

ROMANIA

Last Updated: 2006-02-14

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						
N	2004 -2005	PW	F	NS	NS			42.5				105		D	164	*	
		Children by age	B	1.00- 1.07	NS			59.3									
		Children by age	B	1.00- 1.99	NS			56.8									
		Children by age	B	4.92- 4.99	NS			22.7									
		SAC	B	6.00- 7.99	NS				23.4								
N	1999	Children	B	1.00- 1.07	1054			45.0				110	13	B	5200a	*	
N	1998	Children: Total	B	1.00- 1.07	3449			48.4				109	14	B	5220b	*	
		Children by sex	F	1.00- 1.07	NS	0.8											
		Children by sex	M	1.00- 1.07	NS	0.9											
		Children by area: Urban	B	1.00- 1.07	NS	0.4											
		Children by area: Rural	B	1.00- 1.07	NS	1.3											
		Children by region: Moldova	B	1.00- 1.07	NS	0.5											
		Children by region: Muntesia	B	1.00- 1.07	NS	1.0											
		Children by region: Transilvania	B	1.00- 1.07	NS	1.1											
N	1997	Children: Total	B	1.00- 1.07	3440			46.1				109	13	B	5220c	*	
		Children by sex	F	1.00- 1.07	NS	0.3											
		Children by sex	M	1.00- 1.07	NS	0.5											
		Children by area: Urban	B	1.00- 1.07	NS	0.3											
		Children by area: Rural	B	1.00- 1.07	NS	0.6											
		Children by region: Moldova	B	1.00- 1.07	NS	0.5											
		Children by region: Muntesia	B	1.00- 1.07	NS	0.5											
		Children by region: Transilvania	B	1.00- 1.07	NS	0.1											
N	1996	Children: Total	B	1.00- 1.07	3178			49.0				109	14	B	5220d	*	
		Children by sex	F	1.00- 1.07	NS	0.3											
		Children by sex	M	1.00- 1.07	NS	1.0											
		Children by area: Urban	B	1.00- 1.07	NS	0.5											
		Children by area: Rural	B	1.00- 1.07	NS	0.8											
		Children by region: Moldova	B	1.00- 1.07	NS	0.9											
		Children by region: Muntesia	B	1.00- 1.07	NS	0.4											
		Children by region: Transilvania	B	1.00- 1.07	NS	0.8											
N	1995	Children: Total	B	1.00- 1.07	4033			51.1				108	14	B	5220e	*	

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						70	100	110	115	120	130							
N	1995	Children by sex	F	1.00- 1.07	NS	0.5							B	5220e		22		
		Children by sex	M	1.00- 1.07	NS	0.7											23	
		Children by area: Urban	B	1.00- 1.07	NS	0.6												24
		Children by area: Rural	B	1.00- 1.07	NS	0.6												25
		Children by region: Moldova	B	1.00- 1.07	NS	1.0												26
		Children by region: Muntesia	B	1.00- 1.07	NS	0.6												27
		Children by region: Transilvania	B	1.00- 1.07	NS	0.2												28
N	1994	Children: Total	B	1.00- 1.07	4960			46.6			110	15	B	5220f	*			
		Children by sex	F	1.00- 1.07	NS	0.5												29
		Children by sex	M	1.00- 1.07	NS	0.7												30
		Children by area: Urban	B	1.00- 1.07	NS	0.5												31
		Children by area: Rural	B	1.00- 1.07	NS	0.7												32
		Children by region: Moldova	B	1.00- 1.07	NS	0.5												33
		Children by region: Muntesia	B	1.00- 1.07	NS	0.5												34
Children by region: Transilvania	B	1.00- 1.07	NS	0.8										35				
N	1993	Children: Total	B	1.00- 1.07	5227			49.0			109	16	B	5220g	*			
		Children by sex	F	1.00- 1.07	NS	0.7												36
		Children by sex	M	1.00- 1.07	NS	1.1												37
		Children by area: Urban	B	1.00- 1.07	NS	0.5												38
		Children by area: Rural	B	1.00- 1.07	NS	1.3												39
		Children by region: Moldova	B	1.00- 1.07	NS	1.4												40
		Children by region: Muntesia	B	1.00- 1.07	NS	0.4												41
Children by region: Transilvania	B	1.00- 1.07	NS	1.3										42				
N	1992	Children: Total	B	1.00- 1.07	2682			53.8			107	16	B	5220h	*			
		Children by sex	F	1.00- 1.07	NS	0.8												43
		Children by sex	M	1.00- 1.07	NS	1.6												44
		Children by area: Urban	B	1.00- 1.07	NS	0.8												45
		Children by area: Rural	B	1.00- 1.07	NS	1.9												46
		Children by region: Moldova	B	1.00- 1.07	NS	1.1												47
		Children by region: Muntesia	B	1.00- 1.07	NS	0.9												48
Children by region: Transilvania	B	1.00- 1.07	NS	2.0										49				
N	1991	Children: Total	B	0.50- 4.99	4683								B	3272	*	50		

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						Proportion (%) of population with haemoglobin below:							Mean	SD	Method	General	Line
						70	100	110	115	120	130						
N	1991	Children by age	B	0.50- 0.99	757			51.8				107	14	B	3272		51
		Children by age	B	1.00- 1.99	1404			47.3				109	14				52
		Children by age	B	2.00- 2.99	1285							115	13				53
		Children by age	B	3.00- 3.99	668							119	13				54
		Children by age	B	4.00- 4.99	569							119	12				55

NOTES

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Reference No: 164

General Notes: *Sampling: stratified multi-stage cluster sampling; pregnant women: women entering maternities for delivery, within a follow-up period of 7 days; method: hemoglobinmetre.*

Reference No: 5200a

General Notes: *Facility based study (primary health care clinics in 20 counties and Bucharest); sampling: in each county 5 primary health care clinics randomly selected and in each clinic subject randomly selected.*

Reference No: 5220b

General Notes: *Facility based study (primary health care clinics in 20 counties and Bucharest); sampling: in each county 5 primary health care clinics randomly selected and in each clinic subject randomly selected.*

- Line note 1** Prevalence of anaemia 7.9% (Hb <90 g/L).
- Line note 2** Prevalence of anaemia 11.1% (Hb <90 g/L).
- Line note 3** Prevalence of anaemia 6.2% (Hb <90 g/L).
- Line note 4** Prevalence of anaemia 12.6% (Hb <90 g/L).
- Line note 5** Prevalence of anaemia 8.4% (Hb <90 g/L).
- Line note 6** Prevalence of anaemia 10.5% (Hb <90 g/L).
- Line note 7** Prevalence of anaemia 7.9% (Hb <90 g/L).

Reference No: 5220c

General Notes: *Facility based study (primary health care clinics in 20 counties and Bucharest); sampling: in each county 5 primary health care clinics randomly selected and in each clinic subject randomly selected.*

- Line note 8** Prevalence of anaemia 6.6% (Hb <90 g/L).
- Line note 9** Prevalence of anaemia 7.7% (Hb <90 g/L).
- Line note 10** Prevalence of anaemia 6.2% (Hb <90 g/L).
- Line note 11** Prevalence of anaemia 8.2% (Hb <90 g/L).
- Line note 12** Prevalence of anaemia 6.5% (Hb <90 g/L).
- Line note 13** Prevalence of anaemia 8.1% (Hb <90 g/L).
- Line note 14** Prevalence of anaemia 6.3% (Hb <90 g/L).

Reference No: 5220d

General Notes: *Facility based study (primary health care clinics in 20 counties and Bucharest); sampling: in each county 5 primary health care clinics randomly selected and in each clinic subject randomly selected.*

- Line note 15** Prevalence of anaemia 8.4% (Hb <90 g/L).
- Line note 16** Prevalence of anaemia 10.5% (Hb <90 g/L).
- Line note 17** Prevalence of anaemia 8.0% (Hb <90 g/L).
- Line note 18** Prevalence of anaemia 11.1% (Hb <90 g/L).
- Line note 19** Prevalence of anaemia 10.7% (Hb <90 g/L).
- Line note 20** Prevalence of anaemia 9.6% (Hb <90 g/L).
- Line note 21** Prevalence of anaemia 8.0% (Hb <90 g/L).

Reference No: 5220e

General Notes: *Facility based study (primary health care clinics in 20 counties and Bucharest); sampling: in each county 5 primary health care clinics randomly selected and in each clinic subject randomly selected.*

- Line note 22** Prevalence of anaemia 9.5% (Hb <90 g/L).
- Line note 23** Prevalence of anaemia 11.3% (Hb <90 g/L).
- Line note 24** Prevalence of anaemia 9.2% (Hb <90 g/L).
- Line note 25** Prevalence of anaemia 12.0% (Hb <90 g/L).
- Line note 26** Prevalence of anaemia 11.1% (Hb <90 g/L).
- Line note 27** Prevalence of anaemia 11.3% (Hb <90 g/L).
- Line note 28** Prevalence of anaemia 8.2% (Hb <90 g/L).

Reference No: 5220f

General Notes: *Facility based study (primary health care clinics in 20 counties and Bucharest); sampling: in each county 5 primary health care clinics randomly selected and in each clinic subject randomly selected.*

- Line note 29** Prevalence of anaemia 7.9% (Hb <90 g/L).
- Line note 30** Prevalence of anaemia 9.4% (Hb <90 g/L).
- Line note 31** Prevalence of anaemia 7.0% (Hb <90 g/L).
- Line note 32** Prevalence of anaemia 10.8% (Hb <90 g/L).
- Line note 33** Prevalence of anaemia 8.0% (Hb <90 g/L).
- Line note 34** Prevalence of anaemia 8.2% (Hb <90 g/L).
- Line note 35** Prevalence of anaemia 10.3% (Hb <90 g/L).

Reference No: 5220g

General Notes: *Facility based study (primary health care clinics in 20 counties and Bucharest); sampling: in each county 5 primary health care clinics randomly selected and in each clinic subject randomly selected.*

- Line note 36** Prevalence of anaemia 10.9% (Hb <90 g/L).
- Line note 37** Prevalence of anaemia 11.9% (Hb <90 g/L).
- Line note 38** Prevalence of anaemia 9.1% (Hb <90 g/L).
- Line note 39** Prevalence of anaemia 14.2% (Hb <90 g/L).
- Line note 40** Prevalence of anaemia 10.9% (Hb <90 g/L).
- Line note 41** Prevalence of anaemia 10.5% (Hb <90 g/L).
- Line note 42** Prevalence of anaemia 14.0% (Hb <90 g/L).

Reference No: 5220h

General Notes: *Facility based study (primary health care clinics in 20 counties and Bucharest); sampling: in each county 5 primary health care clinics randomly selected and in each clinic subject randomly selected.*

- Line note 43** Prevalence of anaemia 13.1% (Hb <90 g/L).
- Line note 44** Prevalence of anaemia 15.7% (Hb <90 g/L).
- Line note 45** Prevalence of anaemia 12.7% (Hb <90 g/L).
- Line note 46** Prevalence of anaemia 17.0% (Hb <90 g/L).
- Line note 47** Prevalence of anaemia 15.7% (Hb <90 g/L).
- Line note 48** Prevalence of anaemia 12.7% (Hb <90 g/L).
- Line note 49** Prevalence of anaemia 15.8% (Hb <90 g/L).

Reference No: 3272

General Notes: *Facility based study (dispensaries); sampling: multistage random sampling (1. 21 out of 41 districts; 2. in each district 5 dispensaries; 3. at each selected district 120 children), participation rate 87%; Hb determination only for subsample (43% of 10 957 enrolled children); Hb cut-off level ≥ 24 months not according to WHO recommendations (please see 'Key to the data tables').*

Line note 50 Prevalence value calculated; prevalence of anaemia 37.8% (Hb <110 g/L 0.5-1 yrs, Hb <112 g/L 2-4 yrs).

Line note 51 95% CI: 47.9%, 55.7%.

Line note 52 95% CI: 42.0%, 52.6%.

Line note 53 Prevalence of anaemia 33.0% (Hb <112 g/L); 95% CI: 28.1%, 37.9%.

Line note 54 Prevalence of anaemia 23.8% (Hb <112 g/L); 95% CI: 19.3%, 28.2%.

Line note 55 Prevalence of anaemia 23.3% (Hb <112 g/L); 95% CI: 18.6%, 28.0%.

REFERENCES

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- Reference 164** "Alfred Rusescu" Institute for Mother and Child Care. Nutritional status of pregnant women, children under 5 years and school children aged 6-7 years. Romania, "Alfred Rusescu" Institute for Mother and Child Care, 2005.
- Reference 3272** Scanlon K, Yip R, Parvanta I, Golder T, Palicari G, Lorgulesco D. Romania National Nutrition Survey, 1991: part I, child nutrition section. Atlanta, Centers for Disease Control and Prevention, 1993.
- Reference 5200** Institutul pentru Ocrotirea Mamei și Copilului "Alfred Rusescu", UNICEF [Romania]. Programul național de supraveghere nutrițională 1993-2000: Evoluția situației nutriționale și a comportamentului alimentar de la naștere la 5 ani [National nutritional surveillance program 1993-2000: Evolution of the nutritional status and of feeding practices from birth to the age of 5]. Bucharest, MarLink, 2002.
- Reference 5220** Pilliod K, Makonnen S, Roschnik N. School Health and Nutrition Baseline Survey Report. Haiti, Save the Children US, Haiti Field Office, 2003.

ADDITIONAL REFERENCES

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Reference 825

[Anonymous]. Country assessment prepared for 'Ending Hidden Hunger', Romania. A Policy Conference on Micronutrient Malnutrition; 1991 Oct 10-12; Montreal, Canada. Atlanta, Task Force for Child Survival and Development, 1991.