

LEBANON
Last Updated: 2006-11-23

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	2003	Women	F	15.00- 45.99	470					16.0		132		B	5771	*	
N	1997 -1998	Women: Total	F	15.00- 49.99	559							126	12	B	3221	*	1
		Pre-SAC: Total	B	1.00- 5.99	307			24.8				116	10				
		Women by physiological status: NPW	F	15.00- 49.99	501					25.9		127	13				2
		Women by physiological status: PW	F	15.00- 49.99	20			20.0				117	11				
		Women by physiological status: LW	F	15.00- 49.99	38					15.8		128	9				
		Women by age	F	15.00- 17.99	34							128	10				3
		Women by age	F	18.00- 24.99	118							126	11				4
		Women by age	F	25.00- 34.99	213							126	13				5
		Women by age	F	35.00- 44.99	160							127	13				6
		Women by age	F	45.00- 49.99	34							125	16				7
		Women by province: South	F	15.00- 49.99	57							122	12				8
		Women by province: North	F	15.00- 49.99	112							127	11				9
		Women by province: Begaa	F	15.00- 49.99	80							127	14				10
		Women by province: Mount Lebanon	F	15.00- 49.99	238							127	9				11
		Women by province: Beirut	F	15.00- 49.99	72							126	9				12
		Pre-SAC by age	B	1.00- 1.99	53			47.2				110	12				
		Pre-SAC by age	B	2.00- 3.99	97			25.0				115	11				
		Pre-SAC by age	B	4.00- 4.99	84			20.2				117	9				
		Pre-SAC by age	B	5.00- 5.99	73			13.7				119	9				
		Pre-SAC by province: South	B	1.00- 5.99	49			36.7				112	11				
		Pre-SAC by province: North	B	1.00- 5.99	78			26.0				117	11				
		Pre-SAC by province: Begaa	B	1.00- 5.99	36			22.2				117	10				
		Pre-SAC by province: Mount Leb	B	1.00- 5.99	109			22.0				116	10				
		Pre-SAC by province: Beirut	B	1.00- 5.99	35			17.1				118	10				
L	1982P	Rajar: All	B	1.00- 68.99	232							129	14	C	2710	*	13

NOTES

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Reference No: 5771

General Notes: *Facility based study (health centers attended by families of low to moderate socioeconomic status); Sampling: 23 health centers from all 6 districts (muhafazats) randomly selected with probability proportionate to size.*

Reference No: 3221

General Notes: *Adjustment for altitude and smoking; data on NPW also published in reference No. 4374*

Line note 1 Prevalence of anaemia 23.1% (Hb <110 g/L PW, Hb <120 g/L NPW).

Line note 2 Sample size calculated (NPW: Women total-PW-LW).

Line note 3 Prevalence of anaemia 11.8% (Hb <110 g/L PW, Hb <120 g/L NPW).

Line note 4 Prevalence of anaemia 22.0% (Hb <110 g/L PW, Hb <120 g/L NPW).

Line note 5 Prevalence of anaemia 24.9% (Hb <110 g/L PW, Hb <120 g/L NPW).

Line note 6 Prevalence of anaemia 24.4% (Hb <110 g/L PW, Hb <120 g/L NPW).

Line note 7 Prevalence of anaemia 20.6% (Hb <110 g/L PW, Hb <120 g/L NPW).

Line note 8 Prevalence of anaemia 35.1% (Hb <110 g/L PW, Hb <120 g/L NPW).

Line note 9 Prevalence of anaemia 25.0% (Hb <110 g/L PW, Hb <120 g/L NPW).

Line note 10 Prevalence of anaemia 20.0% (Hb <110 g/L PW, Hb <120 g/L NPW).

Line note 11 Prevalence of anaemia 21.0% (Hb <110 g/L PW, Hb <120 g/L NPW).

Line note 12 Prevalence of anaemia 20.8% (Hb <110 g/L PW, Hb <120 g/L NPW).

Reference No: 2710

General Notes: *Village in Southern Lebanon; inclusion only of subjects with normal Hb pattern.*

Line note 13 Prevalence of anaemia 15.9% (Hb <120 g/L females, children, Hb <130 g/L men).

REFERENCES

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- Reference 2710** Hershko C, Moreb J, Gaziel Y, Konijn AM, Rachmilewitz EA. Reduced frequency of iron deficiency anaemia in sickle cell trait. *Scandinavian Journal of Haematology*, 1982, 29 :304-310.
- Reference 3221** Hwalla N, Adra N. Prevalence and selected determinant of iron deficiency anemia in women and under five children in Lebanon. 1998.
- Reference 5771** Al Khatib L, Obeid O, Sibai AM, Batal M, Adra N, Hwalla N. Folate deficiency is associated with nutritional anaemia in Lebanese women of childbearing age. *Public Health Nutrition*, 2006, 9 :921-927.

ADDITIONAL REFERENCES

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- Reference 1999 FAO. ESN - nutrition country profile - Lebanon. Rome, Food and Agriculture Organization, 1987.
- Reference 4221 Sibai AM, Zard C, Adra N, Baydoun M, Hwalla N. Variations in nutritional status of elderly men and women according to place of residence. *Gerontology*, 2003, 49 :215-224.
- Reference 4374 Hwalla N, Adra N, Jackson RT. Iron deficiency is an important contributor to anemia among reproductive age women in Lebanon. *Ecology of Food and Nutrition*, 2004, 43 :77-92.