

## Supplementary Materials

Table S1. Comparison indicators in 2008 and 2021 and their key revision

Indicators	2008	2021	Key revision
Introduction of solid, semi-solid or soft foods 6–8 months (ISSSF)	/	/	Calculation is now based on the food list question rather than the frequency of feeding question
Minimum dietary diversity 6–23 months (MDD)	/	/	Breast milk added as an eighth food group and cut-off for minimum increased to five food groups
Minimum meal frequency 6–23 months (MMF)	/	/	At least one non-milk feeding is required to meet minimum for non-breastfed children while the previous definition allowed children to achieve the minimum with milk feeds only.
Minimum acceptable diet 6–23 months (MAD)	/	/	
Consumption of iron-rich or iron-fortified foods	/	x	
Minimum milk feeding frequency for non-breastfed children 6–23 months (MMFF)	/	/	
Egg and/or flesh food consumption 6–23 months (EFF)	x	/	
Sweet beverage consumption 6–23 months (SwB)	x	/	
Unhealthy food consumption 6–23 months (UFC)	x	/	
Zero vegetable or fruit consumption 6–23 months (ZVF)	x	/	

**Table S2.** Factors associated with complementary feeding indicators in children who lived with their mothers, the univariate logistic regression analysis

	ISSSF		MDD		MMF		MMFF		MAD		EFF		SWB		UFC		ZVF	
	OR	95% CI	OR	95% CI	OR	95% CI	OR	95% CI	OR	95% CI	OR	95% CI	OR	95% CI	OR	95% CI	OR	95% CI
Gender of children (v male)																		
Female	0.59	0.30, 1.16	1.07	0.92, 1.25	0.83	0.60, 1.15	0.82	0.52, 1.28	1.07	0.92, 1.24	0.89	0.69, 1.14	1.08	0.93, 1.26	1.01	0.82, 1.25	0.97	0.80, 1.18
Age of children (months) (v 6-8)																		
9-11			2.33**	1.81, 3.01	4.09**	2.42, 6.91	4.89	0.98, 24.53	2.47**	1.91, 3.19	3.37**	2.38, 4.75	1.31*	1.01, 1.70	1.68*	1.06, 2.65	0.33**	0.24, 0.45
12-17			3.81**	3.01, 4.82	4.40**	2.80, 6.92	1.17	0.46, 2.99	3.26**	2.58, 4.12	7.43**	5.21, 10.59	1.41**	1.12, 1.78	2.52**	1.67, 3.81	0.29**	0.22, 0.38
18-23			3.45**	2.74, 4.33	3.40**	2.26, 5.11	0.50	0.21, 1.19	3.25**	2.59, 4.09	10.80**	7.33, 15.92	1.46**	1.16, 1.84	3.39**	2.25, 5.12	0.26**	0.20, 0.34
Age of mothers or caregivers (years) (v >35)																		
20-35	0.56	0.21, 1.48	0.85	0.70, 1.03	1.05	0.70, 1.57	0.59	0.30, 1.17	0.85	0.70, 1.02	0.80	0.57, 1.11	1.03	0.86, 1.25	1.14	0.87, 1.48	1.00	0.79, 1.28
15-19	1.89	0.21, 16.83	0.93	0.67, 1.30	1.12	0.54, 2.31	0.59	0.21, 1.65	0.92	0.66, 1.29	0.91	0.51, 1.62	0.96	0.69, 1.34	1.10	0.70, 1.74	1.04	0.69, 1.59
Language of mothers or caregivers(v Thai)																		
Non-Thai	1.87	0.56, 6.29	1.09	0.87, 1.37	0.77	0.50, 1.20	0.43**	0.25, 0.76	0.98	0.78, 1.22	1.28	0.85, 1.90	0.74*	0.59, 0.91	0.65**	0.48, 0.87	0.81	0.60, 1.10
Education level of mothers or caregivers (v Kindergarten and Primary)																		
High school and above	1.45	0.61, 3.47	1.52**	1.22, 1.88	1.58*	1.03, 2.41	1.60	0.85, 3.03	1.57**	1.26, 1.95	1.69**	1.21, 2.35	1.61**	1.30, 2.01	1.08	0.80, 1.47	0.62**	0.47, 0.80
Wealth index quintiles (v poorest)																		
Second	2.48	0.83, 7.44	1.34*	1.06, 1.68	1.15	0.69, 1.90	1.43	0.75, 2.74	1.33*	1.06, 1.67	1.14	0.78, 1.67	1.26*	1.01, 1.58	0.92	0.66, 1.30	0.82	0.62, 1.08
Middle	3.17	0.97, 10.33	1.41**	1.12, 1.77	1.22	0.73, 2.03	1.30	0.70, 2.41	1.33*	1.06, 1.67	1.19	0.82, 1.73	1.61**	1.28, 2.01	0.70*	0.50, 0.97	0.66**	0.50, 0.88
Fourth	1.09	0.43, 2.78	1.48**	1.17, 1.87	0.88	0.55, 1.43	2.05*	1.03, 4.06	1.41**	1.12, 1.79	1.15	0.78, 1.68	2.41**	1.88, 3.09	0.58**	0.41, 0.81	0.56**	0.41, 0.75
Richest	0.82	0.32, 2.10	1.97**	1.53, 2.54	1.20	0.70, 2.06	4.18**	1.67, 10.44	2.01**	1.56, 2.59	1.51	0.98, 2.32	1.77**	1.38, 2.27	0.56**	0.39, 0.81	0.44**	0.31, 0.62
Area (v urban)																		
Rural	1.07	0.53, 2.15	1.00	0.85, 1.17	1.04	0.74, 1.46	0.68	0.42, 1.11	1.00	0.85, 1.17	1.05	0.81, 1.37	0.85	0.73, 1.00	1.12	0.90, 1.39	1.11	0.90, 1.36
Region (v Bangkok and Central)																		
North	1.49	0.52, 4.28	0.72*	0.57, 0.90	1.16	0.68, 1.97	0.56	0.30, 1.06	0.66**	0.52, 0.83	1.09	0.76, 1.56	0.65**	0.52, 0.82	0.85	0.60, 1.21	1.04	0.77, 1.41
Northeast	1.50	0.63, 3.55	1.02	0.84, 1.24	0.93	0.61, 1.40	0.91	0.49, 1.68	1.02	0.84, 1.24	1.75**	1.24, 2.45	0.78*	0.64, 0.95	1.17	0.86, 1.59	1.24	0.97, 1.59
South	1.33	0.56, 3.16	1.31*	1.06, 1.60	1.06	0.69, 1.64	0.78	0.42, 1.42	1.20	0.98, 1.46	1.79**	1.27, 2.52	0.86	0.70, 1.05	0.45**	0.35, 0.59	0.85	0.65, 1.11
Current breastfeeding (v No)																		

	ISSF		MDD		MMF		MMFF		MAD		EFF		SWB		UFC		ZVF	
	0.31*	0.13, 0.72	1.00	0.85, 1.17	0.10**	0.07, 0.16			0.76**	0.65, 0.88	0.40**	0.31, 0.52	0.17**	0.15, 0.20	0.75*	0.60, 0.95	1.37**	1.12, 1.67

\*P < 0.05; \*\*P < 0.01, N/A = not available; \*\*\*\*reported receiving any breastmilk in the past 24 hours

ISSF = Introduction of solid, semi-solid or soft foods 6–8 months; MDD = Minimum dietary diversity 6–23 months; MMF = Minimum meal frequency 6–23 months; MMFF = Minimum milk feeding frequency for non-breastfed children 6–23 months; MAD = Minimum acceptable diet 6–23 months; EFF = Egg and/or flesh food consumption 6–23 months; SwB = Sweet beverage consumption 6–23 months; UFC = Unhealthy food consumption 6–23 months; ZVF = Zero vegetable or fruit consumption 6–23 months; OR = Odds ratio; 95%CI = 95% confidence interval

**Table S3.** Factors associated with complementary feeding indicators in children who lived with others, the univariate logistic regression analysis

	ISSF		MDD		MMF		MMFF		MAD		EFF		SWB		UFC		ZVF	
	OR	95% CI	OR	95% CI	OR	95% CI	OR	95% CI	OR	95% CI	OR	95% CI	OR	95% CI	OR	95% CI	OR	95% CI
Gender of children (v male)																		
Female	1.02	0.20, 5.36	1.17	0.90, 1.52	1.08	0.49, 2.36	1.03	0.56, 1.89	1.19	0.92, 1.55	1.10	0.72, 1.69	1.71**	1.23, 2.37	0.79	0.52, 1.22	0.97	0.71, 1.33
Age of children (months) (v 6-8)																		
9-11			3.23**	1.86, 5.60	0.79	0.19, 3.25	0.95	0.30, 3.00	3.75**	2.11, 6.67	3.52**	1.88, 6.60	0.95	0.44, 2.05	1.68	0.47, 6.09	0.50*	0.29, 0.88
12-17			4.25**	2.58, 6.98	10.67*	1.09, 104.00	2.55	0.79, 8.27	4.97**	2.94, 8.42	7.94**	4.33, 14.57	1.04	0.52, 2.09	1.81	0.56, 5.80	0.31**	0.19, 0.51
18-23			4.23**	2.61, 6.85	0.84	0.24, 2.95	0.93	0.34, 2.52	4.68**	2.80, 7.81	13.58**	7.12, 25.89	0.38**	0.20, 0.73	2.61	0.82, 8.33	0.29**	0.18, 0.48
Age of mothers or caregivers (years) (v >35)																		
20-35	N/A		1.34	0.39, 4.56	0.37	0.04, 3.23	0.12*	0.03, 0.53	0.89	0.26, 3.00	0.49	0.10, 2.36	0.59	0.15, 2.29	0.98	0.10, 9.75	1.19	0.31, 4.55
15-19																		
Language of mothers or caregivers(v Thai)																		
Non-Thai	0.48	0.05, 4.32	1.18	0.88, 1.58	1.50	0.66, 3.41	1.06	0.53, 2.09	1.11	0.82, 1.49	0.81	0.49, 1.34	0.77	0.52, 1.12	1.07	0.67, 1.72	0.86	0.61, 1.23
Education level of mothers or caregivers (v Kindergarten and Primary)																		
High school and above	N/A		1.25	0.71, 2.21	0.88	0.22, 3.51	0.77	0.22, 2.64	1.35	0.76, 2.39	1.40	0.50, 3.92	1.03	0.49, 2.20	0.51	0.22, 1.19	0.59	0.29, 1.23

	ISSF		MDD		MMF		MMFF		MAD		EFF		SWB		UFC		ZVF	
Wealth index quintiles (v poorest)																		
Second	1.47	0.12, 17.21	1.67**	1.19, 2.34	1.37	0.48, 3.92	1.09	0.54, 2.22	1.69**	1.20, 2.38	1.16	0.67, 2.00	1.16	0.76, 1.78	1.07	0.59, 1.94	0.73	0.49, 1.08
Middle	1.40	0.12, 16.46	1.57*	1.08, 2.27	0.98	0.34, 2.80	1.97	0.77, 5.06	1.61*	1.10, 2.34	0.97	0.55, 1.72	0.81	0.53, 1.26	0.63	0.35, 1.13	0.61*	0.39, 0.96
Fourth	N/A		1.39	0.91, 2.10	2.04	0.43, 9.60	4.00	0.91, 17.51	1.52	0.99, 2.32	1.90	0.85, 4.24	0.86	0.52, 1.42	0.55	0.29, 1.04	0.62	0.37, 1.04
Richest	0.03*	0.00, 0.55	1.92*	1.03, 3.59	0.54	0.14, 2.06	1.02	0.29, 3.61	1.99*	1.07, 3.70	1.18	0.44, 3.17	1.60	0.69, 3.71	0.93	0.32, 2.71	0.52	0.23, 1.15
Area (v urban)																		
Rural	6.08*	1.10, 33.73	0.95	0.70, 1.29	0.60	0.21, 1.78	0.99	0.48, 2.05	0.98	0.72, 1.34	0.59	0.33, 1.05	0.86	0.59, 1.27	1.09	0.67, 1.78	1.41	0.95, 2.09
Region (v Bangkok and Central)																		
North	0.65	0.06, 7.64	1.13	0.72, 1.78	1.48	0.29, 7.50	1.15	0.39, 3.40	1.16	0.73, 1.86	1.31	0.68, 2.55	1.41	0.80, 2.48	0.67	0.31, 1.46	0.64	0.37, 1.11
Northeast	6.65	0.66, 67.43	1.97**	1.43, 2.70	0.89	0.35, 2.29	1.25	0.60, 2.61	2.15**	1.55, 2.97	2.31**	1.43, 3.73	1.58*	1.08, 2.30	0.71	0.41, 1.22	0.55**	0.38, 0.79
South	0.78	0.07, 8.93	2.95**	1.74, 5.00	2.68	0.32, 22.62	0.99	0.33, 2.94	2.75**	1.63, 4.64	4.55*	1.57, 13.15	1.40	0.78, 2.52	0.52	0.26, 1.07	0.34**	0.17, 0.65
Current breastfeeding (v No)																		
	0.26	0.02, 2.74	0.92	0.41, 2.04	0.06**	0.02, 0.17			0.45	0.19, 1.09	0.36*	0.14, 0.93	0.28**	0.12, 0.61	1.21	0.25, 5.80	1.48	0.61, 3.58

\*P < 0.05; \*\*P < 0.01, N/A = not available; \*\*\*\*reported receiving any breastmilk in the past 24 hours

ISSF = Introduction of solid, semi-solid or soft foods 6–8 months; MDD = Minimum dietary diversity 6–23 months; MMF = Minimum meal frequency 6–23 months; MMFF = Minimum milk feeding frequency for non-breastfed children 6–23 months; MAD = Minimum acceptable diet 6–23 months; EFF = Egg and/or flesh food consumption 6–23 months; SwB = Sweet beverage consumption 6–23 months; UFC = Unhealthy food consumption 6–23 months; ZVF = Zero vegetable or fruit consumption 6–23 months; OR = Odds ratio; 95%CI = 95% confidence interval