

RESULTS OF RAPID ASSESSMENT OF AVOIDABLE BLINDNESS

AGE AND SEX ADJUSTED PREVALENCE AND ESTIMATED NUMBERS

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This report is for the survey area: Dattawadi

Year and month when survey was conducted: 2017- 6 until 2017- 8

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.

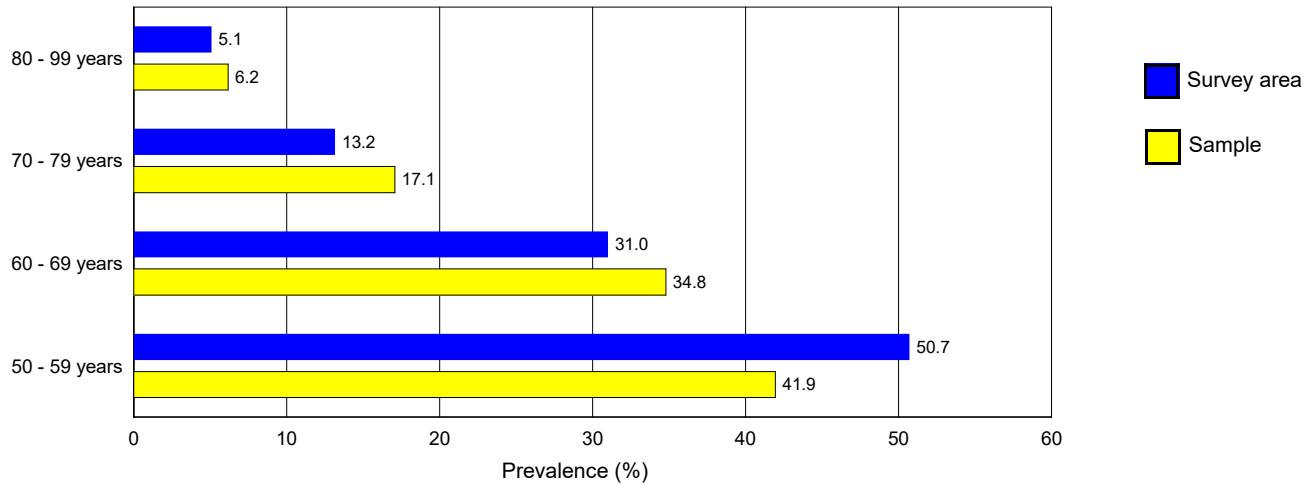
1. Age and sex distribution of people examined in the sample

	Males		Females		Total	
	n	%	n	%	n	%
50 - 59 years	604	41.9%	841	47.2%	1,445	44.9%
60 - 69 years	501	34.8%	603	33.9%	1,104	34.3%
70 - 79 years	246	17.1%	233	13.1%	479	14.9%
80 - 99 years	89	6.2%	104	5.8%	193	6.0%
Total	1,440	100.0%	1,781	100.0%	3,221	100.0%

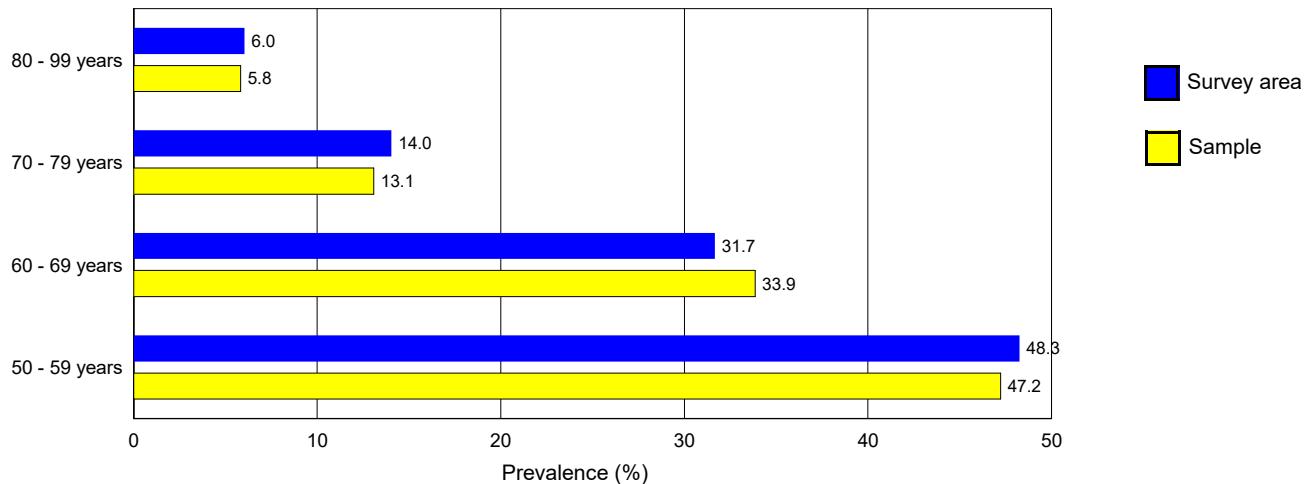
2. Total number of people aged 50+ in survey area

	Males		Females		Total	
	n	%	n	%	n	%
50 - 59 years	228,073	50.7%	210,654	48.3%	438,727	49.5%
60 - 69 years	139,467	31.0%	138,239	31.7%	277,706	31.3%
70 - 79 years	59,248	13.2%	61,284	14.0%	120,532	13.6%
80 - 99 years	22,885	5.1%	26,350	6.0%	49,235	5.6%
Total	449,673	100.0%	436,527	100.0%	886,200	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 (EVI)

	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	5,506	1.2 (0.6 - 1.8)	4,754	1.1 (0.6 - 1.6)	10,260	1.2 (0.8 - 1.5)
All eyes	40,262	4.5 (3.6 - 5.3)	41,420	4.7 (4.0 - 5.5)	81,682	4.6 (4.0 - 5.2)
Blindness - VA < 3/60 in the better eye with available correction (presenting VA)						
All bilateral cases	6,365	1.4 (0.8 - 2.0)	5,487	1.3 (0.7 - 1.8)	11,852	1.3 (0.9 - 1.8)
All eyes	43,828	4.9 (4.0 - 5.8)	46,100	5.3 (4.4 - 6.1)	89,928	5.1 (4.5 - 5.7)
Severe visual impairment (SVI) - VA<6/60 - 3/60 in the better eye with available correction						
All bilateral cases	5,692	1.3 (0.7 - 1.8)	5,668	1.3 (0.8 - 1.8)	11,360	1.3 (0.9 - 1.7)
All eyes	23,231	2.6 (1.9 - 3.2)	22,966	2.6 (2.1 - 3.2)	46,197	2.6 (2.1 - 3.1)
Moderate visual impairment (MVI) - VA<6/18 - 6/60 in the better eye with available correction						
All bilateral cases	47,519	10.6 (8.7 - 12.4)	67,291	15.4 (13.1 - 17.8)	114,810	13.0 (11.2 - 14.7)
All eyes	134,826	15.0 (13.0 - 17.0)	177,053	20.3 (18.1 - 22.5)	311,879	17.6 (15.8 - 19.4)
Early visual impairment (EVI) - VA<6/12 - 6/18 in the better eye with available correction						
All bilateral cases	53,059	11.8 (10.0 - 13.6)	72,760	16.7 (14.5 - 18.8)	125,819	14.2 (12.7 - 15.7)
All eyes	120,807	13.4 (11.9 - 14.9)	150,141	17.2 (15.5 - 18.9)	270,948	15.3 (14.2 - 16.4)

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	6,365	1.4 (0.8 - 2.0)	5,487	1.3 (0.7 - 1.8)	11,852	1.3 (0.9 - 1.8)
All eyes	43,828	4.9 (4.0 - 5.8)	46,100	5.3 (4.4 - 6.1)	89,928	5.1 (4.5 - 5.7)
VA<6/60 in the better eye, with available correction (presenting VA)						
All bilateral cases	12,057	2.7 (1.8 - 3.5)	11,157	2.6 (1.8 - 3.3)	23,214	2.6 (2.0 - 3.2)
All eyes	67,061	7.5 (6.3 - 8.6)	69,066	7.9 (6.8 - 9.0)	136,127	7.7 (6.9 - 8.5)
VA<6/18 in the better eye, with available correction (presenting VA)						
All bilateral cases	59,576	13.2 (11.1 - 15.4)	78,447	18.0 (15.5 - 20.4)	138,023	15.6 (13.7 - 17.4)
All eyes	201,886	22.4 (20.0 - 24.9)	246,118	28.2 (25.6 - 30.8)	448,004	25.3 (23.2 - 27.4)
VA<6/12 in the better eye, with available correction (presenting VA)						
All bilateral cases	112,635	25.0 (22.0 - 28.0)	151,208	34.6 (31.5 - 37.8)	263,843	29.8 (27.2 - 32.4)
All eyes	322,694	35.9 (32.8 - 39.0)	396,259	45.4 (42.5 - 48.3)	718,953	40.6 (38.1 - 43.0)

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	2,396	0.5 (0.2 - 0.9)	1,944	0.4 (0.2 - 0.7)	4,340	0.5 (0.2 - 0.7)
Unilateral cataract	17,844	4.0 (3.0 - 4.9)	19,787	4.5 (3.3 - 5.8)	37,631	4.2 (3.4 - 5.1)
Cataract eyes	22,635	2.5 (1.9 - 3.1)	23,675	2.7 (2.0 - 3.4)	46,310	2.6 (2.1 - 3.1)
Cataract and SVI - VA<6/60 - 3/60 in better eye with best correction or pinhole						
Bilateral cataract	2,670	0.6 (0.3 - 0.8)	3,423	0.8 (0.6 - 1.0)	6,093	0.7 (0.5 - 0.9)
Unilateral cataract	3,443	0.8 (0.2 - 1.3)	4,898	1.1 (0.6 - 1.6)	8,341	0.9 (0.5 - 1.3)
Cataract eyes	7,485	0.8 (0.5 - 1.2)	9,522	1.1 (0.7 - 1.5)	17,007	1.0 (0.7 - 1.2)
Cataract and Moderate VI (MVI) - VA<6/18 - 6/60 in better eye with best correction or pinhole						
Bilateral cataract	22,144	4.9 (3.9 - 6.0)	23,336	5.3 (4.2 - 6.5)	45,480	5.1 (4.3 - 6.0)
Unilateral cataract	35,611	7.9 (6.4 - 9.5)	38,710	8.9 (7.5 - 10.2)	74,321	8.4 (7.3 - 9.4)
Cataract eyes	73,805	8.2 (6.9 - 9.5)	79,453	9.1 (7.7 - 10.5)	153,258	8.6 (7.6 - 9.7)
Cataract and Early VI (EVI) - VA<6/12 - 6/18 in better eye with best correction or pinhole						
Bilateral cataract	28,545	3.2 (2.3 - 4.0)	37,889	4.3 (3.2 - 5.4)	66,434	3.7 (3.0 - 4.5)
Unilateral cataract	36,527	4.1 (2.0 - 6.1)	37,399	4.3 (2.6 - 6.0)	73,926	4.2 (2.8 - 5.5)
Cataract eyes	78,215	8.7 (7.4 - 10.0)	96,010	11.0 (9.6 - 12.4)	174,225	9.8 (8.7 - 11.0)

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	2,396	0.5 (0.2 - 0.9)	1,944	0.4 (0.2 - 0.7)	4,340	0.5 (0.2 - 0.7)
Unilateral cataract	17,844	4.0 (3.0 - 4.9)	19,787	4.5 (3.3 - 5.8)	37,631	4.2 (3.4 - 5.1)
Cataract eyes	22,635	2.5 (1.9 - 3.1)	23,675	2.7 (2.0 - 3.4)	46,310	2.6 (2.1 - 3.1)
Cataract and VA<6/60 with best correction or pinhole						
Bilateral cataract	5,065	1.1 (0.6 - 1.6)	5,367	1.2 (0.9 - 1.6)	10,432	1.2 (0.9 - 1.5)
Unilateral cataract	21,286	4.7 (3.6 - 5.9)	24,686	5.7 (4.2 - 7.1)	45,972	5.2 (4.2 - 6.2)
Cataract eyes	30,120	3.3 (2.6 - 4.1)	33,196	3.8 (2.9 - 4.7)	63,316	3.6 (3.0 - 4.2)
Cataract and VA<6/18 with best correction or pinhole						
Bilateral cataract	27,210	6.1 (4.9 - 7.2)	28,703	6.6 (5.4 - 7.8)	55,913	6.3 (5.3 - 7.3)
Unilateral cataract	56,896	12.7 (10.6 - 14.7)	63,395	14.5 (12.4 - 16.6)	120,291	13.6 (11.9 - 15.2)
Cataract eyes	103,925	11.6 (10.0 - 13.1)	112,650	12.9 (11.2 - 14.6)	216,575	12.2 (10.8 - 13.6)
Cataract and VA<6/12 with best correction or pinhole						
Bilateral cataract	55,754	12.4 (10.9 - 13.9)	66,593	15.3 (13.5 - 17.0)	122,347	13.8 (12.5 - 15.1)
Unilateral cataract	93,424	20.8 (17.4 - 24.2)	100,794	23.1 (20.2 - 25.9)	194,218	21.9 (19.6 - 24.2)
Cataract eyes	182,139	20.3 (18.1 - 22.4)	208,660	23.9 (21.5 - 26.3)	390,799	22.0 (20.1 - 24.0)

9. Adjusted results for aphakia and pseudophakia

	Males		Females		Total	
	n	% (95% CI)	n	% (95% CI)	n	% (95% CI)
Bilateral (pseudo)aphakia						
Bilateral (pseudo)aphakia	44,538	9.9 (7.7 - 12.1)	67,647	15.5 (13.6 - 17.4)	112,185	12.7 (11.1 - 14.3)
Unilateral (pseudo)aphakia	36,276	8.1 (6.6 - 9.5)	43,220	9.9 (8.4 - 11.4)	79,496	9.0 (8.0 - 9.9)
Eyes (pseudo)aphakia	125,350	13.9 (11.5 - 16.4)	178,515	20.4 (18.4 - 22.5)	303,865	17.1 (15.4 - 18.9)

10. Adjusted results for cataract surgical coverage

	Males	Females	Total
Cataract Surgical Coverage (eyes) - percentage			
VA < 3/60	84.7	88.3	86.8
VA < 6/60	80.6	84.3	82.8
VA < 6/18	54.7	61.3	58.4
Cataract Surgical Coverage (persons) - percentage			
VA < 3/60	96.2	97.8	97.1
VA < 6/60	92.4	94.3	93.5
VA < 6/18	73.0	79.0	76.4