

MONGOLIA

Last Updated: 2006-11-07

Level	Date	Region and sample descriptor	Sex	Age (years)	Sample size	Haemoglobin (g/L)						Mean	SD	Method	Reference	Notes		
						Proportion (%) of population with haemoglobin below:										General	Line	
						70	100	110	115	120	130							
N	2004	Women: Total	F	15.00- 49.99	211					13.6			B	5247	*			
		Children: Total	B	0.50- 4.99	1241			21.4										
		Women by age	F	15.00- 19.99	20					20.0	134	19						
		Women by age	F	20.00- 29.99	87					12.6	137	11						
		Women by age	F	30.00- 39.99	76					14.5	137	14						
		Women by age	F	40.00- 49.99	38					10.5	138	16						
		Children by age	B	0.50- 0.99	202			39.6			116	13						
		Children by age	B	1.00- 1.99	295			29.2			118	15						
		Children by age	B	2.00- 2.99	253			18.6			123	15						
		Children by age	B	3.00- 3.99	252			10.7			127	13						
		Children by age	B	4.00- 4.99	239			10.9			128	12						
		R	2001	NPW: Total	F	17.00- 51	800					16.9			B	5233	*	
				Children: Total	B	0.50- 4.99	933			31.6								
Men: Total	M			18.00- 59.99	175						2.1							
NPW by area: Dzud-affected	F			17.00- 51.99	405					16.5								
NPW by area: Unaffected	F			17.00- 51.99	385					17.2								
NPW by age	F			17.00- 19.99	17					25.9								
NPW by age	F			20.00- 29.99	449					16.3								
NPW by age	F			30.00- 39.99	294					18.4								
NPW by age	F			40.00- 49.99	40					17.5								
NPW by age and area: Dzud-affected	F			17.00- 51.99	9					11.1								
NPW by age and area: Dzud-affected	F			20.00- 29.99	229					15.7								
NPW by age and area: Dzud-affected	F			30.00- 39.99	147					18.4								
NPW by age and area: Dzud-affected	F			40.00- 49.99	20					15.0								
NPW by age and area: Unaffected	F			17.00- 51.99	8					0.0								
NPW by age and area: Unaffected	F			20.00- 29.99	220					16.8								
NPW by age and area: Unaffected	F			30.00- 39.99	147					18.4								
NPW by age and area: Unaffected	F			40.00- 49.99	20					20.0								
Children by sex	F			0.50- 4.99	424			29.4									2	
Children by sex	M			0.50- 4.99	509			33.4									3	
Children by sex and area: Dzud-affected	F			0.50- 4.99	221			25.8										
Children by sex and area: Dzud-affected	M			0.50- 4.99	250			30.0										
Children by sex and area: Unaffected	F			0.50- 4.99	259			30.5										
Children by sex and area: Unaffected	M			0.50- 4.99	203			34.4										
Children by age	B	0.50- 0.99	128			0.0												

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						Proportion (%) of population with haemoglobin below:										General	Line				
						70	100	110	115	120	130										
R	2001	Children by age	B	1.00- 1.49	154	2.8		56.5						B	5233						
		Children by age	B	1.50- 1.99	94	2.6		38.2													
		Children by age	B	2.00- 2.99	194	0.2		25.2													
		Children by age	B	3.00- 3.99	196	0.0		16.0													
		Children by age	B	4.00- 4.99	167	0.0		12.7													
		Children by age and area: Dzud-affected	B	0.50- 0.99	53	0.0		37.7													
		Children by age and area: Dzud-affected	B	1.00- 1.49	87	2.3		59.8													
		Children by age and area: Dzud-affected	B	1.50- 1.99	46	4.4		26.1													
		Children by age and area: Dzud-affected	B	2.00- 2.99	96	1.0		24.0													
		Children by age and area: Dzud-affected	B	3.00- 3.99	100	0.0		14.0													
		Children by age and area: Dzud-affected	B	4.00- 4.99	89	0.0		12.4													
		Children by age and area: Unaffected	B	0.50- 0.99	75	0.0		57.3													
		Children by age and area: Unaffected	B	1.00- 1.49	67	3.0		55.2													
		Children by age and area: Unaffected	B	1.50- 1.99	48	2.1		41.7													
		Children by age and area: Unaffected	B	2.00- 2.99	98	0.0		25.5													
		Children by age and area: Unaffected	B	3.00- 3.99	96	0.0		16.7													
		Children by age and area: Unaffected	B	4.00- 4.99	78	0.0		12.8													
		Men by age	M	18.00- 29.99	70						4.4									4	
		Men by age	M	30.00- 39.99	84						0.0										5
		Men by age	M	40.00- 49.99	19						2.3										6
		Men by age	M	50.00- 59.99	2						0.0										7
		Men by age and area: Dzud-affected	M	18.00- 29.99	27						2.0										
		Men by age and area: Dzud-affected	M	30.00- 39.99	44						0.0										
		Men by age and area: Dzud-affected	M	40.00- 49.99	8						12.5										
		Men by age and area: Unaffected	M	18.00- 29.99	43						4.9										
		Men by age and area: Unaffected	M	30.00- 39.99	40						0.0										
Men by age and area: Unaffected	M	40.00- 49.99	11						0.0												
Men by age and area: Unaffected	M	50.00- 59.99	2						0.0												
S	1999	4 provinces and Ulaanbaatar: Women: Total	F	NS	593									D	1646	*					
		4 provinces and Ulaanbaatar: Children: Total	B	0.00- 4.99	593			42.0													
		Women by area: Ulaanbaatar	F	NS	70						44.3										
		Women by area: Other cities	F	NS	326						46.3										
		Women by area: Rural areas	F	NS	190						71.1										
		Children by area: Ulaanbaatar	B	0.00- 4.99	368			38.3													
		Children by area: Other cities	B	0.00- 4.99	377			37.4													

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						70	100	110	115	120	130						
S	1999	Children by area: Rural areas	B	0.00- 4.99	214			56.5					D	1646			

NOTES

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Reference No: 5247

General Notes: *Adjustment for altitude. Data provided by Ministry of Health Mongolia, same data in reference 5655.*

Reference No: 5233

General Notes: *Sampling: three-stage cluster sampling; two separate survey samples selected; children randomly selected from 73 severely dzud-affected soums (exceptionally severe winter weather) located in 13 separate aimags and a comparison group from 184 soums in 19 aimags that were slightly affected or unaffected by the dzud. Hb determination in selected children, their mothers (NPW) and a subsample of male household members; adjustment for altitude; same survey reported in reference No. 3654.*

Line note 1 Weighted prevalence value.

Line note 2 Weighted prevalence value.

Line note 3 Weighted prevalence value.

Line note 4 Weighted prevalence value.

Line note 5 Weighted prevalence value.

Line note 6 Weighted prevalence value.

Line note 7 Weighted prevalence value.

Reference No: 1646

General Notes: *Sampling: multi-stage cluster sampling; sample includes 4 provinces (Gobi-Altai, Dundgobi, Khenti and Selenge) and Ulaanbaatar; women are mothers of children surveyed; method: hemoglobin photometer or system Sahl; same survey reported in reference No. 5578.*

REFERENCES

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- Reference 1646** Kachondham Y. Report on the 2nd National Child and Nutrition Survey, Mongolia 1999. Thailand, Institute of Nutrition, Faculty of Medicine, Ramathibodi Hospital Mahidol University, 2000.
- Reference 5233** Bolormaa N, Byambatogtoch B, Bates J, Serdula MK, Kaufmann R, Woodruff BA, Khan LK, Gillespie C. Final Report of a Survey Assessing the Nutritional consequences of the Dzud in Mongolia. Mongolia, Ministry of Health Ulaan Baatar, Mongolia, 2003.
- Reference 5247** Enkhbat S. Third National Nutrition Survey 2004 [personal communication]. Mongolia, Ministry of Health, 2004.

ADDITIONAL REFERENCES

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- Reference 2302 Kachondham Y, Dhanamitta S, Oyunbileg M, Brown L. Child health and nutritional status in Ulaanbaatar, Mongolia: a preliminary assessment. *Asia-Pacific Journal of Public Health*, 1992, 6 :226-232.
- Reference 3654 Bolormaa N, Byambatogtoch B, Erjen D, Gerejargal B, Ganzorig D, Tserendolgor Y, Woodruff BA, Serdula MK, Kettel Khan L, Kaufmann RB, Bates J. Nutritional assessment of children after severe winter weather - Mongolia, June 2001. *MMWR. Morbidity and Mortality Weekly Report*, 2002, 51 :5-7.
- Reference 4251 Kachondhan Y. Mongolian Child Nutrition Survey [consultancy report]. Ulaanbaatar, United Nations Children's Fund, 1992.
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- Reference 5578 Ministry of Health, UNICEF, Nutrition Research Center of the Public Health Institute. Nutrition status of population of Mongolia 2000, Second National Nutrition Survey. Ulaanbaatar, Mongolia, Nutrition Research Center of the Public Health Institute, 2000.