

FINLAND

Last Updated: 2005-11-14

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						
LU	1997	Helsinki and Vantaa: Adults: Total	B	25.00- 64.99	429									C	4473	*	1
		Helsinki and Vantaa: Adults by sex	F	25.00- 64.99	190					5.8	134	11					
		Helsinki and Vantaa: Adults by sex	M	25.00- 64.99	239						150	10					
		Helsinki and Vantaa: Adults by sex and age	F	25.00- 49.99	118					5.9	133	12					
		Helsinki and Vantaa: Adults by sex and age	M	25.00- 49.99	141						150	9					2
		Helsinki and Vantaa: Adults by sex and age	F	50.00- 64.99	72					5.6	137	10					
		Helsinki and Vantaa: Adults by sex and age	M	50.00- 64.99	98						150	11					3
L	1992	Helsinki: PW (before delivery)	F	NS	199					19.0	127	1	NS	3359a	*		
		Helsinki: NPW (after delivery)	F	NS	199					59.0	115	1				4	
L	1986	Helsinki: PW (before delivery)	F	NS	199					10.0	129	1	NS	3359b	*		
		Helsinki: NPW (after delivery)	F	NS	199					41.0	122	1				5	
L	1981	Helsinki: School-age boys	M	7.58- 10.24	133						129	6	A	3341	*	6	
L	1979 P	Infants by age	B	0.17- 0.24	235						111		C	2603	*	7	
		Infants by age	B	0.33- 0.41	216						119					8	
		Infants by age	B	0.50- 0.57	231						123					9	
		Infants by age	B	0.75- 0.82	230						124					10	
		Infants by age	B	1.00- 1.07	224						125					11	
		Pre-SAC by age	B	2.00- 2.99	99						125					12	
		Pre-SAC by age	B	4.00- 4.99	90						128					13	
		Children by age	B	7.00- 7.99	186						131					14	
		Children by age	B	10.00- 10.99	219						136					15	
		Children by age	B	15.00- 15.99	194						142					16	
N	1967 -1972	NPW: Total	F	15.00- 99.99	19415					5.8	136	11	A	2787	*	17	
		PW	F	20.00- 39.99	439						128	10				18	
		Men: Total	M	15.00- 99.99	23189						153	11				19	
		NPW by age	F	15.00- 19.99	2616					3.6	136	10					
		NPW by age	F	20.00- 29.99	3827					3.9	136	10					
		NPW by age	F	30.00- 39.99	3431					6.5	135	11					
		NPW by age	F	40.00- 49.99	3632					11.0	133	13					
		NPW by age	F	50.00- 59.99	2816					4.7	137	11					
		NPW by age	F	60.00- 69.99	2082					3.8	139	11					

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						Proportion (%) of population with haemoglobin below:										General	Line
						70	100	110	115	120	130						
N	1967-1972	NPW by age	F	70.00- 79.99	885					4.0		139	12	A	2787		
		NPW by age	F	80.00- 99.99	126					4.0		139	13				
		NPW by area: Urban	F	20.00- 59.99	6687					5.6		135	11				20
		NPW by area: Rural	F	20.00- 59.99	3354					9.5		135	13				21
		NPW by area: Industrial	F	20.00- 59.99	1484					3.4		137	10				22
		Men by age	M	15.00- 19.99	2745					2.0		152	11				
		Men by age	M	20.00- 29.99	5504					0.5		156	10				
		Men by age	M	30.00- 39.99	4993					1.0		154	10				
		Men by age	M	40.00- 49.99	4348					1.7		153	11				
		Men by age	M	50.00- 59.99	3076					3.2		150	12				
		Men by age	M	60.00- 69.99	1809					6.1		148	13				
		Men by age	M	70.00- 79.99	605					9.3		146	14				
		Men by age	M	80.00- 99.99	109					12.8		146	16				
		Men by area: Urban	M	20.00- 59.99	5906					0.9		153	11				23
		Men by area: Rural	M	20.00- 59.99	3505					3.2		152	12				24
		Men by area: Industrial	M	20.00- 59.99	6799					0.7		155	11				25
		L	1967 P	Helsinki: Schoolage girls	F	12.00- 20.99	178					23.0				125	

NOTES

FINLAND

Reference No: 4473

General Notes: *This dietary study was part of the FINDIET 1997 study and done in the capital area (Helsinki and Vantaa), one of the five regions; sampling: for the entire study, a random sample of 10,000 persons aged 25-64 yrs was drawn from population registers of five regions in Finland, the original sample for this dietary study included 400 women and 400 men, 275 (68.8%) women and 266 (66.5%) men participated; Hb determination only for subsample (190 NPW, 239 men); disaggregated data by use of iron supplements.*

Line note 1 Prevalence of anaemia 3.3% (Hb <120 g/L NPW, Hb <130 g/L men).

Line note 2 Only mean Hb values.

Line note 3 Only mean Hb values.

Reference No: 3359a

General Notes: *Facility based study (Helsinki University Central Hospital -HYKS); publication translated by a colleague; sampling: first 199 PW who delivered in the hospital were selected; 1992 policy: no iron supplementation; 2 blood samples were taken, one before and one after delivery; Hb cut-off level PW not according to WHO recommendations (please see 'Key to the data tables').*

Line note 4 Same women as the PW.

Reference No: 3359b

General Notes: *Facility based study (Helsinki University Central Hospital -HYKS); publication translated by a colleague; sampling: first 199 PW who delivered in the hospital were selected; 1986 policy: iron supplementation during pregnancy; 2 blood samples were taken, one before and one after delivery; Hb cut-off level PW not according to WHO recommendations (please see 'Key to the data tables').*

Line note 5 Same women as the PW.

Reference No: 3341

General Notes: *Facility based study (at least 4 schools); sampling: boys were selected through the schools, strict random samples were considered unnecessary; only mean Hb values.*

Line note 6 Mean (SD) age 9.1 (0.6) yrs.

Reference No: 2603

General Notes: *Sampling: 2 groups of healthy Finnish infants and children were studied, first group consisted of 238 full-term infants followed longitudinally through their first yr of life (blood samples taken at the ages of 2, 4, 6, 9 and 12 months), second group consisted of 803 healthy children aged 2, 4, 7, 10 and 15 yrs that represented a large sampling of the total population from a suburban (50% of total) and a rural community (90% of total); location not specified; only mean Hb values.*

Line note 7 Prevalence of iron deficiency 1.3% (transferrin saturation <16% or serum ferritin <10 µg/L).

Line note 8 Prevalence of iron deficiency 24.1% (transferrin saturation <16% or serum ferritin <10 µg/L).

Line note 9 Prevalence of iron deficiency 33.3% (transferrin saturation <16% or serum ferritin <10 µg/L).

Line note 10 Prevalence of iron deficiency 30.0% (transferrin saturation <16% or serum ferritin <10 µg/L).

Line note 11 Prevalence of iron deficiency 30.4% (transferrin saturation <16% or serum ferritin <10 µg/L).

Line note 12 Prevalence of iron deficiency 21.2% (transferrin saturation <16% or serum ferritin <10 µg/L).

Line note 13 Prevalence of iron deficiency 14.4% (transferrin saturation <16% or serum ferritin <10 µg/L).

Line note 14 Prevalence of iron deficiency 12.9% (transferrin saturation <16% or serum ferritin <10 µg/L).

Line note 15 Prevalence of iron deficiency 21.0% (transferrin saturation <16% or serum ferritin <10 µg/L).

Line note 16 Prevalence of iron deficiency 9.3% (transferrin saturation <16% or serum ferritin <10 µg/L); mean Hb value calculated.

Reference No: 2787

General Notes: *Multiphasic screening programme in different parts of Finland; sampling: the population aged 15 or over or a sample of it in selected districts was invited to participate, the districts were selected according to main occupations so that each part of Finland was represented by at least one urban, one rural district and by a factory; of those invited 26 104 men (81.5%) and 23 010 women (83.%) attended the examination; Hb determination only for subsample (23 189 men, 19 415 women); reference No. 2605 and 2607 also report results of this study.*

Line note 17 Disaggregated data by occupation.

Line note 18 Only mean Hb values.

Line note 19 Disaggregated data by occupation.

Line note 20 Exclusion of those screened in summer or in North Karelia.

Line note 21 Exclusion of those screened in summer or in North Karelia.

Line note 22 Exclusion of those screened in summer or in North Karelia; employees of factories.

Line note 23 Exclusion of those screened in summer or in North Karelia.

Line note 24 Exclusion of those screened in summer or in North Karelia.

Line note 25 Exclusion of those screened in summer or in North Karelia; employees of factories.

Reference No: 976

General Notes: *Facility based study (1 private and 1 state owned high school); sampling: design not explained; inclusion only of menstruating girls; Hb determination between day 11 and 17 of the menstrual cycle; disaggregated data by school, age, socioeconomic status; reference No. 987 is a follow-up intervention study.*

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