

REPUBLIC OF KOREA (THE)

Last Updated: 2007-09-13

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	2005	All: Total	B	10.00-NS	NS									5835	*	1	
		All by sex	F	10.00-NS	NS											2	
		All by sex	B	10.00-NS	NS											3	
		SAC: Total	B	10.00- 14.99	NS											4	
		Adults by age	B	15.00- 19.99	NS											5	
		Adults by age	B	20.00- 24.99	NS											6	
		Adults by age	B	25.00- 29.99	NS											7	
		Adults by age	B	30.00- 34.99	NS											8	
		Adults by age	B	35.00- 39.99	NS											9	
		Adults by age	B	40.00- 44.99	NS											10	
		Adults by age	B	45.00- 49.99	NS											11	
		Adults by age	B	50.00- 54.99	NS											12	
		Adults by age	B	55.00- 59.99	NS											13	
		Elderly by age	B	60.00- 64.99	NS											14	
		Elderly by age	B	65.00- 69.99	NS											15	
		Elderly by age	B	70.00- 74.99	NS											16	
		Elderly by age	B	75.00-NS	NS											17	
		Women by age	F	15.00- 19.99	NS											18	
		Women by age	F	20.00- 24.99	NS											19	
		Women by age	F	25.00- 29.99	NS											20	
		Women by age	F	30.00- 34.99	NS											21	
		Women by age	F	35.00- 39.99	NS											22	
		Women by age	F	40.00- 44.99	NS											23	
		Women by age	F	45.00- 49.99	NS											24	
		Women by age	F	50.00- 54.99	NS											25	
		Women by age	F	55.00- 59.99	NS											26	
		Elderly women by age	F	60.00- 64.99	NS					8.4							
		Elderly women by age	F	65.00- 64.99	NS					6.7							
		Elderly women by age	F	70.00- 74.99	NS					8.4							
		Elderly women by age	F	75.00-NS	NS					14.4							
		Men by age	M	15.00- 19.99	NS												
		Men by age	M	20.00- 24.99	NS												
		Men by age	M	25.00- 29.99	NS												
		Men by age	M	30.00- 34.99	NS												
		Men by age	M	35.00- 39.99	NS												
		Men by age	M	40.00- 44.99	NS												

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						Proportion (%) of population with haemoglobin below:										General	Line
						70	100	110	115	120	130						
N	2005	Men by age	M	45.00- 49.99	NS						2.9			5835			
		Men by age	M	50.00- 54.99	NS						3.0						
		Men by age	M	55.00- 59.99	NS						2.4						
		Elderly men by age	M	60.00- 64.99	NS						5.4						
		Elderly men by age	M	65.00- 64.99	NS						5.7						
		Elderly men by age	M	70.00- 74.99	NS						16.6						
		Elderly men by age	M	75.00-NS	NS						21.8						
		SAC by sex	F	10.00- 14.99	NS												27
		SAC by sex	M	10.00- 14.99	NS												28
DU	2002	Guro, Yangcheon and Gwanak Districts: Elderly: Tot	B	60.00- 95.99	1254								C	4753	*	29	
		Guro, Yangcheon and Gwanak Districts: Elderly by s	F	60.00- 95.99	981					14.7	130	11					30
		Guro, Yangcheon and Gwanak Districts: Elderly by s	M	60.00- 95.99	273					9.9	145	14					31
		Guro, Yangcheon and Gwanak Districts: Elderly by a	B	60.00- 69.99	537						134	12					32
		Guro, Yangcheon and Gwanak Districts: Elderly by a	B	70.00- 79.99	583						133	14					33
		Guro, Yangcheon and Gwanak Districts: Elderly by a	B	80.00- 95.99	134						129	15					34
N	2001	All: Total	B	10.00-NS	8064								NS	5249	*	35	
		All by sex	F	10.00-NS	4430												36
		All by sex	M	10.00-NS	3634												37
		SAC	B	10.00- 14.99	833												38
		Adults by age	B	15.00- 19.99	630												39
		Adults by age	B	20.00- 24.99	475												40
		Adults by age	B	25.00- 29.99	626												41
		Adults by age	B	30.00- 34.99	817												42
		Adults by age	B	35.00- 39.99	850												43
		Adults by age	B	40.00- 44.99	864												44
		Adults by age	B	45.00- 49.99	661												45
		Adults by age	B	50.00- 54.99	478												46
		Adults by age	B	55.00- 59.99	471												47
		Adults by age	B	60.00- 64.99	439												48
		Elderly by age	B	65.00- 69.99	365												49
		Elderly by age	B	70.00- 74.99	266												50
		Elderly by age	B	75.00-NS	289												51
		Women by age	F	15.00- 19.99	NS						8.3						
		Women by age	F	20.00- 24.99	NS						13.2						

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						Proportion (%) of population with haemoglobin below:										General	Line
						70	100	110	115	120	130						
N	2001	Women by age	F	25.00- 29.99	NS					9.7			NS	5249			
		Women by age	F	30.00- 34.99	NS					15.3							
		Women by age	F	35.00- 39.99	NS					14.0							
		Women by age	F	40.00- 44.99	NS					13.2							
		Women by age	F	45.00- 49.99	NS					10.4							
		Women by age	F	50.00- 54.99	NS					9.9							
		Women by age	F	55.00- 59.99	NS					5.2							
		Women by age	F	60.00- 64.99	NS					6.4							
		Elderly women by age	F	65.00- 69.99	NS					7.3							
		Elderly women by age	F	70.00- 74.99	NS					5.1							
		Elderly women by age	F	75.00-NS	NS					15.7							
		Men by age	M	15.00- 19.99	NS												
		Men by age	M	20.00- 24.99	NS					2.6							
		Men by age	M	25.00- 29.99	NS					0.4							
		Men by age	M	30.00- 34.99	NS					1.1							
		Men by age	M	35.00- 39.99	NS					0.2							
		Men by age	M	40.00- 44.99	NS					1.4							
		Men by age	M	45.00- 49.99	NS					2.7							
		Men by age	M	50.00- 54.99	NS					4.8							
		Men by age	M	55.00- 59.99	NS					1.1							
		Men by age	M	60.00- 64.99	NS					3.6							
		Elderly men by age	M	65.00- 69.99	NS					7.8							
		Elderly men by age	M	70.00- 74.99	NS					8.8							
Elderly men by age	M	75.00-NS	NS					23.2									
SAC by sex	F	10.00- 14.99	NS									52					
SAC by sex	M	10.00- 14.99	NS									53					
L	2000P	Inchon: PW	F	NS	527			35.3					NS	4759			
		Inchon: Neonates by sex	F	0.00	253						159	10				*	54
		Inchon: Neonates by sex	M	0.00	274						159	10					56
N	1998	Women by age	F	15.00- 19.99	670						130	14	A	3326			
		Women by age	F	20.00- 24.99	583						130	14					
		Women by age	F	25.00- 29.99	715						128	17					
		Women by age	F	30.00- 34.99	699						129	15					
		Women by age	F	35.00- 39.99	761						129	17					

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						Proportion (%) of population with haemoglobin below:										General	Line
						70	100	110	115	120	130						
N	1998	Women by age	F	40.00- 44.99	660							128	17	A	3326		
		Women by age	F	45.00- 49.99	455								129			18	
		Women by age	F	50.00- 54.99	395								132			12	
		Women by age	F	55.00- 59.99	393								131			14	
		Women by age	F	60.00- 64.99	362								132			14	
		Women by age	F	65.00- 69.99	247								133			11	
		Women by age	F	70.00- 74.99	198								129			19	
		Women by age	F	75.00- 79.99	135								131			16	
		Women by age	F	80.00-NS	115								129			13	
		Men by age	M	15.00- 19.99	687								151			14	
		Men by age	M	20.00- 24.99	432								154			15	
		Men by age	M	25.00- 29.99	667								154			16	
		Men by age	M	30.00- 34.99	679								154			17	
		Men by age	M	35.00- 39.99	752								153			13	
		Men by age	M	40.00- 44.99	677								153			16	
		Men by age	M	45.00- 49.99	477								153			15	
		Men by age	M	50.00- 54.99	392								151			15	
		Men by age	M	55.00- 59.99	362								151			16	
		Men by age	M	60.00- 64.99	306								148			14	
		Men by age	M	65.00- 69.99	192								146			16	
		Men by age	M	70.00- 74.99	119								145			14	
		Men by age	M	75.00- 79.99	65								139			22	
		Men by age	M	80.00-NS	42								131			23	
		Children by sex	F	10.00- 14.99	566								133			12	
Children by sex	M	10.00- 14.99	618								137	12					
N	1995	Adults by age	B	15.00- 19.99	538							132	21	A	3327	*	57
		Adults by age	B	20.00- 24.99	452								128			25	58
		Adults by age	B	25.00- 29.99	506								130			21	59
		Adults by age	B	30.00- 39.99	1155								130			18	60
		Adults by age	B	40.00- 49.99	904								132			20	61
		Adults by age	B	50.00- 59.99	767								131			18	62
		Adults by age	B	60.00- 69.99	445								129			18	63
		Adults by age	B	70.00-NS	309								126			17	64
		Women by age	F	15.00- 19.99	254								127			17	65
		Women by age	F	20.00- 24.99	263								122			20	66

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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	1995	Women by age	F	25.00- 29.99	262							124	14	A	3327		67
		Women by age	F	30.00- 39.99	596							125	16			68	
		Women by age	F	40.00- 49.99	460							125	15			69	
		Women by age	F	50.00- 59.99	404							126	16			70	
		Women by age	F	60.00- 69.99	261							125	15			71	
		Women by age	F	70.00-NS	192							123	15			72	
		Men by age	M	15.00- 19.99	284							136	23			73	
		Men by age	M	20.00- 24.99	189							135	28			74	
		Men by age	M	25.00- 29.99	244							136	24			75	
		Men by age	M	30.00- 39.99	559							136	18			76	
		Men by age	M	40.00- 49.99	444							138	22			77	
		Men by age	M	50.00- 59.99	363							137	18			78	
		Men by age	M	60.00- 69.99	184							134	21			79	
		Men by age	M	70.00-NS	117							130	20			80	
		Pre-SAC: Total	B	0.00- 6.99	443												81
		SAC: Total	B	7.00- 14.99	744												82
		N	1994	Children by age	B	0.00- 6.99	218			10.1							
Children by age	B			7.00- 14.99	422			7.8		24.2							
Children by age and area: Urban	B			0.00- 6.99	195			8.2									
Children by age and area: Urban	B			7.00- 14.99	336			5.1		21.1							
Children by age and area: Rural	B			0.00- 6.99	23			26.1									
Children by age and area: Rural	B			7.00- 14.99	86			18.6		36.0							
N	1993	Women: Total	F	18.00-NS	2594					29.0				A	840	*	83
		Men: Total	M	18.00-NS	2250					25.0							
		Children by sex and age	F	NS- 1.99	71			9.9									
		Children by sex and age	M	NS- 1.99	92			5.4									
		Children by sex and age	F	2.00- 5.99	190			10.5									
		Children by sex and age	M	2.00- 5.99	225			6.7									
		Children by sex and age	F	6.00- 12.99	412			8.3									
		Children by sex and age	M	6.00- 12.99	489			5.5									
		Children by sex and age	F	13.00- 16.99	255					27.8							
		Children by sex and age	M	13.00- 16.99	247					11.3							

NOTES

REPUBLIC OF KOREA (THE)

Reference No: 5835

General Notes: *Sampling: Stratified (by region, area, housing type) two-stage cluster sampling.*

- Line note 1** Prevalence of anaemia 5.9% (Hb <110 g/L PW; Hb <115g/L, 10-11 yrs; Hb <120g/L, 12-14 yrs, women; Hb <130 g/L men).
- Line note 2** Prevalence of anaemia 9.5% (Hb <110 g/L PW; Hb <115g/L, 10-11 yrs; Hb <120g/L, 12-14 yrs, women).
- Line note 3** Prevalence of anaemia 2.2% (Hb <115g/L, 10-11 yrs; Hb <120g/L, 12-14 yrs; Hb <130 g/L).
- Line note 4** Prevalence of anaemia 2.0% (Hb <115g/L, 10-11 yrs; Hb <120g/L, 12-14 yrs).
- Line note 5** Prevalence of anaemia 5.4% (Hb <110 g/L PW; Hb <120g/L, women; Hb <130 g/L men).
- Line note 6** Prevalence of anaemia 2.8% (Hb <110 g/L PW; Hb <120g/L, women; Hb <130 g/L men).
- Line note 7** Prevalence of anaemia 6.6% (Hb <110 g/L PW; Hb <120g/L, women; Hb <130 g/L men).
- Line note 8** Prevalence of anaemia 4.6% (Hb <110 g/L PW; Hb <120g/L, women; Hb <130 g/L men).
- Line note 9** Prevalence of anaemia 7.6% (Hb <110 g/L PW; Hb <120g/L, women; Hb <130 g/L men).
- Line note 10** Prevalence of anaemia 6.4% (Hb <110 g/L PW; Hb <120g/L, women; Hb <130 g/L men).
- Line note 11** Prevalence of anaemia 7.0% (Hb <110 g/L PW; Hb <120g/L, women; Hb <130 g/L men).
- Line note 12** Prevalence of anaemia 4.6% (Hb <110 g/L PW; Hb <120g/L, women; Hb <130 g/L men).
- Line note 13** Prevalence of anaemia 2.9% (Hb <110 g/L PW; Hb <120g/L, women; Hb <130 g/L men).
- Line note 14** Prevalence of anaemia 7.0% (Hb <120g/L, women; Hb <130 g/L men).
- Line note 15** Prevalence of anaemia 6.3% (Hb <120g/L, women; Hb <130 g/L men).
- Line note 16** Prevalence of anaemia 11.8% (Hb <120g/L, women; Hb <130 g/L men).
- Line note 17** Prevalence of anaemia 16.7% (Hb <120g/L, women; Hb <130 g/L men).
- Line note 18** Prevalence of anaemia 9.9% (Hb <110 g/L PW; Hb <120g/L, women).
- Line note 19** Prevalence of anaemia 5.8% (Hb <110 g/L PW; Hb <120g/L, women).
- Line note 20** Prevalence of anaemia 13.1% (Hb <110 g/L PW; Hb <120g/L, women).
- Line note 21** Prevalence of anaemia 9.2% (Hb <110 g/L PW; Hb <120g/L, women).
- Line note 22** Prevalence of anaemia 15.1% (Hb <110 g/L PW; Hb <120g/L, women).
- Line note 23** Prevalence of anaemia 12.1% (Hb <110 g/L PW; Hb <120g/L, women).
- Line note 24** Prevalence of anaemia 11.4% (Hb <110 g/L PW; Hb <120g/L, women).
- Line note 25** Prevalence of anaemia 6.3% (Hb <110 g/L PW; Hb <120g/L, women).
- Line note 26** Prevalence of anaemia 3.4% (Hb <110 g/L PW; Hb <120g/L, women).
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- Line note 27** Prevalence of anaemia 4.0% (Hb <115g/L, 10-11 yrs; Hb <120g/L, 12-14 yrs).
- Line note 28** Prevalence of anaemia 0.3% (Hb <115g/L, 10-11 yrs; Hb <120g/L, 12-14 yrs).

Reference No: 4753

General Notes: *Study in three urban districts (Guro, Yangcheon, Gwarak); sampling: 2854 subjects aged over 60 yrs out of 118.444 registered were randomly selected, n=1254 apparently healthy individuals agreed to participate.*

- Line note 29** Prevalence of anaemia 13.6% (Hb <120g/L females, Hb <130 g/L males); prevalence of iron deficiency anaemia 1.0% (Hb <120 g/L females, Hb <130 g/L males+serum ferritin <10 µg/L females, <20 µg/L males); mean age 70.0 yrs.
- Line note 30** Prevalence of iron deficiency anaemia 0.8% (Hb <120 g/L+serum ferritin <10 µg/L); mean (SD) age 71.0 (5.4) yrs.
- Line note 31** Prevalence of iron deficiency anaemia 1.5% (Hb <130 g/L+serum ferritin <20 µg/L); mean (SD) age 71.5 (6.2) yrs.

- Line note 32** Prevalence of anaemia 7.6% (Hb <120 g/L females, Hb <130 g/L males).
Line note 33 Prevalence of anaemia 16.5% (Hb <120 g/L females, Hb <130 g/L males).
Line note 34 Prevalence of anaemia 25.4% (Hb <120 g/L females, Hb <130 g/L males).

Reference No: 5249

General Notes: *Sampling: sample selected with a stratified and systematic sampling method; subsample of the sample included in the "National Health and Nutrition Survey 2001".*

- Line note 35** Prevalence of anaemia 7.0% (Hb <115 g/L both sexes 10-11 yrs, Hb < 120 g/L both sexes 12-14 yrs and females 15+ yrs, Hb <130 g/L males 15+ yrs).
Line note 36 Prevalence of anaemia 10.3% (Hb <115 g/L both sexes 10-11 yrs, Hb < 120 g/L both sexes 12-14 yrs and females 15+ yrs, Hb <130 g/L males 15+ yrs).
Line note 37 Prevalence of anaemia 2.7% (Hb <115 g/L both sexes 10-11 yrs, Hb < 120 g/L both sexes 12-14 yrs and females 15+ yrs, Hb <130 g/L males 15+ yrs).
Line note 38 Prevalence of anaemia 2.2% (Hb <115 g/L both sexes 10-11 yrs, Hb < 120 g/L both sexes 12-14 yrs).
Line note 39 Prevalence of anaemia 4.0% (Hb < 120 g/L females 15+ yrs, Hb <130 g/L males 15+ yrs).
Line note 40 Prevalence of anaemia 8.5% (Hb < 120 g/L females 15+ yrs, Hb <130 g/L males 15+ yrs).
Line note 41 Prevalence of anaemia 5.9% (Hb < 120 g/L females 15+ yrs, Hb <130 g/L males 15+ yrs).
Line note 42 Prevalence of anaemia 9.8% (Hb < 120 g/L females 15+ yrs, Hb <130 g/L males 15+ yrs).
Line note 43 Prevalence of anaemia 8.2% (Hb < 120 g/L females 15+ yrs, Hb <130 g/L males 15+ yrs).
Line note 44 Prevalence of anaemia 8.5% (Hb < 120 g/L females 15+ yrs, Hb <130 g/L males 15+ yrs).
Line note 45 Prevalence of anaemia 7.0% (Hb < 120 g/L females 15+ yrs, Hb <130 g/L males 15+ yrs).
Line note 46 Prevalence of anaemia 8.0% (Hb < 120 g/L females 15+ yrs, Hb <130 g/L males 15+ yrs).
Line note 47 Prevalence of anaemia 3.2% (Hb < 120 g/L females 15+ yrs, Hb <130 g/L males 15+ yrs).
Line note 48 Prevalence of anaemia 5.1% (Hb < 120 g/L females 15+ yrs, Hb <130 g/L males 15+ yrs).
Line note 49 Prevalence of anaemia 7.5% (Hb < 120 g/L females 15+ yrs, Hb <130 g/L males 15+ yrs).
Line note 50 Prevalence of anaemia 6.5% (Hb < 120 g/L females 15+ yrs, Hb <130 g/L males 15+ yrs).
Line note 51 Prevalence of anaemia 18.6% (Hb < 120 g/L females 15+ yrs, Hb <130 g/L males 15+ yrs).

- Line note 52** Prevalence of anaemia 3.5% (Hb <115 g/L both sexes 10-11 yrs, Hb < 120 g/L both sexes 12-14 yrs).
Line note 53 Prevalence of anaemia 1.0% (Hb <115 g/L both sexes 10-11 yrs, Hb < 120 g/L both sexes 12-14 yrs).

Reference No: 4759

General Notes: *Facility based study (Inha University Hospital); sampling: design not explained; exclusion of newborns with a birth weight <2500 grams, foetal anomalies, incomplete or non-recorded data in the medical records or of whose mother had haematological malignancy; inclusion of 527 out of 608 mothers and their neonates admitted for delivery.*

- Line note 54** Prevalence of iron deficiency 43.5% (serum ferritin <12 µg/L).
Line note 55 Blood was drawn within 5 minutes of delivery; only mean Hb values.
Line note 56 Blood was drawn within 5 minutes of delivery; only mean Hb values.

Reference No: 3326

General Notes: *Report in Korean; relevant information and data table provided by Ministry of Health; only mean Hb values for the age groups (10-18, 19-44, 45-64, >64 yrs). SD calculated from SEM.*

Reference No: 3327

General Notes: *Methodology in Korean and relevant information provided by Ministry of Health; Hb cut-off level 0-14 yrs not according to WHO recommendations (please see 'Key to the data tables').*

- Line note 57** Only mean Hb values.
Line note 58 Only mean Hb values.
Line note 59 Only mean Hb values.

Line note 60 Only mean Hb values.
Line note 61 Only mean Hb values.
Line note 62 Only mean Hb values.
Line note 63 Only mean Hb values.
Line note 64 Only mean Hb values.
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Line note 73 Only mean Hb values.
Line note 74 Only mean Hb values.
Line note 75 Only mean Hb values.
Line note 76 Only mean Hb values.
Line note 77 Only mean Hb values.
Line note 78 Only mean Hb values.
Line note 79 Only mean Hb values.
Line note 80 Only mean Hb values.
Line note 81 Prevalence of anaemia 18.3% (Hb <111 g/L).
Line note 82 Prevalence of anaemia 30.0% (Hb <121 g/L).

Reference No: 842

General Notes: *Methodology in Korean and relevant information provided by Ministry of Health; sample of household nationally representative, but small sample size for children.*

Reference No: 840

General Notes: *Methodology in Korean and relevant information provided by Ministry of Health; sampling of household nationally representative, but small sample size for children; sample size for children is inconsistent between different tables; mean Hb values not given for the same age groups as prevalence data.*

Line note 83 Included PW.

REFERENCES

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