

**UZBEKISTAN**
**Last Updated: 2006-09-06**

Level	Date	Region and sample descriptor	Sex	Age (years)	Sample size	Haemoglobin (g/L)						Reference	Notes						
						Proportion (%) of population with haemoglobin below:							Mean	SD	Method	General	Line		
						70	100	110	115	120	130								
N	2002	Children: Total	B	0.50- 4.99	2305	1.0								B	4950	*	1		
		Children by sex	F	0.50- 4.99	1088	1.0												2	
		Children by sex	M	0.50- 4.99	1217	1.0													3
		Children by age	B	0.50- 0.82	165	0.0			50.2										
		Children by age	B	0.83- 0.99	68	0.0			58.6										
		Children by age	B	1.00- 1.99	429	2.6			70.2										
		Children by age	B	2.00- 2.99	545	0.9			50.6										
		Children by age	B	3.00- 3.99	504	0.9				44.5									
		Children by age	B	4.00- 4.99	594	0.5				35.5									
		Children by area: Urban	B	0.50- 4.99	845	1.4													4
		Children by area: Rural	B	0.50- 4.99	1460	0.8													5
		Children by region: Western	B	0.50- 4.99	268	3.7													6
		Children by region: Central	B	0.50- 4.99	528	0.4													7
		Children by region: East-Central	B	0.50- 4.99	499	1.8													8
		Children by region: Eastern	B	0.50- 4.99	779	0.3													9
		Children by region: Tashkent City	B	0.50- 4.99	231	0.2													10
		Children by region: Karakalpakstan	B	0.50- 4.99	146	5.4													11
		Children by region: Ferghana Oblast	B	0.50- 4.99	497	0.4													12
N	1996	Women: Total	F	15.00- 49.99	4333	0.9								B	2293	*	13		
		Pre-SAC: Total	B	NS- 2.99	1106	1.2			60.8									14	
		Women by physiological status: NPNLW	F	15.00- 49.99	NS			12.8											
		Women by physiological status: PW	F	15.00- 49.99	NS			26.9											
		Women by physiological status: LW	F	15.00- 49.99	NS			14.9											
		Women by age	F	15.00- 19.99	964	0.6													15
		Women by age	F	20.00- 24.99	792	0.9													16
		Women by age	F	25.00- 29.99	697	0.6													17
		Women by age	F	30.00- 34.99	615	1.2													18
		Women by age	F	35.00- 39.99	551	1.6													19
		Women by age	F	40.00- 44.99	414	0.8													20
		Women by age	F	45.00- 49.99	300	1.1													21
		Women by area: Urban	F	15.00- 49.99	1625	0.9													22
		Women by area: Rural	F	15.00- 49.99	2709	0.9													23
		Women by region: Region 1	F	15.00- 49.99	461	2.1													24
		Women by region: Region 2	F	15.00- 49.99	1049	0.3													25
		Women by region: Region 3	F	15.00- 49.99	1243	0.4													26

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						70	100	110	115	120	130								
N	1996	Women by region: Region 4	F	15.00- 49.99	1224	1.8													
		Women by region: Tashkent City	F	15.00- 49.99	357	0.0													27
		Pre-SAC by sex	F	NS- 2.99	549	0.6			60.5										28
		Pre-SAC by sex	M	NS- 2.99	557	1.8			61.1										
		Pre-SAC by area: Urban	B	NS- 2.99	310	0.9			57.5										
		Pre-SAC by area: Rural	B	NS- 2.99	795	1.4			62.1										
		Pre-SAC by region: Region 1	B	NS- 2.99	122	5.2			80.9										
		Pre-SAC by region: Region 2	B	NS- 2.99	294	0.5			47.7										
		Pre-SAC by region: Region 3	B	NS- 2.99	335	0.5			53.2										
		Pre-SAC by region: Region 4	B	NS- 2.99	307	1.4			78.5										
Pre-SAC by region: Tashkent City	B	NS- 2.99	48	0.0			29.5												

## NOTES

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**Reference No:** 4950

**General Notes:** *Sampling: weighted, multistage stratified cluster sampling design, 219 sample clusters were selected and then about 20 households per cluster by systematic random sampling (total of 4385 households); Hb determination only for 2449 out of 2525 eligible children (n=2305 children included in the analysis); adjustment for altitude; Hb cut-off levels 3-4 yrs not according to WHO recommendations (please see 'Key to the data tables').*

**Line note 1** Prevalence of anaemia 49.2% (Hb <110 g/L <3 yrs, Hb <120 g/L 3-4 yrs); disaggregated data by birth order, maternal education, maternal age.

**Line note 2** Prevalence of anaemia 47.5% (Hb <110 g/L <3 yrs, Hb <120 g/L 3-4 yrs).

**Line note 3** Prevalence of anaemia 50.8% (Hb <110 g/L <3 yrs, Hb <120 g/L 3-4 yrs).

**Line note 4** Prevalence of anaemia 44.6% (Hb <110 g/L <3 yrs, Hb <120 g/L 3-4 yrs).

**Line note 5** Prevalence of anaemia 51.9% (Hb <110 g/L <3 yrs, Hb <120 g/L 3-4 yrs).

**Line note 6** The Autonomous Republic of Karakalpakstan and Khorezm Oblasts; prevalence of anaemia 49.8% (Hb <110 g/L <3 yrs, Hb <120 g/L 3-4 yrs).

**Line note 7** Navoi, Bukhara, Kashkadarya and Surkhandarya Oblasts; prevalence of anaemia 58.1% (Hb <110 g/L <3 yrs, Hb <120 g/L 3-4 yrs).

**Line note 8** Samarkhand, Jizzakh, Syrdarya and Tashkent Oblasts; prevalence of anaemia 57.6% (Hb <110 g/L <3 yrs, Hb <120 g/L 3-4 yrs).

**Line note 9** Namangan, Ferghana and Andizhan Oblasts; prevalence of anaemia 46.3% (Hb <110 g/L <3 yrs, Hb <120 g/L 3-4 yrs).

**Line note 10** Prevalence of anaemia 19.8% (Hb <110 g/L <3 yrs, Hb <120 g/L 3-4 yrs).

**Line note 11** Additional oversampled areas; prevalence of anaemia 53.6% (Hb <110 g/L <3 yrs, Hb <120 g/L 3-4 yrs).

**Line note 12** Additional oversampled areas; prevalence of anaemia 37.1% (Hb <110 g/L <3 yrs, Hb <120 g/L 3-4 yrs).

**Reference No:** 2293

**General Notes:** *Sampling: country was divided into five survey regions (1. survey region 1: Karakalpakstan, Khorezmskaya Oblasts; 2. survey region 2: Navoiiskaya, Bukharskaya, Kashkadaryinskaya, Surkhandaryinskaya Oblasts; 3. survey region 3: Samarkandskaya, Dzizakskaya, Syrdaryinskaya, Tashkentskaya Oblasts; 4. survey region 4: Namanganskaya, Ferganskaya, Andizhanskaya Oblasts; 5. Tashkent City), three-stage stratified probability sampling method; sample not representative for pre-SAC, they are the children of the women; sample women aged 15-49 yrs representative of 98.7% of the country (seven raions were excluded from the survey because they were considered too remote and sparsely inhabited).*

**Line note 13** Prevalence of anaemia 60.4% (Hb <110 g/L PW, Hb <120 g/L NPW); disaggregated data by education, ethnicity.

**Line note 14** Disaggregated data by maternal education, ethnicity.

**Line note 15** Prevalence of anaemia 56.3% (Hb <110 g/L PW, Hb <120 g/L NPW).

**Line note 16** Prevalence of anaemia 62.5% (Hb <110 g/L PW, Hb <120 g/L NPW).

**Line note 17** Prevalence of anaemia 62.5% (Hb <110 g/L PW, Hb <120 g/L NPW).

**Line note 18** Prevalence of anaemia 63.3% (Hb <110 g/L PW, Hb <120 g/L NPW).

**Line note 19** Prevalence of anaemia 63.2% (Hb <110 g/L PW, Hb <120 g/L NPW).

**Line note 20** Prevalence of anaemia 57.7% (Hb <110 g/L PW, Hb <120 g/L NPW).

**Line note 21** Prevalence of anaemia 55.9% (Hb <110 g/L PW, Hb <120 g/L NPW).

**Line note 22** Prevalence of anaemia 59.2% (Hb <110 g/L PW, Hb <120 g/L NPW).

**Line note 23** Prevalence of anaemia 61.2% (Hb <110 g/L PW, Hb <120 g/L NPW).

**Line note 24** Prevalence of anaemia 71.5% (Hb <110 g/L PW, Hb <120 g/L NPW).

**Line note 25** Prevalence of anaemia 44.0% (Hb <110 g/L PW, Hb <120 g/L NPW).

**Line note 26** Prevalence of anaemia 53.6% (Hb <110 g/L PW, Hb <120 g/L NPW).

**Line note 27** Prevalence of anaemia 78.3% (Hb <110 g/L PW, Hb <120 g/L NPW).

**Line note 28** Prevalence of anaemia 56.9% (Hb <110 g/L PW, Hb <120 g/L NPW).

## REFERENCES

### UZBEKISTAN

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- Reference 2293** Ministry of Health [Uzbekistan], Institute of Obstetrics and Gynecology [Uzbekistan], Macro International Inc. Uzbekistan Demographic and Health Survey, 1996. Calverton, MD, Macro International Inc, 1997.
- Reference 4950** Ministry of Health, Analytical and Information Center [Uzbekistan], Ministry of Macroeconomics and Statistics, State Department of Statistics [Uzbekistan], ORC Macro. Uzbekistan Health Examination Survey 2002. Calverton, MD, ORC Macro, 2004.

## ADDITIONAL REFERENCES

### UZBEKISTAN

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- Reference 108 Morse C. A report on the prevalence of anemia in Muynak District, Karakalpakistan, Uzbekistan. Tashkent, Crosslink International, 1993.
- Reference 1663 Giebel NH, Suleymanova D, Evans GW. Anemia in young children of the Muynak district of Karakalpakistan, Uzbekistan: prevalence, type and correlates. *American Journal of Public Health*, 1998, 88 :805-807.