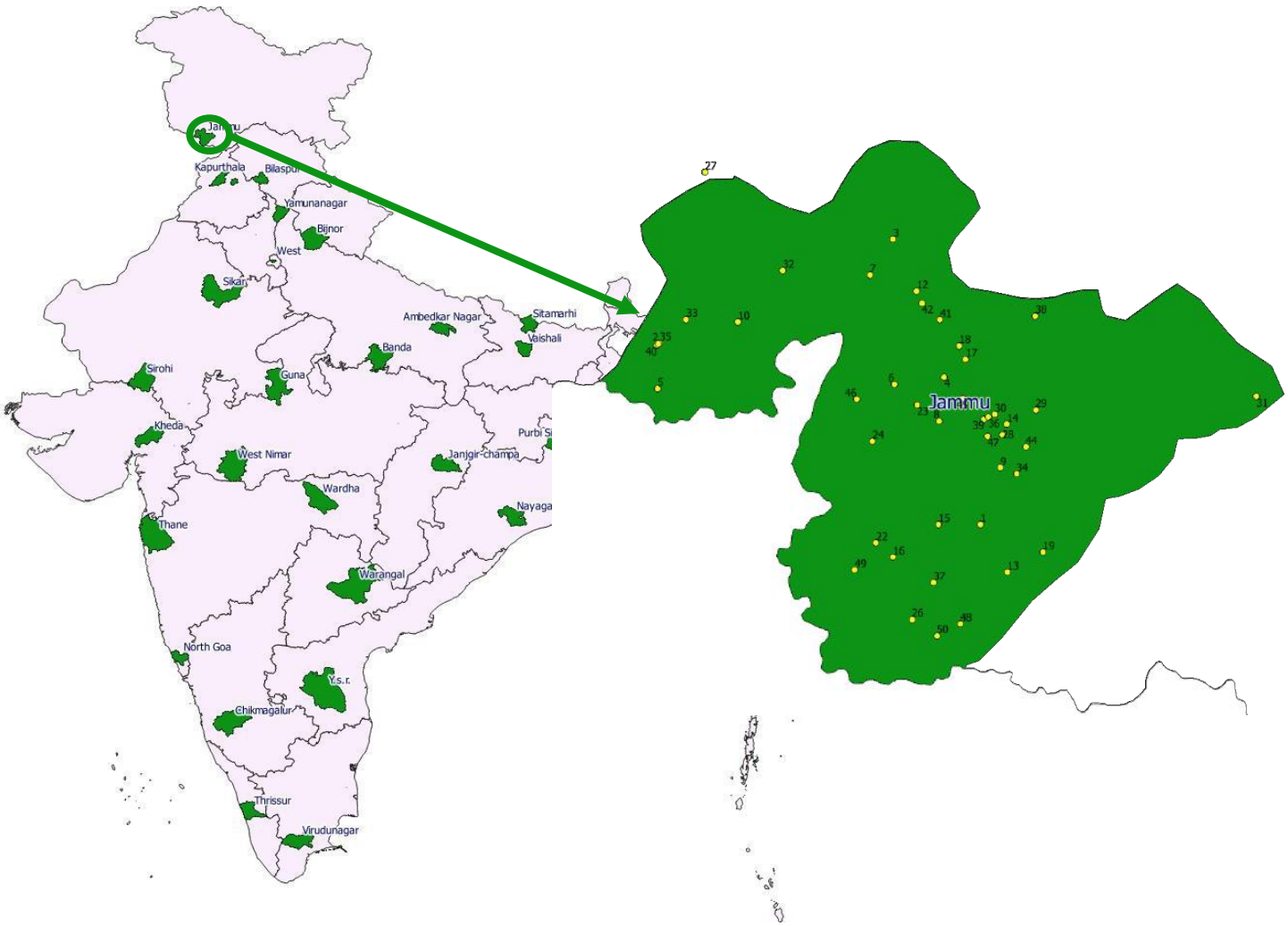
NPCB National Blindness Survey: 2015-2018

DISTRICT SUMMARY REPORT

Jammu, J & K



Community Ophthalmology

Dr. Rajendra Prasad Centre for Ophthalmic Sciences

AIIMS, New Delhi - 110029

NPCB National Blindness Survey: 2015-2018

DISTRICT SUMMARY REPORT

Jammu, J & K

April 2017

Praveen Vashist, Suraj S Senjam, Vivek Gupta, Noopur Gupta,
V Rajshekhar, BR Shamanna, Promila Gupta, Atul Kumar

Community Ophthalmology
Dr. Rajendra Prasad Centre for Ophthalmic Sciences
AIIMS, New Delhi - 110029

RESULTS OF RAPID ASSESSMENT OF AVOIDABLE BLINDNESS

SUMMARY REPORT

Date and time of report:	09-Jun-16	10:42:09AM
This report is for the survey area:	jammu	
Year and month when survey was conducted:	2016- 5 until 2016- 5	

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	1,145	87.3%	163	12.4%	1	0.1%	2	0.2%	**1,311**	**100.0%**
Females	1,606	95.1%	80	4.7%	3	0.2%	0	0.0%	**1,689**	**100.0%**
Total	**2,751**	91.7%	**243**	8.1%	**4**	0.1%	**2**	0.1%	**3,000**	**100.0%**

2. Age and gender distribution of people examined in the sample

	Males		Females		Total	
	n	%	n	%	n	%
50 - 59 years	459	40.1%	767	47.8%	**1,226**	**44.6%**
60 - 69 years	368	32.1%	512	31.9%	**880**	**32.0%**
70 - 79 years	236	20.6%	229	14.3%	**465**	**16.9%**
80+ years	82	7.2%	98	6.1%	**180**	**6.5%**
Total	**1,145**	**100.0%**	**1,606**	**100.0%**	**2,751**	**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	21	1.8 (1.1 - 2.6)	27	1.7 (1.1 - 2.3)	48	1.7 (1.2 - 2.2)
Severe VI	18	1.6 (0.7 - 2.4)	42	2.6 (1.8 - 3.4)	60	2.2 (1.6 - 2.8)
Moderate VI	108	9.4 (7.3 - 11.6)	182	11.3 (9.6 - 13.1)	290	10.5 (8.9 - 12.2)
Early VI	219	19.1 (16.4 - 21.8)	320	19.9 (17.9 - 21.9)	539	19.6 (17.8 - 21.4)
Functional Low Vision	10	0.9 (0.1 - 1.6)	28	1.7 (1.1 - 2.3)	38	1.4 (0.9 - 1.9)

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	57,938	1.6 (0.8 - 2.3)	59,409	1.6 (1.1 - 2.2)	117,343	1.6 (1.1 - 2.1)
Severe VI	48,747	1.3 (0.4 - 2.2)	96,400	2.7 (1.9 - 3.5)	145,146	2.0 (1.4 - 2.6)
Moderate VI	307,931	8.3 (6.2 - 10.5)	421,009	11.6 (9.9 - 13.4)	728,941	10.0 (8.3 - 11.6)
Early VI	661,602	17.9 (15.2 - 20.6)	736,017	20.3 (18.3 - 22.3)	1,397,622	19.1 (17.3 - 20.9)
Functional Low Vision	28,579	0.8 (0.0 - 1.5)	62,714	1.7 (1.1 - 2.3)	91,293	1.3 (0.8 - 1.7)

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	3	0.7 (0.0 - 1.4)	3	0.4 (0.0 - 0.8)	6	0.5 (0.1 - 0.9)
60 - 69 years	3	0.8 (0.0 - 1.7)	5	1.0 (0.1 - 1.8)	8	0.9 (0.3 - 1.5)
70 - 79 years	6	2.5 (0.7 - 4.4)	7	3.1 (1.1 - 5.0)	13	2.8 (1.5 - 4.1)
80+ years	9	11.0 (3.2 - 18.8)	12	12.2 (6.1 - 18.4)	21	11.7 (6.4 - 16.9)
All 50+ years	21	1.8 (1.1 - 2.6)	27	1.7 (1.1 - 2.3)	48	1.7 (1.2 - 2.2)

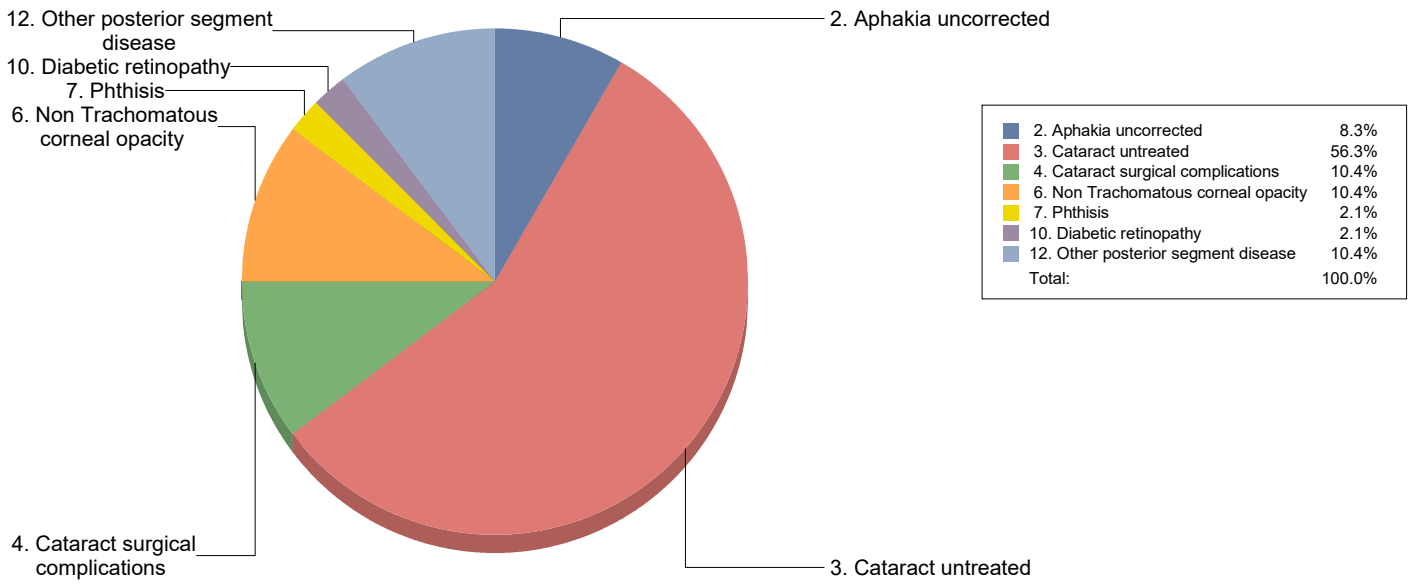
6. Principal cause of blindness, severe (SVI), moderate (MVI) and early (EVI) visual impairment in persons (PVA)

	Blindness		Severe VI		Moderate VI		Early VI	
	n	%	n	%	n	%	n	%
1. Refractive error	0	0.0%	1	1.7%	42	14.5%	432	80.1%
2. Aphakia uncorrected	4	8.3%	2	3.3%	5	1.7%	0	0.0%
3. Cataract untreated	27	56.3%	44	73.3%	190	65.5%	81	15.0%
4. Cataract surgical complications	5	10.4%	7	11.7%	28	9.7%	16	3.0%
5. Trachomatous corneal opacity	0	0.0%	0	0.0%	0	0.0%	0	0.0%
6. Non Trachomatous corneal opacity	5	10.4%	2	3.3%	3	1.0%	3	0.6%
7. Phthisis	1	2.1%	0	0.0%	0	0.0%	0	0.0%
8. Onchocerciasis	0	0.0%	0	0.0%	0	0.0%	0	0.0%
9. Glaucoma	0	0.0%	0	0.0%	1	0.3%	1	0.2%
10. Diabetic retinopathy	1	2.1%	0	0.0%	4	1.4%	1	0.2%
11. ARMD	0	0.0%	1	1.7%	3	1.0%	1	0.2%
12. Other posterior segment disease	5	10.4%	3	5.0%	12	4.1%	3	0.6%
13. All other globe/CNS abnormalities	0	0.0%	0	0.0%	2	0.7%	1	0.2%
Total	**48**	**100.0%**	**60**	**100.0%**	**290**	**100.0%**	**539**	**100.0%**

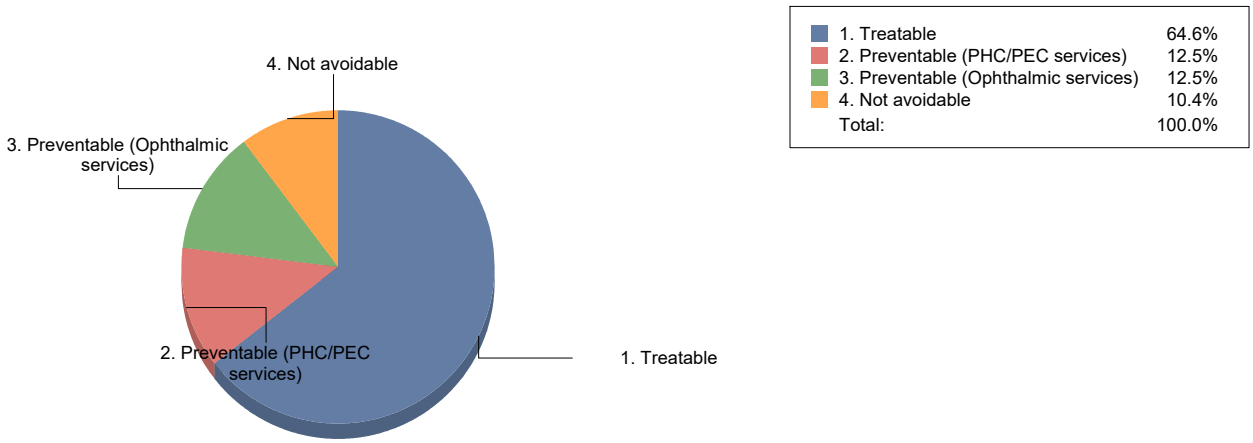
Blindness, SVI, MVI and EVI in persons by intervention category

A. Treatable (1,2,3)	31	64.6%	47	78.3%	237	81.7%	513	95.2%
B. Preventable (PHC/PEC services) (5,6,7,8)	6	12.5%	2	3.3%	3	1.0%	3	0.6%
C. Preventable (Ophthalmic services) (4,9,10)	6	12.5%	7	11.7%	33	11.4%	18	3.3%
D. Avoidable (A+B+C)	43	89.6%	56	93.3%	273	94.1%	534	99.1%
E. Posterior segment causes (8,9,10,11,12)	6	12.5%	4	6.7%	20	6.9%	6	1.1%

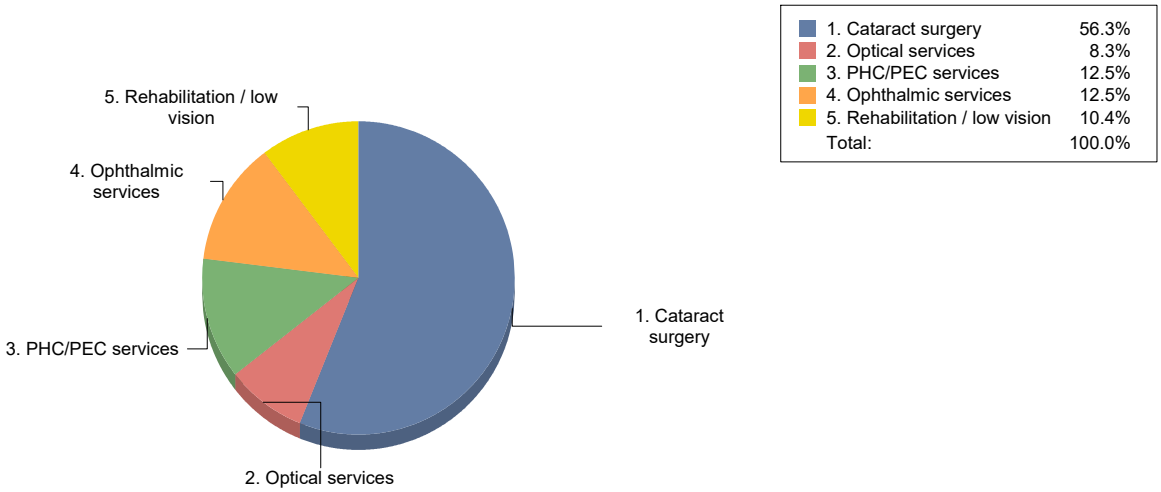
7. Graph: main cause of blindness in persons



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	95.1	95.1	95.1
VA < 6/60	92.0	91.5	91.7
VA < 6/18	77.2	79.3	78.5

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

	Males		Females		Total	
	n	%	n	%	n	%
Need not felt	3	25.0%	7	33.3%	**10**	**30.3%**
Fear	2	16.7%	3	14.3%	**5**	**15.2%**
Cost	1	8.3%	2	9.5%	**3**	**9.1%**
Treatment denied by provider	0	0.0%	2	9.5%	**2**	**6.1%**
Unaware treatment is possible	2	16.7%	0	0.0%	**2**	**6.1%**
Cannot access treatment	0	0.0%	0	0.0%	**0**	**0.0%**
Local reason	4	33.3%	7	33.3%	**11**	**33.3%**
Total	**12**	**100.0%**	**21**	**100.0%**	**33**	**100.0%**

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

	Males		Females		Total	
	n	%	n	%	n	%
Very good: can see 6/12	126	44.2%	170	37.3%	296	39.9%
Good: can see 6/18	73	25.6%	113	24.8%	186	25.1%
Borderline: can see 6/60	47	16.5%	100	21.9%	147	19.8%
Poor: cannot see 6/60	39	13.7%	73	16.0%	112	15.1%
Total	**285**	**100.0%**	**456**	**100.0%**	**741**	**100.0%**

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

	Non-IOL		IOL		Total	
	n	%	n	%	n	%
Very good: can see 6/12	4	5.4%	292	43.8%	**296**	**39.9%**
Good: can see 6/18	13	17.6%	173	25.9%	**186**	**25.1%**
Borderline: can see 6/60	18	24.3%	129	19.3%	**147**	**19.8%**
Poor: cannot see 6/60	39	52.7%	73	10.9%	**112**	**15.1%**
Total	**74**	**100.0%**	**667**	**100.0%**	**741**	**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	%
Very good: can see 6/12	0	0.0%	0	0.0%	0	0.0%	0	0.0%	296	100.0%
Good: can see 6/18	2	4.3%	29	18.8%	143	84.1%	12	16.2%	0	0.0%
Borderline: can see 6/60	22	46.8%	82	53.2%	24	14.1%	19	25.7%	0	0.0%
Poor: cannot see 6/60	23	48.9%	43	27.9%	3	1.8%	43	58.1%	0	0.0%
Total	**47**	**100.0%**	**154**	**100.0%**	**170**	**100.0%**	**74**	**100.0%**	**296**	**100.0%**

RESULTS OF RAPID ASSESSMENT OF AVOIDABLE BLINDNESS

SAMPLE RESULTS - NOT ADJUSTED FOR AGE AND SEX

Date and time of report:	09-Jun-16	10:42:32AM
This report is for the survey area:	jammu	
Year and month when survey was conducted:	2016- 5 until 2016- 5	

The sample size of the RAAB is sufficient to provide an acceptable accuracy of the overall prevalence of bilateral blindness (best corrected VA <3/60). The accuracy of prevalence estimates for any subgroup is far less and caution should be taken in the interpretation of these data.

1. Eligible persons, coverage, absentees and refusals in survey

	Examined		Not available		Refused		Not capable		Total	
	n	%	n	%	n	%	n	%	n	%
Males	1,145	87.3%	163	12.4%	1	0.1%	2	0.2%	**1,311**	**100.0%**
Females	1,606	95.1%	80	4.7%	3	0.2%	0	0.0%	**1,689**	**100.0%**
Total	**2,751**	**91.7%**	**243**	**8.1%**	**4**	**0.1%**	**2**	**0.1%**	**3,000**	**100.0%**

2. Prevalence of blindness, severe (SVI), moderate (MVI) and early visual impairment (EVI) - all causes

	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 blindness	14	1.2% (0.6-1.9)	20	1.3% (0.7-1.8)	**34**	**1.2% (0.9-1.6)**
All blind eyes	113	4.9% (3.8-6.1)	143	4.5% (3.7-5.2)	**256**	**4.7% (3.9-5.4)**
Blindness - VA < 3/60 in the better eye with available correction (presenting VA)						
All bilateral blindness	21	1.8% (1.1-2.6)	27	1.7% (1.1-2.3)	**48**	**1.7% (1.2-2.2)**
All blind eyes	140	6.1% (4.7-7.5)	184	5.7% (4.9-6.6)	**324**	**5.9% (5.0-6.7)**
Severe visual impairment (SVI) - VA<6/60 - 3/60 in the better eye with available correction						
All bilateral Severe VI	18	1.6% (0.7-2.4)	42	2.6% (1.8-3.4)	**60**	**2.2% (1.6-2.8)**
All Severe VI eyes	58	2.5% (1.8-3.3)	102	3.2% (2.5-3.8)	**160**	**2.9% (2.4-3.4)**
Moderate visual impairment (MVI) - VA<6/18 - 6/60 in the better eye with available correction						
All bilateral MVI	108	9.4% (7.3-11.6)	182	11.3% (9.6-13.1)	**290**	**10.5% (8.9-12.2)**
All Moderate VI eyes	306	13.4% (11.5-15.3)	471	14.7% (13.0-16.3)	**777**	**14.1% (12.6-15.6)**
Early visual impairment (EVI) - VA<6/12 - 6/18 in the better eye with available correction						
All bilateral EVI	219	19.1% (16.4-21.8)	320	19.9% (17.9-21.9)	**539**	**19.6% (17.8-21.4)**
All Early VI eyes	446	19.5% (17.3-21.6)	636	19.8% (18.2-21.4)	**1,082**	**19.7% (18.2-21.2)**

3. Prevalence of presenting VA<3/60, VA<6/60, VA<6/18 and VA<6/12 - all causes (cumulative categories)

	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 blindness	21	1.8% (1.1-2.6)	27	1.7% (1.1-2.3)	**48**	**1.7% (1.2-2.2)**
All blind eyes	140	6.1% (4.7-7.5)	184	5.7% (4.9-6.6)	**324**	**5.9% (5.0-6.7)**
VA<6/60 in the better eye, with available correction (presenting VA)						
All bilateral cases	39	3.4% (2.3-4.6)	69	4.3% (3.3-5.3)	**108**	**3.9% (3.2-4.7)**
All eyes	198	8.7% (6.9-10.4)	286	8.9% (7.8-10.0)	**484**	**8.8% (7.7-9.9)**
VA<6/18 in the better eye, with available correction (presenting VA)						
All bilateral cases	147	12.8% (10.2-15.5)	251	15.6% (13.5-17.7)	**398**	**14.5% (12.4-16.5)**
All eyes	504	22.0% (19.3-24.7)	757	23.6% (21.3-25.8)	**1,261**	**22.9% (20.8-25.0)**
VA<6/12 in the better eye, with available correction (presenting VA)						
All bilateral cases	366	32.0% (28.7-35.3)	571	35.6% (32.7-38.4)	**937**	**34.1% (31.4-36.7)**
All eyes	950	41.5% (38.5-44.5)	1,393	43.4% (40.7-46.0)	**2,343**	**42.6% (40.1-45.0)**

4. Principal cause of blindness in persons: VA<3/60 in better eye with available correction

	Males		Females		Total	
	n	%	n	%	n	%
1. Refractive error	0	0.0%	0	0.0%	**0**	**0.0%**
2. Aphakia uncorrected	1	4.8%	3	11.1%	**4**	**8.3%**
3. Cataract untreated	11	52.4%	16	59.3%	**27**	**56.3%**
4. Cataract surgical complications	3	14.3%	2	7.4%	**5**	**10.4%**
5. Trachomatous corneal opacity	0	0.0%	0	0.0%	**0**	**0.0%**
6. Non Trachomatous corneal opacity	4	19.0%	1	3.7%	**5**	**10.4%**
7. Phthisis	1	4.8%	0	0.0%	**1**	**2.1%**
8. Onchocerciasis	0	0.0%	0	0.0%	**0**	**0.0%**
9. Glaucoma	0	0.0%	0	0.0%	**0**	**0.0%**
10. Diabetic retinopathy	1	4.8%	0	0.0%	**1**	**2.1%**
11. ARMD	0	0.0%	0	0.0%	**0**	**0.0%**
12. Other posterior segment disease	0	0.0%	5	18.5%	**5**	**10.4%**
13. All other globe/CNS abnormalities	0	0.0%	0	0.0%	**0**	**0.0%**
Total	**21**	**100.0%**	**27**	**100.0%**	**48**	**100.0%**
Intervention by this visual impairment						
A. Treatable (1,2,3)	12	57.1%	19	70.4%	31	64.6%
B. Preventable (PHC/PEC services) (5,6,7,8)	5	23.8%	1	3.7%	6	12.5%
C. Preventable (Ophthalmic services) (4,9,10)	4	19.1%	2	7.4%	6	12.5%
D. Avoidable (A+B+C)	21	100.0%	22	81.5%	43	89.6%
E. Posterior segment causes (8,9,10,11,12)	1	4.8%	5	18.5%	6	12.5%

5. Main cause of blindness in eyes - VA<3/60 with available correction, no pinhole

	Males		Females		Total	
	n	%	n	%	n	%
1. Refractive error	0	0.0%	1	0.5%	**1**	**0.3%**
2. Aphakia uncorrected	7	5.0%	12	6.5%	**19**	**5.9%**
3. Cataract untreated	81	57.9%	103	56.0%	**184**	**56.8%**
4. Cataract surgical complications	9	6.4%	15	8.2%	**24**	**7.4%**
5. Trachomatous corneal opacity	0	0.0%	0	0.0%	**0**	**0.0%**
6. Non Trachomatous corneal opacity	14	10.0%	8	4.3%	**22**	**6.8%**
7. Phthisis	12	8.6%	6	3.3%	**18**	**5.6%**
8. Onchocerciasis	0	0.0%	0	0.0%	**0**	**0.0%**
9. Glaucoma	6	4.3%	7	3.8%	**13**	**4.0%**
10. Diabetic retinopathy	2	1.4%	1	0.5%	**3**	**0.9%**
11. ARMD	2	1.4%	3	1.6%	**5**	**1.5%**
12. Other posterior segment disease	7	5.0%	23	12.5%	**30**	**9.3%**
13. All other globe/CNS abnormalities	0	0.0%	5	2.7%	**5**	**1.5%**
Total	**140**	**100.0%**	**184**	**100.0%**	**324**	**100.0%**
Intervention by this visual impairment						
A. Treatable (1,2,3)	88	62.9%	116	63.0%	204	63.0%
B. Preventable (PHC/PEC services) (5,6,7,8)	26	18.6%	14	7.6%	40	12.3%
C. Preventable (Ophthalmic services) (4,9,10)	17	12.1%	23	12.5%	40	12.3%
D. Avoidable (A+B+C)	131	93.6%	153	83.2%	284	87.7%
E. Posterior segment causes (8,9,10,11,12)	17	12.1%	34	18.5%	51	15.7%

6. Principal cause severe visual impairment in persons: VA<6/60 - 3/60 with available correction

	Males		Females		Total	
	n	%	n	%	n	%
1. Refractive error	1	5.6%	0	0.0%	**1**	**1.7%**
2. Aphakia uncorrected	1	5.6%	1	2.4%	**2**	**3.3%**
3. Cataract untreated	15	83.3%	29	69.0%	**44**	**73.3%**
4. Cataract surgical complications	0	0.0%	7	16.7%	**7**	**11.7%**
5. Trachomatous corneal opacity	0	0.0%	0	0.0%	**0**	**0.0%**
6. Non Trachomatous corneal opacity	0	0.0%	2	4.8%	**2**	**3.3%**
7. Phthisis	0	0.0%	0	0.0%	**0**	**0.0%**
8. Onchocerciasis	0	0.0%	0	0.0%	**0**	**0.0%**
9. Glaucoma	0	0.0%	0	0.0%	**0**	**0.0%**
10. Diabetic retinopathy	0	0.0%	0	0.0%	**0**	**0.0%**
11. ARMD	0	0.0%	1	2.4%	**1**	**1.7%**
12. Other posterior segment disease	1	5.6%	2	4.8%	**3**	**5.0%**
13. All other globe/CNS abnormalities	0	0.0%	0	0.0%	**0**	**0.0%**
Total	**18**	**100.0%**	**42**	**100.0%**	**60**	**100.0%**
Intervention by this visual impairment						
A. Treatable (1,2,3)	17	94.4%	30	71.4%	47	78.3%
B. Preventable (PHC/PEC services) (5,6,7,8)	0	0.0%	2	4.8%	2	3.3%
C. Preventable (Ophthalmic services) (4,9,10)	0	0.0%	7	16.7%	7	11.7%
D. Avoidable (A+B+C)	17	94.4%	39	92.9%	56	93.3%
E. Posterior segment causes (8,9,10,11,12)	1	5.6%	3	7.1%	4	6.7%

7. Main cause of severe visual impairment in eyes - VA<6/60 - 3/60 with available correction

	Males		Females		Total	
	n	%	n	%	n	%
1. Refractive error	1	1.7%	1	1.0%	**2**	**1.3%**
2. Aphakia uncorrected	2	3.4%	1	1.0%	**3**	**1.9%**
3. Cataract untreated	42	72.4%	67	65.7%	**109**	**68.1%**
4. Cataract surgical complications	5	8.6%	19	18.6%	**24**	**15.0%**
5. Trachomatous corneal opacity	0	0.0%	0	0.0%	**0**	**0.0%**
6. Non Trachomatous corneal opacity	4	6.9%	3	2.9%	**7**	**4.4%**
7. Phthisis	0	0.0%	0	0.0%	**0**	**0.0%**
8. Onchocerciasis	0	0.0%	0	0.0%	**0**	**0.0%**
9. Glaucoma	0	0.0%	0	0.0%	**0**	**0.0%**
10. Diabetic retinopathy	2	3.4%	0	0.0%	**2**	**1.3%**
11. ARMD	0	0.0%	2	2.0%	**2**	**1.3%**
12. Other posterior segment disease	2	3.4%	9	8.8%	**11**	**6.9%**
13. All other globe/CNS abnormalities	0	0.0%	0	0.0%	**0**	**0.0%**
Total	**58**	**100.0%**	**102**	**100.0%**	**160**	**100.0%**
Intervention by this visual impairment						
A. Treatable (1,2,3)	45	77.6%	69	67.6%	114	71.3%
B. Preventable (PHC/PEC services) (5,6,7,8)	4	6.9%	3	2.9%	7	4.4%
C. Preventable (Ophthalmic services) (4,9,10)	7	12.1%	19	18.6%	26	16.3%
D. Avoidable (A+B+C)	56	96.6%	91	89.2%	147	91.9%
E. Posterior segment causes (8,9,10,11,12)	4	6.9%	11	10.8%	15	9.4%

8. Principal cause moderate visual impairment in persons: VA<6/18 - 6/60 with available correction

	Males		Females		Total	
	n	%	n	%	n	%
1. Refractive error	17	15.7%	25	13.7%	**42**	**14.5%**
2. Aphakia uncorrected	3	2.8%	2	1.1%	**5**	**1.7%**
3. Cataract untreated	76	70.4%	114	62.6%	**190**	**65.5%**
4. Cataract surgical complications	5	4.6%	23	12.6%	**28**	**9.7%**
5. Trachomatous corneal opacity	0	0.0%	0	0.0%	**0**	**0.0%**
6. Non Trachomatous corneal opacity	1	0.9%	2	1.1%	**3**	**1.0%**
7. Phthisis	0	0.0%	0	0.0%	**0**	**0.0%**
8. Onchocerciasis	0	0.0%	0	0.0%	**0**	**0.0%**
9. Glaucoma	1	0.9%	0	0.0%	**1**	**0.3%**
10. Diabetic retinopathy	1	0.9%	3	1.6%	**4**	**1.4%**
11. ARMD	1	0.9%	2	1.1%	**3**	**1.0%**
12. Other posterior segment disease	1	0.9%	11	6.0%	**12**	**4.1%**
13. All other globe/CNS abnormalities	2	1.9%	0	0.0%	**2**	**0.7%**
Total	**108**	**100.0%**	**182**	**100.0%**	**290**	**100.0%**
Intervention by this visual impairment						
A. Treatable (1,2,3)	96	88.9%	141	77.5%	237	81.7%
B. Preventable (PHC/PEC services) (5,6,7,8)	1	0.9%	2	1.1%	3	1.0%
C. Preventable (Ophthalmic services) (4,9,10)	7	6.5%	26	14.3%	33	11.4%
D. Avoidable (A+B+C)	104	96.3%	169	92.9%	273	94.1%
E. Posterior segment causes (8,9,10,11,12)	4	3.7%	16	8.8%	20	6.9%

9. Main cause of moderate visual impairment in eyes - VA<6/18 - 6/60 with available correction

	Males		Females		Total	
	n	%	n	%	n	%
1. Refractive error	63	20.6%	81	17.2%	**144**	**18.5%**
2. Aphakia uncorrected	1	0.3%	1	0.2%	**2**	**0.3%**
3. Cataract untreated	184	60.1%	262	55.6%	**446**	**57.4%**
4. Cataract surgical complications	30	9.8%	65	13.8%	**95**	**12.2%**
5. Trachomatous corneal opacity	0	0.0%	0	0.0%	**0**	**0.0%**
6. Non Trachomatous corneal opacity	6	2.0%	9	1.9%	**15**	**1.9%**
7. Phthisis	0	0.0%	0	0.0%	**0**	**0.0%**
8. Onchocerciasis	0	0.0%	0	0.0%	**0**	**0.0%**
9. Glaucoma	2	0.7%	0	0.0%	**2**	**0.3%**
10. Diabetic retinopathy	2	0.7%	5	1.1%	**7**	**0.9%**
11. ARMD	3	1.0%	3	0.6%	**6**	**0.8%**
12. Other posterior segment disease	9	2.9%	41	8.7%	**50**	**6.4%**
13. All other globe/CNS abnormalities	6	2.0%	4	0.8%	**10**	**1.3%**
Total	**306**	**100.0%**	**471**	**100.0%**	**777**	**100.0%**
Intervention by this visual impairment						
A. Treatable (1,2,3)	248	81.0%	344	73.0%	592	76.2%
B. Preventable (PHC/PEC services) (5,6,7,8)	6	2.0%	9	1.9%	15	1.9%
C. Preventable (Ophthalmic services) (4,9,10)	34	11.1%	70	14.9%	104	13.4%
D. Avoidable (A+B+C)	288	94.1%	423	89.8%	711	91.5%
E. Posterior segment causes (8,9,10,11,12)	16	5.2%	49	10.4%	65	8.4%

10. Principal cause early visual impairment in persons: VA<6/12 - 6/18 with available correction

	Males		Females		Total	
	n	%	n	%	n	%
1. Refractive error	168	76.7%	264	82.5%	**432**	**80.1%**
2. Aphakia uncorrected	0	0.0%	0	0.0%	**0**	**0.0%**
3. Cataract untreated	39	17.8%	42	13.1%	**81**	**15.0%**
4. Cataract surgical complications	9	4.1%	7	2.2%	**16**	**3.0%**
5. Trachomatous corneal opacity	0	0.0%	0	0.0%	**0**	**0.0%**
6. Non Trachomatous corneal opacity	1	0.5%	2	0.6%	**3**	**0.6%**
7. Phthisis	0	0.0%	0	0.0%	**0**	**0.0%**
8. Onchocerciasis	0	0.0%	0	0.0%	**0**	**0.0%**
9. Glaucoma	1	0.5%	0	0.0%	**1**	**0.2%**
10. Diabetic retinopathy	0	0.0%	1	0.3%	**1**	**0.2%**
11. ARMD	1	0.5%	0	0.0%	**1**	**0.2%**
12. Other posterior segment disease	0	0.0%	3	0.9%	**3**	**0.6%**
13. All other globe/CNS abnormalities	0	0.0%	1	0.3%	**1**	**0.2%**
Total	**219**	**100.0%**	**320**	**100.0%**	**539**	**100.0%**
Intervention by this visual impairment						
A. Treatable (1,2,3)	207	94.5%	306	95.6%	513	95.2%
B. Preventable (PHC/PEC services) (5,6,7,8)	1	0.5%	2	0.6%	3	0.6%
C. Preventable (Ophthalmic services) (4,9,10)	10	4.6%	8	2.5%	18	3.3%
D. Avoidable (A+B+C)	218	99.5%	316	98.8%	534	99.1%
E. Posterior segment causes (8,9,10,11,12)	2	0.9%	4	1.3%	6	1.1%

11. Main cause of early visual impairment in eyes - VA<6/12 - 6/18 with available correction

	Males		Females		Total	
	n	%	n	%	n	%
1. Refractive error	355	79.6%	524	82.4%	**879**	**81.2%**
2. Aphakia uncorrected	0	0.0%	1	0.2%	**1**	**0.1%**
3. Cataract untreated	65	14.6%	75	11.8%	**140**	**12.9%**
4. Cataract surgical complications	16	3.6%	18	2.8%	**34**	**3.1%**
5. Trachomatous corneal opacity	0	0.0%	0	0.0%	**0**	**0.0%**
6. Non Trachomatous corneal opacity	3	0.7%	4	0.6%	**7**	**0.6%**
7. Phthisis	0	0.0%	0	0.0%	**0**	**0.0%**
8. Onchocerciasis	0	0.0%	0	0.0%	**0**	**0.0%**
9. Glaucoma	2	0.4%	0	0.0%	**2**	**0.2%**
10. Diabetic retinopathy	0	0.0%	3	0.5%	**3**	**0.3%**
11. ARMD	2	0.4%	0	0.0%	**2**	**0.2%**
12. Other posterior segment disease	2	0.4%	10	1.6%	**12**	**1.1%**
13. All other globe/CNS abnormalities	1	0.2%	1	0.2%	**2**	**0.2%**
Total	**446**	**100.0%**	**636**	**100.0%**	**1,082**	**100.0%**
Intervention by this visual impairment						
A. Treatable (1,2,3)	420	94.2%	600	94.3%	1,020	94.3%
B. Preventable (PHC/PEC services) (5,6,7,8)	3	0.7%	4	0.6%	7	0.6%
C. Preventable (Ophthalmic services) (4,9,10)	18	4.0%	21	3.3%	39	3.6%
D. Avoidable (A+B+C)	441	98.9%	625	98.3%	1,066	98.5%
E. Posterior segment causes (8,9,10,11,12)	6	1.3%	13	2.0%	19	1.8%

12. Prevalence of cataract with VA<3/60, VA<6/60, VA<6/18 and VA<6/12 - best corrected VA or pinhole

	Males		Females		Total	
	n	% (95%CI)	n	% (95%CI)	n	% (95%CI)
Cataract and VA<3/60 with best correction or pinhole						
Bilateral cataract	6	0.5% (0.1-0.9)	10	0.6% (0.2-1.1)	**16**	**0.6% (0.3-0.9)**
Unilateral cataract	59	5.2% (3.5-6.8)	62	3.9% (2.9-4.8)	**121**	**4.4% (3.5-5.3)**
Cataract eyes	71	3.1% (2.3-3.9)	82	2.6% (1.9-3.2)	**153**	**2.8% (2.2-3.4)**
Cataract and VA<6/60 with best correction or pinhole						
Bilateral cataract	11	1.0% (0.4-1.5)	19	1.2% (0.6-1.7)	**30**	**1.1% (0.7-1.5)**
Unilateral cataract	72	6.3% (5.0-7.9)	77	4.8% (3.9-6.3)	**149**	**5.4% (4.7-6.7)**
Cataract eyes	94	4.1% (3.1-5.1)	115	3.6% (2.8-4.4)	**209**	**3.8% (3.1-4.5)**
Cataract and VA<6/18 with best correction or pinhole						
Bilateral cataract	41	3.6% (2.3-4.8)	63	3.9% (2.8-5.1)	**104**	**3.8% (2.9-4.7)**
Unilateral cataract	116	10.1% (8.3-12.0)	157	9.8% (8.0-11.5)	**273**	**9.9% (8.6-11.3)**
Cataract eyes	198	8.7% (7.0-10.3)	283	8.8% (7.3-10.3)	**481**	**8.7% (7.5-10.0)**
Cataract and VA<6/12 with best correction or pinhole						
Bilateral cataract	120	10.5% (8.7-12.3)	162	10.1% (8.4-11.8)	**282**	**10.3% (8.9-11.6)**
Unilateral cataract	145	12.7% (10.4-14.9)	194	12.1% (10.2-14.0)	**339**	**12.3% (10.8-13.8)**
Cataract eyes	385	16.8% (14.7-19.0)	518	16.1% (14.0-18.2)	**903**	**16.4% (14.7-18.1)**

13. Sample prevalence of (pseudo)aphakia

	Males		Females		Total	
	n	% (95%CI)	n	% (95%CI)	n	% (95%CI)
Bilateral (pseudo)aphakia	92	8.0% (6.0-10.0)	158	9.8% (7.8-11.9)	**250**	**9.1% (7.4-10.8)**
Unilateral (pseudo)aphakia	101	8.8% (7.4-10.3)	140	8.7% (7.2-10.2)	**241**	**8.8% (7.7-9.8)**
(Pseudo)aphakic eyes	285	12.5% (10.4-14.5)	456	14.2% (12.2-16.2)	**741**	**13.5% (11.7-15.2)**

14. Cataract Surgical Coverage

	Males	Females	Total
Cataract Surgical Coverage (eyes) - percentage			
VA < 3/60	80.1	84.8	82.9
VA < 6/60	75.2	79.9	78.0
VA < 6/18	59.0	61.7	60.6
Cataract Surgical Coverage (persons) - percentage			
VA < 3/60	95.1	95.1	95.1
VA < 6/60	92.0	91.5	91.7
VA < 6/18	77.2	79.3	78.5

15. Number and percentage of first eyes and second eyes operated

	Males		Females		Total	
	n	%	n	%	n	%
First eyes	193	67.7	298	65.4	**491**	**66.3**
Second eyes	92	32.3	158	34.7	**250**	**33.7**

16. Uncorrected refractive error and uncorrected presbyopia

	Males		Females		Total	
	n	%	n	%	n	%
Total refractive errors	374	32.7	543	33.8	**917**	**33.3**
Uncorrected refractive errors	191	16.7	295	18.4	**486**	**17.7**
Uncorrected presbyopia	750	65.5	1,062	66.1	**1,812**	**65.9**

17. Persons with Functional Low Vision: BCVA<6/18 - PL+ in the better eye; incurable

	Males		Females		Total	
	n	%	n	%	n	%
50 - 59	1	0.2	5	0.7	**6**	**0.5**
60 - 69	3	0.8	5	1.0	**8**	**0.9**
70 - 79	1	0.4	9	3.9	**10**	**2.2**
80+	5	6.1	9	9.2	**14**	**7.8**
Total	10	0.9	28	1.7	**38**	**1.4**

18. Principal cause of functional low vision in persons: BCVA<6/18 - PL+ in better eye, incurable

	Males		Females		Total	
	n	%	n	%	n	%
1. Refractive error	0	0.0%	0	0.0%	**0**	**0.0%**
2. Aphakia uncorrected	0	0.0%	0	0.0%	**0**	**0.0%**
3. Cataract untreated	0	0.0%	0	0.0%	**0**	**0.0%**
4. Cataract surgical complications	1	10.0%	9	32.1%	**10**	**26.3%**
5. Trachomatous corneal opacity	0	0.0%	0	0.0%	**0**	**0.0%**
6. Non Trachomatous corneal opacity	2	20.0%	3	10.7%	**5**	**13.2%**
7. Phthisis	0	0.0%	0	0.0%	**0**	**0.0%**
8. Onchocerciasis	0	0.0%	0	0.0%	**0**	**0.0%**
9. Glaucoma	1	10.0%	0	0.0%	**1**	**2.6%**
10. Diabetic retinopathy	1	10.0%	3	10.7%	**4**	**10.5%**
11. ARMD	1	10.0%	1	3.6%	**2**	**5.3%**
12. Other posterior segment disease	2	20.0%	12	42.9%	**14**	**36.8%**
13. All other globe/CNS abnormalities	2	20.0%	0	0.0%	**2**	**5.3%**
Total	**10**	**100.0%**	**28**	**100.0%**	**38**	**100.0%**
Intervention by this visual impairment						
A. Treatable (1,2,3)	0	0.0%	0	0.0%	0	0.0%
B. Preventable (PHC/PEC services) (5,6,7,8)	2	20.0%	3	10.7%	5	13.2%
C. Preventable (Ophthalmic services) (4,9,10)	3	30.0%	12	42.9%	15	39.5%
D. Avoidable (A+B+C)	5	50.0%	15	53.6%	20	52.6%
E. Posterior segment causes (8,9,10,11,12)	5	50.0%	16	57.1%	21	55.3%

19. Persons with FLV and proportion of all persons in corresponding category of visual impairment with available correction

	Males		Females		Total	
	n	%	n	%	n	%
BCVA<3/60 - PL+	4	19.1	6	22.2	**10**	**20.8**
BCVA<6/60 - 3/60	0	0.0	3	7.1	**3**	**5.0**
BCVA<6/18 - 6/60	6	5.6	19	10.4	**25**	**8.6**
Total	10	6.8	28	11.2	**38**	**9.6**

RESULTS OF RAPID ASSESSMENT OF AVOIDABLE BLINDNESS

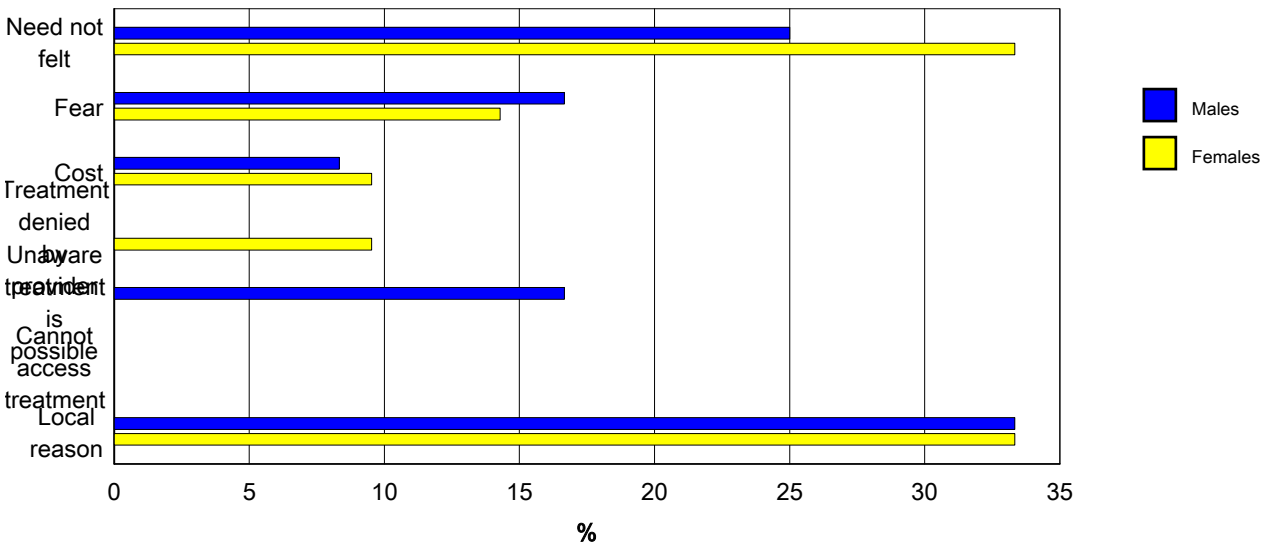
REASONS WHY PEOPLE, BLIND DUE TO CATARACT, HAVE NOT BEEN OPERATED

Date and time of report:	09-Jun-16	10:42:50AM
This report is for the survey area:	jammu	
Year and month when survey was conducted:	2016- 5 until 2016- 5	

RAAB is designed as a rapid procedure and there is not enough time during the RAAB to hold in-dept interviews why people blind from cataract have not yet been operated. Hence, the data on barriers should be regarded as an indication whether more detailed qualitative studies are required.

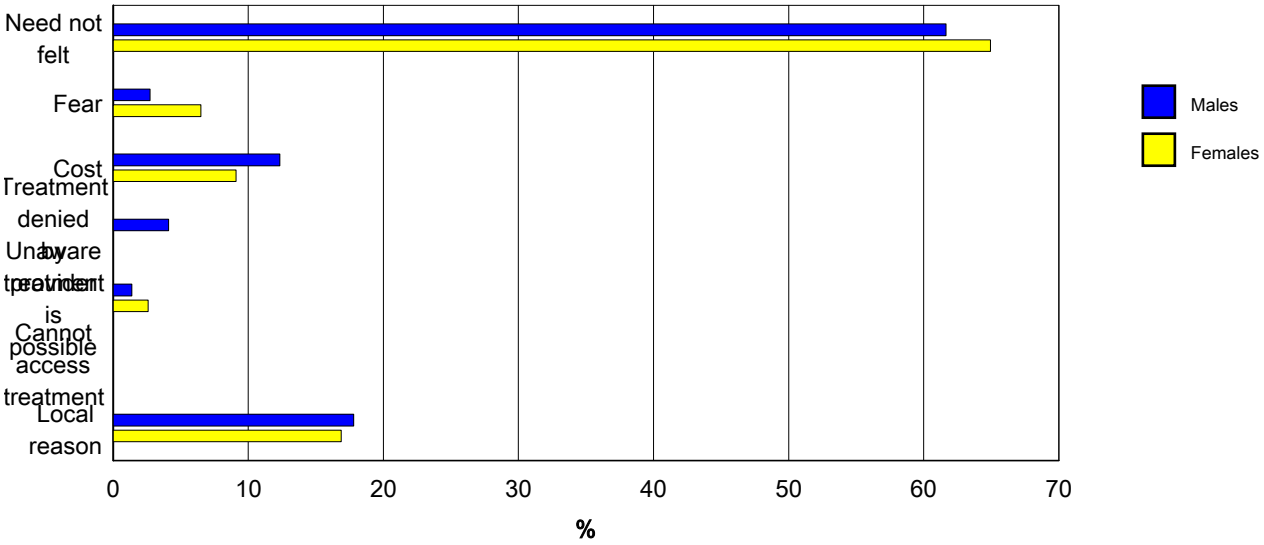
1. Barriers to cataract surgery in sample (bilateral BCVA<6/60 due to cataract)

	Males		Females		Total	
	n	%	n	%	n	%
Need not felt	3	25.0%	7	33.3%	10	30.3%
Fear	2	16.7%	3	14.3%	5	15.2%
Cost	1	8.3%	2	9.5%	3	9.1%
Treatment denied by provider	0	0.0%	2	9.5%	2	6.1%
Unaware treatment is possible	2	16.7%	0	0.0%	2	6.1%
Cannot access treatment	0	0.0%	0	0.0%	0	0.0%
Local reason	4	33.3%	7	33.3%	11	33.3%
Total	**12**	**100.0%**	**21**	**100.0%**	**33**	**100.0%**



2. Barriers to cataract surgery in sample (unilateral BCVA<6/60 due to cataract)

	Males		Females		Total	
	n	%	n	%	n	%
Need not felt	45	61.6%	50	64.9%	95	63.3%
Fear	2	2.7%	5	6.5%	7	4.7%
Cost	9	12.3%	7	9.1%	16	10.7%
Treatment denied by provider	3	4.1%	0	0.0%	3	2.0%
Unaware treatment is possible	1	1.4%	2	2.6%	3	2.0%
Cannot access treatment	0	0.0%	0	0.0%	0	0.0%
Local reason	13	17.8%	13	16.9%	26	17.3%
Total	**73**	**100.0%**	**77**	**100.0%**	**150**	**100.0%**



RESULTS OF RAPID ASSESSMENT OF AVOIDABLE BLINDNESS

VISUAL OUTCOME AFTER CATARACT SURGERY (LONG-TERM OUTCOME)

Date and time of report:	09-Jun-16	10:43:05AM
This report is for the survey area:	jammu	
Year and month when survey was conducted:	2016- 5 until 2016- 5	

The visual acuity of all subjects operated earlier is measured with available correction and with a pinhole. This report gives population based data on visual outcome, not specific for one surgeon or one hospital and with follow-up periods ranging from one month to several decades. When cataract surgery took place several years earlier, the chance of vision loss due to other causes than cataract increases. If the proportion of eyes with a visual outcome less than 6/60 is higher than 10%, research into the possible causes of poor visual outcome is indicated.

1. VA in operated eyes in sample with available correction (PVA)

	Non-IOL		IOL		Couching		Total	
	Eyes	%	Eyes	%	Eyes	%	Eyes	%
Very good: can see 6/12	4	5.4%	292	43.8%	0	0.0%	**296**	**39.9%**
Good: can see 6/18	13	17.6%	173	25.9%	0	0.0%	**186**	**25.1%**
Borderline: can see 6/60	18	24.3%	129	19.3%	0	0.0%	**147**	**19.8%**
Poor: cannot see 6/60	39	52.7%	73	10.9%	0	0.0%	**112**	**15.1%**
Total	**74**	**100.0%**	**667**	**100.0%**	**0**	**0.0%**	**741**	**100.0%**

2. VA in operated eyes in sample with best correction (BCVA)

	Non-IOL		IOL		Couching		Total	
	Eyes	%	Eyes	%	Eyes	%	Eyes	%
Very good: can see 6/12	15	20.3%	455	68.2%	0	0.0%	**470**	**63.4%**
Good: can see 6/18	12	16.2%	103	15.4%	0	0.0%	**115**	**15.5%**
Borderline: can see 6/60	17	23.0%	61	9.1%	0	0.0%	**78**	**10.5%**
Poor: cannot see 6/60	30	40.5%	48	7.2%	0	0.0%	**78**	**10.5%**
Total	**74**	**100.0%**	**667**	**100.0%**	**0**	**0.0%**	**741**	**100.0%**

3. VA in operated eyes in sample by years after surgery

	3 yrs postop		4 - 6 yrs postop.		7+ yrs postop		Total	
	Eyes	%	Eyes	%	Eyes	%	Eyes	%
Very good: can see 6/12	128	46.4%	68	43.3%	100	32.5%	**296**	**39.9%**
Good: can see 6/18	78	28.3%	40	25.5%	68	22.1%	**186**	**25.1%**
Borderline: can see 6/60	51	18.5%	32	20.4%	64	20.8%	**147**	**19.8%**
Poor: cannot see 6/60	19	6.9%	17	10.8%	76	24.7%	**112**	**15.1%**
Total	**276**	**100.0%**	**157**	**100.0%**	**308**	**100.0%**	**741**	**100.0%**

4. Age at time of surgery in males and females

	Males		Females		Total	
	Eyes	%	Eyes	%	Eyes	%
1 - 29	1	0.4%	0	0.0%	**1**	**0.1%**
30 - 39	0	0.0%	2	0.4%	**2**	**0.3%**
40 - 49	10	3.5%	39	8.6%	**49**	**6.6%**
50 - 59	64	22.5%	133	29.2%	**197**	**26.6%**
60 - 69	105	36.8%	162	35.5%	**267**	**36.0%**
70 - 79	88	30.9%	94	20.6%	**182**	**24.6%**
80+	17	6.0%	26	5.7%	**43**	**5.8%**
Total	**285**	**100.0%**	**456**	**100.0%**	**741**	**100.0%**

5. Place of surgery by sex

	Males		Females		Total	
	Eyes	%	Eyes	%	Eyes	%
Government Hosp.	168	58.9	245	53.7	**413**	**55.7**
Voluntary/charitable hospital	4	1.4	4	0.9	**8**	**1.1**
Private hospital	109	38.2	196	43.0	**305**	**41.2**
Eyecamp	4	1.4	11	2.4	**15**	**2.0**
Total	**285**	**100.0**	**456**	**100.0**	**741**	**100.0**

6. Post-op VA with available correction by place of surgery

	Gov. Hosp.		Vol. Hosp.		Priv. Hosp.		Eye camp		Total	
	Eyes	%	Eyes	%	Eyes	%	Eyes	%	Eyes	%
Very good: can see 6/12	130	31.5	1	12.5	162	53.1	3	20.0	**296**	**39.9**
Good: can see 6/18	120	29.1	6	75.0	58	19.0	2	13.3	**186**	**25.1**
Borderline: can see 6/60	84	20.3	1	12.5	57	18.7	5	33.3	**147**	**19.8**
Poor: cannot see 6/60	79	19.1	0	0.0	28	9.2	5	33.3	**112**	**15.1**
Total	**413**	**100.0**	**8**	**100.0**	**305**	**100.0**	**15**	**100.0**	**741**	**100.0**

7. Post-op presenting VA and causes of borderline and poor outcome

	Selection		Surgery		Spectacles		Sequelae		Can see 6/12		Total	
	Eyes	%	Eyes	%	Eyes	%	Eyes	%	Eyes	%	Eyes	%
Very good: can see 6/12	0	0.0	0	0.0	0	0.0	0	0.0	296	100.0	**296**	**39.9**
Good: can see 6/18	2	4.3	29	18.8	143	84.1	12	16.2	0	0.0	**186**	**25.1**
Borderline: can see 6/60	22	46.8	82	53.2	24	14.1	19	25.7	0	0.0	**147**	**19.8**
Poor: cannot see 6/60	23	48.9	43	27.9	3	1.8	43	58.1	0	0.0	**112**	**15.1**
Total	**47**	**100.0**	**154**	**100.0**	**170**	**100.0**	**74**	**100.0**	**296**	**100.0**	**741**	**100.0**

8. Proportion and type of surgery

	Males		Females		Total	
	Eyes	%	Eyes	%	Eyes	%
Non-IOL	32	11.2	42	9.2	**74**	**10.0**
IOL	253	88.8	414	90.8	**667**	**90.0**
Couching	0	0.0	0	0.0	**0**	**0.0**
Total	**285**	**100.0**	**456**	**100.0**	**741**	**100.0**

RESULTS OF RAPID ASSESSMENT OF AVOIDABLE BLINDNESS

INDICATORS BY SEX AND BY AGE GROUP - FINDINGS FROM SAMPLE

Date and time of report:	09-Jun-16	10:43:28AM
This report is for the survey area:	jammu	
Year and month when survey was conducted:	2016- 5 until 2016- 5	

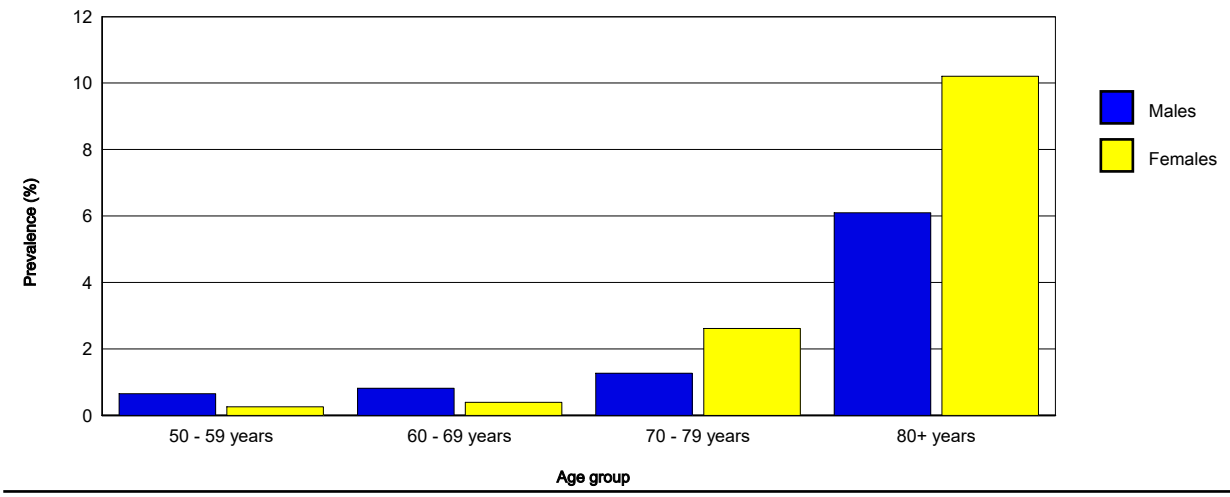
The sample size of the Rapid Assessment is sufficient to provide an acceptable accuracy of the overall prevalence of bilateral blindness (VA <3/60). The accuracy of prevalence estimates for any subgroup is far less and caution should be taken in the interpretation of these data. Confidence intervals for prevalence of various conditions can be calculated with menu Reports / Sampling error & Design Effect.

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

	Males		Females		Total	
	n	%	n	%	n	%
50 - 59 years	459	40.1%	767	47.8%	1,226	43.9%
60 - 69 years	368	32.1%	512	31.9%	880	32.0%
70 - 79 years	236	20.6%	229	14.3%	465	17.4%
80+ years	82	7.2%	98	6.1%	180	6.6%
Total	**1,145**	**100.0%**	**1,606**	**100.0%**	**2,751**	**100.0%**

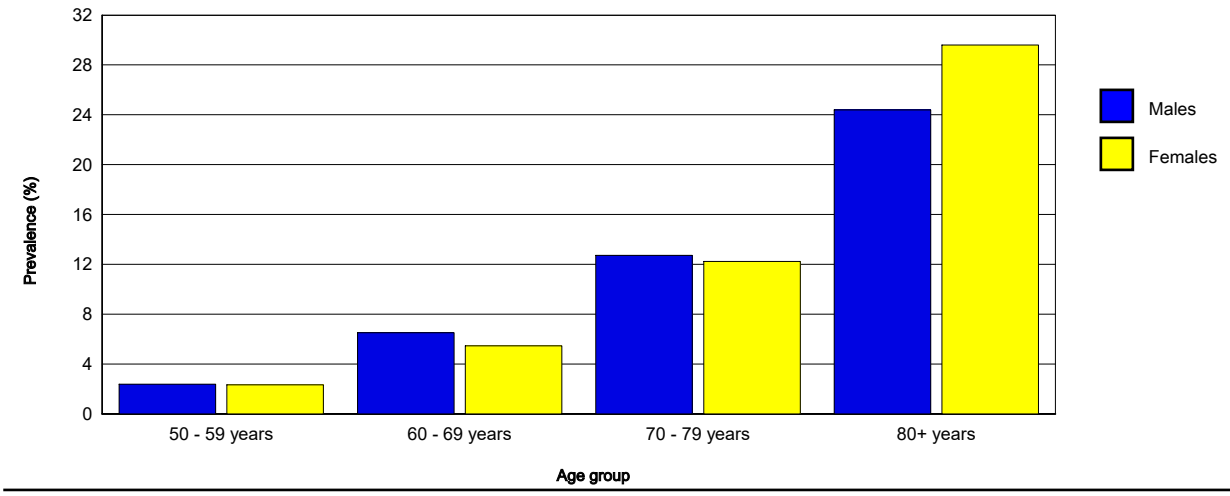
2. Prevalence of people with bilateral blindness - VA <3/60 in better eye with best correction

	Males		Females		Total	
	n	%	n	%	n	%
50 - 59 years	3	0.7%	2	0.3%	5	0.4%
60 - 69 years	3	0.8%	2	0.4%	5	0.6%
70 - 79 years	3	1.3%	6	2.6%	9	1.9%
80+ years	5	6.1%	10	10.2%	15	8.3%
Total	**14**	**1.2%**	**20**	**1.2%**	**34**	**1.2%**



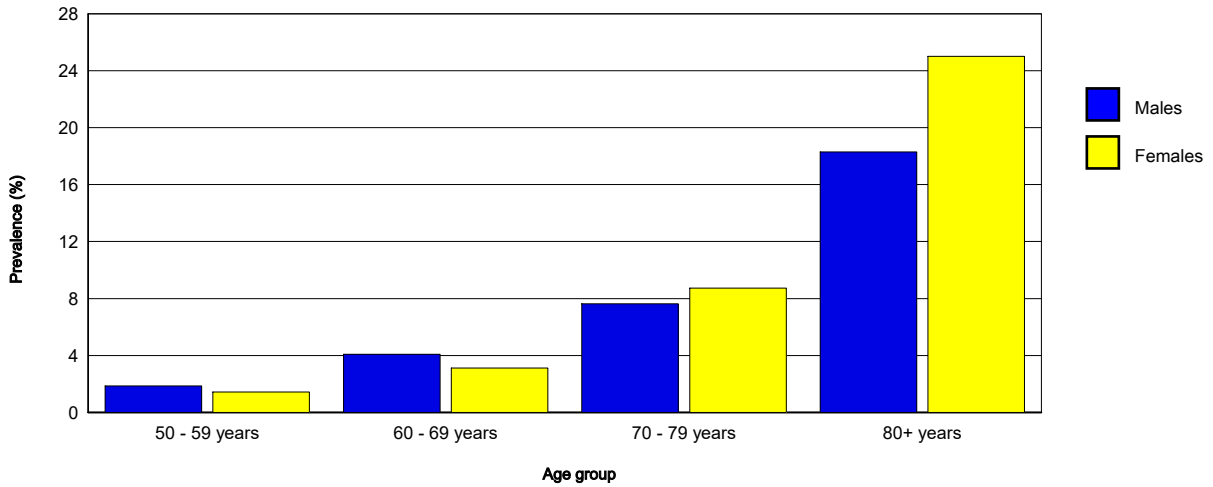
3. Prevalence of people with unilateral blindness - VA <3/60 with best correction

	Males		Females		Total	
	n	%	n	%	n	%
50 - 59 years	11	2.4%	18	2.3%	29	2.4%
60 - 69 years	24	6.5%	28	5.5%	52	5.9%
70 - 79 years	30	12.7%	28	12.2%	58	12.5%
80+ years	20	24.4%	29	29.6%	49	27.2%
Total	**85**	**7.4%**	**103**	**6.4%**	**188**	**6.8%**



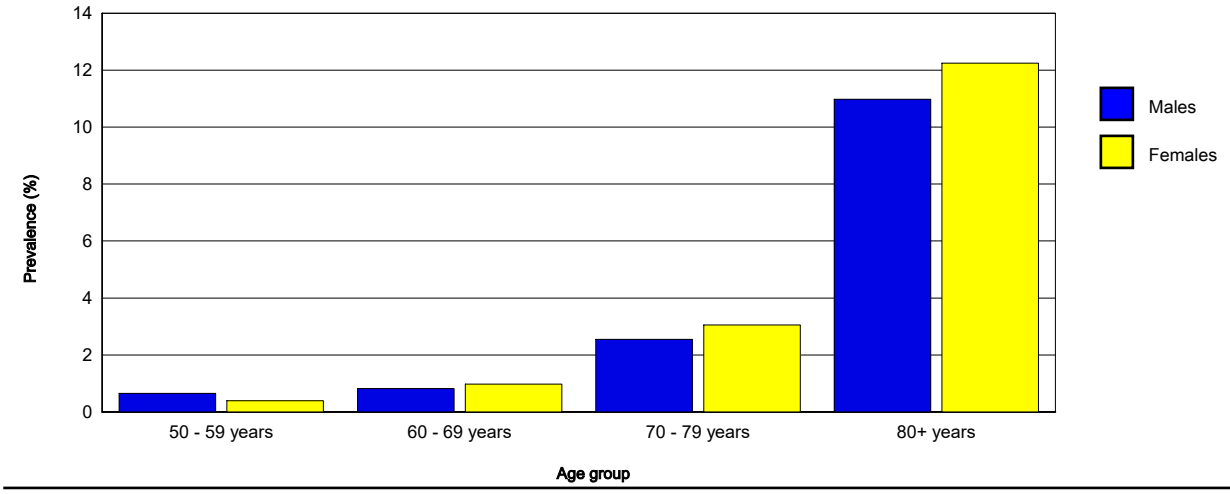
4. Prevalence of blind eyes - VA <3/60 with best correction

	Males		Females		Total	
	n	%	n	%	n	%
50 - 59 years	17	1.9%	22	1.4%	39	1.6%
60 - 69 years	30	4.1%	32	3.1%	62	3.5%
70 - 79 years	36	7.6%	40	8.7%	76	8.2%
80+ years	30	18.3%	49	25.0%	79	21.9%
Total	**113**	**4.9%**	**143**	**4.5%**	**256**	**4.7%**



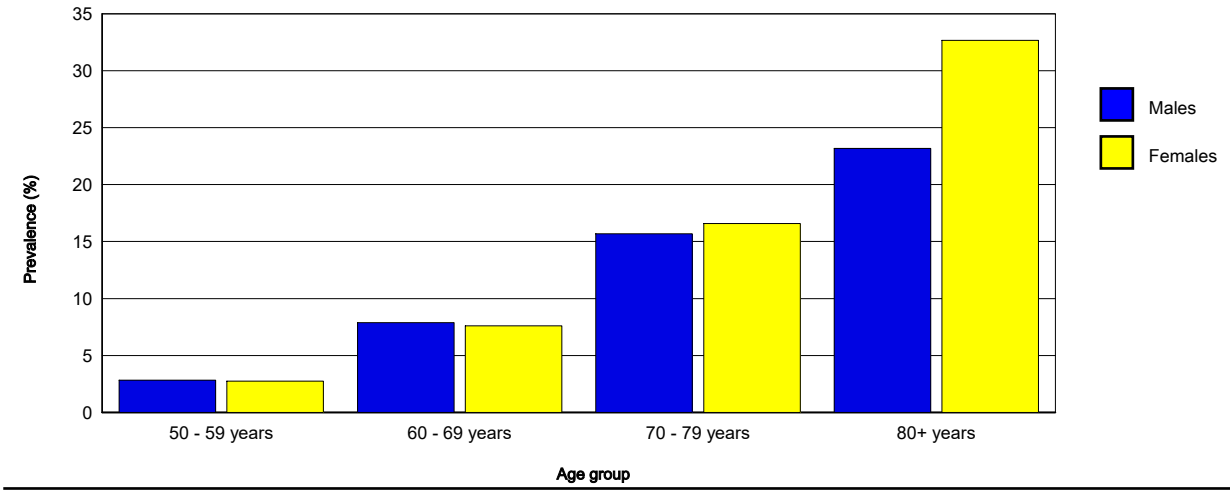
5. Prevalence of people with bilateral blindness - VA <3/60 in better eye with available correction

	Males		Females		Total	
	n	%	n	%	n	%
50 - 59 years	3	0.7%	3	0.4%	6	0.5%
60 - 69 years	3	0.8%	5	1.0%	8	0.9%
70 - 79 years	6	2.5%	7	3.1%	13	2.8%
80+ years	9	11.0%	12	12.2%	21	11.7%
Total	**21**	**1.8%**	**27**	**1.7%**	**48**	**1.7%**



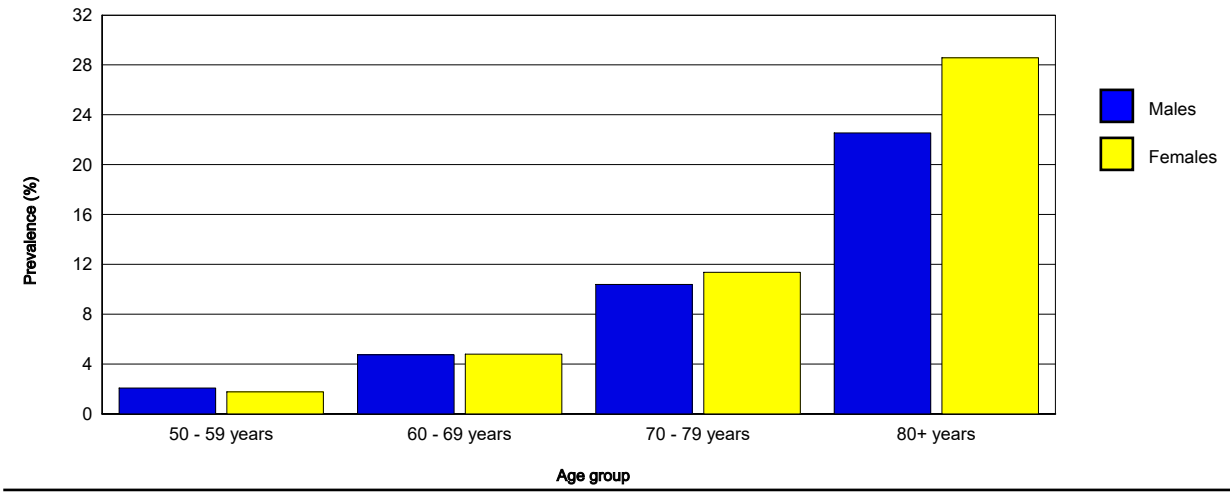
6. Prevalence of people with unilateral blindness - VA <3/60 with available correction

	Males		Females		Total	
	n	%	n	%	n	%
50 - 59 years	13	2.8%	21	2.7%	34	2.8%
60 - 69 years	29	7.9%	39	7.6%	68	7.7%
70 - 79 years	37	15.7%	38	16.6%	75	16.1%
80+ years	19	23.2%	32	32.7%	51	28.3%
Total	**98**	**8.6%**	**130**	**8.1%**	**228**	**8.3%**



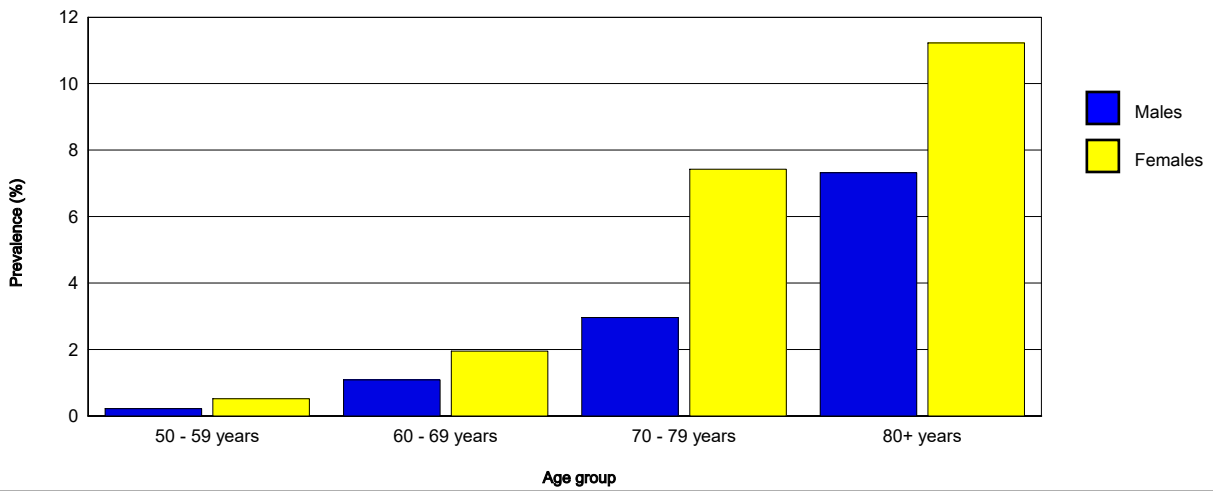
7. Prevalence of blind eyes - VA <3/60 with available correction

	Males		Females		Total	
	n	%	n	%	n	%
50 - 59 years	19	2.1%	27	1.8%	46	1.9%
60 - 69 years	35	4.8%	49	4.8%	84	4.8%
70 - 79 years	49	10.4%	52	11.4%	101	10.9%
80+ years	37	22.6%	56	28.6%	93	25.8%
Total	**140**	**6.1%**	**184**	**5.7%**	**324**	**5.9%**



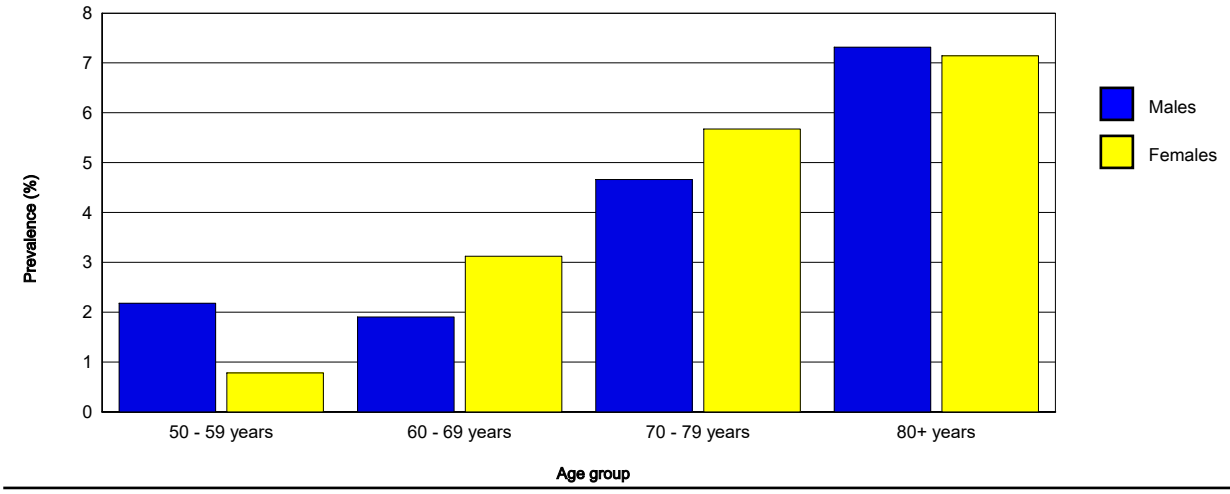
8. Prevalence of people with bilateral severe visual impairment - VA<6/60-3/60 in better eye with available correction

	Males		Females		Total	
	n	%	n	%	n	%
50 - 59 years	1	0.2%	4	0.5%	5	0.4%
60 - 69 years	4	1.1%	10	2.0%	14	1.6%
70 - 79 years	7	3.0%	17	7.4%	24	5.2%
80+ years	6	7.3%	11	11.2%	17	9.4%
Total	**18**	**1.6%**	**42**	**2.6%**	**60**	**2.2%**



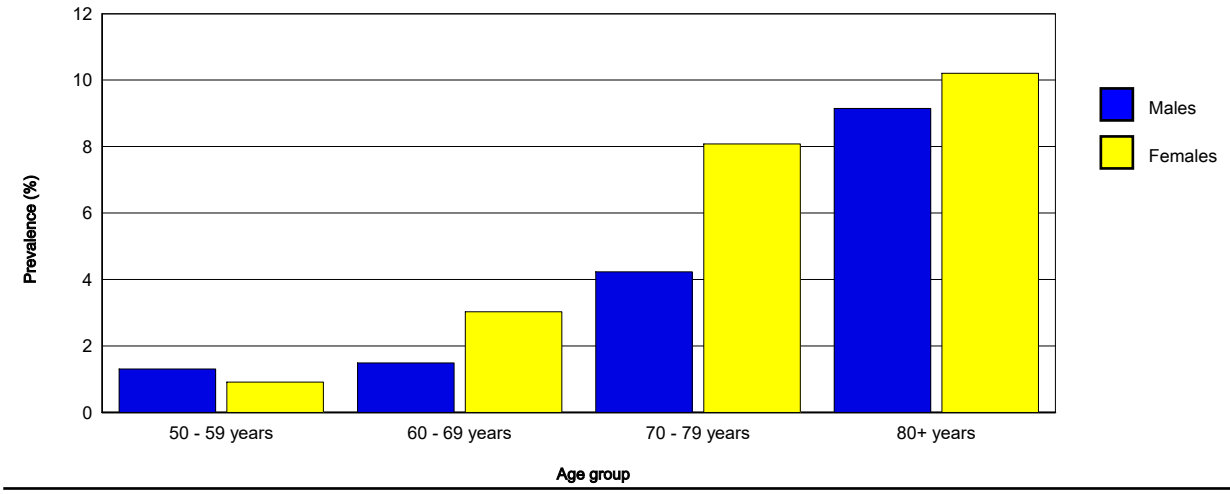
9. Prevalence of people with unilateral severe visual impairment - VA <6/60-3/60 with available correction

	Males		Females		Total	
	n	%	n	%	n	%
50 - 59 years	10	2.2%	6	0.8%	16	1.3%
60 - 69 years	7	1.9%	16	3.1%	23	2.6%
70 - 79 years	11	4.7%	13	5.7%	24	5.2%
80+ years	6	7.3%	7	7.1%	13	7.2%
Total	**34**	**3.0%**	**42**	**2.6%**	**76**	**2.8%**



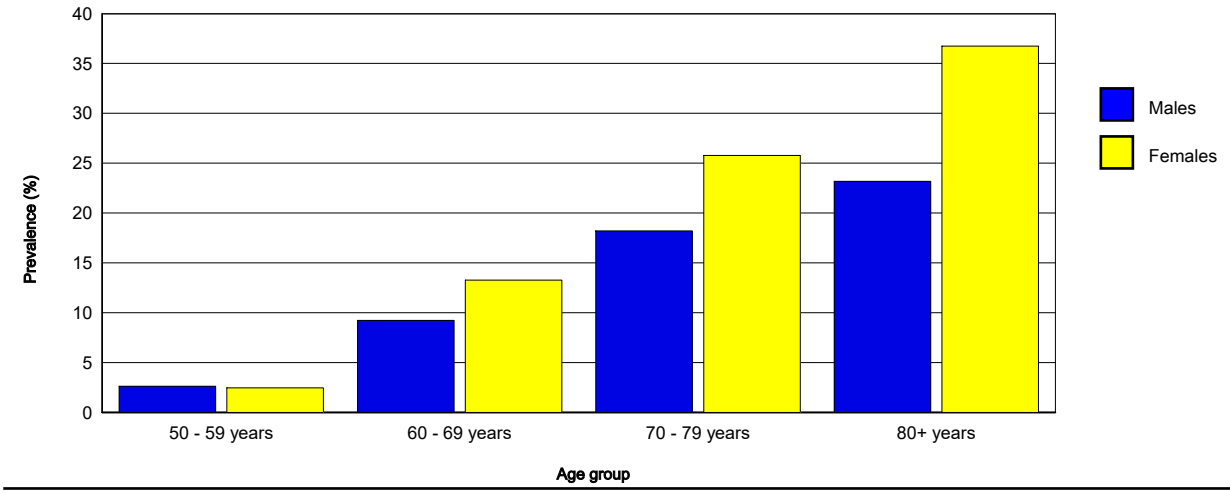
10. Prevalence of SVI eyes - VA VA<6/60-3/60 with available correction

	Males		Females		Total	
	n	%	n	%	n	%
50 - 59 years	12	1.3%	14	0.9%	26	1.1%
60 - 69 years	11	1.5%	31	3.0%	42	2.4%
70 - 79 years	20	4.2%	37	8.1%	57	6.1%
80+ years	15	9.1%	20	10.2%	35	9.7%
Total	**58**	**2.5%**	**102**	**3.2%**	**160**	**2.9%**



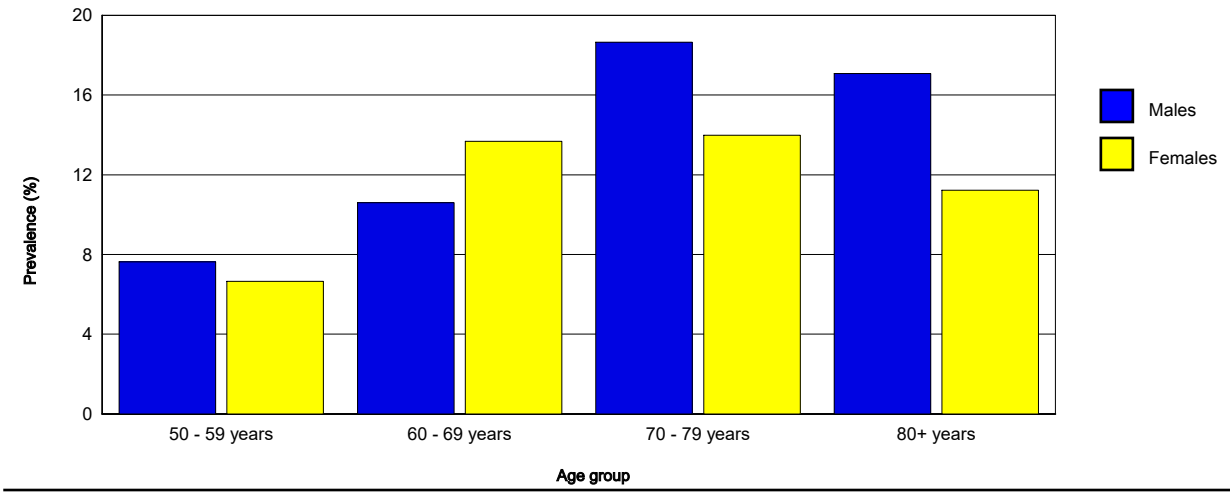
11. Prevalence of people with bilateral moderate visual impairment - VA <6/18-6/60 in better eye with available correction

	Males		Females		Total	
	n	%	n	%	n	%
50 - 59 years	12	2.6%	19	2.5%	31	2.5%
60 - 69 years	34	9.2%	68	13.3%	102	11.6%
70 - 79 years	43	18.2%	59	25.8%	102	21.9%
80+ years	19	23.2%	36	36.7%	55	30.6%
Total	**108**	**9.4%**	**182**	**11.3%**	**290**	**10.5%**



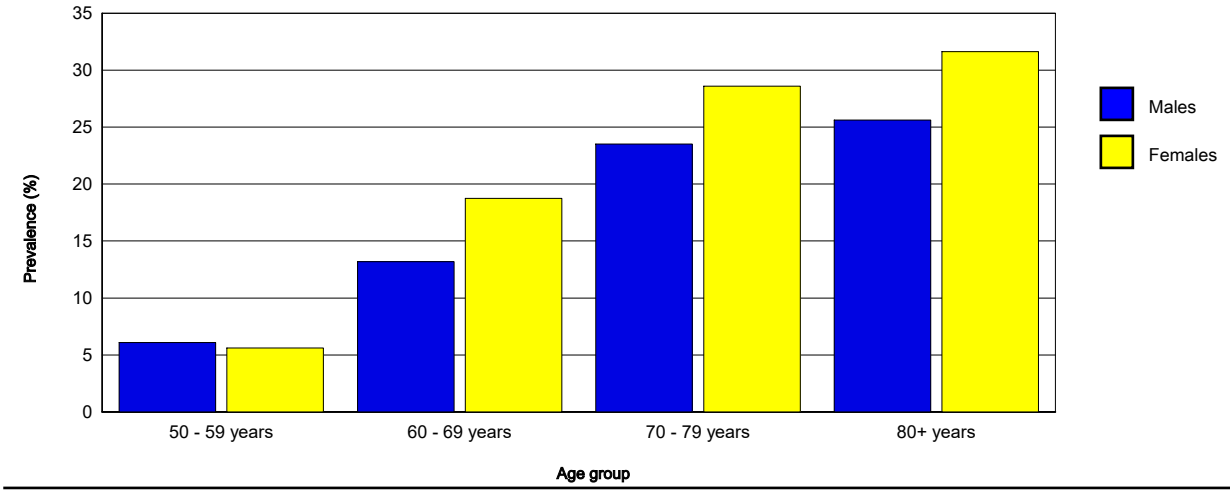
12. Prevalence of people with unilateral visual impairment - VA <6/18-6/60 with available correction

	Males		Females		Total	
	n	%	n	%	n	%
50 - 59 years	35	7.6%	51	6.6%	86	7.0%
60 - 69 years	39	10.6%	70	13.7%	109	12.4%
70 - 79 years	44	18.6%	32	14.0%	76	16.3%
80+ years	14	17.1%	11	11.2%	25	13.9%
Total	**132**	**11.5%**	**164**	**10.2%**	**296**	**10.8%**



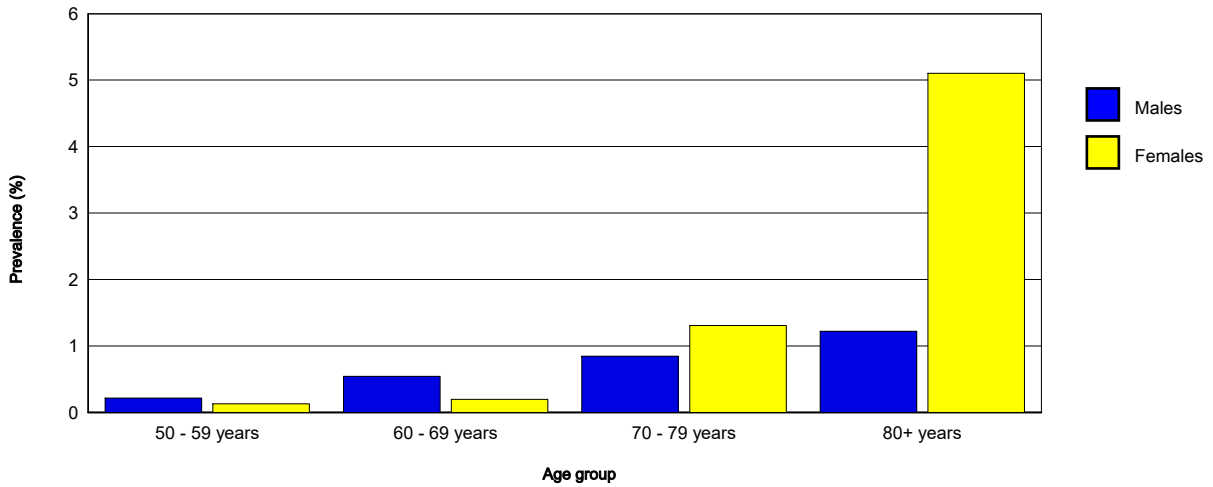
13. Prevalence of MVI eyes - VA<6/18-6/60 with available correction

	Males		Females		Total	
	n	%	n	%	n	%
50 - 59 years	56	6.1%	86	5.6%	142	5.8%
60 - 69 years	97	13.2%	192	18.8%	289	16.4%
70 - 79 years	111	23.5%	131	28.6%	242	26.0%
80+ years	42	25.6%	62	31.6%	104	28.9%
Total	**306**	**13.4%**	**471**	**14.7%**	**777**	**14.1%**



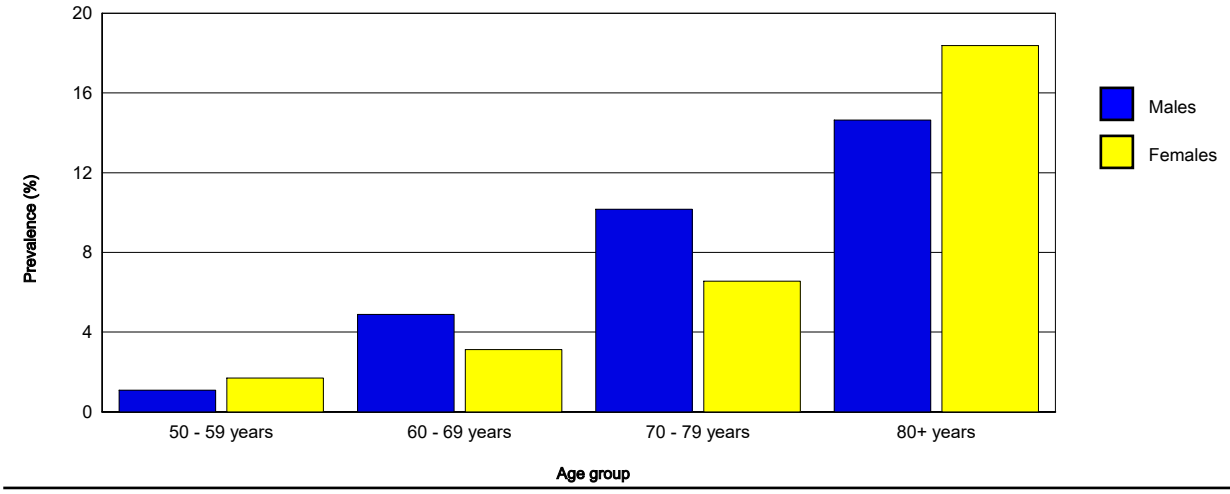
14. Prevalence of people bilateral blind due to cataract - VA<3/60 in better eye with best correction

	Males		Females		Total	
	n	%	n	%	n	%
50 - 59 years	1	0.2%	1	0.1%	2	0.2%
60 - 69 years	2	0.5%	1	0.2%	3	0.3%
70 - 79 years	2	0.8%	3	1.3%	5	1.1%
80+ years	1	1.2%	5	5.1%	6	3.3%
Total	**6**	**0.5%**	**10**	**0.6%**	**16**	**0.6%**



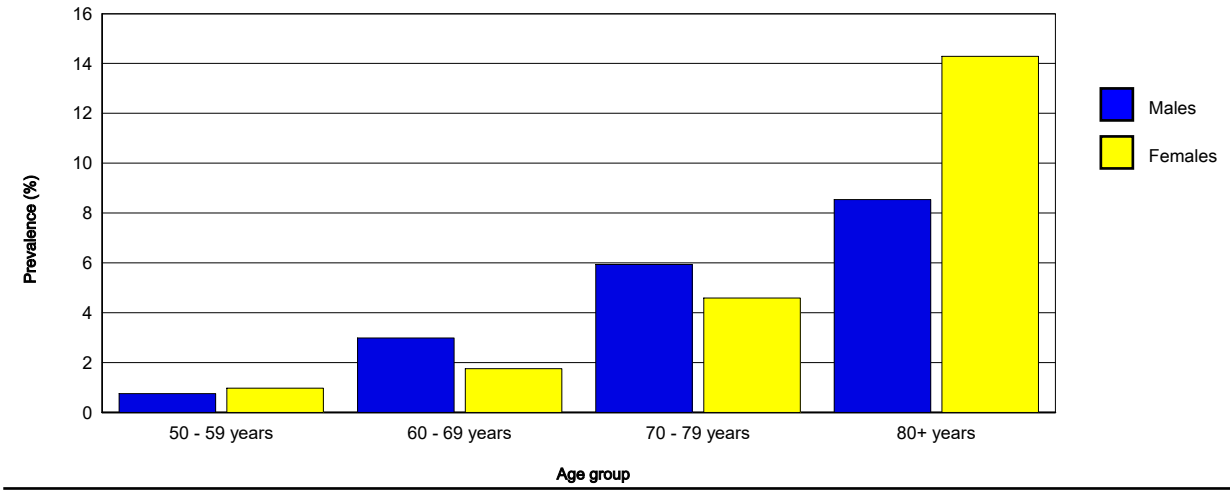
15. Prevalence of people unilateral blind due to cataract - VA <3/60 with best correction

	Males		Females		Total	
	n	%	n	%	n	%
50 - 59 years	5	1.1%	13	1.7%	18	1.5%
60 - 69 years	18	4.9%	16	3.1%	34	3.9%
70 - 79 years	24	10.2%	15	6.6%	39	8.4%
80+ years	12	14.6%	18	18.4%	30	16.7%
Total	**59**	**5.2%**	**62**	**3.9%**	**121**	**4.4%**



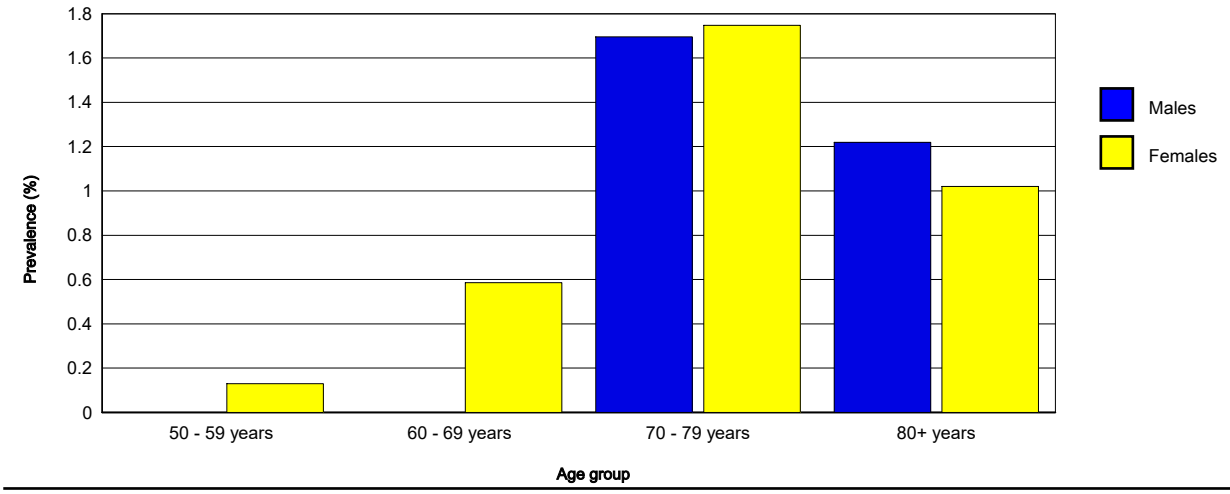
16. Prevalence of cataract blind eyes - VA <3/60 with best correction

	Males		Females		Total	
	n	%	n	%	n	%
50 - 59 years	7	0.8%	15	1.0%	22	0.9%
60 - 69 years	22	3.0%	18	1.8%	40	2.3%
70 - 79 years	28	5.9%	21	4.6%	49	5.3%
80+ years	14	8.5%	28	14.3%	42	11.7%
Total	**71**	**3.1%**	**82**	**2.6%**	**153**	**2.8%**



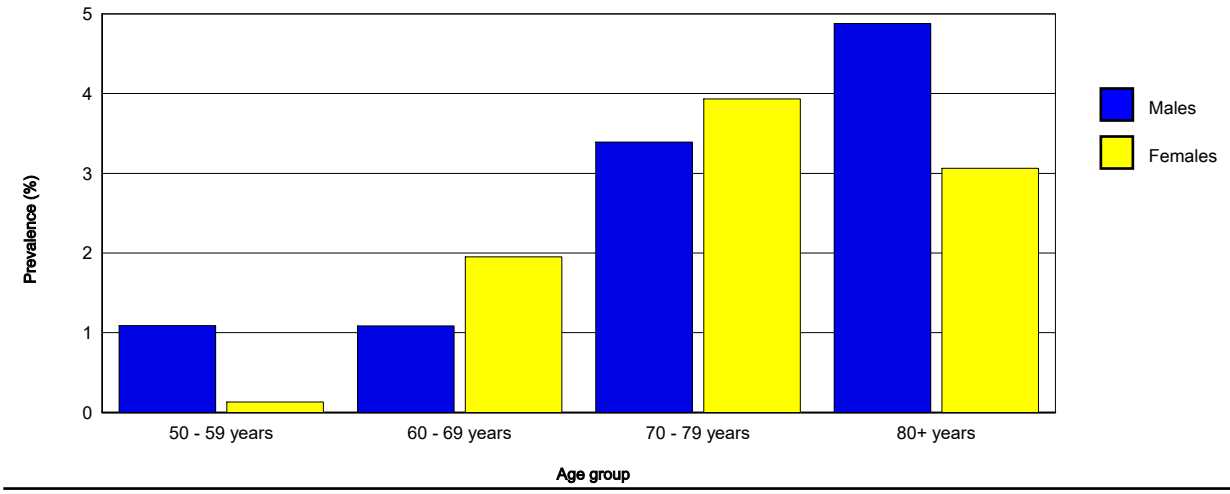
17. Prevalence of people with bilateral severe visual impairment due to cataract - VA <6/60-3/60 - best eye, best correction

	Males		Females		Total	
	n	%	n	%	n	%
50 - 59 years	0	0.0%	1	0.1%	1	0.1%
60 - 69 years	0	0.0%	3	0.6%	3	0.3%
70 - 79 years	4	1.7%	4	1.7%	8	1.7%
80+ years	1	1.2%	1	1.0%	2	1.1%
Total	**5**	**0.4%**	**9**	**0.6%**	**14**	**0.5%**



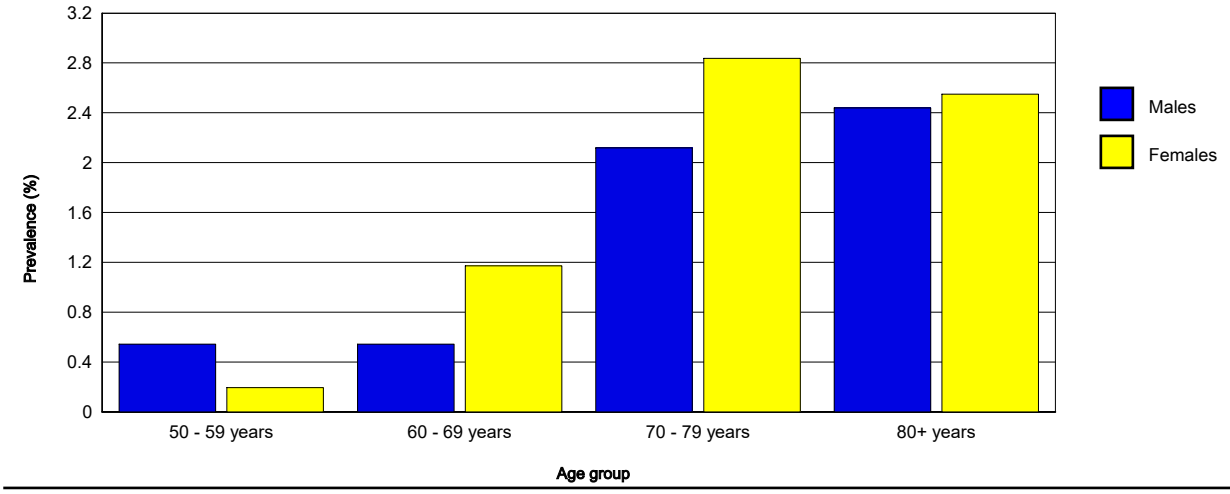
18. Prevalence of people with unilateral severe visual impairment due to cataract - VA<6/60-3/60 with best correction

	Males		Females		Total	
	n	%	n	%	n	%
50 - 59 years	5	1.1%	1	0.1%	6	0.5%
60 - 69 years	4	1.1%	10	2.0%	14	1.6%
70 - 79 years	8	3.4%	9	3.9%	17	3.7%
80+ years	4	4.9%	3	3.1%	7	3.9%
Total	**21**	**1.8%**	**23**	**1.4%**	**44**	**1.6%**



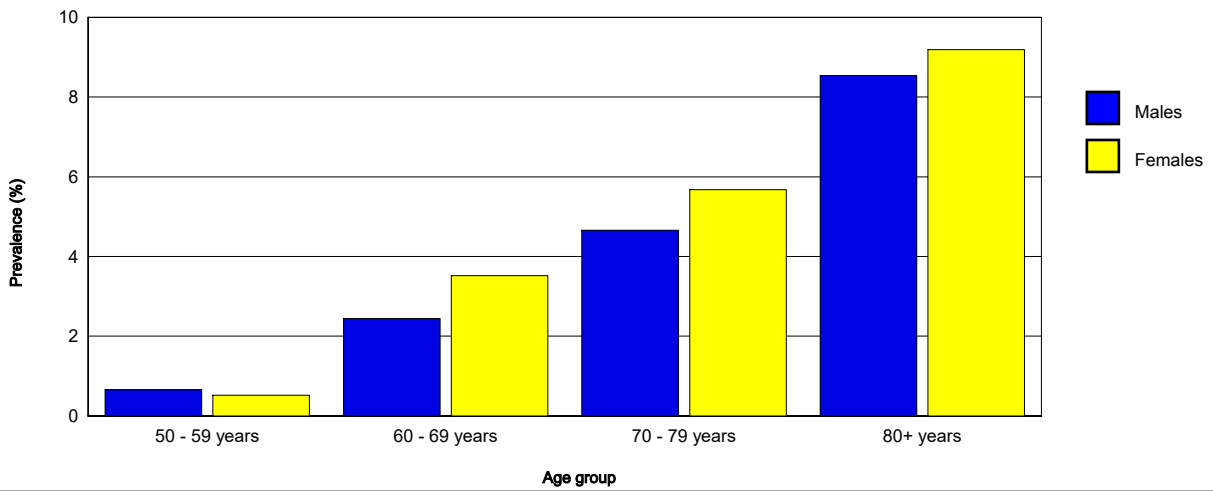
19. Prevalence of cataract SVI eyes - VA<6/60-3/60 with best correction

	Males		Females		Total	
	n	%	n	%	n	%
50 - 59 years	5	0.5%	3	0.2%	8	0.3%
60 - 69 years	4	0.5%	12	1.2%	16	0.9%
70 - 79 years	10	2.1%	13	2.8%	23	2.5%
80+ years	4	2.4%	5	2.6%	9	2.5%
Total	**23**	**1.0%**	**33**	**1.0%**	**56**	**1.0%**



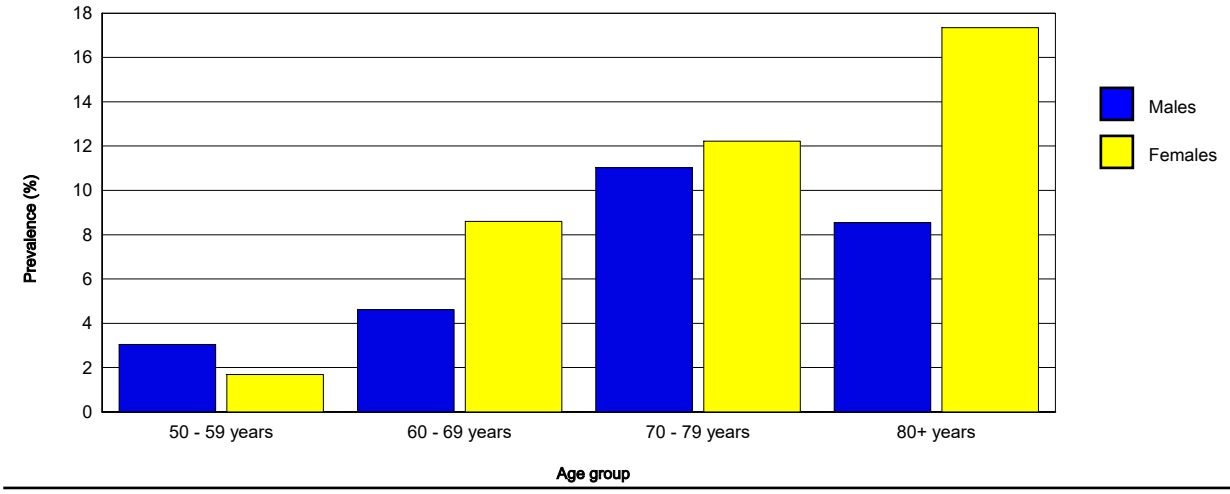
20. Prevalence of people with bilateral moderate visual impairment due to cataract - VA<6/18-6/60 - best eye, best correction

	Males		Females		Total	
	n	%	n	%	n	%
50 - 59 years	3	0.7%	4	0.5%	7	0.6%
60 - 69 years	9	2.4%	18	3.5%	27	3.1%
70 - 79 years	11	4.7%	13	5.7%	24	5.2%
80+ years	7	8.5%	9	9.2%	16	8.9%
Total	**30**	**2.6%**	**44**	**2.7%**	**74**	**2.7%**



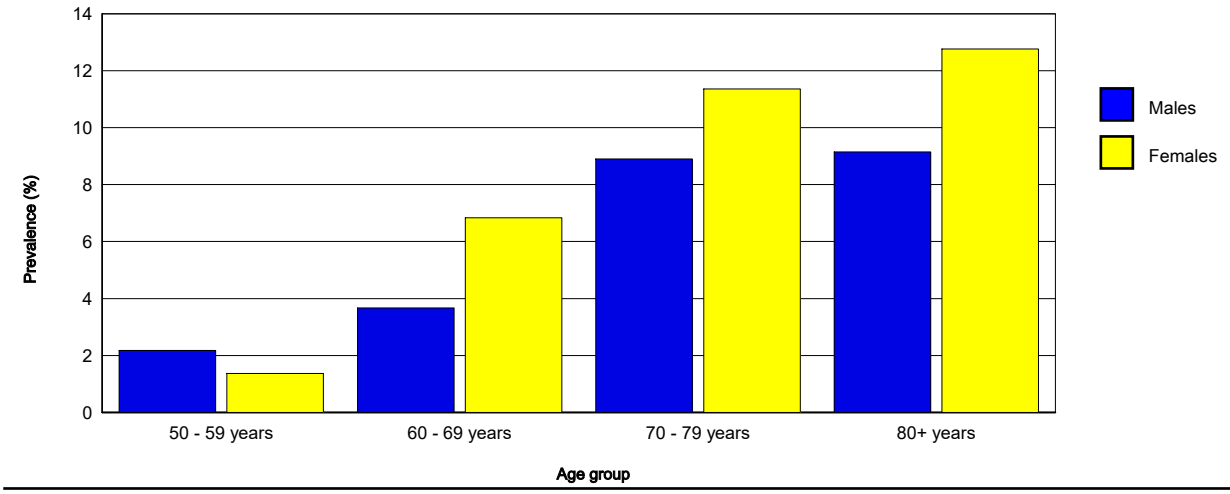
21. Prevalence of people with unilateral moderate visual impairment due to cataract - VA<6/18-6/60 best corrected

	Males		Females		Total	
	n	%	n	%	n	%
50 - 59 years	14	3.1%	13	1.7%	27	2.2%
60 - 69 years	17	4.6%	44	8.6%	61	6.9%
70 - 79 years	26	11.0%	28	12.2%	54	11.6%
80+ years	7	8.5%	17	17.3%	24	13.3%
Total	**64**	**5.6%**	**102**	**6.4%**	**166**	**6.0%**



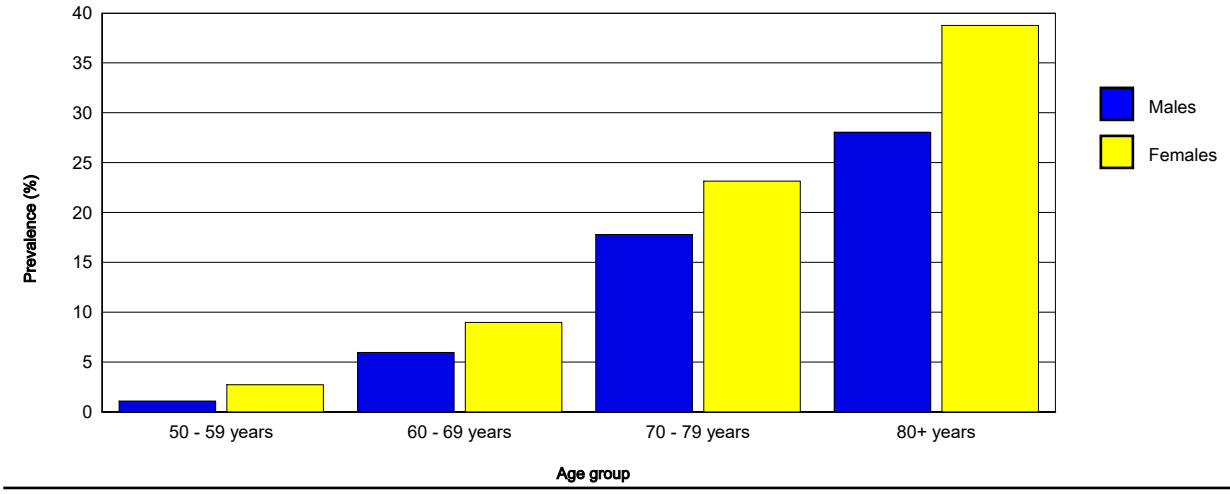
22. Prevalence of cataract MVI eyes - VA <6/18-6/60 with best correction

	Males		Females		Total	
	n	%	n	%	n	%
50 - 59 years	20	2.2%	21	1.4%	41	1.7%
60 - 69 years	27	3.7%	70	6.8%	97	5.5%
70 - 79 years	42	8.9%	52	11.4%	94	10.1%
80+ years	15	9.1%	25	12.8%	40	11.1%
Total	**104**	**4.5%**	**168**	**5.2%**	**272**	**4.9%**



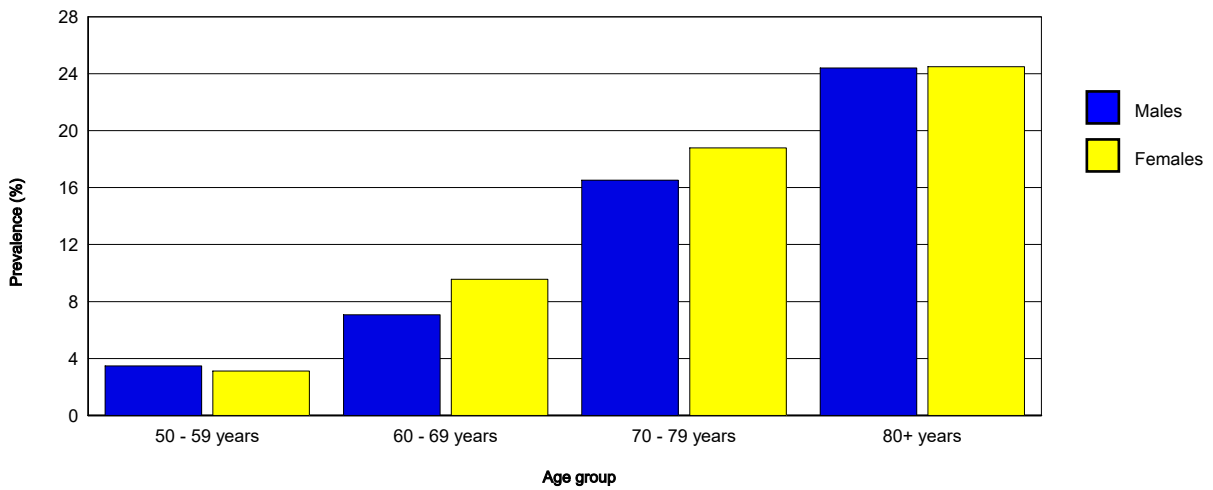
23. Prevalence of people with bilateral (pseudo)aphakia

	Males		Females		Total	
	n	%	n	%	n	%
50 - 59 years	5	1.1%	21	2.7%	26	2.1%
60 - 69 years	22	6.0%	46	9.0%	68	7.7%
70 - 79 years	42	17.8%	53	23.1%	95	20.4%
80+ years	23	28.0%	38	38.8%	61	33.9%
Total	**92**	**8.0%**	**158**	**9.8%**	**250**	**9.1%**



24. Prevalence of people with unilateral (pseudo)aphakia

	Males		Females		Total	
	n	%	n	%	n	%
50 - 59 years	16	3.5%	24	3.1%	40	3.3%
60 - 69 years	26	7.1%	49	9.6%	75	8.5%
70 - 79 years	39	16.5%	43	18.8%	82	17.6%
80+ years	20	24.4%	24	24.5%	44	24.4%
Total	**101**	**8.8%**	**140**	**8.7%**	**241**	**8.8%**



RESULTS OF RAPID ASSESSMENT OF AVOIDABLE BLINDNESS

AGE AND SEX ADJUSTED PREVALENCE AND ESTIMATED NUMBERS

Date and time of report:	09-Jun-16	10:43:42AM
This report is for the survey area:	jammu	
Year and month when survey was conducted:	2016- 5 until 2016- 5	

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.

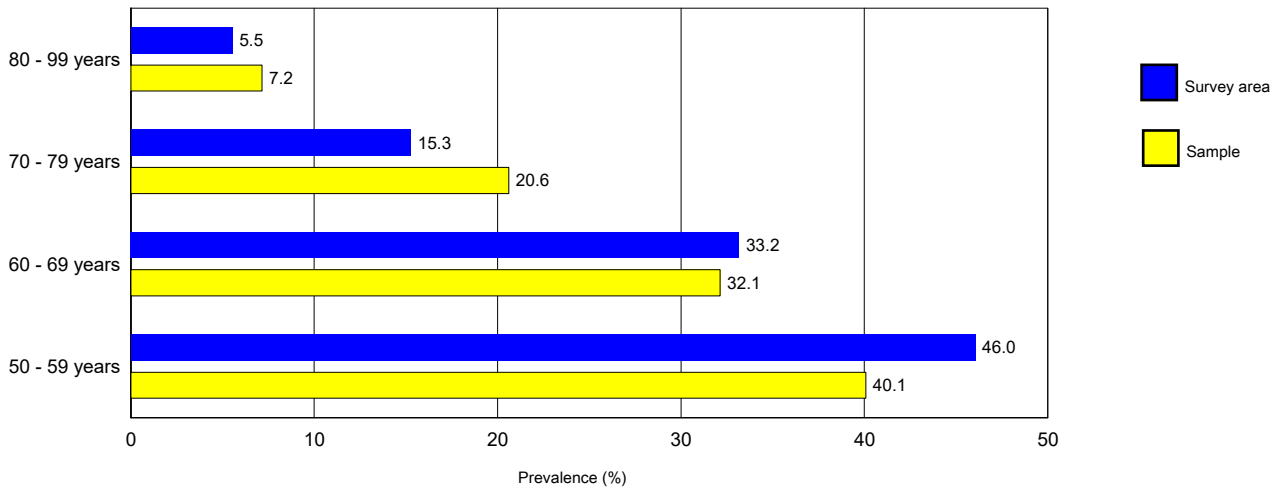
1. Age and sex distribution of people examined in the sample

	Males		Females		Total	
	n	%	n	%	n	%
50 - 59 years	459	40.1%	767	47.8%	**1,226**	**44.6%**
60 - 69 years	368	32.1%	512	31.9%	**880**	**32.0%**
70 - 79 years	236	20.6%	229	14.3%	**465**	**16.9%**
80 - 99 years	82	7.2%	98	6.1%	**180**	**6.5%**
Total	**1,145**	**100.0%**	**1,606**	**100.0%**	**2,751**	**100.0%**

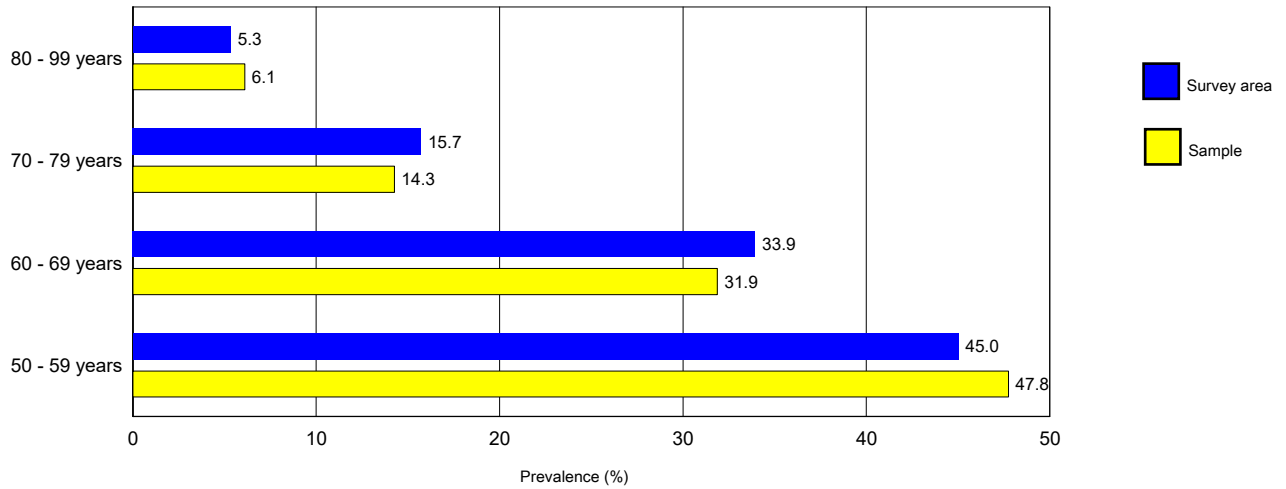
2. Total number of people aged 50+ in survey area

	Males		Females		Total	
	n	%	n	%	n	%
50 - 59 years	1,701,815	46.0%	1,629,717	45.0%	**3,331,532**	**45.5%**
60 - 69 years	1,225,484	33.2%	1,228,102	33.9%	**2,453,586**	**33.5%**
70 - 79 years	563,929	15.3%	568,941	15.7%	**1,132,870**	**15.5%**
80 - 99 years	204,857	5.5%	193,135	5.3%	**397,992**	**5.4%**
Total	**3,696,085**	**100.0%**	**3,619,895**	**100.0%**	**7,315,980**	**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	40,773	1.1 (0.5 - 1.8)	43,662	1.2 (0.7 - 1.7)	84,435	1.2 (0.8 - 1.5)
All eyes	323,905	4.4 (3.2 - 5.5)	319,446	4.4 (3.6 - 5.2)	643,351	4.4 (3.7 - 5.1)
Blindness - VA < 3/60 in the better eye with available correction (presenting VA)						
All bilateral cases	57,934	1.6 (0.8 - 2.3)	59,407	1.6 (1.1 - 2.2)	117,341	1.6 (1.1 - 2.1)
All eyes	396,522	5.4 (4.0 - 6.7)	414,457	5.7 (4.9 - 6.6)	810,979	5.5 (4.7 - 6.4)
Severe visual impairment (SVI) - VA<6/60 - 3/60 in the better eye with available correction						
All bilateral cases	48,745	1.3 (0.4 - 2.2)	96,399	2.7 (1.9 - 3.5)	145,144	2.0 (1.4 - 2.6)
All eyes	166,388	2.3 (1.5 - 3.0)	235,445	3.3 (2.6 - 3.9)	401,833	2.7 (2.2 - 3.3)
Moderate visual impairment (MVI) - VA<6/18 - 6/60 in the better eye with available correction						
All bilateral cases	307,933	8.3 (6.2 - 10.5)	421,009	11.6 (9.9 - 13.4)	728,942	10.0 (8.3 - 11.6)
All eyes	900,816	12.2 (10.3 - 14.1)	1,090,921	15.1 (13.4 - 16.7)	1,991,737	13.6 (12.1 - 15.1)
Early visual impairment (EVI) - VA<6/12 - 6/18 in the better eye with available correction						
All bilateral cases	661,600	17.9 (15.2 - 20.6)	736,020	20.3 (18.3 - 22.3)	1,397,620	19.1 (17.3 - 20.9)
All eyes	1,381,832	18.7 (16.5 - 20.8)	1,454,756	20.1 (18.5 - 21.7)	2,836,588	19.4 (17.9 - 20.9)

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	57,934	1.6 (0.8 - 2.3)	59,407	1.6 (1.1 - 2.2)	117,341	1.6 (1.1 - 2.1)
All eyes	396,522	5.4 (4.0 - 6.7)	414,457	5.7 (4.9 - 6.6)	810,979	5.5 (4.7 - 6.4)
VA<6/60 in the better eye, with available correction (presenting VA)						
All bilateral cases	106,680	2.9 (1.7 - 4.0)	155,809	4.3 (3.3 - 5.3)	262,489	3.6 (2.8 - 4.4)
All eyes	562,910	7.6 (5.9 - 9.4)	649,903	9.0 (7.9 - 10.1)	1,212,813	8.3 (7.2 - 9.4)
VA<6/18 in the better eye, with available correction (presenting VA)						
All bilateral cases	414,613	11.2 (8.6 - 13.9)	576,817	15.9 (13.8 - 18.1)	991,430	13.6 (11.5 - 15.6)
All eyes	1,463,724	19.8 (17.1 - 22.5)	1,740,825	24.0 (21.8 - 26.3)	3,204,549	21.9 (19.8 - 24.0)
VA<6/12 in the better eye, with available correction (presenting VA)						
All bilateral cases	1,076,211	29.1 (25.8 - 32.4)	1,312,836	36.3 (33.4 - 39.1)	2,389,047	32.7 (30.0 - 35.3)
All eyes	2,845,560	38.5 (35.5 - 41.5)	3,195,580	44.1 (41.5 - 46.8)	6,041,140	41.3 (38.8 - 43.7)

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	17,645	0.5 (0.1 - 0.9)	21,831	0.6 (0.2 - 1.0)	39,476	0.5 (0.2 - 0.8)
Unilateral cataract	165,808	4.5 (2.9 - 6.1)	138,741	3.8 (2.9 - 4.8)	304,549	4.2 (3.2 - 5.1)
Cataract eyes	201,100	2.7 (1.9 - 3.6)	182,402	2.5 (1.9 - 3.2)	383,502	2.6 (2.0 - 3.2)
Cataract and SVI - VA<6/60 - 3/60 in better eye with best correction or pinhole						
Bilateral cataract	12,056	0.3 (0.2 - 0.5)	21,230	0.6 (0.3 - 0.8)	33,286	0.5 (0.3 - 0.6)
Unilateral cataract	41,634	1.1 (0.4 - 1.8)	34,851	1.0 (0.4 - 1.5)	76,485	1.0 (0.6 - 1.5)
Cataract eyes	65,746	0.9 (0.5 - 1.3)	77,310	1.1 (0.7 - 1.4)	143,056	1.0 (0.7 - 1.3)
Cataract and Moderate VI (MVI) - VA<6/18 - 6/60 in better eye with best correction or pinhole						
Bilateral cataract	84,867	2.3 (1.4 - 3.2)	101,709	2.8 (2.1 - 3.5)	186,576	2.6 (2.0 - 3.1)
Unilateral cataract	132,167	3.6 (2.3 - 4.8)	187,567	5.2 (3.8 - 6.6)	319,734	4.4 (3.4 - 5.4)
Cataract eyes	301,900	4.1 (3.0 - 5.2)	390,987	5.4 (4.3 - 6.5)	692,887	4.7 (3.9 - 5.6)
Cataract and Early VI (EVI) - VA<6/12 - 6/18 in better eye with best correction or pinhole						
Bilateral cataract	229,915	3.1 (2.1 - 4.2)	231,193	3.2 (2.2 - 4.2)	461,108	3.2 (2.4 - 3.9)
Unilateral cataract	85,785	1.2 (-0.3 - 2.6)	86,901	1.2 (-0.2 - 2.6)	172,686	1.2 (0.2 - 2.1)
Cataract eyes	545,616	7.4 (6.1 - 8.7)	549,285	7.6 (6.3 - 8.8)	1,094,901	7.5 (6.5 - 8.5)

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	17,645	0.5 (0.1 - 0.9)	21,831	0.6 (0.2 - 1.0)	39,476	0.5 (0.2 - 0.8)
Unilateral cataract	165,808	4.5 (2.9 - 6.1)	138,741	3.8 (2.9 - 4.8)	304,549	4.2 (3.2 - 5.1)
Cataract eyes	201,100	2.7 (1.9 - 3.6)	182,402	2.5 (1.9 - 3.2)	383,502	2.6 (2.0 - 3.2)
Cataract and VA<6/60 with best correction or pinhole						
Bilateral cataract	29,702	0.8 (0.4 - 1.2)	43,061	1.2 (0.7 - 1.7)	72,763	1.0 (0.7 - 1.3)
Unilateral cataract	207,444	5.6 (3.7 - 7.5)	173,592	4.8 (3.7 - 5.9)	381,036	5.2 (4.1 - 6.3)
Cataract eyes	266,846	3.6 (2.6 - 4.6)	259,712	3.6 (2.8 - 4.4)	526,558	3.6 (2.9 - 4.3)
Cataract and VA<6/18 with best correction or pinhole						
Bilateral cataract	114,568	3.1 (2.2 - 4.0)	144,769	4.0 (3.0 - 5.0)	259,337	3.5 (2.9 - 4.2)
Unilateral cataract	339,610	9.2 (6.8 - 11.6)	361,159	10.0 (8.0 - 12.0)	700,769	9.6 (7.9 - 11.2)
Cataract eyes	568,745	7.7 (6.0 - 9.3)	650,698	9.0 (7.5 - 10.5)	1,219,443	8.3 (7.1 - 9.6)
Cataract and VA<6/12 with best correction or pinhole						
Bilateral cataract	344,484	9.3 (8.0 - 10.6)	375,961	10.4 (8.9 - 11.8)	720,445	9.8 (8.8 - 10.9)
Unilateral cataract	425,395	11.5 (8.4 - 14.6)	448,061	12.4 (9.6 - 15.2)	873,456	11.9 (9.7 - 14.1)
Cataract eyes	1,114,363	15.1 (12.9 - 17.2)	1,199,985	16.6 (14.5 - 18.7)	2,314,348	15.8 (14.1 - 17.5)

9. Adjusted results for aphakia and pseudophakia

	Males		Females		Total	
	n	% (95% CI)	n	% (95% CI)	n	% (95% CI)
Bilateral (pseudo)aphakia	249,621	6.8 (4.8 - 8.8)	361,523	10.0 (8.0 - 12.0)	611,144	8.4 (6.7 - 10.0)
Unilateral (pseudo)aphakia	289,063	7.8 (6.4 - 9.3)	322,658	8.9 (7.4 - 10.4)	611,721	8.4 (7.3 - 9.4)
Eyes (pseudo)aphakia	788,304	10.7 (8.6 - 12.8)	1,045,705	14.4 (12.4 - 16.5)	1,834,009	12.5 (10.8 - 14.3)

10. Adjusted results for cataract surgical coverage

	Males	Females	Total
Cataract Surgical Coverage (eyes) - percentage			
VA < 3/60	79.7	85.1	82.7
VA < 6/60	74.7	80.1	77.7
VA < 6/18	58.1	61.6	60.1
Cataract Surgical Coverage (persons) - percentage			
VA < 3/60	95.3	95.6	95.5
VA < 6/60	92.9	92.1	92.4
VA < 6/18	79.1	80.7	80.1