

[illegible]

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Supplementary Material 2.

Demographic Characteristics of Respondents

Name of the Group			Type of Porridge			Sex of Respondent		
	Frequency	Percent		Frequency	Percent		Frequency	Percent
Kiptaruswo	89	59.7	Family	44	29.9	Female	103	69.1
Kapkerel	60	40.3	School children	105	70.5	Male	46	30.9
Total	149	100.0	Total	149	100	Total	149	100
Level of Education			Age of respondents					
Primary school dropout	12	8.1	11 to 20	115	77.2			
primary continuing	106	71.1	21-30	6	4.0			
Completed primary	3	2.0	31-40	11	7.4			
Continuing secondary	10	6.7	41-50	7	4.7			
Completed secondary	8	5.4	51-60	7	4.7			
secondary school drop out	2	1.3	>60	3	2.0			
tertiary level	8	5.4	Total	149	100.0			
Total	149	100.0						

Supplementary Material 3:

RANKING (%) OF PORRIDGES' SENSORY ATTRIBUTES

Sensory Attributes Ranking (%)	Color			Smell			Taste			Texture			Viscosity			Acceptance		
	Most	Moderate	Least	Most	Moderate	Least	Most	Moderate	Least	Most	Moderate	Least	Most	Moderate	Least	Most	Moderate	Least
Kapkerer's Children Porridge																		
B: Initial formulation	20	42.5	37.5	27.5	20	52.5	22.5	30	47.5	25	20	55	35	20	45	25	27.5	47.5
E: New formulation	40	20	40	45	37.5	17.5	47.5	37.5	15	32.5	52.5	15	45	42.5	12.5	47.5	40	12.5
F: New Formulation	40	37.5	22.5	27.5	42.5	30	30	32.5	37.5	42.5	27.5	30	20	37.5	42.5	27.5	32.5	40
Kiptaruswo's Children Porridge																		
A: Initial Formulation	10.8	10.8	78.5	13.8	15.4	70.8	18.5	13.8	67.7	12.3	9.2	78.5	35.4	9.2	55.3	16.9	12.3	70.3
C: New Formulation	44.6	38.5	16.9	33.8	44.6	21.5	40	40	20	47.7	40	12.3	29.2	44.6	26.2	46.2	35.4	18.9
D: New Formulation	44.6	50.7	4.6	52.4	40	7.7	41.5	46.2	12.3	40	50.8	9.2	35.4	46.2	18.5	36.9	52.3	10.8
Kapkerer's Family Porridge																		
B: Initial formulation	60	10	30	35	20	45	30	10	60	55	10	30	25	15	60	30	20	50
I: new Formulation	20	35	45	40	30	30	45	30	25	30	30	45	40	35	25	35	35	30
J: New Formulation	20	55	25	25	50	25	25	60	15	15	60	25	35	50	15	35	45	20
Kiptaruswo's Family Porridge																		
A: Initial formulation	12.5	8.3	79.2	8.3	20.8	70.8	8.3	12.5	79.2	4.2	29.2	66.7	16.7	12.5	75	8.3	25	66.7
G: New Formulation	33.3	58.3	8.3	41.7	45.8	12.5	45.8	45.8	8.3	37.5	50	12.5	37.5	41.7	16.7	37.5	45.8	20.8
H: New Formulation	54.2	33.3	12.5	40	33.3	16.7	45.8	41.7	12.5	58.3	20.8	20.8	45.8	45.8	8.3	54.2	29.2	12.5

Supplementary Material 4

Reasons for Liking/ Disliking a Porridge and Most Valued Characteristic of Porridge

	Reasons for Liking Porridge		Reasons for Disliking Porridge		Most valued Attributes	
	Frequency	Percentage	Frequency	Percentage	Frequency	Percentage
Nutrition					4	2.7
Color	16	10.7	18	12.1	8	5.4
Taste	58	38.9	40	26.8	118	79.2
Smell	21	14.1	14	9.4	13	8.7
Texture	28	18.8	48	32.2	4	2.7
Viscosity	26	17.4	29	19.5	2	1.3
Total	149	100	149	100	149	100.0

Supplementary material 5: Correlation between Most Acceptable Porridge and Most Liked Sensory Attributes

Table 1: Kiptaruswo’s Children Porridge

		Correlations					
		Kipchildren most acceptable	Kipchildren most preferred color	Kipchildren most preferred smell	Kipchildren most preferred taste	Kipchildren most preferred texture	Kipchildren most preferred viscosity
Kipchildren most acceptable	Pearson Correlation	1	.414**	.730**	.560**	.502**	.440**
	Sig. (2-tailed)		.001	.000	.000	.000	.000
	N	65	65	65	65	65	65
Kipchildren most preferred color	Pearson Correlation	.414**	1	.406**	.343**	.032	.331**
	Sig. (2-tailed)	.001		.001	.005	.803	.007
	N	65	65	65	65	65	65
Kipchildren most preferred smell	Pearson Correlation	.730**	.406**	1	.587**	.292*	.332**
	Sig. (2-tailed)	.000	.001		.000	.018	.007
	N	65	65	65	65	65	65
Kipchildren most preferred taste	Pearson Correlation	.560**	.343**	.587**	1	.213	.371**
	Sig. (2-tailed)	.000	.005	.000		.088	.002
	N	65	65	65	65	65	65
Kipchildren most preferred texture	Pearson Correlation	.502**	.032	.292*	.213	1	.246*
	Sig. (2-tailed)	.000	.803	.018	.088		.048
	N	65	65	65	65	65	65
Kipchildren most preferred viscosity	Pearson Correlation	.440**	.331**	.332**	.371**	.246*	1
	Sig. (2-tailed)	.000	.007	.007	.002	.048	
	N	65	65	65	65	65	65

** . Correlation is significant at the 0.01 level (2-tailed).

* . Correlation is significant at the 0.05 level (2-tailed).

Table 2: Kapkerer’s Children Porridge

		Correlations					
		Kapchildren most preferred color	Kapchildren most preferred smell	Kapchildren most preferred taste	Kapchildren most preferred texture	Kapchildren most preferred viscosity	Kapchildren most acceptable
Kapchildren most preferred color	Pearson Correlation	1	.270	.389*	.400*	.285	.498**
	Sig. (2-tailed)		.092	.013	.011	.074	.001
	N	40	40	40	40	40	40
Kapchildren most preferred smell	Pearson Correlation	.270	1	.515**	.420**	.232	.419**
	Sig. (2-tailed)	.092		.001	.007	.150	.007
	N	40	40	40	40	40	40
Kapchildren most preferred taste	Pearson Correlation	.389*	.515**	1	.453**	.213	.571**
	Sig. (2-tailed)	.013	.001		.003	.188	.000
	N	40	40	40	40	40	40
Kapchildren most preferred texture	Pearson Correlation	.400*	.420**	.453**	1	.217	.681**
	Sig. (2-tailed)	.011	.007	.003		.180	.000
	N	40	40	40	40	40	40
Kapchildren most preferred viscosity	Pearson Correlation	.285	.232	.213	.217	1	.245
	Sig. (2-tailed)	.074	.150	.188	.180		.128
	N	40	40	40	40	40	40
Kapchildren most acceptable	Pearson Correlation	.498**	.419**	.571**	.681**	.245	1
	Sig. (2-tailed)	.001	.007	.000	.000	.128	
	N	40	40	40	40	40	40

*. Correlation is significant at the 0.05 level (2-tailed).

**. Correlation is significant at the 0.01 level (2-tailed).

Table 3: Kapkerer's Family Porridge

		Correlations					
		kapfam most acceptable	Kapfam most preferred color	Kapfam most preferred smell	kapfam most preferred taste	kapfam most preferred texture	kapfam most preferred viscosity
kapfam most acceptable	Pearson Correlation	1	.031	.413	.508*	.203	.235
	Sig. (2-tailed)		.897	.071	.022	.391	.319
	N	20	20	20	20	20	20
Kapfam most preferred color	Pearson Correlation	.031	1	-.228	.135	-.102	.472*
	Sig. (2-tailed)	.897		.334	.570	.669	.036
	N	20	20	20	20	20	20
Kapfam most preferred smell	Pearson Correlation	.413	-.228	1	.255	.018	.271
	Sig. (2-tailed)	.071	.334		.278	.941	.247
	N	20	20	20	20	20	20
kapfam most preferred taste	Pearson Correlation	.508*	.135	.255	1	.147	.185
	Sig. (2-tailed)	.022	.570	.278		.536	.436
	N	20	20	20	20	20	20
kapfam most preferred texture	Pearson Correlation	.203	-.102	.018	.147	1	-.018
	Sig. (2-tailed)	.391	.669	.941	.536		.941
	N	20	20	20	20	20	20
kapfam most preferred viscosity	Pearson Correlation	.235	.472*	.271	.185	-.018	1
	Sig. (2-tailed)	.319	.036	.247	.436	.941	
	N	20	20	20	20	20	20

*. Correlation is significant at the 0.05 level (2-tailed).

Table 4: Kiptaruswo’s Family Porridge

		kipfam most acceptable	Kipfam most preferred color	Kipfam most preferred smell	kipfam most preferred taste	kipfam most preferred texture	kipfam most preferred viscosity
kipfam most acceptable	Pearson Correlation	1	.775**	.851**	.702**	.342	.598**
	Sig. (2-tailed)		.000	.000	.000	.102	.002
	N	24	24	24	24	24	24
Kipfam most preferred color	Pearson Correlation	.775**	1	.633**	.679**	.266	.411*
	Sig. (2-tailed)	.000		.001	.000	.209	.046
	N	24	24	24	24	24	24
Kipfam most preferred smell	Pearson Correlation	.851**	.633**	1	.437*	.292	.450*
	Sig. (2-tailed)	.000	.001		.033	.166	.027
	N	24	24	24	24	24	24
kipfam most preferred taste	Pearson Correlation	.702**	.679**	.437*	1	.129	.392
	Sig. (2-tailed)	.000	.000	.033		.549	.058
	N	24	24	24	24	24	24
kipfam most preferred texture	Pearson Correlation	.342	.266	.292	.129	1	.021
	Sig. (2-tailed)	.102	.209	.166	.549		.924
	N	24	24	24	24	24	24
kipfam most preferred viscosity	Pearson Correlation	.598**	.411*	.450*	.392	.021	1
	Sig. (2-tailed)	.002	.046	.027	.058	.924	
	N	24	24	24	24	24	24

** . Correlation is significant at the 0.01 level (2-tailed).

* . Correlation is significant at the 0.05 level (2-tailed).