

**Table S1:** National, regional, and global prevalence of feeding patterns and malnutrition among under 5 years children.

Countries	Prevalence of infant feeding						Prevalence of malnutrition					References
	EvBF (%)	EBF (%)	BOT (%)	CBF (%)	MixMF (%)	ISSSF (%)	Stunting (%)	Under-weight (%)	Wasting (%)	Overweight (%)	Obesity (%)	
Afghanistan (2018)	NA	57.5	NA	NA	NA	NA	38.2	NA	5.1	4.1	NA	[36]
Afghanistan (2015)	NA	NA	NA	NA	NA	56	NA	NA	NA	NA	NA	[38]
Afghanistan (2014)	NA	NA	NA	NA	NA	NA	NA	NA	28.3	NA	NA	[98]
Afghanistan (UNICEF/WHO/World Bank database, 2000-2020)	NA	In 2018: 57.5	NA	In 2015: 73.8	NA	In 2015: 61	In 2020: 35.1	In 2018: 19.1	In 2018: 5.1	In 2020: 3.9	NA	[35,37,92,99,104, 106]
Bahrain (2009)	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.9	6.5	[107]
Bahrain (UNICEF/WHO/World Bank database, 2000-2020)	NA	NA	NA	NA	NA	NA	In 2020: 5.1	In 1995: 7.6	In 1995: 6.6	In 2020: 6.4	NA	[35,37,92,99,104, 106]
Djibouti (2012)	NA	12.4	NA	NA	NA	NA	33.5	NA	21.5	8.1	NA	[39]

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Countries	Prevalence of infant feeding						Prevalence of malnutrition					References
	EvBF (%)	EBF (%)	BOT (%)	CBF (%)	MixMF (%)	ISSSF (%)	Stunting (%)	Under-weight (%)	Wasting (%)	Overweight (%)	Obesity (%)	
Egypt (2012)	100	29.9	NA	NA	NA	63.6	NA	NA	NA	NA	NA	[28]
Egypt (2010)	95.8	9.7	NA	NA	86.1	NA	NA	NA	NA	NA	NA	[27]
Egypt (2008)	NA	NA	NA	NA	NA	NA	In 2008: 28.9	In 2008: 6	In 2008: 7.2	NA	NA	[100]
Egypt (UNICEF/WHO/World Bank database, 2000-2020)	NA	In 2014: 39.5	NA	In 2014: 50.5	NA	In 2014: 75.2	In 2020: 22.3	In 2014: 7	In 2014: 9.5	In 2020: 17.8	NA	[35,37,92,99,104, 106]
Iran (2018)	NA	NA	NA	NA	NA	NA	8.45	7.63	8.04	1.23	NA	[102]
Iran (2014-2015)	98.6	At discharge: 74.3 At 6m: 28	NA	NA	At discharge: 23 At 6m: 87	NA	NA	NA	NA	NA	NA	[46]
Iran (2011)	NA	NA	NA	NA	NA	NA	7.3	2.3	1.4	5.1	1.3	[108]
Iran (2010)	NA	53.1	NA	Up to 1y: 84.2 Up to 2y: 51	NA	75.9	6.8	NA	4	NA	NA	[47]

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Countries	Prevalence of infant feeding						Prevalence of malnutrition					References
	EvBF (%)	EBF (%)	BOT (%)	CBF (%)	MixMF (%)	ISSSF (%)	Stunting (%)	Under-weight (%)	Wasting (%)	Overweight (%)	Obesity (%)	
Iraq (2016)	NA	NA	NA	NA	NA	NA	20.6	7.6	6.6	NA	NA	[117]
Iraq (2015)	88.5	27	NA	NA	NA	NA	NA	NA	NA	NA	NA	[54]
Iraq (2012-2013)	NA	31	34	35	NA	78	NA	NA	NA	NA	NA	[53]
Iraq (2009)	NA	NA	NA	NA	NA	NA	NA	18.2	NA	NA	NA	[116]
Iraq (2006-2012)	NA	In 2006: 35 In 2012: 39.7	In 2006: 37 In 2012: 27	NA	In 2006: 29.8 In 2012: 22.5	NA	In 2006: 51.2 In 2012: 30.9	NA	NA	In 2006: 20 In 2012: 7.2		[51]
Iraq (UNICEF/WHO/World Bank database, 2000-2020)	NA	In 2018: 25.8	NA	In 2018: 35.3	NA	In 2018: 84.8	In 2020: 11.6	In 2018: 3.9	In 2018: 3	In 2020: 9	NA	[35,37,92,99,104, 106]
Jordan (2012-2017)	NA	In 2017: 25.4	NA	In 2017: Up to 1y: 36.2 Up to 2y: 14.9	NA	In 2017: 83.4	In 2012: 7.8	NA	In 2012: 2.4	In 2012: 4.7	NA	[57]
Jordan (2017)	71.2	20.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	[58]
Jordan (2017)	87	At birth: 51 At 1m: 47 At 6m: 33	NA	>6m: 50	At birth:36 At 1m: 38 At 6m: 43	NA	NA	NA	NA	NA	NA	[56]

Countries	Prevalence of infant feeding						Prevalence of malnutrition					References
	EvBF (%)	EBF (%)	BOT (%)	CBF (%)	MixMF (%)	ISSSF (%)	Stunting (%)	Under-weight (%)	Wasting (%)	Overweight (%)	Obesity (%)	
Jordan (2014)	95	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	[59]
Jordan (UNICEF/WHO/World Bank database, 2000-2020)	NA	In 2017: 25.4	NA	In 2017: 26.1	NA	In 2017: 83.4	In 2020: 7.3	In 2019: 2.7	In 2012: 2.4	In 2020: 7.1	NA	[35,37,92,99,104, 106]
Kuwait (2016-2019)	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.9	3.7	[118]
Kuwait (2017)	NA	NA	NA	NA	NA	NA	6.4	NA	2.5	5.5	NA	[111]
Kuwait (2015)	98.1	At discharge: 36.5	At discharge: 26.5	NA	At discharge: 37	NA	NA	NA	NA	NA	NA	[32]
Kuwait (2012-2013)	90.4	At 6m: 26.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	[33]
Kuwait (2007-2008)	NA	At 4m : 31 At 8m : 26	At discharge : 8.4	At 12m : 22 At 26m : 2	At discharge : 59.4	NA	NA	NA	NA	NA	NA	[60]
Kuwait (2007-2008)	92.5	At discharge : 10.5	At discharge : 15.3	NA	At discharge : 55	NA	NA	NA	NA	NA	NA	[34]
Kuwait (UNICEF/WHO/World Bank	NA	NA	NA	NA	NA	NA	In 2020: 6	In 2014: 3	In 2017: 2.5	In 2020: 7.1	NA	[35,37,92,99,104, 106]

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Countries	Prevalence of infant feeding						Prevalence of malnutrition					References
	EvBF (%)	EBF (%)	BOT (%)	CBF (%)	MixMF (%)	ISSSF (%)	Stunting (%)	Under-weight (%)	Wasting (%)	Overweight (%)	Obesity (%)	
Lebanon (2003-2004)	NA	NA	NA	NA	NA	At 4m: 41.6 At 5m: 11.3 At 6m: 13.4	NA	NA	NA	NA	NA	[65]
Lebanon (2000-2004)	NA	NA	NA	In 2000: At 1y: 34.7 At 2y: 10.6	NA	NA	In 2004: 16.5	NA	In 2004: 6.6	In 2004: 16.7	NA	[64]
Lebanon (UNICEF/WHO/World Bank database, 2000-2020)	NA	NA	NA	In 2004: 12-23m: 14.3	NA	NA	In 2000: 16 In 2004: 16.5 In 2020: 10.4	In 2004: 4.2	In 2004: 6.6	In 2000: 17.6 In 2004: 16.7 In 2020: 19.7	NA	[35,37,92,99,104, 106]
Libya (2016-2017)	NA	38	NA	NA	NA	NA	NA	NA	NA	NA	NA	[67]
Libya (2014)	NA	NA	NA	NA	NA	NA	38.1	NA	10.2	29.6	NA	[105]
Libya (1998)	95.6	0-5m: 44.6	At 3m: 27	6-12m: 25.1	At 3m: 26.5	NA	NA	NA	NA	NA	NA	[18]
Libya (1995)	NA	NA	NA	NA	NA	NA	20.7	NA	NA	NA	NA	[119]
Libya (1995)	NA	NA	NA	NA	NA	NA	20.7	4.3	3.7	16.2	NA	[101]
Libya (UNICEF/WHO/World Bank	NA	NA	NA	NA	NA	NA	In 2020: 43.5	In 2014: 11.7	In 2014: 10.2	In 2020: 25.4	NA	[35,37,92,99,104, 106]



Countries	Prevalence of infant feeding						Prevalence of malnutrition					References
	EvBF (%)	EBF (%)	BOT (%)	CBF (%)	MixMF (%)	ISSSF (%)	Stunting (%)	Under-weight (%)	Wasting (%)	Overweight (%)	Obesity (%)	
database, 2000-2020)												
Morocco (2016)	94.7	57.23	0-6m: 30.3 6-12m: 17.5	NA	At birth: 39.4	NA	15.4	6.25	3.25	NA	NA	[68]
Morocco (2003-2017)	NA	In 2017: 35	NA	In 2017: Up to 1y: 64.9 Up to 2y: 29.7	NA	In 2003: 84.4	In 2017: 15.1	NA	In 2017: 2.6	In 2017: 10.9	NA	[69]
Morocco (UNICEF/WHO/World Bank database, 2000-2020)	NA	In 2017: 35	NA	In 2003: 35.1	NA	In 2003: 84.4	In 2020: 12.9	In 2017: 2.6	In 2017: 2.6	In 2020: 11.3	NA	[35,37,92,99,104, 106]
Oman (2016-2017)	NA	0-6m: 29	0-6m: 44	Up to 1y: 79 Up to 2y: 51	NA	NA	NA	NA	NA	NA	NA	[70]
Oman (2016-2017)	47	23.2	53.2	Up to 1y: 80 Up to 2y: 47.3	NA	95.3	11.4	11.2	9.3	4.2		[29]
Oman (2017)	NA	23.2	NA	Up to 1y: 80 Up to 2y: 47.3	NA	95.3	11.4	NA	9.3	4.2	NA	[71]

Countries	Prevalence of infant feeding						Prevalence of malnutrition					References
	EvBF (%)	EBF (%)	BOT (%)	CBF (%)	MixMF (%)	ISSSF (%)	Stunting (%)	Under-weight (%)	Wasting (%)	Overweight (%)	Obesity (%)	
<b>Oman</b> (UNICEF/WHO/ World Bank database, 2000- 2020).	NA	In 2017: 23.2	NA	NA	NA	In 2017: 95.3	In 2020: 12.2	In 2017: 11.2	In 2017: 9.3	In 2020: 4.8	NA	[35,37,92,99 ,104, 106]
<b>Pakistan (2018)</b>	NA	48.4	NA	Up to 1y: 68.4 Up to 2y: 56.5	NA	35.9	40.2	28.9	17.7	9.5	NA	[74]
<b>Pakistan (2018)</b>	NA	47.8	NA	Up to 1y: 69.6 Up to 2y: 53.4	NA	65.3	37.6	NA	7.1	2.5	NA	[73]
<b>Pakistan (2017- 2018)</b>	NA	NA	NA	NA	NA	NA	81.1	57.3	18.2	NA	NA	[96]
<b>Pakistan (2014- 2017)</b>	NA	At 3m: 74.4 At 6m: 30.2	NA	Up to 1y: 88.3 Up to 2y: 32.3	NA	At 6m: 60.4	NA	NA	NA	NA	NA	[72]
<b>Pakistan (2015)</b>	93	12	NA	NA	NA	At 4m: 21 At 4-6m: 55 >6m: 18	NA	NA	NA	NA	NA	[24]
<b>Pakistan (2014)</b>	NA	NA	NA	NA	NA	NA	38.5	33.2	19.1	NA	NA	[97]
<b>Pakistan (2014)</b>	99.9	<6m: 37	12.3	Up to 1y: 82.5 Up to 2y: 74.7	NA	6-8m: 70	NA	NA	NA	NA	NA	[23]

Countries	Prevalence of infant feeding						Prevalence of malnutrition					References
	EvBF (%)	EBF (%)	BOT (%)	CBF (%)	MixMF (%)	ISSSF (%)	Stunting (%)	Under-weight (%)	Wasting (%)	Overweight (%)	Obesity (%)	
<b>Pakistan (2006-2007)</b>	<24m: 97.6 <12m: 97.8 12-24m: 97.4	<6m: 37.1 0-1m: 54.6 2-3m: 35.7 4-5m: 23.1 0-3m: 44.1	<24m: 32.1 <6m: 26.8 6-11m: 36.8 12-23m: 33.2	NA	NA	NA	NA	NA	NA	NA	NA	[25]
<b>Pakistan (UNICEF/WHO/World Bank database, 2000-2020)</b>	NA	In 2018: 47.8	NA	In 2018: 62.8	NA	In 2018: 65.3	In 2020: 36.7	In 2018: 23.1	In 2018: 7.1	In 2020: 3.4	NA	[35,37,92,99,104, 106]
<b>Palestine (2014-2020)</b>	NA	In 2020: 38.9	NA	In 2014: Up to 1y: 52.9 Up to 2y: 11.5	NA	In 2020: 89.9	8.7	NA	In 2020: 1.3	In 2020: 8.6	NA	[75]
<b>Palestine (2014)</b>	NA	NA	NA	NA	NA	NA	NA	1.4	NA	7.3	1.5	[109]
<b>Palestine (2014)</b>	NA	NA	NA	NA	NA	NA	At 6m: 9 At 24m: 20	At 6m: 5 At 24m: 4	At 6m: 10 At 24m: 3	NA	NA	[109]
<b>Palestine (2012)</b>	NA	NA	NA	NA	NA	NA	19.6	NA	NA	NA	NA	[121]
<b>Palestine (2007)</b>	NA	69.7	14.3	NA	NA	NA	NA	NA	NA	NA	NA	[76]
<b>Palestine (2009)</b>	NA	44.6	NA	NA	NA	NA	15	6.1	3.5	NA	NA	[77]



Countries	Prevalence of infant feeding						Prevalence of malnutrition					References
	EvBF (%)	EBF (%)	BOT (%)	CBF (%)	MixMF (%)	ISSSF (%)	Stunting (%)	Under-weight (%)	Wasting (%)	Overweight (%)	Obesity (%)	
Saudi Arabia (2018)	NA	0-6m: 27.6	NA	Up to 2y: 20.4	74.3	NA	NA	NA	NA	NA	NA	[82]
Saudi Arabia (2005)	NA	NA	NA	NA	NA	NA	10.9	6.9	9.8	NA	NA	[122]
Saudi Arabia (2004-2005)	91.6	At birth: 88.6 At 1m: 49 At 2m: 36.1 At 4m: 20.5 At 6m: 10.2	Ever BOT:8.4 At birth: 11.4 At 1m: 51 At 2m: 63.9 At 4m: 79.5 At 6m: 89.9 At 12m: 98.2	Up to 1y: 1.8	At birth: 88.6 At 1m: 49 At 2m:36.1 At 4m:20.5 At 6m:10.2 At 12m:1.8 At 18m:0.4 At 24m:0.2	<4m: 4.2 4-6m: 81.5 7-12m: 14.3	NA	NA	NA	NA	NA	[80]
Saudi Arabia (2004)	NA	NA	NA	NA	NA	NA	9.3	NA	11.8	6.1	NA	[123]
Saudi Arabia (UNICEF/WHO/World Bank database, 2000-2020)	NA	NA	NA	NA	NA	NA	In 2020: 3.9	In 2004: 5.3	In 2004: 11.8	In 2020: 7.6	NA	[35,92,99,104, 106]
Somalia (2009-2018)	NA	In 2018: 33.7	NA	In 2009: Upt to 1y: 60.8 Up to 2y: 26.8	NA	In 2018: 41.2	In 2009: 25.3	NA	In 2009: 14.3	In 2009: 3	NA	[84]
Somalia (2007-2010)	NA	NA	NA	NA	NA	NA	31	NA	21	NA	NA	[94]

Countries	Prevalence of infant feeding						Prevalence of malnutrition					References
	EvBF (%)	EBF (%)	BOT (%)	CBF (%)	MixMF (%)	ISSSF (%)	Stunting (%)	Under-weight (%)	Wasting (%)	Overweight (%)	Obesity (%)	
Somalia (2006)	NA	9	NA	NA	NA	NA	42	36	13	NA	NA	[83]
Somalia (UNICEF/WHO/World Bank database, 2000-2020)	NA	In 2018: 33.7	NA	In 2018: 44.6	NA	In 2018: 41.2	In 2020: 27.4	In 2009: 22.5	In 2006: 13.3	In 2020: 2.9	NA	[35,37,92,99,104, 106]
Sudan (2018-2019)	NA	62.31	NA	Up to 2y: 73.29	NA	NA	36.35	29.16	13.6	2.14	0.85	[85]
South Sudan (2018)	NA	NA	NA	NA	NA	NA	23.8	4.8	2.3	NA	NA	[95]
Sudan (2014)	96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	[22]
North Sudan (2014)	NA	62.1	NA	Up to 2y: 64	NA	NA	42.5	32.7	21	NA	NA	[86]
Sudan (2014)	NA	54.6	NA	Up to 1y: 89.4 Up to 2y: 48.8	NA	61.2	38.2	NA	16.3	3	NA	[87]
South Sudan (UNICEF/WHO/World Bank database, 2000-2020)	NA	In 2010: 44.5	NA	In 2010: 61.9	NA	In 2010: 41.6	In 2020: 30.6	In 2010: 27.7	In 2010: 22.7	In 2020: 5.7	NA	[35,37,92,99,104, 106]

Countries	Prevalence of infant feeding						Prevalence of malnutrition					References
	EvBF (%)	EBF (%)	BOT (%)	CBF (%)	MixMF (%)	ISSSF (%)	Stunting (%)	Under-weight (%)	Wasting (%)	Overweight (%)	Obesity (%)	
<b>Sudan</b> (UNICEF/WHO/ World Bank database, 2000- 2020)	NA	In 2014: 54.6	NA	In 2014: 72.5	NA	In 2014: 61.2	In 2020: 33.7	In 2014: 33	In 2014: 16.3	In 2020: 2.7	NA	[35,37,92,99 ,104, 106]
<b>Syrian Arab Republic</b> (UNICEF/WHO/ World Bank database, 2000- 2020)	NA	In 2019: 28.5	NA	In 2006: 44.7	NA	In 2019: 74.6	In 2020: 29.6	NA	In 2010: 11.5	In 2020: 18.2	NA	[35,37,92,99 ,104, 106]
<b>Syrian Arab Republic</b> (2009- 2019)	NA	In 2019: 28.5	NA	In 2009: At 1y: 55.8 At 2y: 24.9	NA	In 2019: 74.6	In 2010: 27.9	In 2010: 10.4	In 2010: 11.5	In 2010: 17.9	NA	[88]
<b>Tunisia (2018)</b>	NA	13.5	NA	At 1y: 45.4 At 2y: 18.2	NA	96.8	8.4	NA	2.1	17.2	NA	[89]
<b>Tunisia</b> (UNICEF/WHO/ World Bank database, 2000- 2020)	NA	In 2018: 13.5	NA	In 2018: 12-23m: 30.3	NA	In 2018: 12-23m: 96.8	In 2020: 8.6	In 2018: 1.6	In 2018: 2.1	In 2020: 16.5	NA	[35,37,92,99 ,104, 106]
<b>United Arab Emirates</b> (2020)	95	0-6m: 37 0-3.9 m:45 4-5.9 m: 26 6-11.9 m: 4	NA	>1y: 1	0-3.9m: 45 4-5.9 m: 48 6-8.9 m: 63 9-11.9m: 59 >1y: 34	<4m: 7 <6m: 19 At 6m: 98	15	NA	8	7		[16]
<b>United Arab Emirates</b> (2019- 2020)	NA	NA	NA	NA	NA	NA	10	NA	6	5	3	[124]

Countries	Prevalence of infant feeding						Prevalence of malnutrition					References
	EvBF (%)	EBF (%)	BOT (%)	CBF (%)	MixMF (%)	ISSSF (%)	Stunting (%)	Under-weight (%)	Wasting (%)	Overweight (%)	Obesity (%)	
United Arab Emirates (2016)	95.6	0-6m: 44.3	NA	NA	NA	≥6m: 89	NA	NA	NA	NA	NA	[17]
Abu Dhabi, United Arab Emirates (2014-2015)	NA	0-6m: 16.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	[90]
Yemen (2013)	NA	NA	NA	NA	NA	NA	47	39	16	NA	NA	[93]
Yemen (2013)	NA	9.7	NA	At 1y: 71.2 At 2y: 45.3	NA	69.2	46.4	NA	16.4	2.5	NA	[91]
Yemen (UNICEF/WHO/World Bank database, 2000-2020)	NA	In 2013: 0-5m: 9.7	NA	In 2013: 12-24m: 62.8	NA	In 2013: 6-8m: 69.2	In 2013: 46.4 In 2020: 37.2	NA	In 2013 16.4	In 2020: 2.7	NA	[35,37,92,99,104, 106]
EMR (2018)	NA	29.3	NA	NA	NA	NA	28	18	8.69	8.42		[3]
Global (UNICEF/WHO/World Bank database, 2000-2020)	NA	2014-2020: 44	NA	2014-2020: 65	NA	2014-2020: 73	In 2020: 22	In 2020: 12.6	In 2020: 6.7	In 2020: 5.7	NA	[35,37,92,99,104, 106]
East Asia and Pacific (2014-2020)	NA	2014-2020: 31	NA	2014-2020: 58 (excluding China)	NA	2014-2020: 84	13.4	5.2	3.7	7.8	NA	[35,37,92,99,104, 106]



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