

PAKISTAN
Last Updated: 2007-10-25

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	2001	Women: Total	F	NS	1217	1.1								B	4640	*	1				
		Children: Total	B	0.50- 4.99	7015	3.6		50.9													
		Women by physiological status: NPW	F	NS	1022	0.9				27.9											
		Women by physiological status: PW	F	NS	179	2.2		39.1													
		Women by physiological status: Unknown	F	NS	16	0.0				12.5											2
		Women by age	F	NS- 19.99	23	0.0															3
		Women by age	F	20.00- 29.99	532	1.1															4
		Women by age	F	30.00- 39.99	574	1.0															5
		Women by age	F	40.00-NS	88	1.1															6
		Women by area: Urban	F	NS	433	0.7															7
		Women by area: Rural	F	NS	784	1.3															8
		Children by sex	F	0.50- 4.99	3322	3.8		51.6													
		Children by sex	M	0.50- 4.99	3693	3.4		50.3													
		Children by age	B	0.50- 0.99	331	3.6		49.5													
		Children by age	B	1.00- 1.99	967	3.7		52.9													
		Children by age	B	2.00- 2.99	1644	4.1		52.5													
		Children by age	B	3.00- 3.99	1900	2.9		50.8													
		Children by age	B	4.00- 4.99	2173	3.7		49.2													
		Children by area: Urban	B	0.50- 4.99	2690	2.4		46.8													
Children by area: Rural	B	0.50- 4.99	4325	4.3		53.5															
D	1997 P	Children: Total	B	NS- 1.99	275			90.2		94	13	A	1827	*	9						
		Children by area: Palosi	B	NS- 1.99	149		86.6		97	13											
		Children by area: Regi	B	NS- 1.99	126		74.6		91	13											
		Children by sex	F	NS- 1.99	127		85.0		97	13											
		Children by sex	M	NS- 1.99	148		94.6		91	13											
LU	1994 P	Karachi: Children	B	0.50- 4.99	321		63.8				B	1830	*								
L	1994 P	Rawalpindi, Islamabad: Newborns	B	0.00	100				161	34	D	2039	*								
L	1993 P	Karachi: 3 urban slums: Children	B	0.50- 4.99	532		67.3				C	1832		10							
L	1992	Karachi: Children	B	0.50- 5.07	947		77.9				B	4368	*								
L	1990	Karachi: PW	F	NS	318		32.7				C	1831	*								

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						Proportion (%) of population with haemoglobin below:										General	Line
						70	100	110	115	120	130						
L	1989 -1990	Karachi: Children: Total	B	0.50- 4.99	391			69.8				C	1813	*	11		
		Karachi: Children by sex	F	0.50- 4.99	166			68.7									
		Karachi: Children by sex	M	0.50- 4.99	225			70.7									
L	1988 P	Karachi: PW at delivery	F	NS	206			69.2		99	13 18	A	962	*			
		Karachi: Newborns	B	0.00	206					154							
L	1987 P	Karachi: Women	F	17.00- 35.99	200				30.0			D	957	*			
		Karachi: Children	B	2.00- 6.99	100				47.0								
L	1986 -1988	Karachi: PW: Total	F	16.00- 45.99	709		17.0					C	1835	*	12		
		Karachi: PW by hospital: private	F	16.00- 45.99	400		8.0										
		Karachi: PW by hospital: public	F	16.00- 45.99	309		29.0										
N	1985 -1987	PW/LW: Total	F	15.00- 50.99	3295			45.2		66.9		D	811	*	13 14		
		Pre-SAC: Total	B	0.58- 4.99	6086			65.3									
		PW/LW by age	F	15.00- 20.99	NS			35.2									
		PW/LW by age	F	20.00- 25.99	NS			39.4									
		PW/LW by age	F	25.00- 30.99	NS			42.4									
		PW/LW by age	F	30.00- 35.99	NS			48.6									
		PW/LW by age	F	35.00- 40.99	NS			51.3									
		PW/LW by age	F	40.00- 45.99	NS			50.7									
		PW/LW by age	F	45.00- 50.99	NS			65.8									
		Pre-SAC by province: Punjab	B	0.58- 4.99	NS			82.7									
		Pre-SAC by province: Sind	B	0.58- 4.99	NS			72.7									
		Pre-SAC by province: North West Frontier Province	B	0.58- 4.99	NS			19.9									
		Pre-SAC by province: Baluchistan	B	0.58- 4.99	NS			37.2									

NOTES

PAKISTAN

Reference No: 4640

General Notes: *Exclusion of military restricted and protected areas of North West Frontier Province; women are mothers of children.*

Line note 1 Prevalence of anaemia 29.4% (Hb <110 g/L PW, Hb <120 g/L NPW).

Line note 2 Assuming Hb cut-off level 120 g/L was used, not specified in report.

Line note 3 Prevalence of anaemia 43.5% (Hb <110 g/L PW, Hb <120 g/L NPW).

Line note 4 Prevalence of anaemia 28.7% (Hb <110 g/L PW, Hb <120 g/L NPW).

Line note 5 Prevalence of anaemia 29.2% (Hb <110 g/L PW, Hb <120 g/L NPW).

Line note 6 Prevalence of anaemia 29.5% (Hb <110 g/L PW, Hb <120 g/L NPW).

Line note 7 Prevalence of anaemia 26.6% (Hb <110 g/L PW, Hb <120 g/L NPW).

Line note 8 Prevalence of anaemia 30.9% (Hb <110 g/L PW, Hb <120 g/L NPW).

Reference No: 1827

General Notes: *Study in 2 semi-urban areas Peshawar.*

Line note 9 Disaggregated data by age; values for other Hb cut-off levels.

Reference No: 1830

General Notes: *Cross-sectional study in one of the urban squatter settlements of Karachi; sampling: 321 children were sampled from 1800 children <5 yrs of age in a population of 11 000 by systematic random sampling.*

Reference No: 2039

General Notes: *Method: Haematology analyzer (Sysmex 1000); only mean Hb values.*

Reference No: 1832

Line note 10 Disaggregated data by age.

Reference No: 4368

General Notes: *Cross-sectional study in Chanesar Goth, a typical squatter of Karachi; sampling: all 1100 children aged 6-60 months were enrolled, 947 children could be screened.*

Reference No: 1831

General Notes: *Facility based study (2 public hospitals); inclusion only of subjects with low socioeconomic status; Hb cut-off level not according to WHO recommendations (please see 'Key to the data tables').*

Reference No: 1813

General Notes: *Study in Karachi urban slums.*

Line note 11 Disaggregated data by age.

Reference No: 962

General Notes: *Facility based study (medical centre).*

Reference No: 957

General Notes: *Method: ERMA Blood Cell counter; sampling: design not explained; Hb cut-off levels women and children not according to WHO recommendations (please see 'Key to the data tables').*

Reference No: 1835

General Notes: *Facility based study (3 hospitals).*

Line note 12 Hb cut-off levels PW not according to WHO recommendations (please see 'Key to the data tables'); disaggregated data by pregnancy number.

Reference No: 811

General Notes: *Method: Sahli haemoglobin meter.*

Line note 13 Hb cut-off levels LW not according to WHO recommendations (please see 'Key to the data tables').

Line note 14 Values for other Hb cut-off levels.

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