

RESULTS OF RAPID ASSESSMENT OF AVOIDABLE BLINDNESS

SUMMARY REPORT

Date and time of report: 14/01/2016 14:56:00

This report is for the survey area: Peshawar District

Year and month when survey was conducted: 2013- 8 until 2013- 9

This report shows the most important results from all the other reports. The 95% confidence interval (95% CI) is based on the sampling error in cluster sampling. More detailed information is provided in the other reports.

1. Eligible persons, coverage, absentees and refusals

	Examined		Not available		Refused		Not capable		Total	
	n	%	n	%	n	%	n	%	n	%
Males	1,572	96.3%	18	1.1%	40	2.5%	2	0.1%	1,632	100.0%
Females	1,512	97.4%	10	0.6%	30	1.9%	1	0.1%	1,553	100.0%
Total	3,084	96.8%	28	0.9%	70	2.2%	3	0.1%	3,185	100.0%

2. Age and gender 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+ years	84	5.3%	44	2.9%	128	4.2%
Total	1,572	100.0%	1,512	100.0%	3,084	100.0%

3. Sample prevalence of blindness, severe (SVI), moderate (MVI) and early (EVI) visual impairment - bilateral PVA

	Males		Females		Total	
	n	% (95% CI)	n	% (95% CI)	n	% (95% CI)
Blindness	29	1.8 (1.2 - 2.5)	19	1.3 (0.7 - 1.9)	48	1.6 (1.1 - 2.0)
Severe VI	17	1.1 (0.6 - 1.5)	13	0.9 (0.4 - 1.3)	30	1.0 (0.7 - 1.3)
Moderate VI	89	5.7 (4.4 - 6.9)	138	9.1 (7.4 - 10.9)	227	7.4 (6.2 - 8.5)
Functional Low Vision	19	1.2 (0.7 - 1.7)	20	1.3 (0.8 - 1.8)	39	1.3 (0.9 - 1.6)

4. Extrapolated magnitude of blindness, severe (SVI), moderate (MVI) and early (EVI) visual impairment - bilateral

PVA

	Males		Females		Total	
	n	% (95% CI)	n	% (95% CI)	n	% (95% CI)
Blindness	2,883	1.7 (1.0 - 2.3)	2,292	1.7 (1.1 - 2.3)	5,177	1.7 (1.2 - 2.1)
Severe VI	1,753	1.0 (0.5 - 1.5)	1,661	1.2 (0.8 - 1.6)	3,413	1.1 (0.8 - 1.4)
Moderate VI	9,527	5.5 (4.3 - 6.7)	14,539	10.6 (8.8 - 12.3)	24,057	7.7 (6.6 - 8.9)
Functional Low Vision	2,044	1.2 (0.7 - 1.7)	2,306	1.7 (1.2 - 2.2)	4,348	1.4 (1.0 - 1.8)

5. Blindness prevalence (PVA<3/60 in better eye) by age group

	Males		Females		Total	
	n	% (95% CI)	n	% (95% CI)	n	% (95% CI)
50 - 59 years	5	0.6 (0.1 - 1.1)	3	0.3 (0.0 - 0.7)	8	0.5 (0.2 - 0.8)
60 - 69 years	8	1.7 (0.4 - 3.0)	5	1.2 (0.2 - 2.3)	13	1.5 (0.6 - 2.3)
70 - 79 years	6	2.9 (0.3 - 5.4)	6	4.7 (0.7 - 8.8)	12	3.6 (1.4 - 5.7)
80+ years	10	11.9 (5.2 - 18.6)	5	11.4 (2.9 - 19.8)	15	11.7 (6.7 - 16.7)
All 50+ years	29	1.8 (1.2 - 2.5)	19	1.3 (0.7 - 1.9)	48	1.6 (1.1 - 2.0)

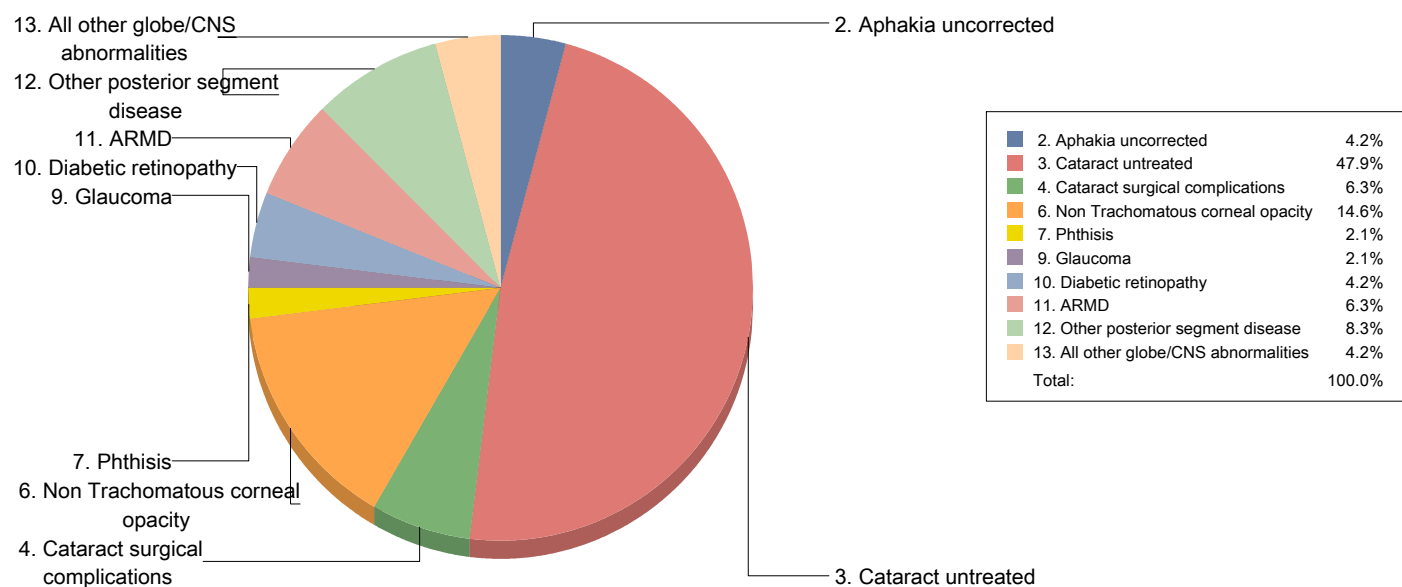
6. Principal cause of blindness, severe (SVI), moderate (MVI) and early (EVI) visual impairment in persons (PVA)

	Blindness		Severe VI		Moderate VI	
1. Refractive error	0	0.0%	4	13.3%	161	70.9%
2. Aphakia uncorrected	2	4.2%	0	0.0%	0	0.0%
3. Cataract untreated	23	47.9%	18	60.0%	53	23.3%
4. Cataract surgical complications	3	6.3%	1	3.3%	2	0.9%
5. Trachomatous corneal opacity	0	0.0%	0	0.0%	0	0.0%
6. Non Trachomatous corneal opacity	7	14.6%	0	0.0%	1	0.4%
7. Phthisis	1	2.1%	0	0.0%	0	0.0%
8. Onchocerciasis	0	0.0%	0	0.0%	0	0.0%
9. Glaucoma	1	2.1%	1	3.3%	1	0.4%
10. Diabetic retinopathy	2	4.2%	2	6.7%	3	1.3%
11. ARMD	3	6.3%	3	10.0%	2	0.9%
12. Other posterior segment disease	4	8.3%	1	3.3%	4	1.8%
13. All other globe/CNS abnormalities	2	4.2%	0	0.0%	0	0.0%
Total	48	100.0%	30	100.0%	227	100.0%

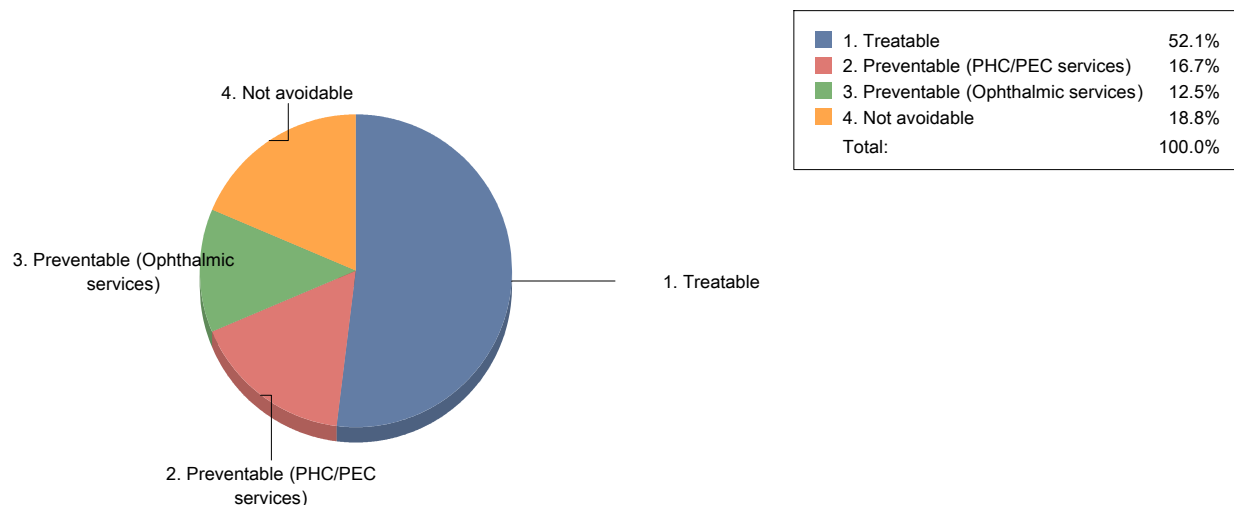
Blindness, SVI, MVI and EVI in persons by intervention category

A. Treatable (1,2,3)	25	52.1%	22	73.3%	214	94.3%
B. Preventable (PHC/PEC services) (5,6,7,8)	8	16.7%	0	.0%	1	.4%
C. Preventable (Ophthalmic services) (4,9,10)	6	12.5%	4	13.3%	6	2.6%
D. Avoidable (A+B+C)	39	81.3%	26	86.7%	221	97.4%
E. Posterior segment causes (8,9,10,11,12)	10	20.8%	7	23.3%	10	4.4%

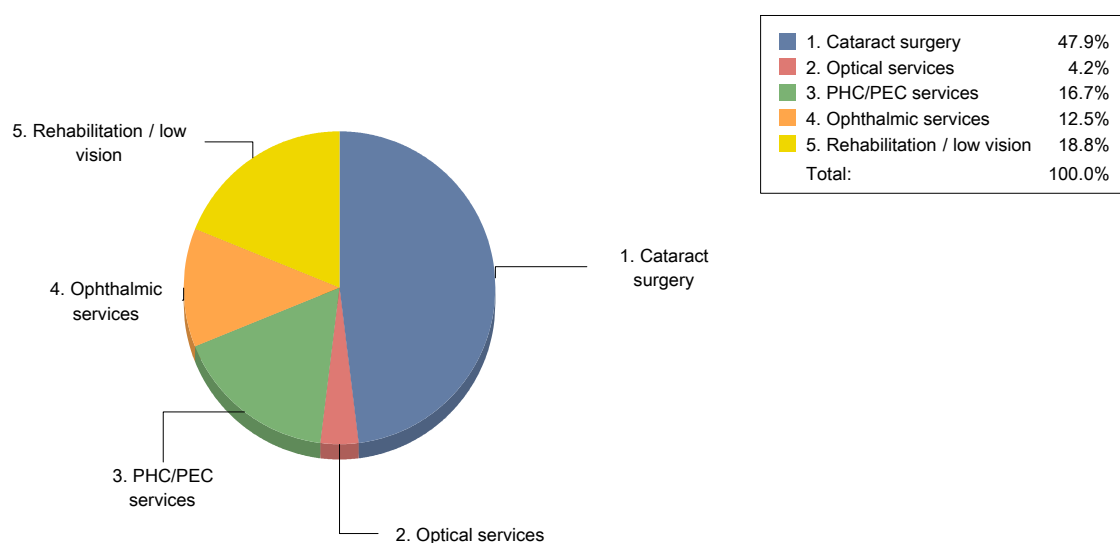
7. Graph: main cause of blindness in persons



8. Graph: main category of blindness in persons



9. Graph: action required to reduce blindness



10. Cataract surgical coverage (persons) - percentage

	Males	Females	Total
VA < 3/60	92.5	92.6	92.5
VA < 6/60	88.6	88.2	88.4
VA < 6/18	75.5	71.5	73.5

11. Barriers to cataract surgery - bilateral VA<6/60 due to cataract

	Males		Females		Total	
	n	%	n	%	n	%
Need not felt	6	37.5%	5	31.3%	11	34.4%
Fear	2	12.5%	2	12.5%	4	12.5%
Cost	6	37.5%	7	43.8%	13	40.6%
Treatment denied by provider	0	0.0%	0	0.0%	0	0.0%
Unaware treatment is possible	1	6.3%	1	6.3%	2	6.3%
Cannot access treatment	0	0.0%	0	0.0%	0	0.0%
Local reason	1	6.3%	1	6.3%	2	6.3%
Total	16	100.0%	16	100.0%	32	100.0%

12. Outcome after cataract surgery with available correction (eyes)

	Males		Females		Total	
	n	%	n	%	n	%
Good: can see 6/18	182	75.5%	146	67.9%	328	71.9%
Borderline: can see 6/60	29	12.0%	38	17.7%	67	14.7%
Poor: cannot see 6/60	30	12.4%	31	14.4%	61	13.4%
Total	241	100.0%	215	100.0%	456	100.0%

13. Outcome by type of cataract surgery with available correction (eyes)

	Non-IOL		IOL		Total	
	n	%	n	%	n	%
Good: can see 6/18	10	34.5%	318	74.5%	328	71.9%
Borderline: can see 6/60	6	20.7%	61	14.3%	67	14.7%
Poor: cannot see 6/60	13	44.8%	48	11.2%	61	13.4%
Total	29	100.0%	427	100.0%	456	100.0%

14. Cause of PVA<6/12 (good, borderline and poor outcome) after cataract surgery

	Selection		Surgery		Spectacles		Sequelae		Can see 6/12	
	n	%	n	%	n	%	n	%	n	%
Good: can see 6/18	0	0.0%	0	0.0%	0	0.0%	0	0.0%	328	100.0%
Borderline: can see 6/60	15	32.6%	5	35.7%	32	84.2%	15	50.0%	0	0.0%
Poor: cannot see 6/60	31	67.4%	9	64.3%	6	15.8%	15	50.0%	0	0.0%
Total	46	100.0%	14	100.0%	38	100.0%	30	100.0%	328	100.0%