(0.04)
BFI-Extraversion	-0.00	0.03	-0.01
	(0.04)	(0.04)	(0.04)
BFI-Neuroticism	0.04	-0.02	0.03
	(0.04)	(0.04)	(0.03)
BFI-Responsibility	0.04	-0.04	-0.04
	(0.04)	(0.03)	(0.03)
Wais-digits	0.05	0.08**	0.10***
	(0.04)	(0.03)	(0.03)
Wais-Vocabulary	0.04	-0.01	0.04
	(0.04)	(0.04)	(0.04)
Observations	950	950	950
Adjusted R-squared	0.03	0.05	0.08

Robust standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

Additional controlsi include age of child, race, age of both parents, test scores of primary caregiver and number of siblings. +: lower scores indicate lower incidence of behavioral problems.

Table 17: Female empowerment and Child outcomes

VARIABLES	(1) Toys for development	(2) Fruits and vegetables	(3) Bread	(4) Cookies and candies	(5) People sharing bedroom with child
Total household income ($1,000 CLP)	0.00	-0.00	0.00	0.00	-0.05***
	(0.00)	(0.01)	(0.01)	(0.01)	(0.01)
Mother's years of schooling	0.01*	0.05***	0.02	0.00	-0.03**
	(0.01)	(0.02)	(0.02)	(0.01)	(0.01)
Father's years of schooling	0.01	-0.02	-0.00	0.00	0.01
	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)
Number of siblings	0.02	-0.08*	-0.01	-0.12***	0.07*
	(0.02)	(0.05)	(0.04)	(0.04)	(0.04)
People in household	-0.03**	0.07**	0.01	0.10***	0.19***
	(0.02)	(0.03)	(0.03)	(0.03)	(0.03)
Woman administers+	0.09***	0.13**	-0.14**	0.20***	-0.07
	(0.03)	(0.07)	(0.06)	(0.06)	(0.06)
Gender roles -Woman++	-0.00	-0.05	-0.02	-0.06	0.08**
	(0.02)	(0.04)	(0.04)	(0.04)	(0.04)
Gender roles - Man++	-0.02	-0.01	-0.08	-0.06	-0.00
	(0.04)	(0.08)	(0.07)	(0.07)	(0.07)
Observations	950	950	950	950	950
Adjusted R-squared	0.03	0.04	0.01	0.02	0.19

Robust standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1

Consumption of bread, fruits and vegetables and cookies and candies is related to the frequency of consumption of this food on a weekly basis. More details can be found in Table **??**. + dummy variable indicating whether the mother is the person in charge of administering the resources of the household (1) or no (0). ++ opinion of gender roles according to the man and the woman. A value of one indicates that the person agrees with the sentence "Women should not work and should only take care of children".

3 Signal to Noise Ratio

Figure 1: Signal to noise ratio. Mother's effort (2012)

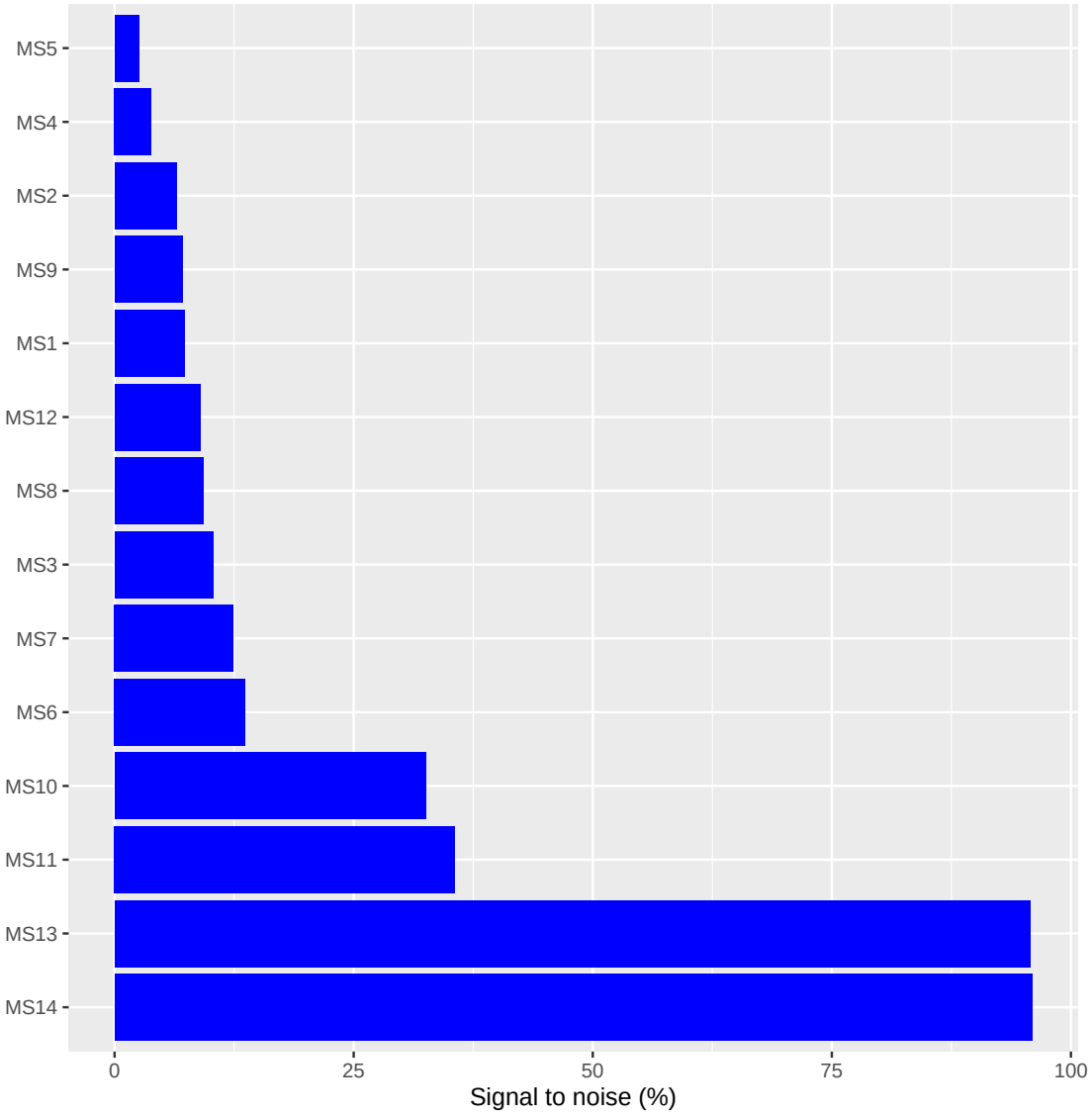

Figure 2: Signal to noise ratio. Father's effort (2012)

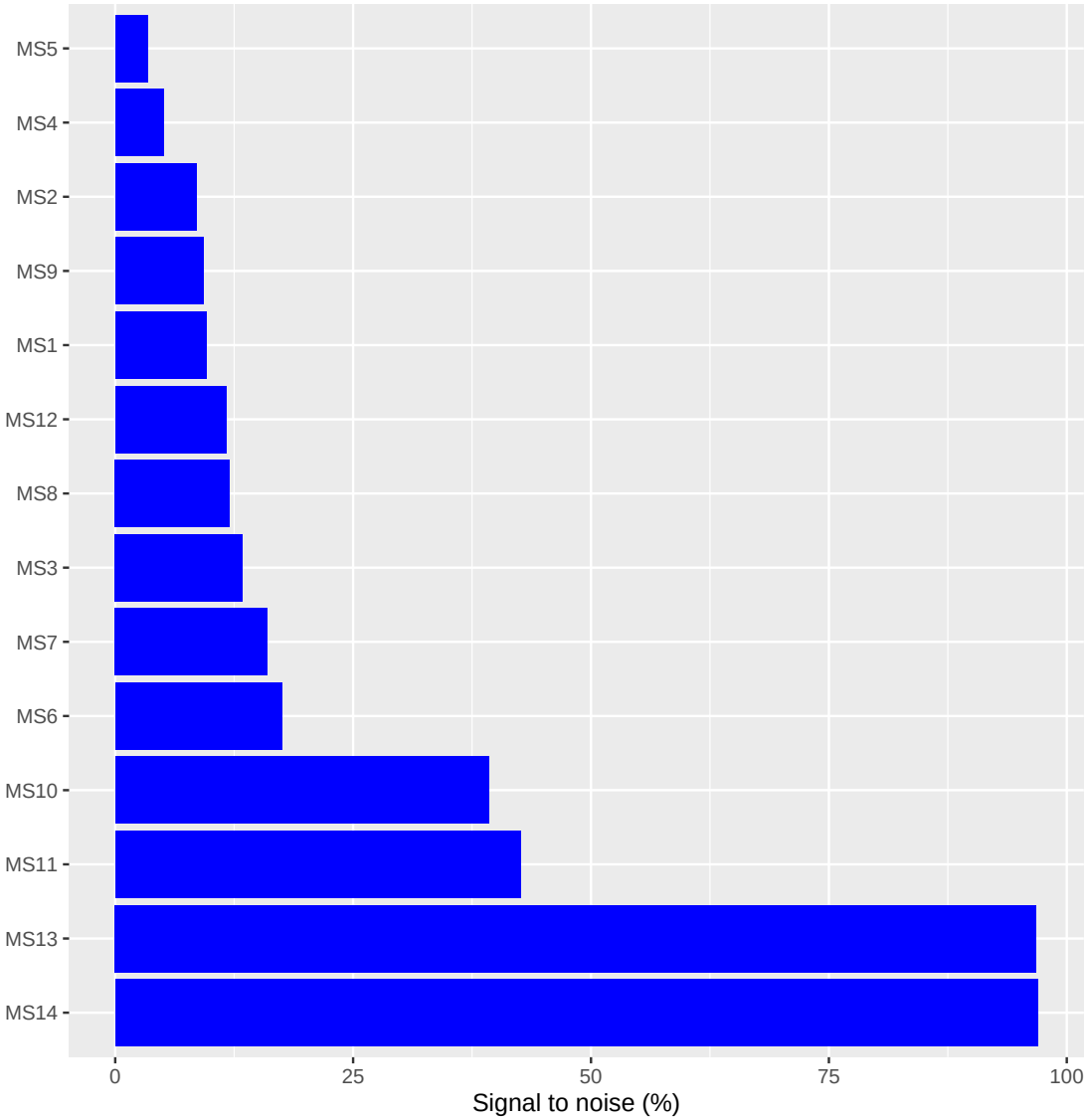

Figure 3: Signal to noise ratio. Monetary Investment (2012)

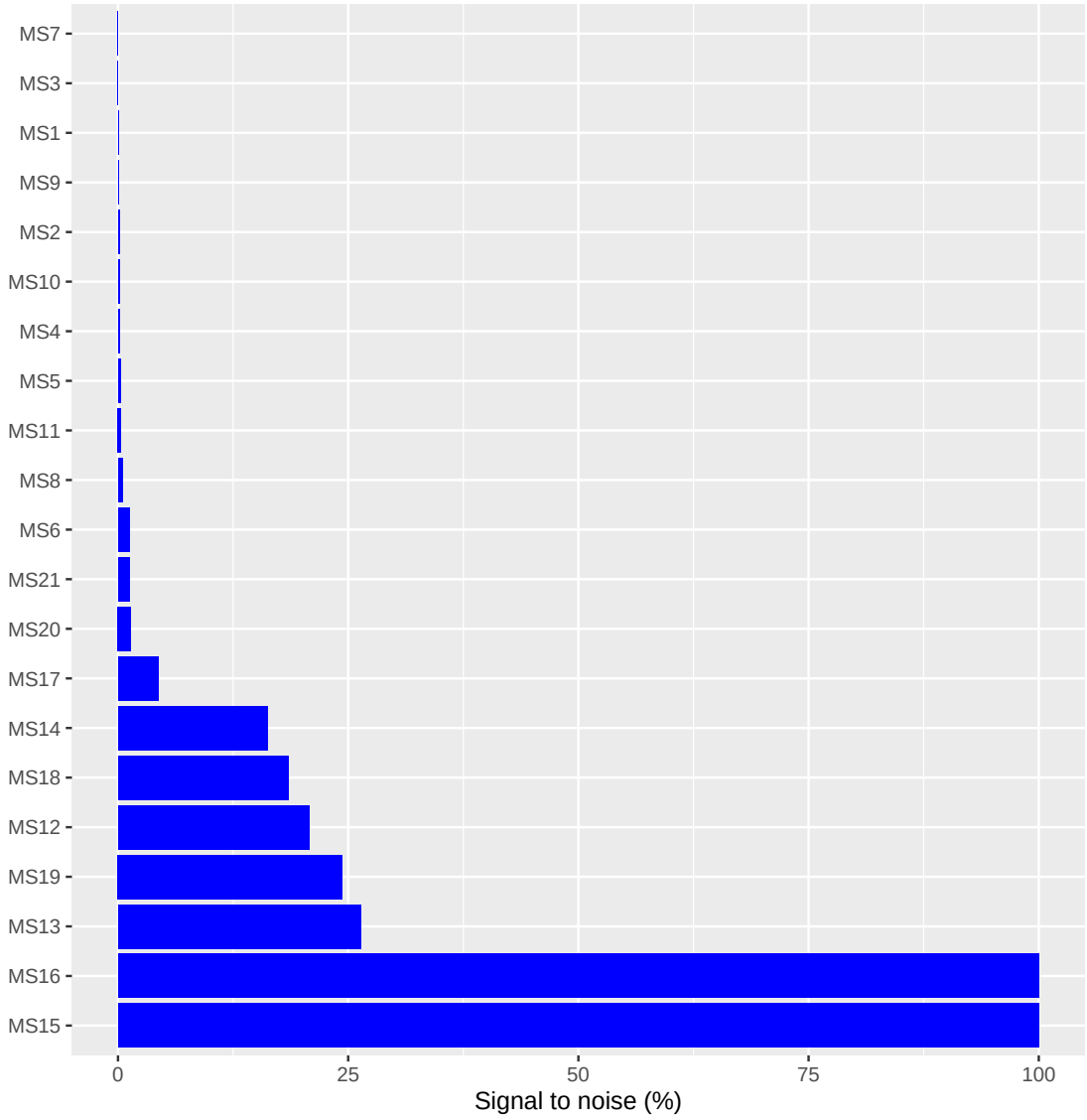

Figure 4: Signal to noise ratio. Monetary Investment (2010)

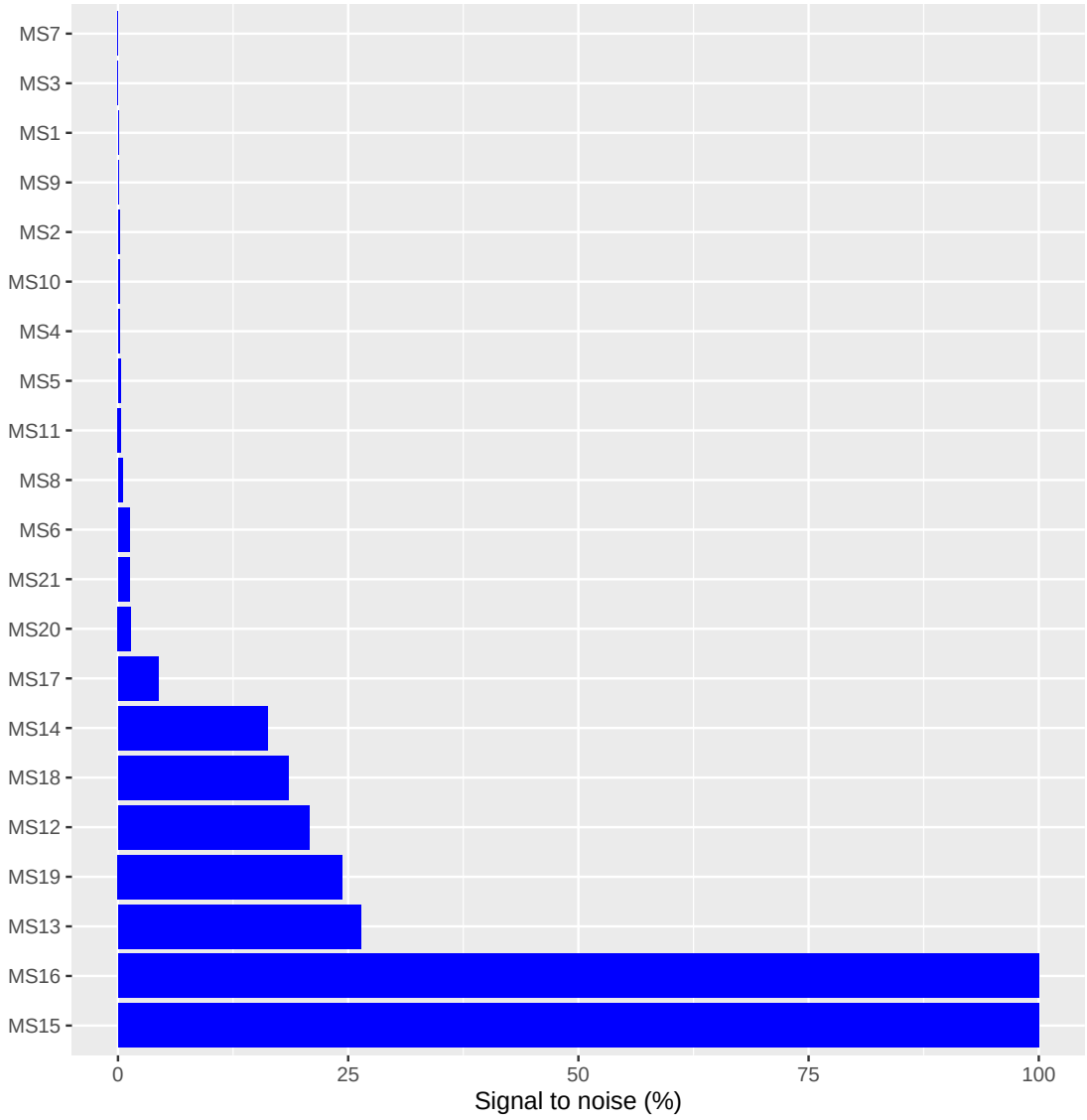

Figure 5: Signal to noise ratio. Pareto weight

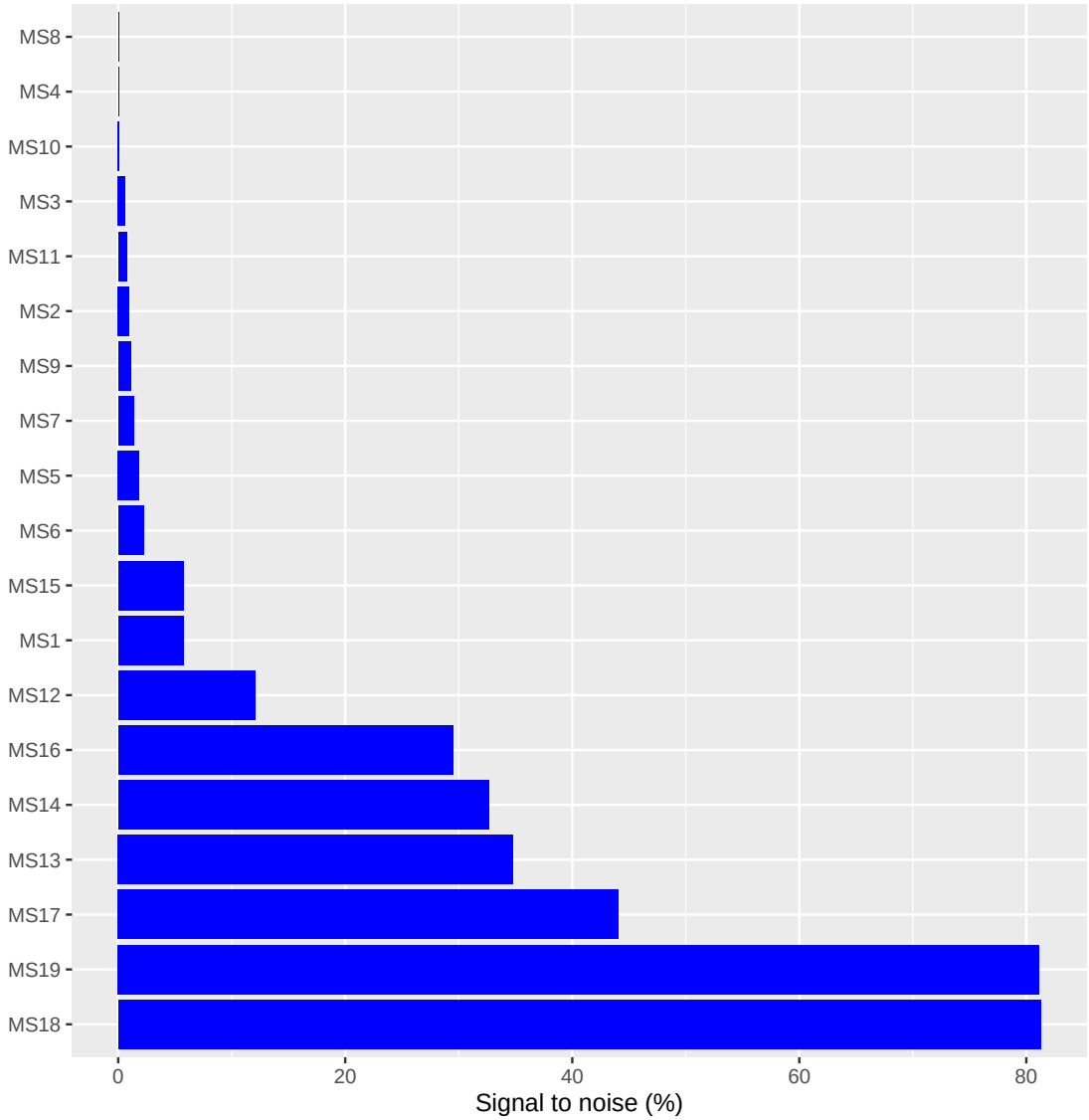

Figure 6: Signal to noise ratio. Skills of Mother

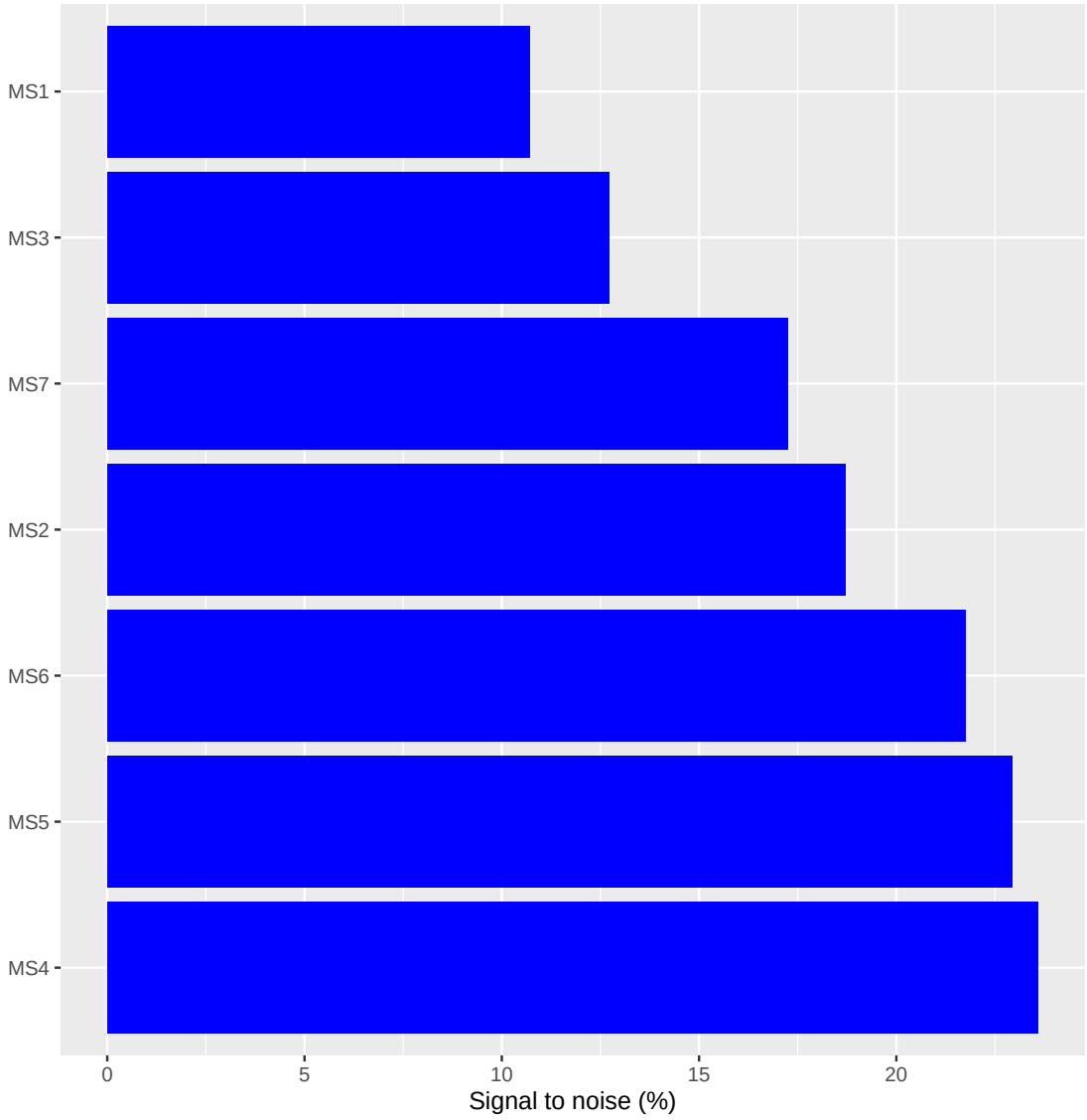

Figure 7: Signal to noise ratio. Measures of Skills 2010

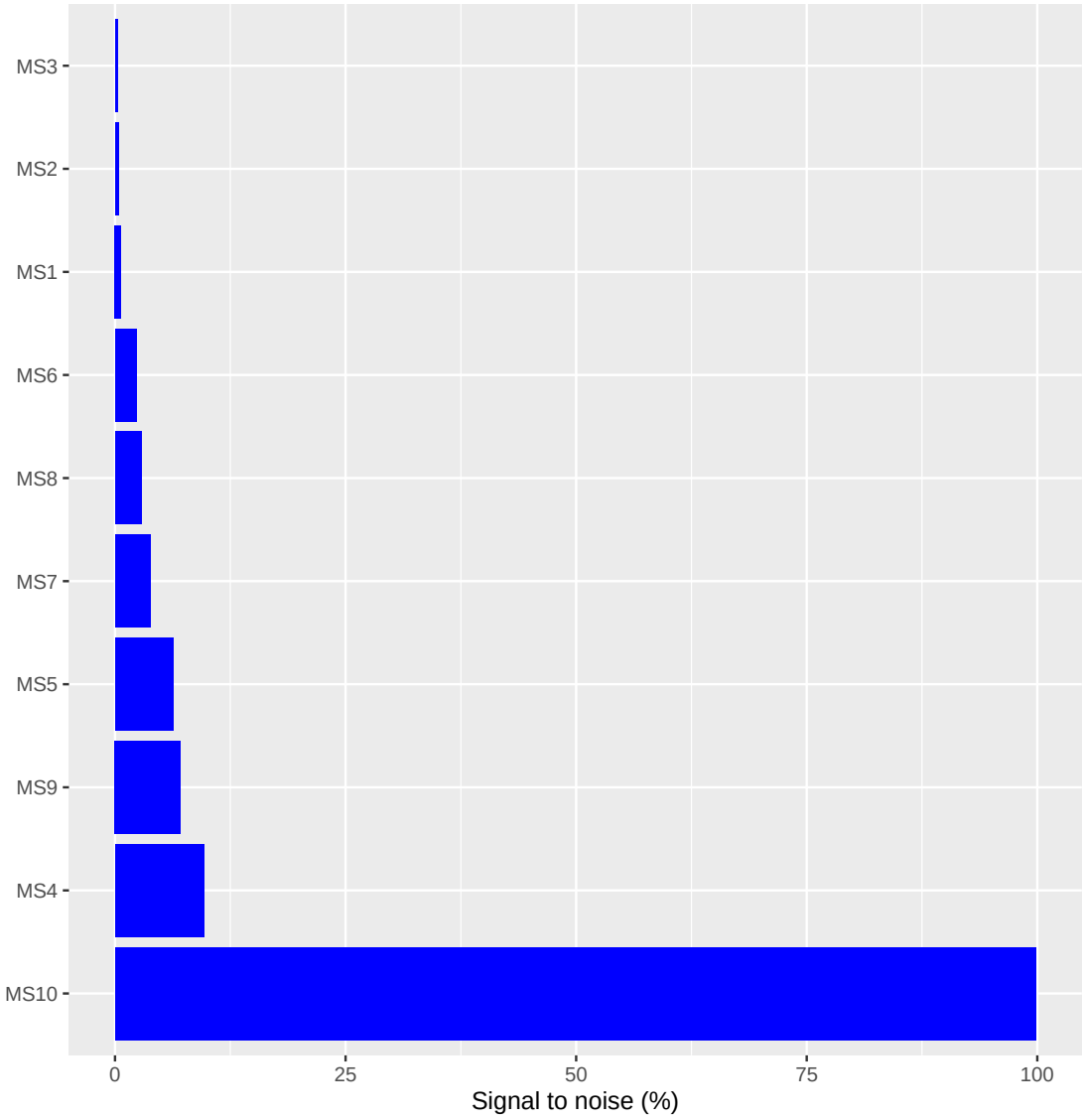

Figure 8: Signal to noise ratio. Measures of Skills 2012

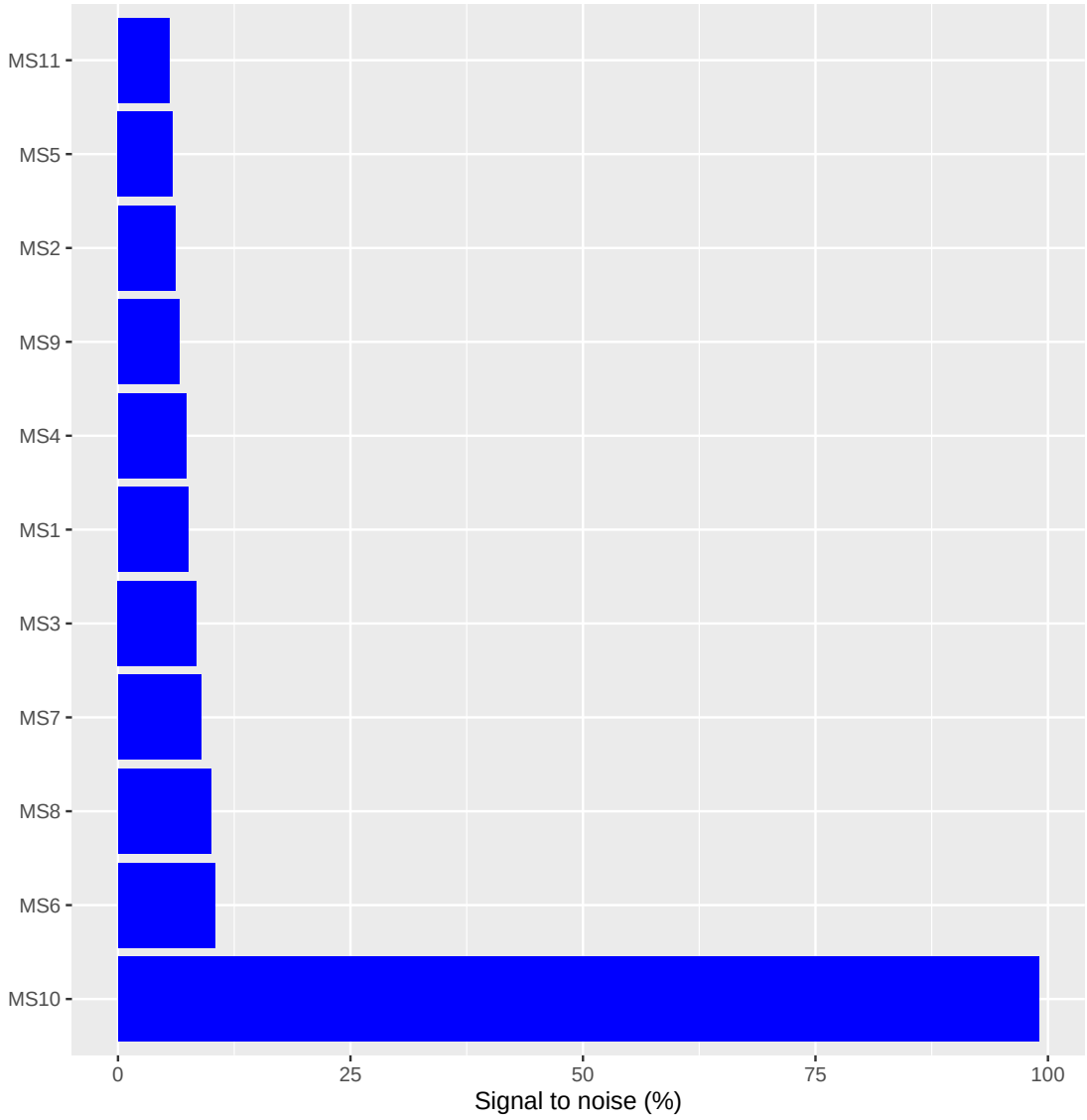

Figure 9: Signal to noise ratio. Measures of Skills 2012