

EGYPT

Last Updated: 2007-08-09

Level	Date	Location and sample descriptor	Sex	Age (years)	Sample size	Prevalence of xerophthalmia (%)							Serum / plasma retinol concentration (µmol/l)			Reference	Notes			
						Current XN	Previous XN	X1B	X2	X3A	X3B	XS	Prevalence (%)				Mean	SD	General	Line
													<0.35	<0.70	< 1.05					
S	1999 P	Alexandria governorate: Pre-SAC: Total	B	0.50-5.99	1040									9.3	0.88	0.12	5684	*		
		Pre-SAC by sex	F	0.50-5.99	508									8.7						
		Pre-SAC by sex	M	0.50-5.99	532									10.0						
		Pre-SAC by area: Urban	B	0.50-5.99	831									7.7						
		Pre-SAC by area: Rural	B	0.50-5.99	209									15.8						
		Pre-SAC by status: Squatter	B	0.50-5.99	255									13.3						
		Pre-SAC by status: Non-squatter	B	0.50-5.99	786									8.0						
S	1998	Cairo governorate: SAC	B	NS	1000	1.80											2639	*		
		El-Sharkia governorate: SAC	B	NS	1000	1.30														
		Quena governorate: SAC	B	NS	1000	0.70														
L	1997	Beheira governorate/8 villages: Pre-SAC/SAC: Tot	B	0.00-11.99	8140			1.15										1650a	*	
		Pre-SAC by age	B	0.00-5.99	NS			0.21												
		SAC by age	B	6.00-11.99	NS			1.92												
R	1997	3 Governorates: Pre-SAC: Total	B	0.50-5.99	2408	0.04		0.08	0.08	0.04	0.00	0.00						1880	*	
		Pre-SAC by governorate: Assiut	B	0.50-5.99	879	0.10		0.10	0.10	0.10	0.10	0.00								
		Pre-SAC by governorate: Minia	B	0.50-5.99	706	0.00		0.10	0.10	0.00	0.00	0.00								
		Pre-SAC by governorate: Sohag	B	0.50-5.99	823	0.00		0.00	0.00	0.00	0.00	0.00								
		3 Governorates: Pre-SAC: Total	B	0.50-5.99	2587									4.8	0.90	0.10			1	
		Pre-SAC by sex	F	0.50-5.99	1064									4.3						
		Pre-SAC by sex	M	0.50-5.99	1505									5.2						
		Pre-SAC by age	B	0.00-0.99	442									4.3						
		Pre-SAC by age	B	1.00-1.99	678									4.6						
		Pre-SAC by age	B	2.00-2.99	545									4.6						
		Pre-SAC by age	B	3.00-3.99	407									6.6						
		Pre-SAC by age	B	4.00-4.99	278									4.7						
		Pre-SAC by age	B	5.00-5.99	219									4.1						
		Pre-SAC by sex and age	F	0.00-0.99	201									2.5						
		Pre-SAC by sex and age	F	1.00-1.99	290									3.1						
		Pre-SAC by sex and age	F	2.00-2.99	204									4.9						
		Pre-SAC by sex and age	F	3.00-3.99	176									7.4						
		Pre-SAC by sex and age	F	4.00-4.99	111									6.3						
		Pre-SAC by sex and age	F	5.00-5.99	82									2.4						
		Pre-SAC by sex and age	M	0.00-0.99	241									5.8						
		Pre-SAC by sex and age	M	1.00-1.99	388									5.7						
Pre-SAC by sex and age	M	2.00-2.99	341									4.4								

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						Current XN	Previous XN	X1B	X2	X3A	X3B	XS	Prevalence (%)				Mean	SD	General	Line
													<0.35	<0.70	< 1.05					
R	1997	<i>Pre-SAC by sex and age</i>	<i>M</i>	<i>3.00-3.99</i>	<i>231</i>														1880	
		<i>Pre-SAC by sex and age</i>	<i>M</i>	<i>4.00-4.99</i>	<i>167</i>															
		<i>Pre-SAC by sex and age</i>	<i>M</i>	<i>5.00-5.99</i>	<i>137</i>															
		<i>Pre-SAC by area: Urban</i>	<i>B</i>	<i>0.50-5.99</i>	<i>578</i>															
		<i>Pre-SAC by area: Rural</i>	<i>B</i>	<i>0.50-5.99</i>	<i>2009</i>															
		<i>Pre-SAC by governorate: Assiut</i>	<i>B</i>	<i>0.50-5.99</i>	<i>834</i>															
		<i>Pre-SAC by governorate: Minia</i>	<i>B</i>	<i>0.50-5.99</i>	<i>892</i>															
		<i>Pre-SAC by governorate: Sohag</i>	<i>B</i>	<i>0.50-5.99</i>	<i>861</i>															
		<i>Pre-SAC by governorate and area: Assiut urban</i>	<i>B</i>	<i>0.50-5.99</i>	<i>201</i>															
		<i>Pre-SAC by governorate and area: Assiut rural</i>	<i>B</i>	<i>0.50-5.99</i>	<i>633</i>															
		<i>Pre-SAC by governorate and area: Minia urban</i>	<i>B</i>	<i>0.50-5.99</i>	<i>178</i>															
		<i>Pre-SAC by governorate and area: Minia rural</i>	<i>B</i>	<i>0.50-5.99</i>	<i>714</i>															
		<i>Pre-SAC by governorate and area: Sohag urban</i>	<i>B</i>	<i>0.50-5.99</i>	<i>199</i>															
		<i>Pre-SAC by governorate and area: Sohag rural</i>	<i>B</i>	<i>0.50-5.99</i>	<i>662</i>															
S	1996	Beheira governorate: Pre-SAC/SAC: Total	B	0.00-11.99	2524			0.35											1650b	
		Pre-SAC by age	B	0.00-5.99	NS			0.09											*	
		SAC by age	B	6.00-11.99	NS			0.54												
L	1996	<i>Boulak-Eldakroul and Sohag hospitals: Newborns</i>	<i>B</i>	<i>0.00</i>	<i>84</i>								10.7	56.0		0.72	0.27	5164	*	2
N	1995	National: Pre-SAC: Total	B	0.50-5.99	1567	0.10		0.10	0.10										103	
		National: Women: Total	F	NS	1629	9.40		1.50												
		Pre-SAC by area: Urban	B	0.50-5.99	935	0.00		0.20	0.20											
		Pre-SAC by area: Rural	B	0.50-5.99	632	0.00		0.00	0.00											
		Pre-SAC by geographical area: Metropolitan	B	0.50-5.99	329	0.00		0.00	0.60											
		Pre-SAC by geographical area: Coastal	B	0.50-5.99	320	0.00		0.00	0.00											
		Pre-SAC by geographical area: Canal	B	0.50-5.99	323	0.00		0.30	0.00											
		Pre-SAC by geographical area: Lower Egypt	B	0.50-5.99	260	0.40		0.00	0.00											
		Pre-SAC by geographical area: Upper Egypt	B	0.50-5.99	335	0.00		0.30	0.00											
		Women by area: Urban	F	NS	979	8.10		1.40												
		Women by area: Rural	F	NS	650	11.40		9.40												
		Women by geographical area: Metropolitan	F	NS	329	4.30		0.60												
		Women by geographical area: Coastal	F	NS	320	7.80		1.60												
		Women by geographical area: Canal	F	NS	323	13.00		5.60												
Women by geographical area: Lower Egypt	F	NS	322	12.40		0.00														
Women by geographical area: Upper Egypt	F	NS	335	9.60		0.00														
National: Pre-SAC: Total	B	0.50-5.99	1577									0.6	11.9							

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						Current XN	Previous XN	X1B	X2	X3A	X3B	XS	Prevalence (%)				Mean	SD	General	Line
													<0.35	<0.70	< 1.05					
N	1995	National: Women: Total	F	NS	754								0.4	10.2			103			
		Pre-SAC by sex	F	0.50-5.99	747								0.3	11.1						
		Pre-SAC by sex	M	0.50-5.99	830								0.8	12.5						
		Pre-SAC by age	B	0.50-0.99	NS									18.2						
		Pre-SAC by age	B	1.00-1.99	NS									28.9						
		Pre-SAC by age	B	2.00-2.99	NS									17.1						
		Pre-SAC by age	B	3.00-3.99	NS									12.3						
		Pre-SAC by age	B	4.00-5.99	NS									23.5						
		Pre-SAC by area: Urban	B	0.50-5.99	957								0.5	11.4						
		Pre-SAC by area: Rural	B	0.50-5.99	620								0.6	12.7						
		Pre-SAC by geographical area: Metropolitan	B	0.50-5.99	317								0.3	10.4						
		Pre-SAC by geographical area: Coastal	B	0.50-5.99	321								0.3	9.7						
		Pre-SAC by geographical area: Canal	B	0.50-5.99	301								0.7	12.0						
		Pre-SAC by geographical area: Lower Egypt	B	0.50-5.99	318								1.3	15.4						
		Pre-SAC by geographical area: Upper Egypt	B	0.50-5.99	320								0.3	11.9						
		Women by area: Urban	F	NS	455								0.7	11.0						
		Women by area: Rural	F	NS	299								0.0	9.0						
		Women by geographical area: Metropolitan	F	NS	149								0.0	12.8						
		Women by geographical area: Coastal	F	NS	150								0.7	8.0						
		Women by geographical area: Canal	F	NS	165								0.0	3.0						
Women by geographical area: Lower Egypt	F	NS	150								0.0	12.0								
Women by geographical area: Upper Egypt	F	NS	140								1.4	16.4								
L	1984 -1985	Giza Governorate: SAC by age	B	6.00-7.99	NS											0.61	0.20	4597	*	
		Giza Governorate: SAC by age	B	8.00-9.99	NS											0.63	0.27			
		Giza Governorate: SAC by age	B	10.00-12.99	NS											0.67	0.15			

NOTES

EGYPT

Reference No: 5684

General notes: *Community-based survey. Two-stage PPS cluster sampling, representative of both urban and rural areas. Sample selected from each district in Alexandria governorate.*

Reference No: 2639

General notes: *Multi-stage random sampling. Sample comprised 1000 children from each of 3 governorates (Cairo, El-Sharik and Quena).*

Reference No: 1650a

General notes: *Follow-up survey from the 1996 Beheira governorate survey (reported in reference No. 1950b). "Village survey" in 8 villages (Beheira governorate) where more than 1 child with X1B had been detected in the 1996 survey.*

Reference No: 1880

General notes: *Multi-stage PPS cluster sampling. Sample comprised 30 clusters (communities) within 3 governorates (Assiut, Minia and Sohag).*

Note 1 Median: 0.93 $\mu\text{mol/L}$

Reference No: 1650b

General notes: *Two-stage PPS cluster sampling. Sample comprised 384 households in 55 clusters, Beheira governorate.*

Reference No: 5164

General notes: *Facility based study (hospitals). Sample comprised of neonates from 2 public hospitals: Boulak-Eldakrou (Giza urban) and Sohag (Sohag rural).*

Note 2 Cord blood.

Reference No: 103

General notes: *Multi-stage PPS sampling. Sample comprised children and mothers attending 2 PHC facilities within each of 2 districts (1 urban, 1 rural) within each governorate. Governorates subjectively selected to represent each geographical area.*

Reference No: 4597

General notes: *Sample comprised of SAC from Beri-Magdol and El-Fateh primary schools of Giza governorate. Total sample 271. Serum retinol concentrations converted from $\mu\text{g/dL}$ to $\mu\text{mol/L}$.*

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