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Notes– Aug 12 call

Gender bias + mental health are not directly related to interactions between caregiver and child.

- Self-efficacy
- Home engagement
- Gender Bias
- Discipline Practices (Violent practices)
- Mental Health
- Emotional Supportiveness

Let's start with younger kids—we can use midline to predict SDQ endline OR just use Endline.

Need to put all on the same scale—0-10. Do not recommend Z-scores because the items are quite skewed.

Summary

Sample

	Midline	Endline
Caregivers	2587	2541
Children	4677	4740
Total Obs	4747*	4740

*Oddly 70 caregivers without matched child id at midline—just caregiver data.

Each caregiver was asked to randomly select one child from their household aged 5-10 and another aged 11-17. Not every caregiver reported on two children. The caregiver went through each survey twice, once for each child.

Caregiver Descriptives

Descriptive Statistics

Variable		Obs	Mean	Std. Dev.	Min	Max
cg age	Caregiver Age	4742	42.96	11.96	19	106
cg male	Caregiver Gender (1=male)	4747	.413	.492	0	1
cg fasting	Fasting Ramadan	4747	.36	.48	0	1
cg cb3	Mother Edu Level (Child 1)	4716	.659	1.24	0	5
cg cb4	Mother Edu Level (Child 2)	4440	.652	1.242	0	5
cg cb5	Marital Status	4747	4.174	.879	1	7

Mother Edu Level_Child1	Freq.	Percent	Cum.
0	3508	74.39	74.39
1	130	2.76	77.14
2	547	11.60	88.74
3	324	6.87	95.61
4	123	2.61	98.22
5	84	1.78	100.00
Total	4716	100.00	

Mother Edu Level_Child2	Freq.	Percent	Cum.
0	3331	75.02	75.02
1	102	2.30	77.32
2	499	11.24	88.56
3	319	7.18	95.74
4	107	2.41	98.15
5	82	1.85	100.00
Total	4440	100.00	

Marital Status	Freq.	Percent	Cum.
1	79	1.66	1.66
3	14	0.29	1.96
4	4266	89.87	91.83
5	20	0.42	92.25
6	49	1.03	93.28
7	319	6.72	100.00
Total	4747	100.00	

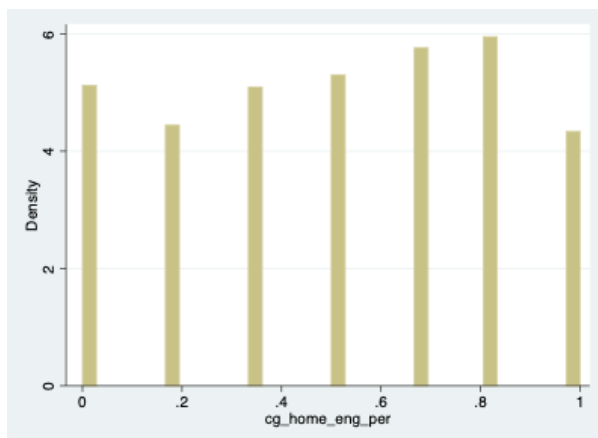
Caregiver Survey

Home Engagement/Cog Stim

(from MICS→survey differs based on age group)

Midline Home Engagement Scale: Alpha= .75

Variable		Obs	Mean	Std. Dev.	Min	Max	Endline Home
cg pe1a	Read books to or looked at picture books with [CHILD]?	4663	.597	.491	0	1	
cg pe2a	Told Stories to [CHILD]?	4664	.337	.473	0	1	
cg pe3a	Sang songs to or with [CHILD]?	4666	.553	.497	0	1	
cg pe4a	Taken [CHILD] outside the home? For example, to the market, to events, visit relatives?	4666	.493	.5	0	1	
cg pe5a	Played with [CHILD]?	4667	.63	.483	0	1	
cg pe6a	Named, counted, or drew things to or with [CHILD]?	4664	.434	.496	0	1	
cg home eng	Total Home Engagement	4675	3.037	1.954	0	6	
cg home eng per	Home Engagement Score	4675	.506	.326	0	1	

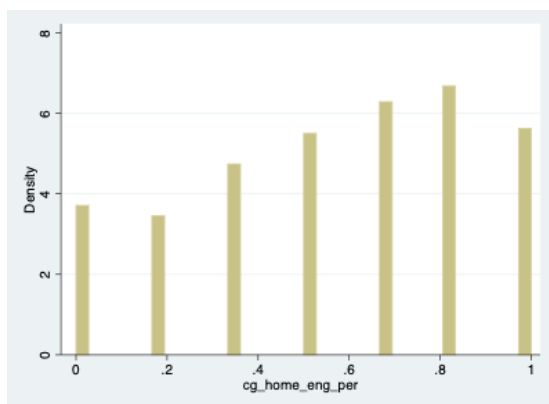


Wave 2 composite score

Engagement Scale. Alpha= .73

Variable		Obs	Mean	Std. Dev.	Min	Max
cg pe1a	Read books to or looked at picture books with [CHILD]?	4719	.667	.471	0	1
cg pe2a	Told Stories to [CHILD]?	4712	.433	.496	0	1
cg pe3a	Sang songs to or with [CHILD]?	4711	.64	.48	0	1

cg pe4a	Taken [CHILD] outside the home? For example, to the market, to events, visit relatives?	4712	.521	.5	0	1
cg pe5a	Played with [CHILD]?	4716	.663	.473	0	1
cg pe6a	Named, counted, or drew things to or with [CHILD]?	4703	.465	.499	0	1
cg home eng	Total Home Engagement	4723	3.382	1.903	0	6
cg home eng per	Home Engagement Score	4723	.564	.317	0	1



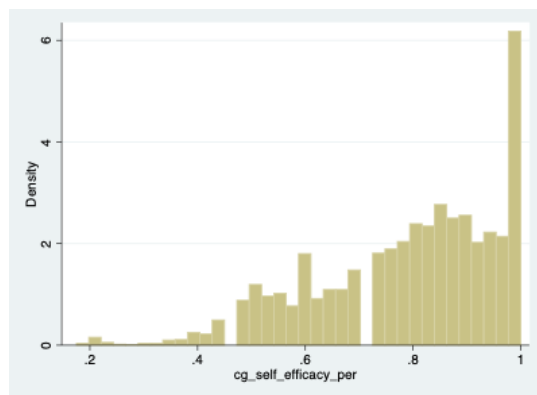
Wave 2 composite score

Self-Efficacy

Midline Caregiver Self-Efficacy Scale. Alpha= .89

Variable		Obs	Mean	Std. Dev.	Min	Max
cg se1	How much can you do to make your children see school as valuable?	4722	4.106	1.095	1	5
cg se2	How much can you do to help children to do their homework?	4726	3.579	1.264	1	5
cg se3	How much can you do to help your children to work hard at their school work?	4722	3.866	1.13	1	5

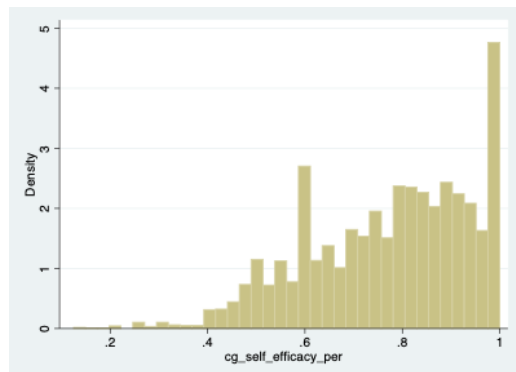
cg se4	How much can you do to get your children to stay out of trouble in school?	4712	4.114	1.08	1	5
cg se5	How much can you do to discourage your children from skipping school?	4733	4.184	1.081	1	5
cg se6	How much can you do to help your children get good grades in school?	4728	3.846	1.212	1	5
cg se7	How much can you do to teach your children to enjoy school?	4729	3.986	1.098	1	5
cg se8	How much can you do to show your children that working hard at school influences later successes?	4718	4.093	1.104	1	5
cg self efficacy	Caregiver Self-Efficacy Total	4745	31.632	6.838	7	40
cg self efficacy per	Self-Efficacy Composite Score	4745	.791	.171	.175	1



Endline Caregiver Self-Efficacy Scale. Alpha=.89

Variable		Obs	Mean	Std. Dev.	Min	Max
cg se1	How much can you do to make your children see school as valuable?	4706	4.031	1.091	1	5
cg se2	How much can you do to help children to do their homework?	4700	3.614	1.24	1	5
cg se3	How much can you do to help your children to work hard at their school work?	4685	3.845	1.098	1	5

cg se4	How much can you do to get your children to stay out of trouble in school?	4691	3.94	1.09	1	5
cg se5	How much can you do to discourage your children from skipping school?	4701	4.024	1.081	1	5
cg se6	How much can you do to help your children get good grades in school?	4693	3.808	1.141	1	5
cg se7	How much can you do to teach your children to enjoy school?	4677	3.932	1.088	1	5
cg se8	How much can you do to show your children that working hard at school influences later successes?	4687	4.006	1.071	1	5
cg self efficacy	Caregiver Self-Efficacy Total	4716	31.045	6.804	5	40
cg self efficacy per	Self-Efficacy Composite Score	4716	.776	.17	.125	1



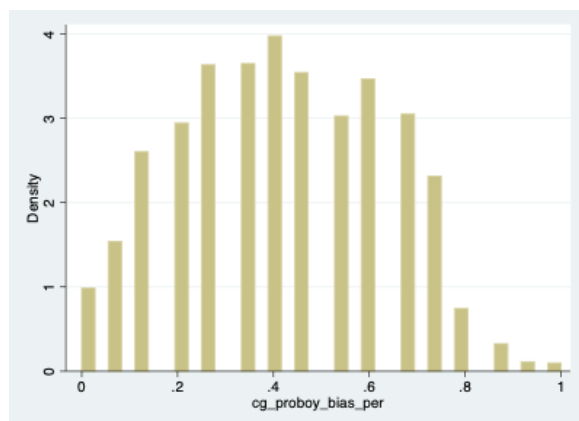
Gender Bias (pro-boy bias)

Higher means more pro-boy bias

Midline Caregiver Gender Bias. Alpha=.79

Variable		Obs	Mean	Std. Dev.	Min	Max
cg gb1	Do you think education has a greater influence on your son's income than your daughter's income? <i>Do not read answer choices.</i>	4636	.383	.486	0	1
cg gb2	It is important that sons have more education than daughters.	4729	.336	.473	0	1
cg gb3	Daughters should be sent to school only if they are not needed to help at home.	4716	.196	.397	0	1
cg gb4	The most important reason that sons should be more educated than daughters is so that they can better look after their parents when they are older.	4732	.421	.494	0	1
cg gb5	If there is a limited amount of money to pay for tutoring, it should be spent on sons first.	4708	.356	.479	0	1
cg gb6	A woman should take good care of her own children and not worry about other people's affairs.	4735	.615	.487	0	1
cg gb7	Women should leave politics to the men.	4712	.443	.497	0	1
cg gb8	A woman has to have a husband or sons or some other male kinsman to protect her.	4738	.775	.417	0	1
cg gb9	The only thing a woman can really rely on in her old age is her sons.	4739	.529	.499	0	1
cg gb10	A good woman never questions her husband's opinions, even if she is not sure she agrees with them.	4707	.709	.454	0	1
cg gb11	When it is a question of children's health, it is best to do whatever the father wants.	4738	.598	.49	0	1

cg gb12	Daughters should be able to work outside the home after they have children if they want to.	4738	.287	.452	0	1
cg gb13	Daughters should have just the same chance to work outside the homes as sons.	4740	.219	.414	0	1
cg gb14	Daughters should be told that an important reason not to have too many children is so they can work outside the home and earn money.	4721	.243	.429	0	1
cg gb15	I would like my daughter to be able to work outside the home so she can support herself if necessary.	4722	.16	.367	0	1
cg proboy bias	Total	4747	6.237	3.205	0	15
cg proboy bias per	Composite Score	4747	.416	.214	0	1

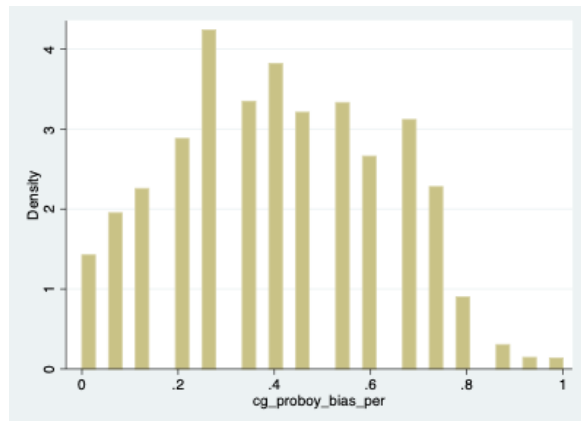


Endline Caregiver Gender Bias. Alpha=.77

Variable	Obs	Mean	Std. Dev.	Min	Max
cg gb1 Do you think education has a greater influence on your son's income than your daughter's income? <i>Do not read answer choices.</i>	4679	.324	.468	0	1
cg gb2 It is important that sons have more education than daughters.	4709	.317	.465	0	1
cg gb3 Daughters should be sent to school only if they are not needed to help at home.	4708	.236	.424	0	1

cg gb4	The most important reason that sons should be more educated than daughters is so that they can better look after their parents when they are older.	4716	.39	.488	0	1
cg gb5	If there is a limited amount of money to pay for tutoring, it should be spent on sons first.	4683	.35	.477	0	1
cg gb6	A woman should take good care of her own children and not worry about other people's affairs.	4707	.616	.486	0	1
cg gb7	Women should leave politics to the men.	4701	.398	.49	0	1
cg gb8	A woman has to have a husband or sons or some other male kinsman to protect her.	4709	.702	.457	0	1
cg gb9	The only thing a woman can really rely on in her old age is her sons.	4710	.512	.5	0	1
cg gb10	A good woman never questions her husband's opinions, even if she is not sure she agrees with them.	4685	.736	.441	0	1
cg gb11	When it is a question of children's health, it is best to do whatever the father wants.	4705	.632	.482	0	1
cg gb12	Daughters should be able to work outside the home after they have children if they want to.	4705	.289	.453	0	1
cg gb13	Daughters should have just the same chance to work outside the homes as sons.	4711	.212	.409	0	1
cg gb14	Daughters should be told that an important reason not to have too many children is so they can work outside the home and earn money.	4682	.262	.44	0	1
cg gb15	I would like my daughter to be able to work outside the home so she can support herself if necessary.	4700	.159	.365	0	1

cg	4723	6.107	3.321	0	15
proboy					
bias					
cg	4723	.407	.221	0	1
proboy					
bias per					



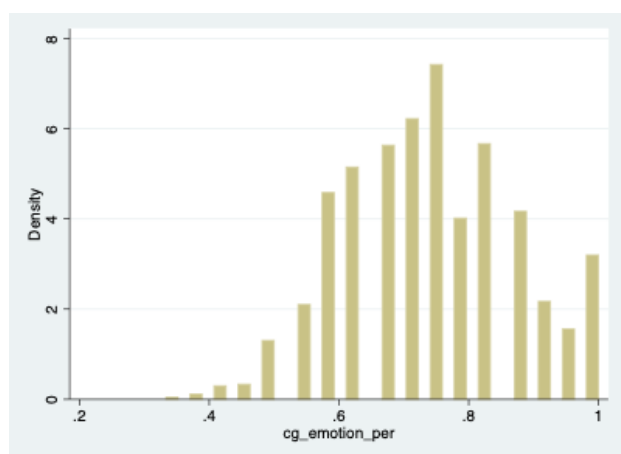
Emotional Supportiveness

4 point likert scale from 1= Never True to 4=Very Often True. Reverse coded so higher means more emotional supportiveness.

Midline Caregiver Emotional Supportiveness. Alpha= .66

Variable		Obs	Mean	Std. Dev.	Min	Max
cg es1	Even if I am really busy, I make time to listen to [CHILD].	4673	3.152	.888	1	4
cg es2	I discourage [CHILD] from talking about his/her worries because it upsets him/her.	4672	2.895	1.145	1	4
cg es3	I encourage [CHILD] to talk about his/her troubles.	4669	3.108	.886	1	4
cg es4	I encourage [CHILD] to tell me about his/her friends and activities.	4667	2.817	1.047	1	4

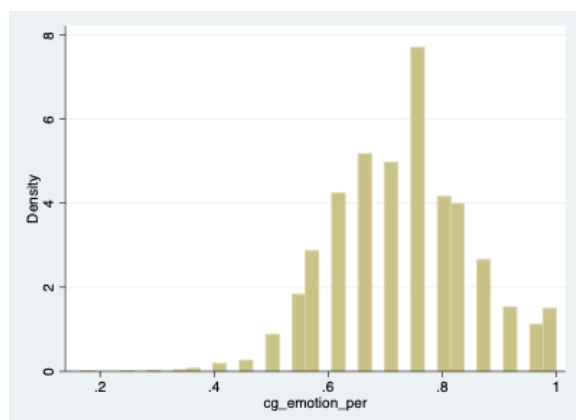
cg es5	I encourage [CHILD] to express his/her opinions.	4666	3.026	.913	1	4
cg es6	When I lose my patience with [CHILD]'s questions and demands, I just don't listen to [CHILD] anymore.	4667	2.803	1.142	1	4
cg emotion		4677	17.772	3.185	8	24
cg emotion per		4677	.74	.133	.333	1



Endline Caregiver Emotional Supportiveness. Alpha= .71

Variable		Obs	Mean	Std. Dev.	Min	Max
cg es1	Even if I am really busy, I make time to listen to [CHILD].	4720	3.195	.857	1	4
cg es2	I discourage [CHILD] from talking about his/her worries because it upsets him/her.	4708	2.772	1.106	1	4
cg es3	I encourage [CHILD] to talk about his/her troubles.	4720	3.017	.926	1	4
cg es4	I encourage [CHILD] to tell me about his/her friends and activities.	4718	2.878	.99	1	4
cg es5	I encourage [CHILD] to express his/her opinions.	4715	2.95	.914	1	4

cg es6	When I lose my patience with [CHILD]'s questions and demands, I just don't listen to [CHILD] anymore.	4717	2.794	1.121	1	4
cg emotion		4723	17.582	2.931	4	24
cg emotion per		4723	.733	.122	.167	1



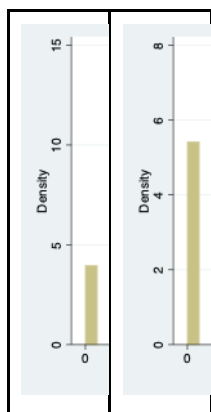
Discipline Practices

In the past month have you [] with 1=Yes and 0=No. Violent and Non-violent discipline practices combined into separate composites.

Midline Caregiver Discipline Practices. Alpha=.75

Variable		Obs	Mean	Std. Dev.	Min	Max
cg dp1	Took away privileges (non viol)	4673	.635	.481	0	1
cg dp2	Explained (non viol)	4670	.744	.437	0	1
cg dp3	Shook	4581	.505	.5	0	1
cg dp4	yelled or screamed	4664	.694	.461	0	1
cg dp5	Distraction (non viol)	4670	.574	.495	0	1
cg dp6	Spanked with hand	4674	.245	.43	0	1
cg dp7	Spanked with object	4670	.248	.432	0	1
cg dp8	called child names lazy, dumb	4668	.39	.488	0	1
cg dp9	hit or slapped face	4672	.113	.316	0	1
cg dp10	... hit or slapped hand/arm/leg	4671	.134	.34	0	1

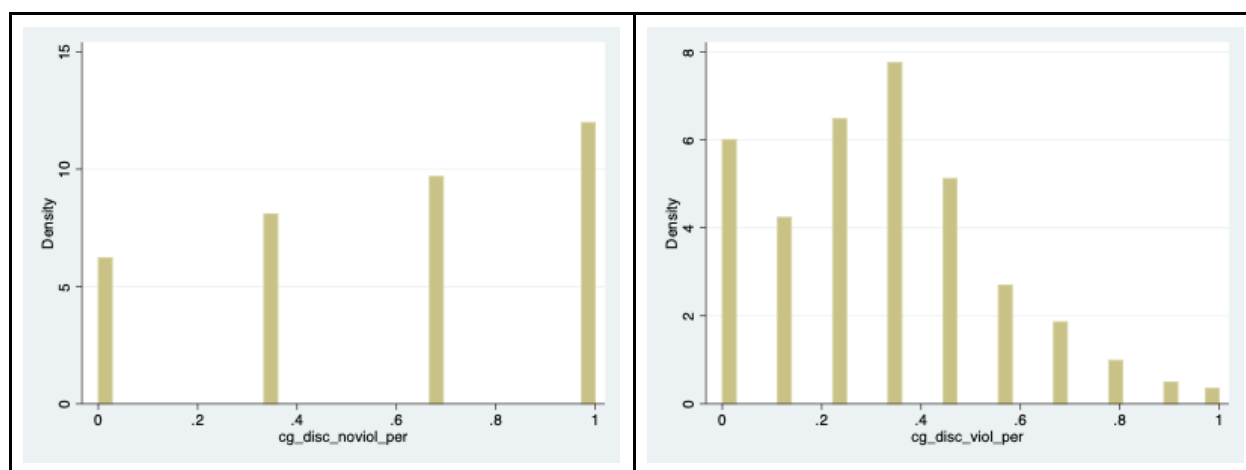
cg dp11	... beat up	4672	.123	.328	0	1
cg dp12	Physical punishment beliefs	4667	.313	.464	0	1
cg disc noviol		4674	1.952	1.017	0	3
cg disc noviol per		4674	.651	.339	0	1
cg disc viol		4674	2.933	2.233	0	9
cg disc viol per		4674	.326	.248	0	1



Endline Caregiver Discipline Practices. Alpha=.74

Variable		Obs	Mean	Std. Dev.	Min	Max
cg dp1	Took away privileges (non viol)	4720	.558	.497	0	1
cg dp2	Explained (non viol)	4719	.652	.476	0	1
cg dp3	Shook	4705	.551	.497	0	1
cg dp4	yelled or screamed	4721	.668	.471	0	1
cg dp5	Distraction (non viol)	4723	.552	.497	0	1
cg dp6	Spanked with hand	4720	.203	.402	0	1
cg dp7	Spanked with object	4721	.175	.38	0	1
cg dp8	called child names lazy, dumb	4714	.367	.482	0	1
cg dp9	hit or slapped face	4722	.098	.297	0	1
cg dp10	... hit or slapped hand/arm/leg	4721	.081	.273	0	1
cg dp11	... beat up	4721	.08	.272	0	1
cg dp12	Physical punishment beliefs	4717	.296	.457	0	1
cg disc noviol	Total Non-Violent Discipline Practice	4723	1.762	1.093	0	3

cg disc noviol per	Non Violence Discipline composite score	4723	.587	.364	0	1
cg disc viol	Total violent Discipline	4723	2.769	2.035	0	9
cg disc viol per	Violent Discipline composite score	4723	.308	.226	0	1

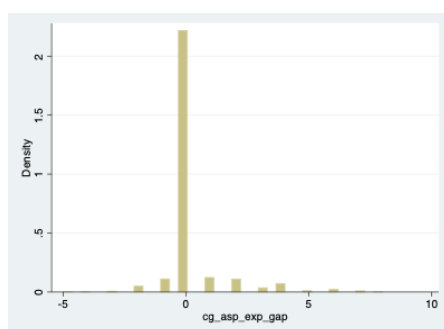


Education Expectations and Aspirations

Level of education aspiration vs expectation. 1=primary school, 9=Advanced degree (PhD, MD)

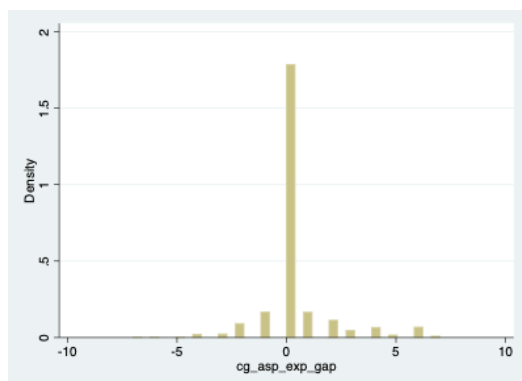
Midline Education Expectations and Aspirations

Variable		Obs	Mean	Std. Dev.	Min	Max
cg ea1	Edu Aspirations	4298	6.458	1.372	1	9
cg ea2	Edu Expectations	4178	6.177	1.544	1	9
cg asp exp gap	Aspiration - Expectation	4170	.278	1.173	-5	8



Endline Education Expectations and Aspirations

Variable		Obs	Mean	Std. Dev.	Min	Max
cg ea1	Edu Aspirations	4475	6.567	1.455	1	9
cg ea2	Edu Expectations	4434	6.245	1.647	1	9
cg asp exp gap	Aspiration - Expectation	4424	.321	1.562	-7	7

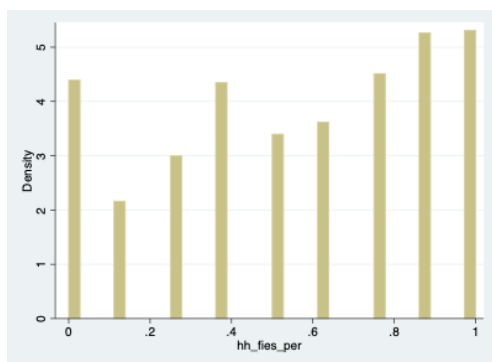


HH Food Insecurity

1=Yes, 0=No. Higher score means MORE food insecurity.

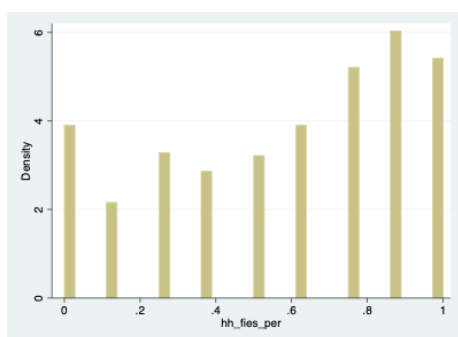
Midline HH Food Insecurity. Alpha= .85

Variable		Obs	Mean	Std. Dev.	Min	Max
cg fs1	You were worried you would not have enough food to eat? <i>Do not prompt.</i>	4746	.761	.426	0	1
cg fs2	You were unable to eat healthy and nutritious food? <i>Do not prompt.</i>	4738	.652	.476	0	1
cg fs3	You ate only a few kinds of foods? <i>Do not prompt.</i>	4746	.699	.459	0	1
cg fs4	You had to skip a meal? <i>Do not prompt.</i>	4744	.503	.5	0	1
cg fs5	You ate less than you thought you should? <i>Do not prompt.</i>	4735	.595	.491	0	1
cg fs6	Your household ran out of food? <i>Do not prompt.</i>	4735	.518	.5	0	1
cg fs7	You were hungry, but did not eat? <i>Do not prompt.</i>	4731	.462	.499	0	1
cg fs8	You went without eating for a whole day? <i>Do not prompt.</i>	4726	.241	.428	0	1
hh fies	HH Food Insecurity	4746	4.425	2.654	0	8
hh fies per	HH Food Insecurity Composite Score	4746	.553	.332	0	1



Endline HH Food Insecurity. Alpha= .86

Variable		Obs	Mean	Std. Dev.	Min	Max
cg fs1	You were worried you would not have enough food to eat? <i>Do not prompt.</i>	4721	.785	.411	0	1
cg fs2	You were unable to eat healthy and nutritious food? <i>Do not prompt.</i>	4720	.672	.47	0	1
cg fs3	You ate only a few kinds of foods? <i>Do not prompt.</i>	4723	.736	.441	0	1
cg fs4	You had to skip a meal? <i>Do not prompt.</i>	4722	.547	.498	0	1
cg fs5	You ate less than you thought you should? <i>Do not prompt.</i>	4723	.643	.479	0	1
cg fs6	Your household ran out of food? <i>Do not prompt.</i>	4723	.562	.496	0	1
cg fs7	You were hungry, but did not eat? <i>Do not prompt.</i>	4723	.448	.497	0	1
cg fs8	You went without eating for a whole day? <i>Do not prompt.</i>	4723	.236	.425	0	1
hh_fies	HH Food Insecurity	4723	4.628	2.633	0	8
hh_fies_per	HH Food Insecurity Composite Score	4723	.578	.329	0	1

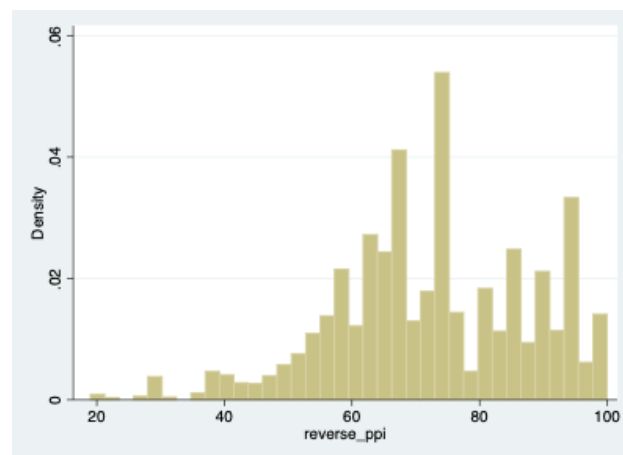


HH Poverty – Midline Only

PPI score calculated using the Ghana Poverty Probability Index guidance. A higher reverse PPI means higher poverty (higher probability of poverty). MIDLINE ONLY

Poverty Probability

Variable	Obs	Mean	Std. Dev.	Min	Max
ppi score	4747	27.659	15.494	0	81
reverse ppi	4747	72.341	15.494	19	100



Caregiver-reported child physical health – Endline Only

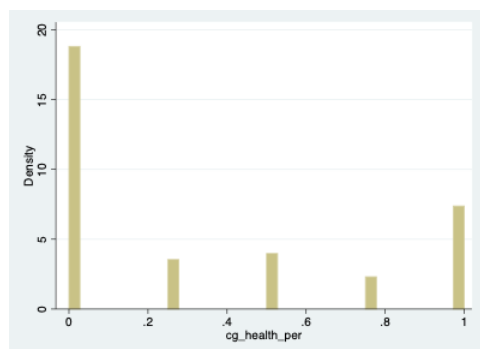
0=No, 1=Yes. Higher means more health problems. ENDLINE Only.

***Something seems wrong here. Not used in Betta's code. Will follow up as to why.

Caregiver reported child health. Alpha-.89

Variable		Obs	Mean	Std. Dev.	Min	Max
cg mp1	... has [CHILD] been ill with a fever anytime in the past two weeks?	4716	.42	.494	0	1
cg mp2	... did [CHILD] not attend school due to fever in the past two weeks?	4709	.279	.448	0	1
cg mp3	... did [CHILD] test positive for malaria?	4681	.325	.468	0	1

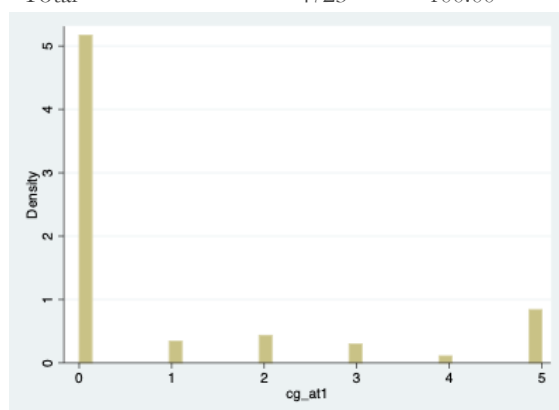
cg_mp4	Did child test positive for malaria?	4670	.319	.466	0	1
cg_health_per	Composite Score	4740	.333	.405	0	1



Caregiver-reported attendance + attitudes about attendance— Endline Only

of Days of Missed School in the past week

	Freq.	Percent	Cum.
0	3392	71.82	71.82
1	225	4.76	76.58
2	285	6.03	82.62
3	197	4.17	86.79
4	72	1.52	88.31
5	552	11.69	100.00
Total	4723	100.00	



Descriptive Statistics

Variable		Obs	Mean	Std. Dev.	Min	Max
cg_ak1	Do you know if [CHILD] attends all of their classes each day?	4665	.873	.333	0	1

cg ak2	Do you know where your child is when he/she is not in school?	4686	.859	.348	0	1
cg ak3	Does [CHILD]'s school have a policy on student attendance that you know of?	4383	.607	.488	0	1
cg ak4	Thinking about [NAME], what best describes his/her attendance in school since schools re-opened in January. Please select one.	4723	1.38	1.025	1	5
cg ak5	Has [NAME] school or teacher ever contacted you to discuss your child's attendance?	4697	.327	.469	0	1

1=Negative/Ambivalent Attitudes about Attendance, 4=Positive Attitudes

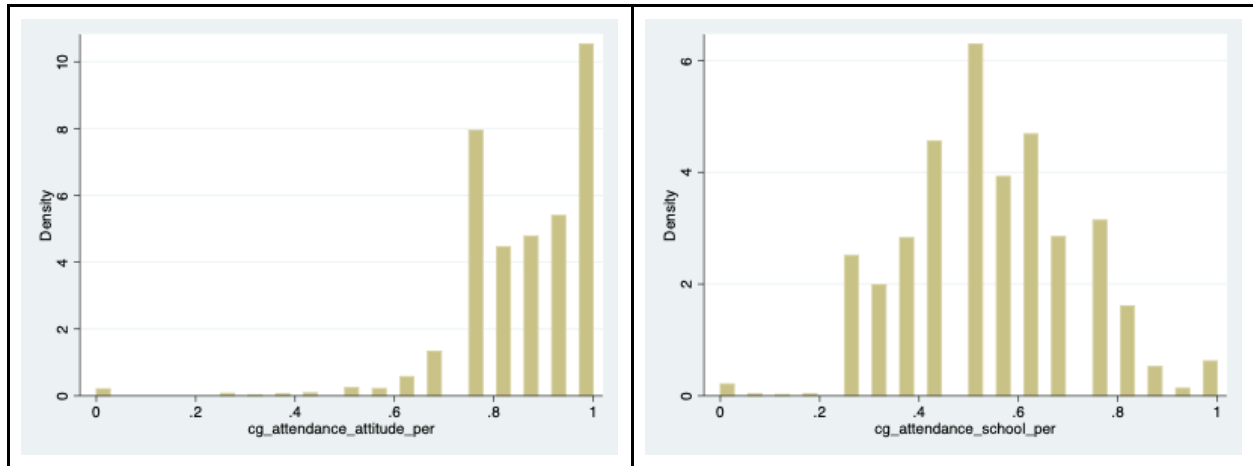
Caregiver Attitudes About the Importance of School Attendance. Alpha= .75

Variable		Obs	Mean	Std. Dev.	Min	Max
cg aa1	When my child misses school, they miss valuable instruction	4709	3.6	.576	1	4
cg aa2	When my child misses school, they miss valuable time with friends	4703	3.396	.689	1	4
cg aa3	Regular school attendance is just as important for primary school children as secondary	4711	3.523	.601	1	4
cg aa4	Not attending school can get children into trouble	4705	3.353	.686	1	4
cg_attendance_attitude_per	Composite Attendance Attitude Score	4740	.86	.13	0	1

Caregiver Attitudes About Role of School in Attendance (1=More emphasis on role of school, 4=less emphasis on role of school). **Alpha= .66**

cg aa5	There is not enough help from schools/teachers to help keep children attending school	4696	2.173	.923	1	4
cg aa6	Children most often miss class because of problems at school	4691	2.155	.935	1	4
cg aa7	It is primarily the school's responsibility to make sure children attend regularly	4693	2.253	.97	1	4
cg aa8	Parents should be fined if their children miss school	4699	2.141	1.018	1	4

cg_attendance_sc	4740	.54	.17	0	1
hool_per	Composite School Attitude Attendance Score				



Mental health (depression and anxiety) – Endline only

Likert scale 1=None of the time 5=All of the time.

Caregiver Mental Health. Alpha= .86. Alpha for Dep subscale=.76, Alpha for Anx subscale= .78

Variable		Obs	Mean	Std. Dev.	Min	Max
cg mh1	During the last 30 days, about how often did you feel tired out for no good reason?	4713	2.211	.786	1	4
cg mh2	During the last 30 days, about how often did you feel nervous?	4715	2.069	.731	1	4
cg mh3	During the last 30 days, about how often did you feel so nervous that nothing could calm you down?	4697	1.923	.783	1	4
cg mh4	During the last 30 days, about how often did you feel hopeless?	4715	1.89	.813	1	4
cg mh5	During the last 30 days, about how often did you feel restless or fidgety?	4702	1.948	.825	1	4
cg mh6	During the last 30 days, about how often did you feel so restless you could not sit still?	4704	1.905	.827	1	4
cg mh7	During the last 30 days, about how often did you feel depressed?	4694	1.957	.75	1	4
cg mh8	During the last 30 days, about how often did you feel that everything was an effort?	4690	2.21	.941	1	4
cg mh9	During the last 30 days, about how often did you feel so sad that nothing could cheer you up?	4686	1.948	.824	1	4

cg mh10	During the last 30 days, about how often did you feel worthless?	4704	1.776	.819	1	4
cg dep	Total depression score	4740	11.891	3.376	0	24
cg dep per	Depression composite (total by total possible)	4740	.396	.113	0	.8
cg anx	Total Anxiety	4740	7.786	2.5	0	16
cg anx per	Total Anxiety Score (total by total possible)	4740	.389	.125	0	.8



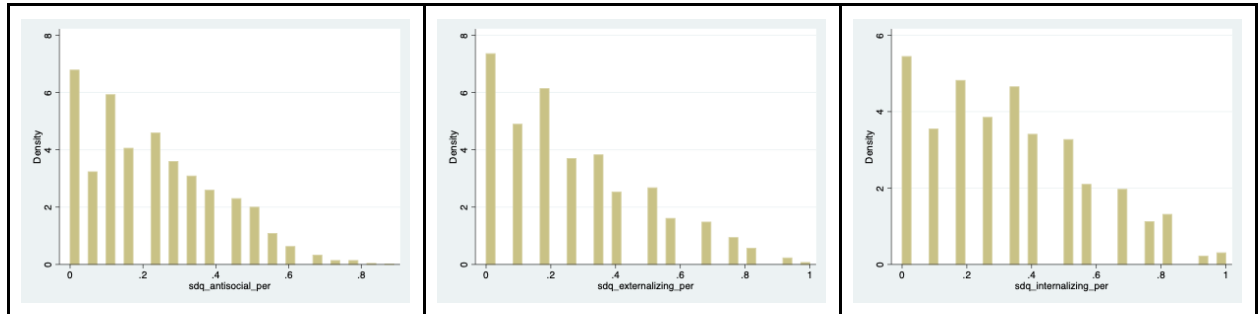
Caregiver-reported child mental health (SDQ) – Endline Only

I made the composite scores based on our factor solution.

Caregiver Reported SDQ. Alpha for entire scale = .74

Variable	Obs	Mean	Std. Dev.	Min	Max
cg sd1	4708	.418	.654	0	2
cg sd2	4703	.802	.833	0	2
cg sd3	4703	1.107	.786	0	2
cg sd4	4699	.408	.608	0	2
cg sd5	4706	.603	.787	0	2
cg sd6	4699	.674	.804	0	2
cg sd7	4704	.386	.599	0	2
cg sd8	4708	.738	.759	0	2
cg sd9	4701	.427	.607	0	2
cg sd10	4708	.6	.779	0	2
cg sd11	4643	.457	.683	0	2
cg sd12	4703	.469	.714	0	2
cg sd13	4699	.509	.722	0	2
cg sd14	4701	.412	.61	0	2
cg sd15	4692	.747	.779	0	2
cg sd16	4683	.816	.772	0	2
cg sd17	4707	.385	.557	0	2
cg sd18	4702	.268	.593	0	2
cg sd19	4701	.402	.674	0	2
cg sd20	4713	.448	.658	0	2
cg sd21	4685	.634	.696	0	2
cg sd22	4717	.223	.581	0	2
cg sd23	4707	1.205	.789	0	2

cg sd24	4704	.867	.792	0	2
cg sd25	4706	.48	.598	0	2
sdq antisocial per	4723	.223	.177	0	.889
sdq externalizing ~r	4723	.261	.23	0	1
sdq internalizing ~r	4723	.323	.246	0	1



Correlation Matrix

Midline Correlation Matrix–Caregiver

Variables	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
(1) cg_age	1.000										
(2) cg_male	0.164***	1.000									
(3) cg_cb3	-0.145***	-0.192***	1.000								
(4) cg_home_eng_per	-0.041***	-0.125***	0.125***	1.000							
(5) cg_self_effica~r	-0.098***	-0.004	0.091***	0.025*	1.000						
(6) cg_proboy_bias~r	0.017	0.042***	-0.227***	-0.068***	-0.119***	1.000					
(7) cg_emotion_per	0.044***	0.124***	-0.045***	0.102***	0.157***	-0.020	1.000				
(8) cg_disc_viol_per	-0.017	-0.165***	0.053***	0.080***	0.016	0.058***	-0.093***	1.000			
(9) cg_asp_exp_gap	0.014	-0.070***	0.035**	-0.071***	-0.036**	0.001	-0.010	0.021	1.000		
(10) hh_fies_per	0.008	0.015	-0.031**	0.021	0.002	0.048***	0.012	0.080***	0.131***	1.000	
(11) reverse_ppi	0.068***	0.299***	-0.352***	-0.149***	0.015	0.177***	0.068***	-0.104***	-0.083***	0.131*	1.0

*** $p < 0.01$, ** $p < 0.05$, * $p < 0.1$

Endline Correlation Matrix–Caregiver

Variables	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
(1) cg_home_eng_per	1.00												
(2) cg_self_effica~r	-0.070***	1.00											
(3) cg_probboy_bias~r	-0.049***	0.02	1.00										
(4) cg_emotion_per	0.039***	0.147***	-0.00	1.00									
(5) cg_disc_viol_per	0.165***	-0.080***	0.041***	-0.087***	1.00								
(6) cg_asp_exp_gap	-0.061***	-0.045***	-0.02	-0.063***	-0.041***	1.00							
(7) sdq_antisocial~r	-0.02	-0.047***	0.026*	-0.310***	-0.02	-0.027*	1.00						
(8) sdq_externaliz~r	-0.034**	-0.068***	0.087***	-0.135***	0.140***	-0.02	0.130***	1.00					
(9) sdq_internaliz~r	0.02	-0.154***	0.071***	-0.155***	0.151***	-0.097***	-0.01	0.491***	1.00				
(10) cg_dep_per	0.031**	-0.093***	0.178***	-0.073***	0.059***	-0.02	0.113***	0.106***	0.082***	1.00			
(11) cg_anx_per	0.076***	-0.127***	0.162***	0.02	0.050***	-0.063***	0.069***	0.124***	0.120***	0.697***	1.00		
(12) cg_health_per	0.063***	0.02	0.059***	0.00	0.097***	-0.104***	-0.039***	0.075***	0.096***	0.100***	0.119***	1.00	
(13) hh_fies_per	0.040***	-0.093***	0.01	-0.01	0.088***	0.042***	-0.038***	0.02	0.124***	0.218***	0.211***	0.177***	1.0
(14) reverse_ppi													

*** $p < 0.01$, ** $p < 0.05$, * $p < 0.1$

Child Survey

Child Descriptive Statistics

Variable		Obs	Mean	Std. Dev.	Min	Max
cg childage	Child Age	4677	10.327	3.363	5	17
male	Child Gender (male=1)	4677	.554	.497	0	1
cg enrol	Child Enrolled in School	4677	.926	.261	0	1
ch fasting	Child Fasting during Ramadan	4674	.186	.389	0	1

Child Grade Level (KG1 to SHS3)

	Freq.	Percent	Cum.
1	464	5.57	5.59
2	590	7.08	12.68
3	1052	12.63	25.30
4	1083	13.00	38.30
5	1030	12.36	50.67
6	1014	12.17	62.84
7	796	9.55	72.39
8	703	8.44	80.83
9	542	6.51	87.34
10	513	6.16	93.49
11	362	4.35	97.84
12	91	1.09	98.93
13	49	0.59	99.52
14	40	0.48	100.00
Total	8331	100.00	

Social and Emotional Skills

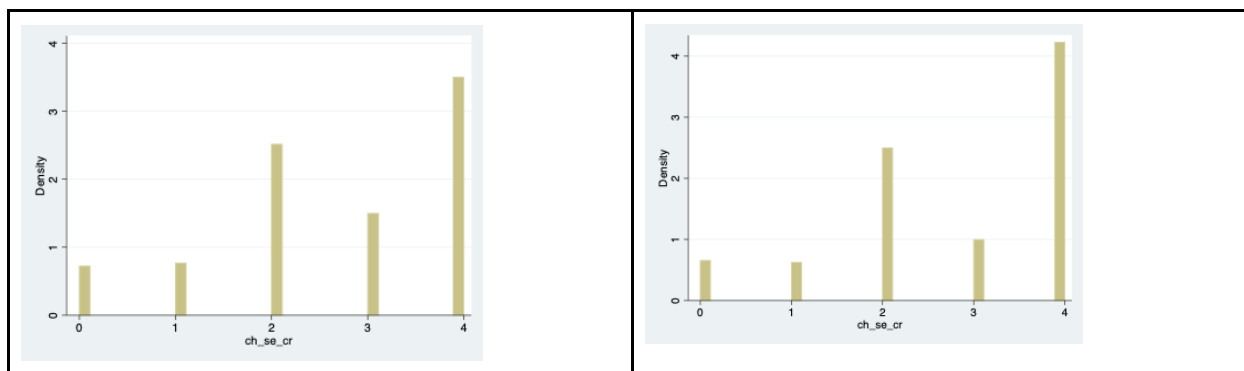
Midline Conflict Resolution . Alpha = .70

Variable		Obs	Mean	Std. Dev.	Min	Max
ch cr1	If you are playing with a toy you like and another child wants to play with the same toy, but there is only one toy. What would you do? (appropriate or inappropriate response)	4470	.87	.337	0	1

ch cr2	Is there anything else you would do? <i>If YES, ask</i> “what would you do”?	3855	.821	.383	0	1
ch cr3	If you are playing with a toy you like and another child wants to play with the same toy, but there is only one toy. This time the other child takes the toy away from you and starts playing with it without asking you. What would you do? (appropriate or inappropriate response)	4502	.642	.48	0	1
ch cr4	Is there anything else you would do? <i>If YES, ask</i> “what would you do”?	3932	.607	.489	0	1
ch se cr	Composite	4569	2.698	1.281	0	4

Endline **Conflict Resolution. Alpha = .72**

Variable		Obs	Mean	Std. Dev.	Min	Max
ch cr1	If you are playing with a toy you like and another child wants to play with the same toy, but there is only one toy. What would you do? (appropriate or inappropriate response)	4558	.89	.313	0	1
ch cr2	Is there anything else you would do? <i>If YES, ask</i> “what would you do”?	4097	.841	.366	0	1
ch cr3	If you are playing with a toy you like and another child wants to play with the same toy, but there is only one toy. This time the other child takes the toy away from you and starts playing with it without asking you.What would you do? (appropriate or inappropriate response)	4528	.655	.475	0	1
ch cr4	Is there anything else you would do? <i>If YES, ask</i> “what would you do”?	4066	.622	.485	0	1
ch se cr	Composite	4584	2.835	1.286	0	4



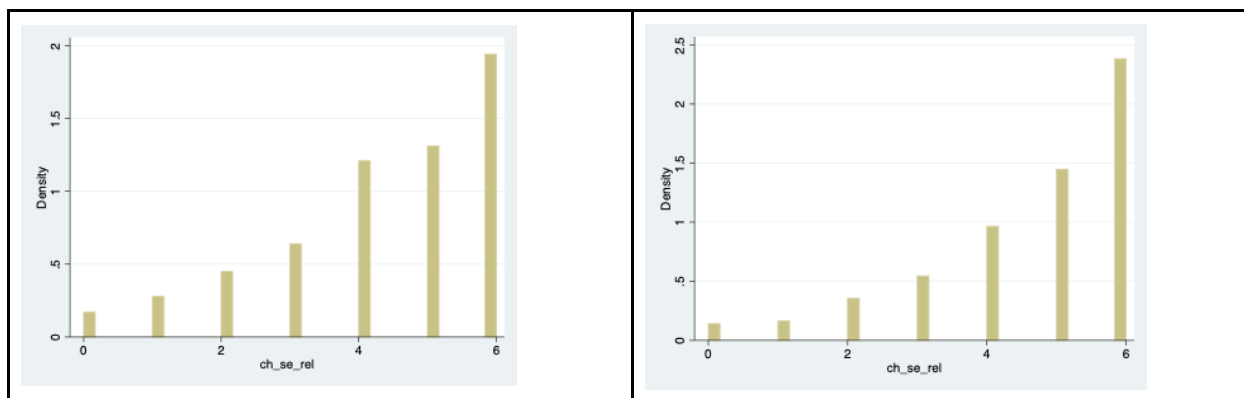
Midline Relationships. Alpha = .44 * Scale isn't meant to be used as a composite/in total

Variable		Obs	Mean	Std. Dev.	Min	Max
ch re1	Do you talk to anyone at home when you are sad?	4633	.59	.492	0	1
ch re2	Do you ask anyone at home for help when you have a problem with a friend?	4636	.665	.472	0	1
ch re3	If you are working on something difficult, do you ask anyone at home for help?	4637	.817	.387	0	1
ch re4	If you are doing your homework and you do not understand, do you ask anyone at home for help?	4149	.831	.375	0	1
ch re5	Can you tell me the names of your good friends? <i>Enter # of friends the child mentions.</i>	4669	4.243	2.323	0	15
ch re6	If you are working on something difficult, do you ask any of your friends for help?	4644	.856	.352	0	1
ch re7	If you are doing your homework and you do not understand, do you ask your friends for help?	4142	.794	.404	0	1
ch re8	Now, I want you to think about adults who you talk to almost every day in your community. Can you tell me which adults you talk to almost every day? <i>Enter # of adults the child mentions.</i>	2428	2.057	1.786	0	10
ch re9	Do you talk to any adult in your community when you are sad?	2420	.636	.481	0	1
ch re10	If you are working on something difficult, do you ask an adult in your community for help?	2421	.727	.446	0	1

ch re11	If you are doing your homework and you do not understand, do you ask any adult in the community for help?	2143	.727	.446	0	1
ch se rel	composite	4663	4.357	1.633	0	6

Endline Relationships. Alpha = .47

Variable	Obs	Mean	Std. Dev.	Min	Max
ch re1 Do you talk to anyone at home when you are sad?	4605	.678	.467	0	1
ch re2 Do you ask anyone at home for help when you have a problem with a friend?	4610	.712	.453	0	1
ch re3 If you are working on something difficult, do you ask anyone at home for help?	4614	.871	.336	0	1
ch re4 If you are doing your homework and you do not understand, do you ask anyone at home for help?	4114	.868	.338	0	1
ch re5 Can you tell me the names of your good friends? <i>Enter # of friends the child mentions.</i>	4629	4.199	2.187	0	15
ch re6 If you are working on something difficult, do you ask any of your friends for help?	4613	.884	.321	0	1
ch re7 If you are doing your homework and you do not understand, do you ask your friends for help?	4110	.838	.369	0	1
ch re8 Now, I want you to think about adults who you talk to almost every day in your community. Can you tell me which adults you talk to almost every day? <i>Enter # of adults the child mentions.</i>	2465	2.43	1.926	0	15
ch re9 Do you talk to any adult in your community when you are sad?	2446	.707	.455	0	1
ch re10 If you are working on something difficult, do you ask an adult in your community for help?	2442	.749	.433	0	1
ch re11 If you are doing your homework and you do not understand, do you ask any adult in the community for help?	2164	.738	.44	0	1
ch se rel	4625	4.651	1.534	0	6



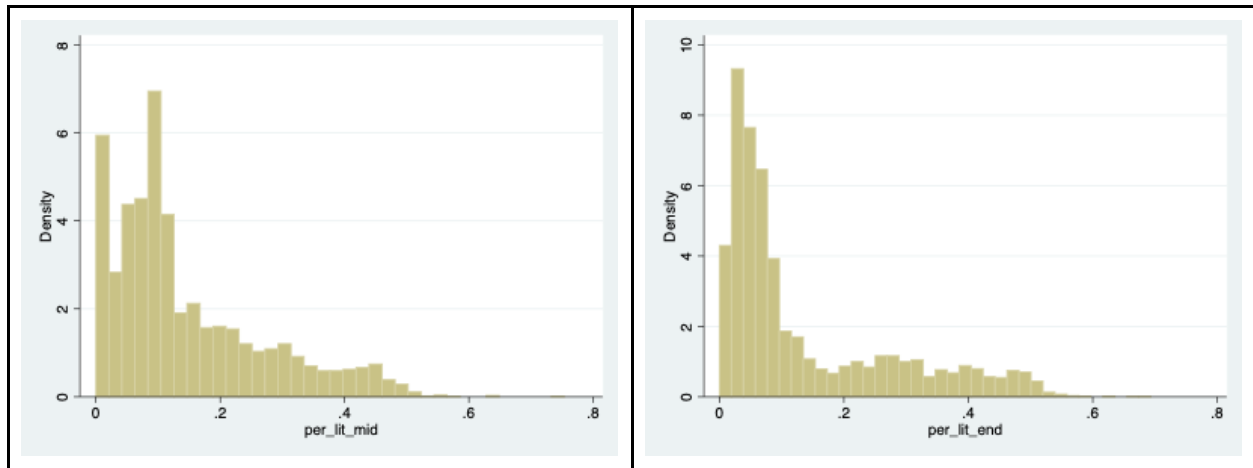
Literacy

Midline Literacy Subscale Total Scores

Variable	Subscales	Obs	Mean	Std. Dev.	Min	Max
ch lit spell	Spelling	4257	2.08	2.731	0	10
ch lit reading59	Reading	2266	7.228	8.133	0	57
ch lit reading1017	Reading	2411	8.483	11.942	0	70
ch lit reacompr	Reading Compreh	4677	.648	1.256	0	4
ch lit phono	Phonics	4747	1.27	1.273	0	3
lit mid total 59	Total 5-9	2266	14.256	12.72	0	76
lit mid total 1017	Total 10-17	2411	27.024	20.501	0	113
per lit mid	% correct	4677	.144	.124	0	.753

Endline Literacy Subscale Total Scores

Variable	Subscales	Obs	Mean	Std. Dev.	Min	Max
ch lit spell	Spelling	4338	2.283	2.907	0	10
ch lit reading59	Reading	1704	1.084	4.805	0	57
ch lit reading1117	Reading	3019	6.232	11.261	0	70
ch lit reacompr	Reading Compreh	4740	.689	1.315	0	4
ch lit phono	Phonics	4740	1.37	1.28	0	3
lit end 59	Total 5-9	1704	9.423	11.261	0	84
lit end 1017	Total 10-17	3019	26.285	22.808	0	104
per lit end	% correct	4723	.137	.141	0	.693



Numeracy

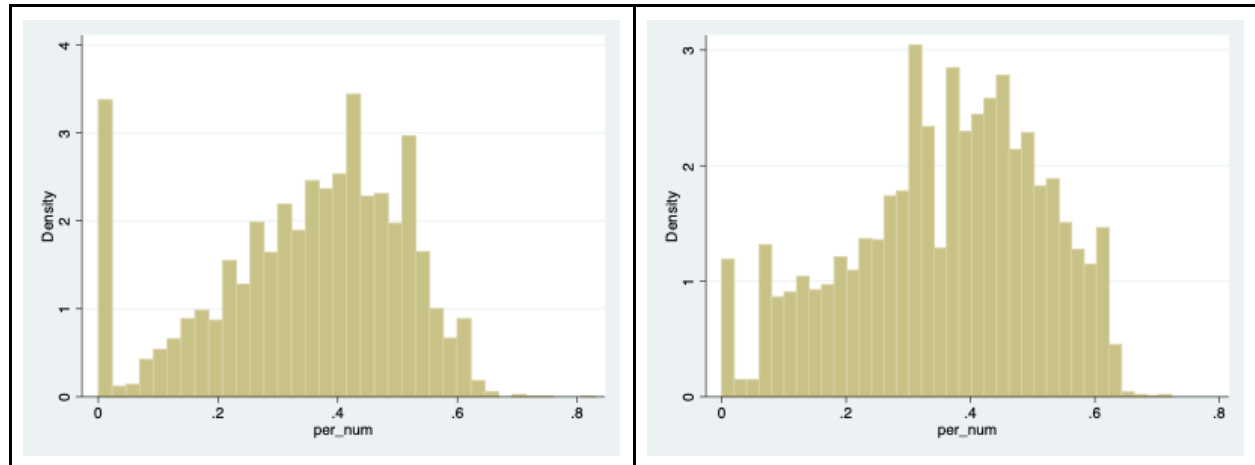
Midline Numeracy Total Scores

Variable		Obs	Mean	Std. Dev.	Min	Max
ch num count	Counting	4747	3.159	4.501	0	20
ch num discr	Number Discrimination	4747	4.553	2.441	0	7
ch num miss	Missing Numbers	4747	1.662	1.512	0	5
ch num ordering	Number Ordering	4747	2.083	2.669	0	6
ch num wordprob	Word Problems	4747	2.873	1.721	0	5
ch num addition	Addition	4747	1.37	1.453	0	4
ch num subtr	Subtraction	4747	.902	.898	0	3
ch num multip	Multiplication	4747	.382	.611	0	2
ch num59	5-9 yo numeracy total	2266	15.568	7.055	0	35
ch num1017	10-17 year old numeracy total	2411	19.316	8.985	0	44
per num	Composite score	4677	.348	.161	0	.83

Endline Numeracy Total Scores

Variable		Obs	Mean	Std. Dev.	Min	Max
ch num count	Counting	4740	3.442	4.499	0	20
ch num discr	Number Discrimination	4740	4.502	2.455	0	7
ch num miss	Missing Numbers	4740	1.878	1.645	0	5
ch num ordering	Number Ordering	4740	2.32	2.734	0	6
ch num wordprob	Word Problems	4740	3.171	1.653	0	5
ch num addition	Addition	4740	1.493	1.508	0	4
ch num subtr	Subtraction	4740	.969	.949	0	3
ch num multip	Multiplication	4740	.422	.638	0	2
ch num59	5-9 yo numeracy total	1704	15.797	6.763	0	34

ch num1017	10-17 year old numeracy total	3019	19.748	8.4	0	35
per num	Composite score	4723	.359	.154	0	.723



Executive Function

Midline Working Memory. Alpha= .70

Variable		Obs	Mean	Std. Dev.	Min	Max
ch wm1	(backward counting tasks)	2853	.904	.295	0	1
ch wm2		2854	.901	.299	0	1
ch wm3		2626	.554	.497	0	1
ch wm4		2626	.558	.497	0	1
ch wm5		1775	.345	.475	0	1
ch wm6		1775	.305	.461	0	1
ch wm7		626	.348	.477	0	1
ch wm8		624	.345	.476	0	1
ch wm9		615	.255	.436	0	1
ch wm10		612	.245	.43	0	1
ch wm59		2266	1.009	1.598	0	6
ch wm1017		2411	3.183	2.544	0	10

Endline Working Memory. Alpha = .71

Variable		Obs	Mean	Std. Dev.	Min	Max
ch wm1	(backward counting task–repeat numbers backwards)	2853	.904	.295	0	1
ch wm2		2854	.901	.299	0	1
ch wm3		2626	.554	.497	0	1
ch wm4		2626	.558	.497	0	1
ch wm5		1775	.345	.475	0	1

ch wm6	1775	.305	.461	0	1
ch wm7	626	.348	.477	0	1
ch wm8	624	.345	.476	0	1
ch wm9	615	.255	.436	0	1
ch wm10	612	.245	.43	0	1
ch wm59	2266	1.009	1.598	0	6
ch wm1017	2411	3.183	2.544	0	10

Midline Short-term memory. Alpha = .70

Variable	Obs	Mean	Std. Dev.	Min	Max
ch sm1 (Forward counting task—repeat numbers in the same order)	4228	.973	.163	0	1
ch sm2	4213	.921	.269	0	1
ch sm3	4207	.751	.432	0	1
ch sm4	4169	.519	.5	0	1
ch sm5	4105	.232	.422	0	1
ch sm6	2002	.178	.382	0	1
ch sm7	1986	.077	.266	0	1
ch sm59	2266	2.515	1.578	0	5
ch sm1017	2411	3.756	1.548	0	7

Endline Short-term memory. Alpha = .69

Variable	Obs	Mean	Std. Dev.	Min	Max
ch sm1 (Forward counting task—repeat numbers in the same order)	4453	.985	.12	0	1
ch sm2	4446	.934	.249	0	1
ch sm3	4433	.756	.429	0	1
ch sm4	4389	.504	.5	0	1
ch sm5	4293	.213	.41	0	1
ch sm6	2029	.169	.375	0	1
ch sm7	1968	.064	.244	0	1
ch sm59	1704	2.866	1.375	0	5
ch sm1017	3019	3.481	1.574	0	7

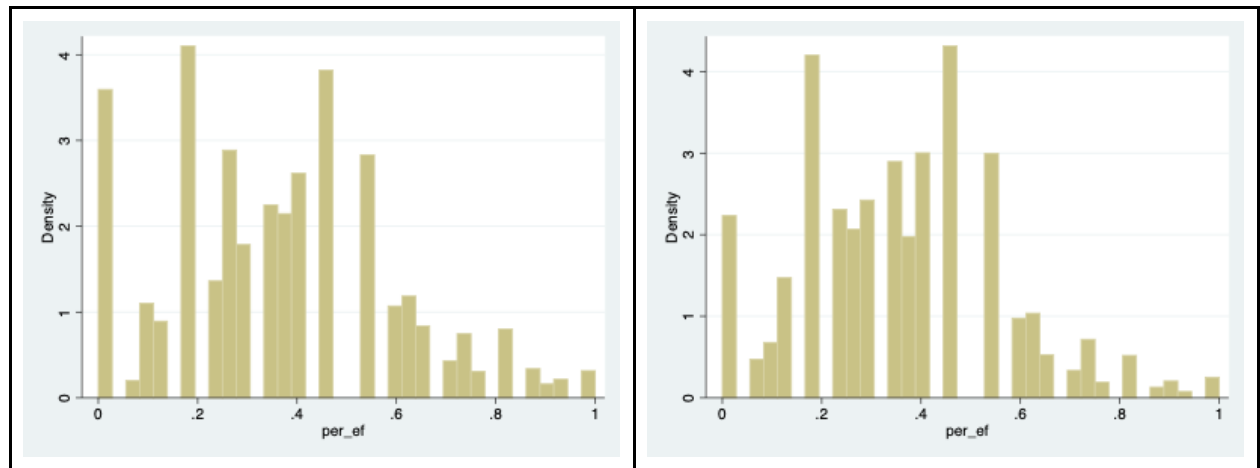
Midline Executive Function Composites

Variable	Obs	Mean	Std. Dev.	Min	Max
ch ef59 Total 5-9yo	2266	3.524	2.63	0	11
ch ef1017 Total 10-17yo	2411	6.939	3.534	0	17
per ef Composite Score	4677	.366	.228	0	1

Endline Executive Function Composites

Variable	Obs	Mean	Std. Dev.	Min	Max
ch ef59 Total 5-9yo	1704	4.107	2.459	0	11
ch ef1017 Total 10-17yo	3019	5.984	3.25	0	17

per_ef	Composite Score	4723	.36	.204	0	1
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Gender Bias (pro-boy bias)

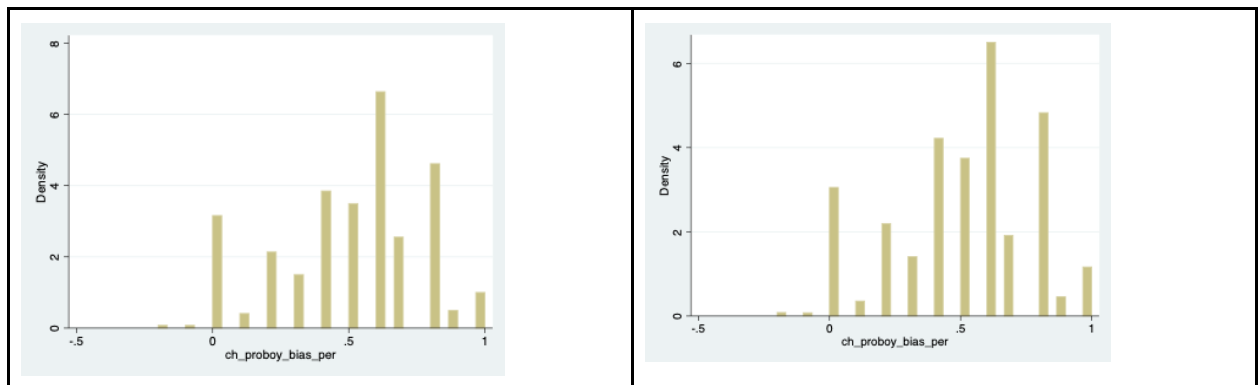
Midline Gender Bias (Child-reported pro-boy bias)

Variable		Obs	Mean	Std. Dev.	Min	Max
ch_gb1	Who do you think is more gifted/better in math?	4160	.242	.845	-1	1
ch_gb2	Who do you think are more gifted/better in English reading?	4213	-.063	.868	-1	1
ch_gb3	To what extent do you agree or disagree with the following statements?	4159	2.838	.878	1	4
ch_gb4	Studying math is more important for the career of a boy than for a girl.	4182	2.708	.891	1	4
ch_proboy bias	Total pro-boy bias	4747	5.028	2.66	-2	10
ch_proboy bias_per	Pro-boy bias score	4747	.503	.266	-.2	1

Endline Gender Bias (Child-reported pro-boy bias)

Variable	Obs	Mean	Std. Dev.	Min	Max
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ch gb1	Who do you think is more gifted/better in math?	4275	.258	.83	-1	1
ch gb2	Who do you think are more gifted/better in English reading?	4296	-.055	.859	-1	1
ch gb3	To what extent do you agree or disagree with the following statements?	4209	2.784	.861	1	4
ch gb4	Studying math is more important for the career of a boy than for a girl.	4224	2.673	.885	1	4
ch proboy bias	Total pro-boy bias	4740	5.037	2.661	-2	10
ch proboy bias per	Pro-boy bias score	4740	.504	.266	-.2	1



Time Use

Midline Time Use

Variable		Obs	Mean	Std. Dev.	Min	Max
ch hrs sleep	First, how many hours do you spend sleeping in a typical night?	2146	8.511	1.833	0	14
ch tu2	Care for others (e.g. younger siblings, elderly)	2090	1.526	1.279	0	6
ch tu3	Household chores (fetching water, firewood, cleaning, cooking, washing, shopping)	2135	2.119	1.335	0	10

ch tu4	Work on the farm, cattle herding (keeping), or other family business	2102	1.909	1.691	0	10
ch tu5	Work for pay or for money	2072	.608	1.19	0	10
ch hrs school	At school (including travelling)	2130	5.958	2.278	0	12
ch hrs study	Studying outside of school time (at home, extra classes)	2135	1.591	1.165	0	12
ch hrs play	General leisure (e.g. playing, seeing friends, using the internet, etc)	2102	2.204	1.37	0	9
ch hrs housework	Total hours work inside of home (tu + t3)	2144	3.598	2.165	0	12
ch hrs work	Total work (t4 + t5)	2147	3.969	2.181	0	13

Endline Time Use

Variable		Obs	Mean	Std. Dev.	Min	Max
ch hrs sleep	First, how many hours do you spend sleeping in a typical night?	2175	7.878	1.804	0	13
ch tu2	Care for others (e.g. younger siblings, elderly)	2161	1.462	1.255	0	11
ch tu3	Household chores (fetching water, firewood, cleaning, cooking, washing, shopping)	2172	2.135	1.297	0	10
ch tu4	Work on the farm, cattle herding (keeping), or other family business	2161	2.415	1.81	0	16
ch tu5	Work for pay or for money	2144	.794	1.368	0	10
ch hrs school	At school (including travelling)	2167	5.918	2.417	0	12
ch hrs study	Studying outside of school time (at home, extra classes)	2170	1.581	1.118	0	8
ch hrs play	General leisure (e.g. playing, seeing friends, using the internet, etc)	2159	2.23	1.291	0	10
ch hrs housework	Total hours work inside of home (tu + t3)	2172	3.572	2.079	0	15
ch hrs work	Total work (t4 + t5)	2172	4.523	2.266	0	15

Well-being (physical)

Midline Child Well-Being (Physical)

Variable		Obs	Mean	Std. Dev.	Min	Max
ch cw1	In general would you say your health is...(likert)	2138	4.396	.846	1	5
ch cw2	Compared with other children of the same age, would you say your health is...	2110	4.236	.917	1	5

Midline Child Well-Being (Physical)

Variable		Obs	Mean	Std. Dev.	Min	Max
ch cw1	In general would you say your health is...(likert)	2151	4.341	.817	1	5
ch cw2	Compared with other children of the same age, would you say your health is...	2126	4.116	.903	1	5

Child-reported Caregiver Engagement (cog stim)

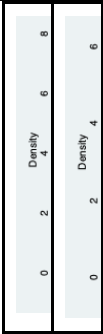
Caregiver Engagement. Alpha - .82

Variable		Obs	Mean	Std. Dev.	Min	Max
ch ce1	Read books or looked at pictures with you?	4638	.498	.5	0	1
ch ce2	Told stories to you?	4635	.386	.487	0	1
ch ce3	Sang songs to or with you?	4639	.304	.46	0	1
ch ce4	Taken you outside of the home? For example, to the market, to events	4640	.324	.468	0	1
ch ce5		4640	.497	.5	0	1
ch ce6	Played with you?	4637	.244	.43	0	1
ch ce7	Named, counted, or drew things with you?	2351	.626	.484	0	1
ch ce8	Discussed with you how to manage time?	2345	.536	.499	0	1
ch ce9	Talked with you about the family/community's history / heritage?	2346	.644	.479	0	1

ch ce10	Discussed plans for future education / educational or career aspirations with you?	2345	.461	.499	0	1
ch eng59	Total children 5-9	4747	2.202	1.849	0	6
ch eng1017	Total children 10-17	4747	3.323	2.747	0	10
ch eng per	Composite Score	4677	.406	.312	0	1

Caregiver Engagement. Alpha = .84

Variable		Obs	Mean	Std. Dev.	Min	Max
ch ce1	Read books or looked at pictures with you?	4603	.552	.497	0	1
ch ce2	Told stories to you?	4603	.485	.5	0	1
ch ce3	Sang songs to or with you?	4599	.396	.489	0	1
ch ce4	Taken you outside of the home? For example, to the market, to events	4604	.406	.491	0	1
ch ce5		4609	.575	.494	0	1
ch ce6	Played with you?	4605	.345	.476	0	1
ch ce7	Named, counted, or drew things with you?	2354	.692	.462	0	1
ch ce8	Discussed with you how to manage time?	2351	.578	.494	0	1
ch ce9	Talked with you about the family/community's history / heritage?	2360	.692	.462	0	1
ch ce10	Discussed plans for future education / educational or career aspirations with you?	2355	.497	.5	0	1
ch eng59	Total children 5-9	1704	2.678	2.14	0	6
ch eng1017	Total children 10-17	3019	4.425	3.017	0	10
ch eng per	Composite Score	3860	.472	.3300	0	1



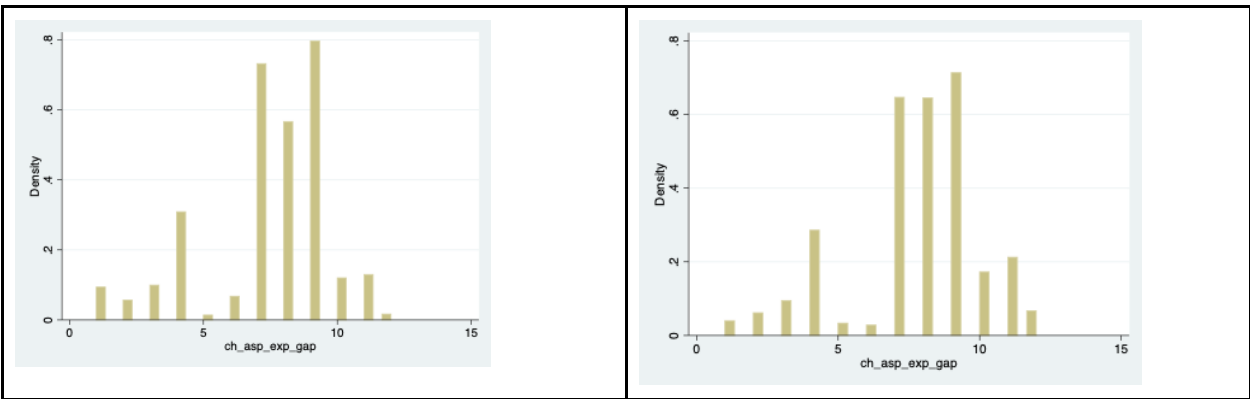
Education Aspirations and Expectations

Midline Education Expectations and Aspirations

Variable		Obs	Mean	Std. Dev.	Min	Max
ch asp edu	Child education aspirations	2252	8.139	2.444	1	13
ch expects edu	Child education expectations	2248	.94	.237	0	1
ch asp exp gap	Gap aspirations- expectations	2177	7.286	2.335	1	12

Endline Education Expectations and Aspirations

Variable		Obs	Mean	Std. Dev.	Min	Max
ch asp edu	Child education aspirations	2284	8.408	2.458	1	13
ch expects edu	Child education expectations	2427	.857	.35	0	1
ch asp exp gap	Gap aspirations- expectations	2246	7.631	2.321	1	12



Motivation

These scales have an 2 factor external and internal motivation structure, but it needs to be validated. Quite skewed.

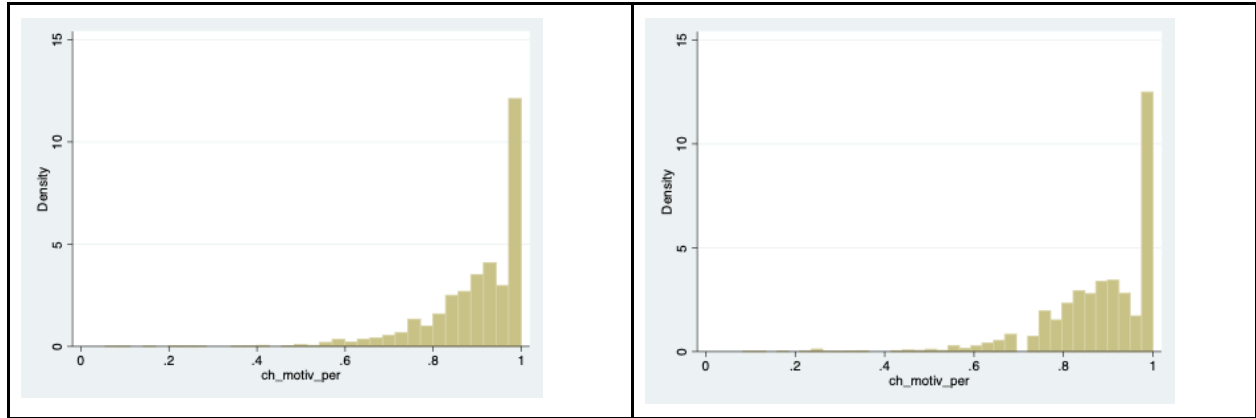
Midline Motivation. Alpha= .79

Variable		Obs	Mean	Std. Dev.	Min	Max
ch mo1	I like going to school.	2145	3.789	.468	1	4
ch mo2	Going to school interests me a lot.	2149	3.732	.523	1	4
ch mo3	I would go to school even if I were not obliged to do so.	2147	3.457	.852	1	4
ch mo4	Going to school allows me to learn many useful things.	2147	3.678	.538	1	4
ch mo5	I choose to go to school to learn many things.	2147	3.68	.573	1	4
ch mo6	In life, it's important to go to school.	2144	3.721	.532	1	4
ch mo7	I study to get a nice reward.	2142	3.528	.785	1	4
ch mo8	I study to please my parents or my teacher.	2143	3.414	.888	1	4
ch mo9	I study to show others how good I am.	2136	3.224	1.021	1	4
ch motiv	Total motivation	2153	32.097	4.199	2	36
ch motiv per	Composite Score	2153	.892	.117	.056	1

Endline Motivation. Alpha = .84

Variable		Obs	Mean	Std. Dev.	Min	Max
ch mo1	I like going to school.	4098	3.732	.555	1	4
ch mo2	Going to school interests me a lot.	4118	3.677	.574	1	4
ch mo3	I would go to school even if I were not obliged to do so.	4093	3.549	.721	1	4
ch mo4	Going to school allows me to learn many useful things.	4101	3.64	.594	1	4
ch mo5	I choose to go to school to learn many things.	4101	3.621	.609	1	4
ch mo6	In life, it's important to go to school.	4095	3.657	.602	1	4
ch mo7	I study to get a nice reward.	4098	3.505	.741	1	4
ch mo8	I study to please my parents or my teacher.	4101	3.405	.839	1	4
ch mo9	I study to show others how good I am.	4093	3.325	.907	1	4

ch motiv	I like going to school.	4133	31.855	4.52	3	36
ch motiv per	Going to school interests me a lot.	4,133	.8849	.126	.083	1



Self-Esteem

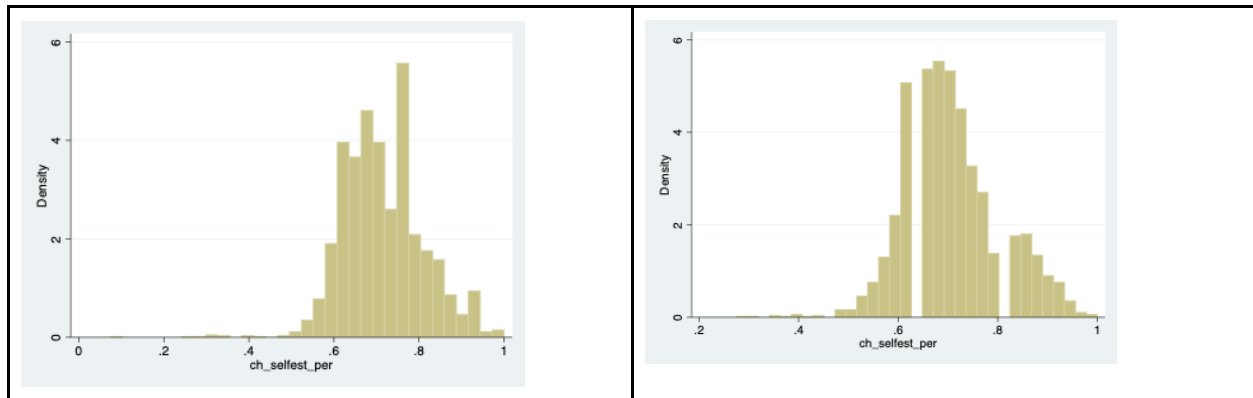
Midline Self-Esteem. Alpha= .65

Variable		Obs	Mean	Std. Dev.	Min	Max
ch se1	On the whole, I am satisfied with myself.	2145	3.371	.63	1	4
ch se2	At times I think I am no good at all.	2139	2.497	1.003	1	4
ch se3	I feel that I have a number of good qualities.	2141	3.349	.609	1	4
ch se4	I am able to do things as well as most other people.	2140	3.235	.665	1	4
ch se5	I feel I do not have much to be proud of.	2143	2.318	.98	1	4
ch se6	I certainly feel useless at times.	2142	2.873	.999	1	4
ch se7	I feel that I'm a person of worth, at least on an equal plane with others.	2140	3.116	.77	1	4
ch se8	I wish I could have more respect for myself.	2146	1.86	.748	1	4
ch se9	All in all, I am inclined to feel that I am a failure.	2143	2.797	1.036	1	4

ch se10	I take a positive attitude toward myself.	2142	3.37	.611	1	4
ch selfest	Total self-esteem	2153	28.638	3.793	3	40
ch selfest per	Composite Score	2153	.716	.095	.075	1

Endline Self-Esteem. Alpha = .64

Variable		Obs	Mean	Std. Dev.	Min	Max
ch se1	On the whole, I am satisfied with myself.	2168	3.275	.732	1	4
ch se2	At times I think I am no good at all.	2160	2.446	.972	1	4
ch se3	I feel that I have a number of good qualities.	2162	3.24	.722	1	4
ch se4	I am able to do things as well as most other people.	2162	3.144	.704	1	4
ch se5	I feel I do not have much to be proud of.	2160	2.309	.946	1	4
ch se6	I certainly feel useless at times.	2161	2.871	1.012	1	4
ch se7	I feel that I'm a person of worth, at least on an equal plane with others.	2163	3.039	.767	1	4
ch se8	I wish I could have more respect for myself.	2163	1.933	.811	1	4
ch se9	All in all, I am inclined to feel that I am a failure.	2161	2.828	1.037	1	4
ch se10	I take a positive attitude toward myself.	2162	3.323	.658	1	4
ch selfest	Total self-esteem	2172	28.282	3.822	11	40
ch selfest per	Composite Score	2172	.707	.096	.275	1



Food Insecurity

Midline Food Insecurity. Alpha = .91

Variable		Obs	Mean	Std. Dev.	Min	Max
ch fs1	Did you worry that food at home would run out before your family was able to get more?	4487	.55	.702	0	2
ch fs2	Did you worry about how hard it is for your parents/guardians to get enough food for your family?	4468	.609	.739	0	2
ch fs3	Were you not able to get the food you wanted because there wasn't enough money?	4484	.706	.744	0	2
ch fs4	Has the size of your meal been cut because your family didn't have enough food?	4466	.57	.707	0	2
ch fs5	Were you hungry but didn't eat because your family didn't have enough food?	4486	.519	.697	0	2
ch fs6	Did you skip meal because your family didn't have enough food?	4503	.512	.685	0	2
ch fs7	Did you feel tired or weak because your family didn't have enough food to eat?	4490	.462	.663	0	2
ch fs8	Did you feel ashamed because your family didn't have enough food?	4436	.426	.659	0	2
ch fs9	Did you feel sad because your family didn't have enough food?	4420	.425	.66	0	2

ch fs10	Did you feel ashamed about any of the things you or your family had to do to get enough food?	4447	.412	.659	0	2
ch fies	Total FIS	4613	5.031	5.059	0	20

Endline Food Insecurity. Alpha = .92

Variable		Obs	Mean	Std. Dev.	Min	Max
ch fs1	Did you worry that food at home would run out before your family was able to get more?	4522	.653	.67	0	2
ch fs2	Did you worry about how hard it is for your parents/guardians to get enough food for your family?	4521	.666	.676	0	2
ch fs3	Were you not able to get the food you wanted because there wasn't enough money?	4483	.709	.693	0	2
ch fs4	Has the size of your meal been cut because your family didn't have enough food?	4512	.634	.678	0	2
ch fs5	Were you hungry but didn't eat because your family didn't have enough food?	4525	.562	.665	0	2
ch fs6	Did you skip meal because your family didn't have enough food?	4551	.56	.641	0	2
ch fs7	Did you feel tired or weak because your family didn't have enough food to eat?	4533	.506	.648	0	2
ch fs8	Did you feel ashamed because your family didn't have enough food?	4500	.44	.638	0	2
ch fs9	Did you feel sad because your family didn't have enough food?	4467	.443	.638	0	2
ch fs10	Did you feel ashamed about any of the things you or your family had to do to get enough food?	4487	.404	.618	0	2
ch fies	Total FIS	4604	5.465	4.95	0	20

Correlation Matrix–Child Level

Child Midline **Pairwise correlations**

Variables	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
(1) cg_childage	1.000																
(2) male	0.037**	1.000															
(3) ch_ed3	0.837***	0.001	1.000														
(4) ch_se_cr	0.240***	-0.028*	0.259***	1.000													
(5) ch_se_rel	0.142***	-0.010	0.200***	0.137***	1.000												
(6) per_lit_mid	0.348***	0.015	0.462***	0.142***	0.220***	1.000											
(7) per_num	0.182***	-0.010	0.383***	0.157***	0.304***	0.501***	1.000										
(8) per_ef	0.297***	0.010	0.452***	0.188***	0.249***	0.401***	0.453***	1.000									
(9) ch_proboy_bias~r	0.057***	0.208***	0.047***	-0.095***	0.056***	0.061***	0.062***	0.029**	1.000								
(10) ch_hrs_housew~k	0.004	-0.276***	0.018	0.020	0.052**	-0.082***	-0.083***	0.023	-0.070***	1.000							
(11) ch_hrs_work	-0.002	-0.029	-0.003	0.026	0.072***	-0.134***	-0.092***	0.037*	0.033	0.566***	1.000						
(12) ch_hrs_play	-0.106***	0.117***	-0.169***	-0.019	-0.048**	-0.075***	-0.115***	-0.066***	0.057***	-0.140***	-0.089***	1.000					
(13) ch_eng_per	0.144***	-0.025*	0.215***	0.078***	0.336***	0.253***	0.241***	0.197***	0.052***	0.151***	0.050**	-0.134***	1.000				
(14) ch_asp_exp_gap	0.149***	0.032	0.227***	0.242***	0.130***	0.245***	0.294***	0.199***	-0.147***	-0.090***	-0.149***	-0.105***	0.103**	1.000			
(15) ch_motiv_per	-0.055**	-0.015	0.046**	-0.003	0.058***	0.088***	0.227***	0.120***	0.067***	-0.057***	-0.050**	0.001	-0.040*	0.128*	1.000		
(16) ch_selfest_per	0.060***	0.046**	0.084***	0.091***	0.150***	0.097***	0.186***	0.069***	-0.022	-0.153***	-0.094***	-0.051**	0.063**	0.170*	0.162***	1.000	
(17) ch_fies	0.160***	0.002	0.149***	0.084***	0.128***	0.052***	0.021	0.062***	0.034**	0.026	-0.012	-0.164***	0.188**	0.027	-0.116***	-0.054**	1

*** $p < 0.01$, ** $p < 0.05$, * $p < 0.1$

Endline Pairwise correlations

Variables	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
(1) ch_se_cr	1.000													
(2) ch_se_rel	0.077***	1.000												
(3) per_lit_mid			1.000											
(4) per_num	0.158***	0.234***		1.000										
(5) per_ef	0.148***	0.237***	0.554***		1.000									
(6) ch_probey_bias~r	-0.053***	-0.009	0.105***	0.075***		1.000								
(7) ch_hrs_housework	0.023	0.094***	-0.079***	-0.026	-0.023		1.000							
(8) ch_hrs_work	0.031	0.063***	-0.137***	-0.028	0.001	0.563***		1.000						
(9) ch_hrs_play	0.038*	-0.042*	-0.135***	-0.098***	0.001	-0.178***	-0.129***		1.000					
(10) ch_eng_per	0.066***	0.367***	0.286***	0.287***	0.114***	0.105***	0.050**	-0.094***		1.000				
(11) ch_asp_exp_gap	0.065***	0.086***	0.249***	0.120***	-0.187***	-0.108***	-0.142***	-0.093***	0.119***		1.000			
(12) ch_motiv_per	0.019	0.116***	0.134***	0.110***	0.054***	-0.118***	-0.130***	-0.018	0.007	0.072***		1.000		
(13) ch_selfest_per	0.035*	0.034	0.203***	0.161***	-0.017	-0.190***	-0.131***	0.082***	-0.092***	0.110***	0.333***		1.000	
(14) ch_fies	-0.005	0.044***	0.030**	0.012	0.074***	0.010	0.021	-0.116***	0.137***	0.118***	-0.017	-0.165***		1.000

*** $p < 0.01$, ** $p < 0.05$, * $p < 0.1$