

RESULTS OF RAPID ASSESSMENT OF AVOIDABLE BLINDNESS

AGE AND SEX ADJUSTED PREVALENCE AND ESTIMATED NUMBERS

Date and time of report:

14/01/2016

15:00:25

This report is for the survey area:

Peshawar District

Year and month when survey was conducted:

2013- 8 until 2013- 9

The prevalence of blindness and visual impairment increases strongly with age and in most communities, females are more affected than males. Normally, the people examined in the sample should have the same composition by age and by sex as the total population in the survey area. When there is a difference, the prevalence for the survey area will also differ. Table 2 and 3 compare the composition in the sample with that of the survey area. By combining the age and sex specific prevalence with the actual population, the age and sex adjusted prevalence and the actual number of people affected in the survey area can be calculated. The 95% confidence interval, based on the sample error in cluster sampling, is also given.

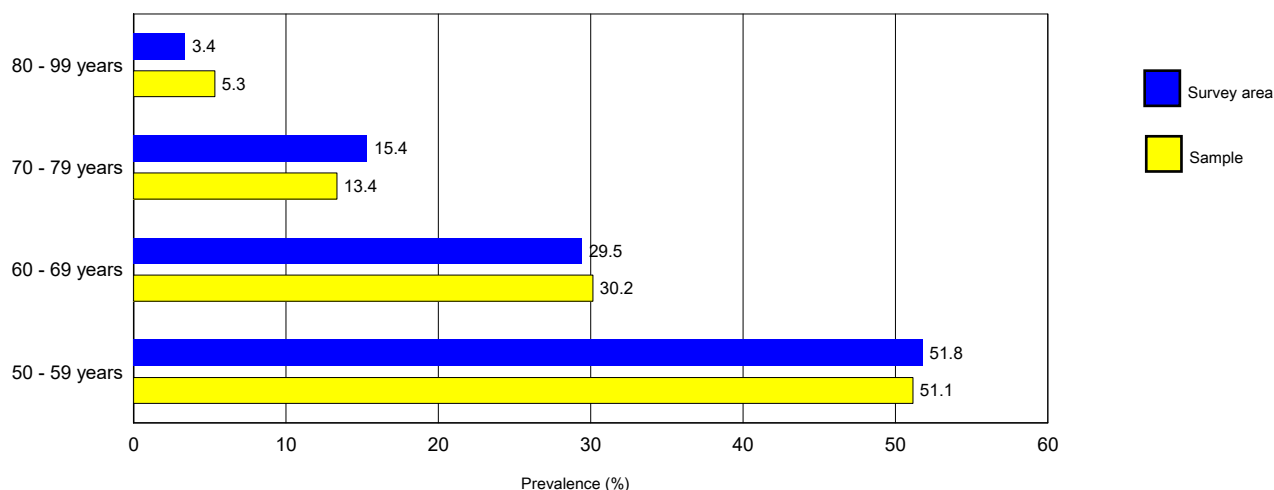
1. Age and sex distribution of people examined in the sample

	Males		Females		Total	
	n	%	n	%	n	%
50 - 59 years	804	51.1%	935	61.8%	1,739	56.4%
60 - 69 years	474	30.2%	406	26.9%	880	28.5%
70 - 79 years	210	13.4%	127	8.4%	337	10.9%
80 - 99 years	84	5.3%	44	2.9%	128	4.2%
Total	1,572	100.0%	1,512	100.0%	3,084	100.0%

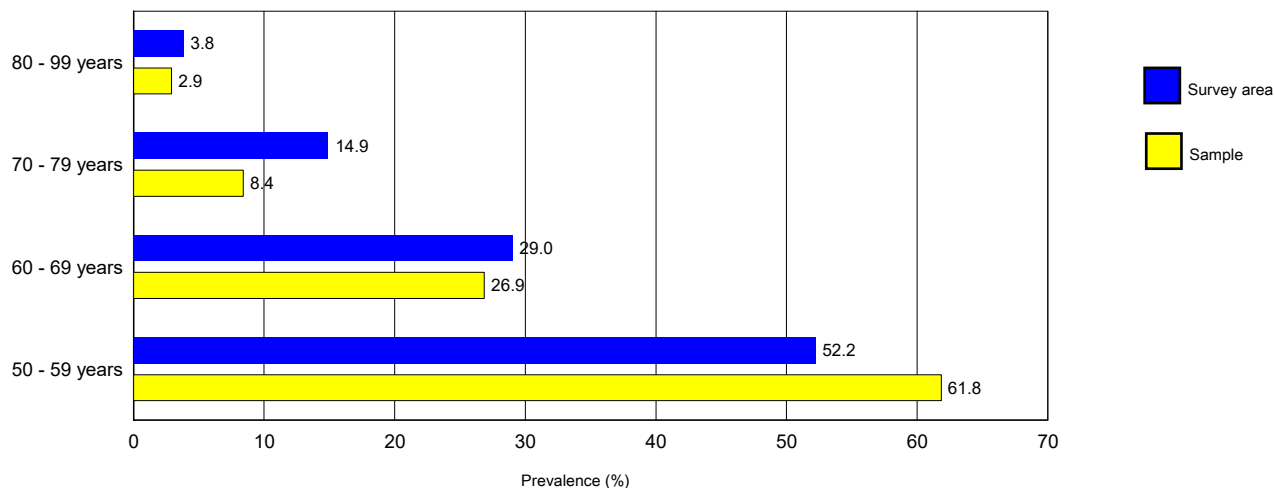
2. Total number of people aged 50+ in survey area

	Males		Females		Total	
	n	%	n	%	n	%
50 - 59 years	89,684	51.8%	71,862	52.2%	161,546	52.0%
60 - 69 years	50,999	29.5%	39,966	29.0%	90,965	29.3%
70 - 79 years	26,586	15.4%	20,536	14.9%	47,122	15.2%
80 - 99 years	5,900	3.4%	5,295	3.8%	11,195	3.6%
Total	173,169	100.0%	137,659	100.0%	310,828	100.0%

3. Proportion of males in total survey area and in sample



4. Proportion of females in total survey area and in sample



5. Adjusted results for all causes of blindness, severe (SVI), moderate (MVI) and early visual impairment (SVI)

	Males		Females		Total	
	n	% (95%CI)	n	% (95%CI)	n	% (95%CI)
Blindness - VA < 3/60 in the better eye with best correction or pinhole						
All bilateral cases	2,699	1.6 (0.9 - 2.2)	1,972	1.4 (0.9 - 1.9)	4,671	1.5 (1.1 - 1.9)
All eyes	18,455	5.3 (4.3 - 6.4)	14,492	5.3 (4.3 - 6.2)	32,947	5.3 (4.5 - 6.1)
Blindness - VA < 3/60 in the better eye with available correction (presenting VA)						
All bilateral cases	2,881	1.7 (1.0 - 2.3)	2,295	1.7 (1.1 - 2.3)	5,176	1.7 (1.2 - 2.1)
All eyes	19,832	5.7 (4.7 - 6.8)	16,755	6.1 (5.1 - 7.1)	36,587	5.9 (5.1 - 6.7)
Severe visual impairment (SVI) - VA<6/60 - 3/60 in the better eye with available correction						
All bilateral cases	1,749	1.0 (0.5 - 1.5)	1,662	1.2 (0.8 - 1.6)	3,411	1.1 (0.8 - 1.4)
All eyes	5,610	1.6 (1.2 - 2.1)	5,702	2.1 (1.5 - 2.6)	11,312	1.8 (1.5 - 2.2)
Moderate visual impairment (MVI) - VA<6/18 - 6/60 in the better eye with available correction						
All bilateral cases	9,521	5.5 (4.3 - 6.7)	14,537	10.6 (8.8 - 12.3)	24,058	7.7 (6.6 - 8.9)
All eyes	27,373	7.9 (6.6 - 9.2)	33,667	12.2 (10.6 - 13.9)	61,040	9.8 (8.7 - 11.0)

6. Adjusted results for all causes of blindness, VA<3/60, <6/60 and <6/18 with available correction

	Males		Females		Total	
	n	% (95%CI)	n	% (95%CI)	n	% (95%CI)
Blindness - VA < 3/60 in the better eye with available correction (presenting VA)						
All bilateral cases	2,881	1.7 (1.0 - 2.3)	2,295	1.7 (1.1 - 2.3)	5,176	1.7 (1.2 - 2.1)
All eyes	19,832	5.7 (4.7 - 6.8)	16,755	6.1 (5.1 - 7.1)	36,587	5.9 (5.1 - 6.7)
VA<6/60 in the better eye, with available correction (presenting VA)						
All bilateral cases	4,628	2.7 (1.9 - 3.5)	3,957	2.9 (2.1 - 3.6)	8,585	2.8 (2.2 - 3.3)
All eyes	25,442	7.3 (6.2 - 8.5)	22,456	8.2 (7.0 - 9.3)	47,898	7.7 (6.8 - 8.6)
VA<6/18 in the better eye, with available correction (presenting VA)						
All bilateral cases	14,150	8.2 (6.7 - 9.7)	18,494	13.4 (11.6 - 15.3)	32,644	10.5 (9.2 - 11.8)
All eyes	52,815	15.3 (13.3 - 17.2)	56,123	20.4 (18.4 - 22.4)	108,938	17.5 (15.9 - 19.1)

7. Adjusted results for cataract and blindness, SVI, MVI and EVI (best corrected)

	Males		Females		Total	
	n	% (95%CI)	n	% (95%CI)	n	% (95%CI)
Cataract and VA<3/60 with best correction or pinhole						
Bilateral cataract	674	0.4 (0.1 - 0.7)	859	0.6 (0.3 - 1.0)	1,533	0.5 (0.2 - 0.7)
Unilateral cataract	5,860	3.4 (2.5 - 4.3)	6,601	4.8 (3.7 - 5.9)	12,461	4.0 (3.3 - 4.7)
Cataract eyes	7,209	2.1 (1.5 - 2.7)	8,318	3.0 (2.4 - 3.7)	15,527	2.5 (2.0 - 3.0)
RP_CSVI2						
Bilateral cataract	524	0.3 (0.1 - 0.5)	641	0.5 (0.2 - 0.7)	1,165	0.4 (0.2 - 0.5)
Unilateral cataract	1,237	0.7 (0.3 - 1.1)	1,241	0.9 (0.4 - 1.4)	2,478	0.8 (0.4 - 1.2)
Cataract eyes	1,959	0.6 (0.3 - 0.8)	2,326	0.8 (0.5 - 1.2)	4,285	0.7 (0.4 - 0.9)
Cataract and Moderate VI (MVI) - VA<6/18 - 6/60 in better eye with best correction or pinhole						
Bilateral cataract	2,143	1.2 (0.8 - 1.7)	3,380	2.5 (1.9 - 3.0)	5,523	1.8 (1.4 - 2.1)
Unilateral cataract	2,946	1.7 (0.9 - 2.5)	4,333	3.1 (2.2 - 4.1)	7,279	2.3 (1.7 - 3.0)
Cataract eyes	6,174	1.8 (1.2 - 2.3)	10,145	3.7 (2.9 - 4.5)	16,319	2.6 (2.1 - 3.1)

8. Adjusted results for cataract and VA<3/60, <6/60, < 6/18 and <6/12 with best correction

	Males		Females		Total	
	n	% (95%CI)	n	% (95%CI)	n	% (95%CI)
Cataract and VA<3/60 with best correction or pinhole						
Bilateral cataract	674	0.4 (0.1 - 0.7)	859	0.6 (0.3 - 1.0)	1,533	0.5 (0.2 - 0.7)
Unilateral cataract	5,860	3.4 (2.5 - 4.3)	6,601	4.8 (3.7 - 5.9)	12,461	4.0 (3.3 - 4.7)
Cataract eyes	7,209	2.1 (1.5 - 2.7)	8,318	3.0 (2.4 - 3.7)	15,527	2.5 (2.0 - 3.0)
Cataract and VA<6/60 with best correction or pinhole						
Bilateral cataract	1,199	0.7 (0.3 - 1.1)	1,500	1.1 (0.6 - 1.6)	2,699	0.9 (0.6 - 1.2)
Unilateral cataract	7,097	4.1 (3.0 - 5.2)	7,842	5.7 (4.6 - 6.8)	14,939	4.8 (4.0 - 5.6)
Cataract eyes	9,169	2.6 (2.0 - 3.3)	10,645	3.9 (3.1 - 4.6)	19,814	3.2 (2.6 - 3.7)
Cataract and VA<6/18 with best correction or pinhole						
Bilateral cataract	3,341	1.9 (1.4 - 2.5)	4,881	3.5 (2.7 - 4.4)	8,222	2.6 (2.1 - 3.2)
Unilateral cataract	10,045	5.8 (4.3 - 7.3)	12,175	8.8 (7.2 - 10.5)	22,220	7.1 (6.0 - 8.3)
Cataract eyes	15,343	4.4 (3.5 - 5.3)	20,789	7.6 (6.3 - 8.8)	36,132	5.8 (5.0 - 6.7)

9. Adjusted results for aphakia and pseudophakia

	Males		Females		Total	
	n	% (95%CI)	n	% (95%CI)	n	% (95%CI)
Bilateral (pseudo)aphakia	8,428	4.9 (3.9 - 5.8)	7,064	5.1 (4.1 - 6.1)	15,492	5.0 (4.3 - 5.7)
Unilateral (pseudo)aphakia	9,013	5.2 (4.0 - 6.4)	10,238	7.4 (6.1 - 8.8)	19,251	6.2 (5.3 - 7.0)
Eyes (pseudo)aphakia	25,867	7.5 (6.4 - 8.6)	24,366	8.9 (7.5 - 10.2)	50,233	8.1 (7.2 - 9.0)

10. Adjusted results for cataract surgical coverage

	Males	Females	Total
Cataract Surgical Coverage (eyes) - percentage			
VA < 3/60	78.2	74.5	76.4
VA < 6/60	73.8	69.6	71.7
VA < 6/18	62.8	54.0	58.2
Cataract Surgical Coverage (persons) - percentage			
VA < 3/60	94.0	92.1	93.1
VA < 6/60	90.0	87.3	88.7
VA < 6/18	77.2	70.8	73.8