

DENMARK

Last Updated: 2008-01-23

Level	Date	Region and sample descriptor	Sex	Age (years)	Sample size	Haemoglobin (g/L)						Reference	Notes				
						Proportion (%) of population with haemoglobin below:							Mean	SD	Method	General	Line
						70	100	110	115	120	130						
S	1994	Copenhagen County: Elderly: Total	B	80.00- 80.99	358							D	5043	*	1		
		Copenhagen County: Elderly by sex	F	80.00- 80.99	187									2			
		Copenhagen County: Elderly by sex	M	80.00- 80.99	171									3			
S	1993 -1994	Copenhagen County: Men by age	M	41.00- 62.99	1069							D	2795	*	4		
		Copenhagen County: Men by age	M	71.00- 72.89	263									5			
S	1993 -1994	Copenhagen County: Women	F	41.00- 72.79	1319							D	2989	*	6		
R	1993 -1994	West Greenland: NPW	F	19.00- 78.99	119				9.2	132	10	D	699a	*	7		
		West Greenland: Men	M	23.00- 82.99	115				3.5	146	10			8			
L	1992 -1993	Copenhagen: Young adults: Total	B	16.00- 31.99	548							D	2793	*	9		
		Copenhagen: Young adults by sex	F	16.00- 31.99	284					126	7			10			
		Copenhagen: Young adults by sex	M	16.00- 31.99	264					145	8			11			
L	1992	Copenhagen: Young women by age	F	14.00- 19.99	181					131	8	C	2781	*	12		
		Copenhagen: Young women by age	F	20.00- 23.99	141					134	8			13			
		Copenhagen: Young men by age	M	14.00- 15.99	61					140	8			14			
		Copenhagen: Young men by age	M	16.00- 23.99	251					153	8			15			
L	1988 -1989	Roskilde: Elderly: Total	B	70.00- 75.99	185							D	3342	*	16		
		Roskilde: Elderly by sex	F	70.00- 75.99	94				6.4	135	11						
		Roskilde: Elderly by sex	M	70.00- 75.99	91				5.5	144	10						
S	1988	Copenhagen County: Women by age	F	35.00- 45.99	458					134	10	C	4962	*	17		
		Copenhagen County: Women by age	F	55.00- 65.99	72					137	11			18			
		Copenhagen County: Men	M	35.00- 65.99	156					150	10			19			
R	1987	Faroe Islands: Men	M	40.00- 49.99	118					0.0	9	C	2600	*	20		
L	1985	Copenhagen: PW: Total	F	19.00- 40.99	207			5.3				C	4349	*	21		
		Copenhagen: PW by intervention: Daily iron	F	19.00- 40.99	100			2.9									
		Copenhagen: PW by intervention: Placebo	F	19.00- 36.99	107			7.8									
S	1984 -1985	Copenhagen County: Women	F	70.00- 70.99	193					134	8	C	5108	*	22		

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						Proportion (%) of population with haemoglobin below:										General	Line
						70	100	110	115	120	130						
S	1984 -1985	Copenhagen County: Men	M	70.00- 70.99	240							142	11	C	5108		23
S	1983 -1984	Copenhagen County: NPW: Total	F	30.00- 60.99	1360					3.8		138	10	C	699b	*	24
		Copenhagen County: Men: Total	M	30.00- 60.99	1444						2.1	154	11				25
		Copenhagen County: NPW by age	F	30.00- 30.99	350							137	9				26
		Copenhagen County: NPW by age	F	40.00- 50.99	694							138	11				27
		Copenhagen County: NPW by age	F	60.00- 60.99	316							141	10				28
		Copenhagen County: Men by age	M	30.00- 30.99	382							154	10				29
		Copenhagen County: Men by age	M	40.00- 50.99	734							155	11				30
		Copenhagen County: Men by age	M	60.00- 60.99	348							153	12				31
S	1977	Copenhagen County: Women	F	80.00- 80.99	141							132	12	A	4472a	*	
		Copenhagen County: Men	M	80.00- 80.99	100							143	13				
D	1977	Northern District of Faroe Islands: Children: Total	B	4.00- 13.99	270									A	973	*	32
		Northern District of Faroe Islands: Children by sex	F	4.00- 13.99	117							143	6				33
		Northern District of Faroe Islands: Children by sex	M	4.00- 13.99	153							143	10				34
		Northern District of Faroe Islands: Children by age	B	4.00- 4.99	65			1.5				129					
		Northern District of Faroe Islands: Children by age	B	8.00- 8.99	101				0.0			137					
		Northern District of Faroe Islands: Children by age	B	13.00- 13.99	104					0.0		143					
S	1976	Copenhagen County: Women	F	40.00- 40.99	548							134	9	A	4472b	*	
		Copenhagen County: Men	M	40.00- 40.99	503							153	9				
S	1974	Copenhagen County: Women	F	60.00- 60.99	300							138	10	A	4472c	*	
		Copenhagen County: Men	M	60.00- 60.99	351							151	10				
L	1969P	Copenhagen: Children	B	3.00- 6.99	147							136	8	A	4544	*	
S	1967	Copenhagen County: Women	F	70.00- 70.99	203							141	11	A	4472d	*	
		Copenhagen County: Men	M	70.00- 70.99	219							153	13				
L	1965 -1966	Vester Nebel, Øster Starup, Egtved: SAC by sex	F	7.00- 17.99	416							100		D	2782	*	35
		Vester Nebel, Øster Starup, Egtved: SAC by sex	M	7.00- 17.99	395							101					36
S	1964	Copenhagen County: Women	F	50.00- 50.99	364							142	12	A	4472e	*	

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						Proportion (%) of population with haemoglobin below:							Mean	SD	Method	General	Line
						70	100	110	115	120	130						
S	1964	Copenhagen County: Men	M	50.00- 50.99	434							158	11	A	4472e		

NOTES

DENMARK

Reference No: 5043

General Notes: *Follow-up survey of the 1914 birth cohort examined in the Glostrup Population Studies (see reference No. 4472c, 4472e); method: Cell-Dyn 3500; sampling: 653 subjects were invited of whom 505 accepted the invitation; inclusion only of subjects who attended at least one of the previous follow-up examinations and who had a relatively good health status; Hb determination only for subsample; no data on anaemia.*

Line note 1 Prevalence of iron deficiency anaemia 1.7% (Hb <120 g/L females, Hb <130 g/L males+serum ferritin <13 µg/L).

Line note 2 Prevalence of iron deficiency anaemia 2.7% (Hb <120 g/L+serum ferritin <13 µg/L); median Hb: 131 g/L.

Line note 3 Prevalence of iron deficiency anaemia 0.6% (Hb <130 g/L+serum ferritin <13 µg/L); median Hb: 140 g/L.

Reference No: 2795

General Notes: *Follow-up survey (DAN-MONICA 10) of the survey conducted in 1982-1984 (DAN-MONICA 1; reference No. 699b); method: Technicon-H2; sampling: 2010 men could be located, of the 1978 candidates after exclusions (moved, death, refusal), 1333 men participated; inclusion only of Caucasian Danish men; no data on anaemia; see also reference No. 3519.*

Line note 4 Prevalence of iron deficiency anaemia 0.1% (Hb <129 g/L+serum ferritin <13 µg/L); prevalence of iron deficiency 0.2% (serum ferritin <13 µg/L).

Line note 5 Prevalence of iron deficiency anaemia 0.4% (Hb <129 g/L+serum ferritin <13 µg/L); prevalence of iron deficiency 0.4% (serum ferritin <13 µg/L).

Reference No: 2989

General Notes: *Follow-up survey (DAN-MONICA 10) of the survey conducted in 1982-1984 (DAN-MONICA 1; reference No. 699b); method: Technicon-H2; sampling: 2120 women could be located, of the 2095 candidates after exclusions (moved, death, refusal), 1323 women participated; inclusion only of Caucasian Danish women; no data on anaemia; see also reference No. 4390.*

Line note 6 Prevalence of iron deficiency anaemia 0.8% (Hb <121 g/L+serum ferritin <13 µg/L).

Reference No: 699a

General Notes: *Study in three areas of West Greenland (the capital Nuuk, the town Ilulissat, the small town Uummannaq and 4 settlements in a hunting district); age range adapted from reference No. 694; method: Sysmex K1000 and a Spectronic 301 instrument; sampling: a subsample of 264 was randomly selected from a cardiovascular risk factor survey; inclusion only of indigenous greenlanders; exclusion of 6 pregnant women; Hb determination only for 240 subjects; disaggregated data by age.*

Line note 7 Prevalence of iron deficiency anaemia 1.7% (Hb <118 g/L+serum ferritin <13 µg/L).

Line note 8 Prevalence of iron deficiency anaemia 0.0% (Hb <133 g/L+serum ferritin <13 µg/L).

Reference No: 2793

General Notes: *Method: Technicon H-2; sampling: random selection of 1027 subjects from a population of 1431 young people who as children had participated in blood pressure surveys in 1979-1980 and 1984-1985; exclusion of subjects with diabetes mellitus, who were pregnant and those living in the western part of Denmark or abroad; Hb determination only for subsample (264 men and 284 women); Hb cut-off levels not according to WHO recommendations (please see 'Key to the data tables'); see also reference No. 2794.*

Line note 9 Prevalence of anaemia 10.6% (Hb <121 g/L females, Hb <129 g/L males).

Line note 10 Prevalence of anaemia 18.3% (Hb <121 g/L); median Hb: 126 g/L.

Line note 11 Prevalence of anaemia 2.3% (Hb <129 g/L); median Hb: 145 g/L.

Reference No: 2781

General Notes: *Sampling: random sample of 983 children and adolescents were invited by letter to participate in a health survey in 1986, the same individuals were reinvited to a second examination (this study), 68% (n=665) agreed to participate; inclusion only of subjects born between 1969 and 1979, who were resident in the region around Rigshospitalet in the city of Copenhagen, who were fit without clinical signs of present infection and without any history of infection during the preceding 6 wks; Hb determination for 640 subjects only.*

Line note 12 Prevalence of iron deficiency anaemia 3.3% (Hb <121 g/L+serum ferritin <13 µg/L).

Line note 13 Prevalence of iron deficiency anaemia 0.7% (Hb <121 g/L+serum ferritin <13 µg/L).

Line note 14 Prevalence of iron deficiency anaemia 0.0% (Hb <129 g/L+serum ferritin <13 µg/L).

Line note 15 Prevalence of iron deficiency anaemia 0.0% (Hb <129 g/L+serum ferritin <13 µg/L).

Reference No: 3342

General Notes: *Euronut SENECA study (Survey in Europe on Nutrition and the Elderly, a Conserted Action) conducted in 19 towns (these were chosen for having a stable population of 10 000 to 20 000 and a socioeconomic structure comparable to that of the region or the country as a whole) situated in 12 European countries; method: Technicon H1 analyser; sampling: random sample stratified by sex and age, 202 out of 436 selected subjects were enrolled; inclusion only of elderly subjects born in 1913-1918; participation in blood sampling was not mandatory; Hb determination only for subsample; values for other Hb cut-off levels; see also reference No. 2598.*

Line note 16 Prevalence value calculated; prevalence of anaemia 5.9% (Hb <120 g/L females, Hb <130 g/L males).

Reference No: 4962

General Notes: *Follow-up survey (GEN-MONICA) of the survey conducted in 1982-1984 (DAN-MONICA 1; reference No. 699b); sampling: 3498 of the 3608 individuals examined in 1982-1984 were invited, 85% accepted and 2987 individuals aged 35, 45, 55 and 65 yrs were examined; Hb determination only for subsample; Hb cut-off levels not according to WHO recommendations (please see 'Key to the data tables'); see also reference No. 2596.*

Line note 17 Prevalence of anaemia 6.8% (Hb <121 g/L); median Hb: 132 g/L.

Line note 18 Prevalence of anaemia 6.8% (Hb <121 g/L); median Hb: 137 g/L.

Line note 19 Prevalence of anaemia 1.9% (Hb <129 g/L); median Hb: 150 g/L.

Reference No: 2600

General Notes: *Sampling: a random sample of 163 males aged 40-49 yrs old (out of 2925, according to the Faroese Central Personal Register) was invited to participate, 118 appeared for examination; 5 subjects had diabetes mellitus and 6 subjects an ischaemic heart disease.*

Line note 20 Median Hb: 153 g/L; 95% CI: 135 g/L, 171 g/L.

Reference No: 4349

General Notes: *Facility based study (Birth Clinic); baseline values of intervention study (daily iron, placebo); sampling: design not explained, pregnant women were enrolled within the 14th to 18th week of pregnancy; inclusion only of healthy females with a normal single pregnancy and an uncomplicated delivery; see also reference No. 4419, 4767, 5105, 5111.*

Line note 21 Prevalence value calculated.

Reference No: 5108

General Notes: *Sampling: two different randomly selected groups of 70-yr-old subjects (group 1 consisted of 736 survivors from a Glostrup cohort study of 50-yr-old subjects initially examined in 1964, see reference No. 4472e; group 2 was made up of 383 additional subjects drawn from the census register in 1984), 804 of the 1119 subjects invited participated; Hb determination only for subsample (n=469); exclusion of 36 subjects with inflammation, impaired renal function or hepatic disease; inclusion only of subjects born in 1914 and who lived in Copenhagen County; only mean Hb values.*

Line note 22 Median Hb: 134 g/L.

Line note 23 Median Hb: 142 g/L.

Reference No: 699b

General Notes: *Survey named "Monitoring of Trends and Determinants in Cardiovascular Disease" (DAN-MONICA 1); dates and sample information adapted from reference No. 2792, 5004; sampling: a randomized sample of 2403 women and 2404 men in age cohorts of 30, 40, 50 and 60 was derived from the census register, 2300 women and 2280 men participated and were examined from November 1982 through January 1984; inclusion only of residents of Glostrup and ten surrounding municipalities and subjects who were examined from February 1983 through January 1984; exclusion of foreigners and of pregnant women; see also reference No. 2591, 2593, 2597, 2786, 3519, 4390, 4527.*

Line note 24 Prevalence of iron deficiency anaemia 1.5% (Hb <122 g/L+serum ferritin <13 µg/L).

Line note 25 Prevalence of iron deficiency anaemia 0.0% (Hb <137 g/L+serum ferritin <13 µg/L).

Line note 26 Only mean Hb values.

Line note 27 Only mean Hb values.

Line note 28 Only mean Hb values.

Line note 29 Only mean Hb values.
Line note 30 Only mean Hb values.
Line note 31 Only mean Hb values.

Reference No: 4472a

General Notes: *Part of Glostrup Population Studies in which three population cohorts (born in 1897, 1914, 1936) have been examined (see also reference No. 4472b, 4472c, 4472d, 4472e); follow-up survey of the 70-year age group (cohort born in 1897); sampling: one-year age groups were selected, an invitation was sent to all men and women (n=361) who according to lists obtained from the Central Person Register were born in the selected year and lived in the study area, 246 were examined; only mean Hb values.*

Reference No: 973

General Notes: *Study in the northern district of the Faroe Islands consisting of the islands Eysteroy, Bordoy, Kalsoy, Kunoy, Vidoy, Svinoy and Fugloy; sampling: 479 of all children (n=554) selected from the local national registers participated; Hb determination only for 409 children, 270 children only with serum ferritin analysis available were included in the analysis; inclusion only of children aged 4, 8 and 13 yrs born and raised in the Faroe Islands; since individual data was provided, the WHO Hb cut-off levels were applied instead of the study's ones.*

Line note 32 Prevalence of anaemia 0.3% (Hb <110 g/L 4 yrs, Hb <115 g/L 8 yrs, Hb <120 g/L 13 yrs).

Line note 33 Prevalence of anaemia 0.0% (Hb <110 g/L 4 yrs, Hb <115 g/L 8 yrs, Hb <120 g/L 13 yrs).

Line note 34 Prevalence of anaemia 0.7% (Hb <110 g/L 4 yrs, Hb <115 g/L 8 yrs, Hb <120 g/L 13 yrs).

Reference No: 4472b

General Notes: *Part of Glostrup Population Studies in which three population cohorts (born in 1897, 1914, 1936) have been examined (see also reference No. 4472a, 4472c, 4472d, 4472e); survey of the 1936-cohort in 4 municipalities; sampling: one-year age groups were selected, an invitation was sent to all men and women (n=1198) who according to lists obtained from the Central Person Register were born in the selected year and lived in the study area, 1052 were examined; only mean Hb values.*

Reference No: 4472c

General Notes: *Part of Glostrup Population Studies in which three population cohorts (born in 1897, 1914, 1936) have been examined (see also reference No. 4472a, 4472b, 4472d, 4472e); follow-up survey of the 50-year age group (cohort born in 1914); sampling: one-year age groups were selected, an invitation was sent to all men and women (n=890) who according to lists obtained from the Central Person Register were born in the selected year and lived in the study area, 666 were examined; only mean Hb values.*

Reference No: 4544

General Notes: *Facility based study (6 kindergartens); baseline values of intervention study; sampling: design not explained; inclusion only of children born in the years 1961 to 1964 inclusive and attending the kindergartens; only mean Hb values; disaggregated data by age.*

Reference No: 4472d

General Notes: *Part of Glostrup Population Studies in which three population cohorts (born in 1897, 1914, 1936) have been examined (see also reference No. 4472a, 4472b, 4472c, 4472e); survey of the 1897-cohort in 9 municipalities; sampling: one-year age groups were selected, an invitation was sent to all men and women (n=636) who according to lists obtained from the Central Person Register were born in the selected year and lived in the study area, 440 were examined; only mean Hb values.*

Reference No: 2782

General Notes: *Facility based study (schools) in 3 municipalities; method: Sicca-haemometer; sampling: all 839 school children were enrolled; Hb determination only for subsample (n=811); only mean Hb values and severe anaemia prevalence; translation provided by Danish colleague.*

Line note 35 Prevalence of severe anaemia 0.2% (Hb <80 g/L).

Line note 36 Prevalence of severe anaemia 0.0% (Hb <80 g/L).

Reference No: 4472e

General Notes: *Part of Glostrup Population Studies in which three population cohorts (born in 1897, 1914, 1936) have been examined (see also reference No. 4472a, 4472b, 4472c, 4472d); survey of the 1914-cohort in 7 municipalities; sampling: one-year age groups were selected, an invitation was sent to all men and women (n=975) who according to lists obtained from the Central Person Register were born in the selected year and lived in the study area, 802 were examined; only mean Hb values.*

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