

NEPAL
Last Updated: 2007-09-24

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	2006	Women: Total	F	15.00- 49.99	10646	0.4								B	5832	*	1
		Pre-SAC: Total	B	0.50- 4.99	4692	0.6		48.4									
		Women by physiological status: NPNLW	F	15.00- 49.99	7165	0.4				34.0							
		Women by physiological status: PW	F	15.00- 49.99	604	0.7		42.4									
		Women by physiological status: LW	F	15.00- 49.99	2877	0.4				40.3							
		Women by age	F	15.00- 19.99	NS	0.3											2
		Women by age	F	20.00- 29.99	NS	0.5											3
		Women by age	F	30.00- 39.99	NS	0.6											4
		Women by age	F	40.00- 49.99	NS	0.3											5
		Women by area: Urban	F	15.00- 49.99	1640	0.4											6
		Women by area: Rural	F	15.00- 49.99	9006	0.4											7
		Women by ecological zone: Mountain	F	15.00- 49.99	747	0.5											8
		Women by ecological zone: Hill	F	15.00- 49.99	4544	0.2											9
		Women by ecological zone: Terai	F	15.00- 49.99	5355	0.6											10
		Women by development region: Eastern	F	15.00- 49.99	2346	0.5											11
		Women by development region: Central	F	15.00- 49.99	3486	0.5											12
		Women by development region: Western	F	15.00- 49.99	2053	0.3											13
		Women by development region: Mid-western	F	15.00- 49.99	1245	0.3											14
		Women by development region: Far-western	F	15.00- 49.99	1517	0.4											15
		Pre-SAC by sex	F	0.50- 4.99	2288	0.6		48.6									
		Pre-SAC by sex	M	0.50- 4.99	2404	0.7		48.1									
		Pre-SAC by age	B	0.50- 0.82	291	1.4		81.2									
		Pre-SAC by age	B	0.83- 0.99	157	3.0		82.2									
		Pre-SAC by age	B	1.00- 1.99	963	1.0		70.6									
		Pre-SAC by age	B	2.00- 2.99	1125	0.5		46.3									
		Pre-SAC by age	B	3.00- 3.99	1041	0.5		36.8									
		Pre-SAC by age	B	4.00- 4.99	1115	0.1		28.7									
		Pre-SAC by area: Urban	B	0.50- 4.99	536	0.5		41.1									
		Pre-SAC by area: Rural	B	0.50- 4.99	4156	0.7		49.3									
		Pre-SAC by ecological zone: Mountain	B	0.50- 4.99	414	0.9		45.2									
		Pre-SAC by ecological zone: Hill	B	0.50- 4.99	1947	0.3		36.9									
		Pre-SAC by ecological zone: Terai	B	0.50- 4.99	1021	0.9		58.5									
		Pre-SAC by development region: Eastern	B	0.50- 4.99	1486	0.4		42.1									
		Pre-SAC by development region: Central	B	0.50- 4.99	891	0.4		50.8									
		Pre-SAC by development region: Western	B	0.50- 4.99	608	1.1		49.5									
		Pre-SAC by development region: Mid-western	B	0.50- 4.99	686	0.5		47.3									

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						70	100	110	115	120	130							
N	2006	Pre-SAC by development region: Far-western	B	0.50- 4.99	2332	1.1		51.9					B	5832				
D	1998 -2001	Sarlahi District: PW by intervention: Control	F	NS	283						116	18	B	4662	*			
		Sarlahi District: PW by intervention: Folic acid	F	NS	204						115	20						
		Sarlahi District: PW by intervention: Folic acid+iron	F	NS	202						115	18						
		Sarlahi District: PW by intervention: Folic acid+iron+	F	NS	253						116	22						
		Sarlahi District: PW by intervention: Multiple micron	F	NS	270						115	18						
L	1998 -2001	Sarlahi District: PW	F	15.00- 45	1232			33.0			116	19	B	5119	*	16		
N	1997 -1998	Women: Total	F	NS	3898								B	1083	*	17		
		Pre-SAC: Total	B	0.50- 4.99	3900	3.1		78.0										
		Women by physiological status: NPW	F	NS	3437	1.7				66.7								
		Women by physiological status: PW	F	NS	418	5.7			74.6									18
		NPW by age	F	NS- 19.99	183	1.6				74.8								
		NPW by age	F	20.00- 29.99	1910	1.5				68.6								
		NPW by age	F	30.00- 39.99	1107	2.2				63.1								
		NPW by age	F	40.00-NS	230	1.7				63.4								
		NPW by area: Urban	F	NS	393	1.0				62.3								
		NPW by area: Rural	F	NS	3042	1.8				67.3								
		NPW by zone: Terai	F	NS	1612	1.4				72.6								
		NPW by zone: Hills	F	NS	1562	2.1				61.1								
		NPW by zone: Mountains	F	NS	263	1.5				65.0								
		NPW by region: Terai East	F	NS	266	1.5				69.9								
		NPW by region: Terai Central	F	NS	264	0.8				74.3								
		NPW by region: Terai West	F	NS	269	0.7				73.6								
		NPW by region: Terai Mid-West	F	NS	270	0.4				74.1								
		NPW by region: Terai Far-West	F	NS	260	6.2				69.3								
		NPW by region: Hills East	F	NS	258	1.9				49.6								
		NPW by region: Hills Central	F	NS	267	2.6				59.9								
		NPW by region: Hills West	F	NS	265	1.5				70.9								
NPW by region: Hills Mid-West	F	NS	259	3.5				67.6										
NPW by region: Hills Far-West	F	NS	265	1.1				47.1										
NPW by region: Mounts East	F	NS	255	1.6				63.2										
NPW by region: Mounts Central	F	NS	264	1.5				65.1										
NPW by region: Mounts All-West	F	NS	259	1.5				66.0										

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						70	100	110	115	120	130						
N	1997 -1998	Pre-SAC by age	B	0.50- 0.99	549	4.4		90.0						B	1083		
		Pre-SAC by age	B	1.00- 1.99	1220	4.6		87.2									
		Pre-SAC by age	B	2.00- 2.99	978	2.2		74.9									
		Pre-SAC by age	B	3.00- 3.99	637	1.9		70.2									
		Pre-SAC by age	B	4.00- 4.99	515	1.2		59.3									
		Pre-SAC by area: Urban	B	0.50- 4.99	428	1.9		72.0									
		Pre-SAC by area: Rural	B	0.50- 4.99	3471	3.2		78.8									
		Pre-SAC by zone: Terai	B	0.50- 4.99	1820	3.7		79.7									
		Pre-SAC by zone: Hills	B	0.50- 4.99	1778	2.2		76.2									
		Pre-SAC by zone: Mountains	B	0.50- 4.99	302	4.6		78.9									
		Pre-SAC by region: Terai East	F	0.50- 4.99	300	2.7		81.4									
		Pre-SAC by region: Terai Central	F	0.50- 4.99	300	3.7		79.0									
		Pre-SAC by region: Terai West	F	0.50- 4.99	300	5.3		81.3									
		Pre-SAC by region: Terai Mid-West	F	0.50- 4.99	300	5.7		80.7									
		Pre-SAC by region: Terai Far-West	F	0.50- 4.99	300	2.0		71.0									
		Pre-SAC by region: Hills East	F	0.50- 4.99	300	1.0		64.7									
		Pre-SAC by region: Hills Central	F	0.50- 4.99	300	3.0		81.7									
		Pre-SAC by region: Hills West	F	0.50- 4.99	300	2.7		79.4									
		Pre-SAC by region: Hills Mid-West	F	0.50- 4.99	300	2.0		84.0									
		Pre-SAC by region: Hills Far-West	F	0.50- 4.99	300	1.3		60.6									
		Pre-SAC by region: Mounts East	F	0.50- 4.99	300	1.0		73.7									
Pre-SAC by region: Mounts Central	F	0.50- 4.99	300	2.0		70.9											
Pre-SAC by region: Mounts All-West	F	0.50- 4.99	300	8.3		88.6											
L	1994 -1997	Sarlahi District: PW	F	15.00- 40.99	336	4.2		72.6			100	16	B	1993	*	19	
D	1994 -1996	Sarlahi District: PW	F	15.00- 41.99	968	4.2		70.6					B	2885	*		
		Sarlahi District: LW	F	15.00- 41.99	611	2.4			81.5							20	
		Sarlahi District: Infants	B	0.17- 0.38	464	0.0		57.5								21	
R	1989 -1991	Children by age	B	0.50- 4.99	161						114	9	D	1970	*		
		Children by age	B	5.00- 9.99	480						119	6					
L	1986 P	Kathmandu: Children	B	1.00- 14.99	213						122	15	A	1972	*	22	
		Kathmandu: Children by sex	F	1.00- 14.99	98						121						23
		Kathmandu: Children by sex	M	1.00- 14.99	115						123						24

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						Proportion (%) of population with haemoglobin below:							Mean	SD	Method	General	Line
						70	100	110	115	120	130						
N	1975	Pre-SAC: Total	B	0.50- 5.99	1253			18.0				117	17	A	2886	*	
		Pre-SAC by age	B	0.50- 0.99	95			30.0				110	15				
		Pre-SAC by age	B	1.00- 1.99	223			21.0				112	17				
		Pre-SAC by age	B	2.00- 2.99	190			22.0				114	17				
		Pre-SAC by age	B	3.00- 3.99	241			16.0				117	17				
		Pre-SAC by age	B	4.00- 4.99	238			14.0				120	17				
		Pre-SAC by age	B	5.00- 5.99	266			13.0			121	17					
L	1972	Kathmandu: PW	F	NS	151						117	20	A	1974	*	25	

NOTES

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Reference No: 5832

General Notes: *Sampling: Stratified (urban/ rural) two-stage cluster sampling with probability proportional to size; oversampling of urban areas; estimates weighted by population size. Adjusted for altitude and smoking.*

Line note 1 Prevalence of anaemia 36.2% (Hb <110g/L PW, Hb <120g/L NPW).

Line note 2 Prevalence of anaemia 39.0% (Hb <110g/L PW, Hb <120g/L NPW).

Line note 3 Prevalence of anaemia 37.4% (Hb <110g/L PW, Hb <120g/L NPW).

Line note 4 Prevalence of anaemia 32.8% (Hb <110g/L PW, Hb <120g/L NPW).

Line note 5 Prevalence of anaemia 34.8% (Hb <110g/L PW, Hb <120g/L NPW).

Line note 6 Prevalence of anaemia 23.7% (Hb <110g/L PW, Hb <120g/L NPW).

Line note 7 Prevalence of anaemia 30.5% (Hb <110g/L PW, Hb <120g/L NPW).

Line note 8 Prevalence of anaemia 17.0% (Hb <110g/L PW, Hb <120g/L NPW).

Line note 9 Prevalence of anaemia 16.6% (Hb <110g/L PW, Hb <120g/L NPW).

Line note 10 Prevalence of anaemia 42.1% (Hb <110g/L PW, Hb <120g/L NPW).

Line note 11 Prevalence of anaemia 31.1% (Hb <110g/L PW, Hb <120g/L NPW).

Line note 12 Prevalence of anaemia 35.8% (Hb <110g/L PW, Hb <120g/L NPW).

Line note 13 Prevalence of anaemia 31.2% (Hb <110g/L PW, Hb <120g/L NPW).

Line note 14 Prevalence of anaemia 36.7% (Hb <110g/L PW, Hb <120g/L NPW).

Line note 15 Prevalence of anaemia 51.4% (Hb <110g/L PW, Hb <120g/L NPW).

Reference No: 4662

General Notes: *Baseline values of intervention study; sampling: cluster randomization, out of 133 sectors comprising 9 village development communities; only mean Hb values; 10 wks gestation.*

Reference No: 5119

General Notes: *Survey in rural southeastern plains district of Sarlahi; baseline values of supplementation trial; identification of early pregnancy by visiting women 15-45 yrs of age, who were not menopausal, sterilized or breastfeeding an infant <12 months.*

Line note 16 Mean (SD) age 23.6 (6.0) yrs; mean (SD) gestational age 10.9 (4.6) wks.

Reference No: 1083

General Notes: *Hb determination for subsample (25% women, Pre SAC); adjustment for altitude.*

Line note 17 Includes women of unknown physiological status; prevalence of anaemia 67.7% (Hb <110 g/L PW, Hb <120 g/L NPW).

Line note 18 Disaggregated data by age, area, zone, region.

Reference No: 1993

General Notes: *Study in 3 subdistricts.*

Line note 19 Disaggregated data by gestational age.

Reference No: 2885

General Notes: *Part of Nepal Nutrition Intervention Project-Sarlahi.*

Line note 20 LW 3 months postpartum.

Line note 21 Hb determination only for subsample (464 of 598); age at clinic visit of total sample: 2.3 %, 9-11 wks, 86.8% 12-15 wks, 7.0% 16-19 wks, 3.9 % >=20 wks.

Reference No: 1970

General Notes: *Study in 16 villages in plain area of Nepal bordering India; subsample of 'Vitamin A Child Survival Project'; method: Sahli haemoglobin meter; only mean Hb values.*

Reference No: 1972

General Notes: *Study in 2 villages outside Kathmandu; adjustment for altitude.*

Line note 22 Prevalence of anaemia 78.4% (Hb <125 g/L <6 yrs, Hb <135 g/L >6 yrs).

Line note 23 Prevalence of anaemia 81.6% (Hb <125 g/L <6 yrs, Hb <135 g/L >6 yrs).

Line note 24 Prevalence of anaemia 75.7% (Hb <125 g/L <6 yrs, Hb <135 g/L >6 yrs).

Reference No: 2886

General Notes: *Study in rural areas of Nepal, excluding Kathmandu and 13 other towns; Hb determination only for subsample (20%); adjustment for altitude.*

Reference No: 1974

General Notes: *Facility based study (hospital); adjustment for altitude.*

Line note 25 PW 3rd trimester; prevalence of anaemia 33.0% (Hb <115 g/L).

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