

IRAN (ISLAMIC REPUBLIC OF)

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							
L	2002P	Shiraz: PW	F	15.00- 44.99	251			17.5				127	15	D	1407	*	1	
LU	2002	Kharameh: Children	B	0.50- 5.99	541									D	1954	*	2	
N	2001	PW: Total	F	NS	NS			21.4						A	5379	*	3	
		PW: Urban	F	NS	2500						121	14						
		PW: Rural	F	NS	1668						118	14						
		Women	F	50.00- 60.99	4377					19.0	132	19						
		Men	M	45.00- 60.99	4376						148	19						
		Adolescents by sex	F	14.00- 20.99	4379					18.4	132	21						
		Adolescents by sex	M	15.00- 20.99	4381						145	20						
		SAC by sex	F	6.00- 6.99	2133				18.5		125	13						
		SAC by sex	M	6.00- 6.99	2133				18.0		125	13						
		Infants by sex	F	1.25- 1.92	2033			35.3			114	13						
Infants by sex	M	1.25- 1.92	2329			39.9			113	14								
L	1997	Jolfa: Highschool students: Total	B	14.00- 19.99	627									D	4839	*	4	
		Jolfa: Highschool students by sex	F	14.00- 19.99	316												5	
		Jolfa: Highschool students by sex	M	14.00- 19.99	311												6	
L	1996 -1997	Zahedan, Rasht: Highschool girls	F	NS	1853									D	2289	*		
		Rasht: Highschool girls	F	NS	908						17.4							
		Zahedan: Highschool girls	F	NS	845						11.6							
N	1994 -1995	Women: Total	F	15.00- 49.99	1430									C	3015	*	7	
		Women by physiological status: NPW	F	15.00- 49.99	1351													
		Women by physiological status: PW	F	15.00- 49.99	79			40.5										
		Women by area: Urban	F	15.00- 49.99	748													8
		Women by area: Rural	F	15.00- 49.99	704													9
		Women by age	F	15.00- 19.99	181													10
		Women by age	F	20.00- 24.99	271													11
		Women by age	F	25.00- 29.99	288													12
		Women by age	F	30.00- 34.99	273													13
		Women by age	F	35.00- 39.99	199													14
		Women by age	F	40.00- 44.99	142													15
		Women by age	F	45.00- 49.99	98													16

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						Proportion (%) of population with haemoglobin below:										General	Line
						70	100	110	115	120	130						
L	1978 P	Tehran: Farah Hospital (public): PW	F	NS	108							111	18	A	955	*	
		Tehran: Mysaghieh Hospital (private): PW	F	NS	86							138	13				
		Tehran: Farah Hospital (public): Newborns	B	0.00	98							147	16				
		Tehran: Mysaghieh Hospital (private): Newborns	B	0.00	86							156	17				
L	1970 -1975	Isfahan: PW: Total	F	NS	9550			25.3				118	17	A	2005	*	
		Isfahan: PW by age	F	NS- 18.99	2798			23.6				121	17				
		Isfahan: PW by age	F	20.00- 29.99	3282			28.0				117	18				
		Isfahan: PW by age	F	30.00- 39.99	2802			27.1				115	17				
		Isfahan: PW by age	F	41.00-NS	668			10.5				121	14				
		Isfahan: PW by pregnancy number: 1	F	NS	3195			22.9				121	14				
		Isfahan: PW by pregnancy number: 2-5	F	NS	3207			24.7				121	14				
		Isfahan: PW by pregnancy number: >5	F	NS	3146			26.8				121	14				

NOTES

IRAN (ISLAMIC REPUBLIC OF)

Reference No: 1407

General Notes: Facility based study (Health Care Centers); method: H1 analyser; sampling: 270 PW at the 4th month of gestation who had been referred to the centers were systematically randomly selected and clustered, data of 263 women were analysed; exclusion of subjects with fever, infection, liver or cancerous diseases on the serum ferritin; Hb determination only for subsample (n=251).

Line note 1 Prevalence of iron deficiency 28.5% (serum ferritin <12 µg/L; n=263).

Reference No: 1954

General Notes: Facility based study (Health Care Centers) in Kharameh, an urban area in Fars Province; method: H1 analyser; sampling: 583 children were systematically randomly selected and clustered from all the 6-month to 5-yr-old children who had been referred to the centers, data of 541 children were analysed; sample population representative; exclusion of subjects with fever, infection, liver or cancerous diseases on the serum ferritin; Hb cut-off level not defined; survey season was spring.

Line note 2 Prevalence of anaemia 18.7%; prevalence of iron deficiency 19.7% (serum ferritin <12 µg/L).

Reference No: 5379

General Notes: Sampling: Nationally representative cross-sectional survey based on 2000 census; Households selected in rural areas: Facility based sample in Tehran (hospitals and birthing centers to identify mothers and family).

Line note 3 PW 5-9 months pregnant.

Reference No: 4839

General Notes: Study in Jolfa, East Azerbaijan, this district is north of Azerbaijan Province; facility based study (16 high schools); sampling: stepwise random sampling of 652 high school students 14 to 20 yrs old; exclusion of subjects who had hepatic or neural chronic diseases, had received blood transfusions or had been blood donors with the previous two wks; Hb determination only for 627 subject (25 were excluded due to sample coagulation and haemolysis); Hb cut-off levels females 14 yrs not according to WHO recommendations (please see 'Key to the data tables').

Line note 4 Prevalence of anaemia 12.6% (Hb <115 g/L females 14 yrs, Hb <120 g/L females 15-19 yrs, males 14 yrs, Hb <130 g/L males 15-19 yrs); prevalence of iron deficiency 60.7% (serum ferritin <15 µg/L or transferrin saturation <16%; n= 652); prevalence of iron deficiency anaemia 11.6% (anaemia+iron deficiency cut-off levels).

Line note 5 Prevalence of anaemia 13.6% (Hb <115 g/L 14 yrs, Hb <120 g/L 15-19 yrs); prevalence of iron deficiency 66.5% (serum ferritin <15 µg/L or transferrin saturation <16%; n= 340); prevalence of iron deficiency anaemia 13.0% (anaemia+iron deficiency cut-off levels); mean (SD) age 16.9 (1.3) yrs; 95% CI: 9.8%, 17.4%; disaggregated by age.

Line note 6 Prevalence of anaemia 11.6% (Hb <120 g/L 14 yrs, Hb <130 g/L 15-19 yrs); prevalence of iron deficiency 54.5% (serum ferritin <15 µg/L or transferrin saturation <16%; n= 312); prevalence of iron deficiency anaemia 10.3% (anaemia+iron deficiency cut-off levels); mean (SD) age 17.0 (1.4) yrs; 95% CI: 8.0%, 15.2%; disaggregated by age.

Reference No: 2289

General Notes: Facility based study (high schools); method: automatic cell counter; adjustment for altitude in Zahedan.

Reference No: 3015

General Notes: Sample size of disaggregated data (area, age) corresponds to women selected; adjustment for altitude.

Line note 7 Prevalence of anaemia 33.4% (Hb <110 g/L PW, Hb <120 g/L NPW).

Line note 8 Prevalence of anaemia 33.5% (Hb <110 g/L PW, Hb <120 g/L NPW).

Line note 9 Prevalence of anaemia 33.3% (Hb <110 g/L PW, Hb <120 g/L NPW).

Line note 10 Prevalence of anaemia 31.1% (Hb <110 g/L PW, Hb <120 g/L NPW).

Line note 11 Prevalence of anaemia 34.0% (Hb <110 g/L PW, Hb <120 g/L NPW).

Line note 12 Prevalence of anaemia 31.6% (Hb <110 g/L PW, Hb <120 g/L NPW).

- Line note 13** Prevalence of anaemia 34.9% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 14 Prevalence of anaemia 32.0% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 15 Prevalence of anaemia 42.1% (Hb <110 g/L PW, Hb <120 g/L NPW).
Line note 16 Prevalence of anaemia 38.6% (Hb <110 g/L PW, Hb <120 g/L NPW).

Reference No: 955

General Notes: *Date of survey and age not specified; only mean Hb values.*

Reference No: 2005

General Notes: *Facility based study (hospital).*

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