



```

name: <unnamed>
log: F:\Dropbox\VIVEK\paper\UVR Ctaract\PLoS Submission\R1\dataR1\UVR-cataract
> -analysis\ 6 Jan 2020_combinedUVR40+_6.smcl
log type: smcl
opened on: 6 Jan 2020, 12:59:44

```

```

1 .
2 . // Table 1: Demographic characteristics of study participants examined for the study
>
3 . // Age
4 . bysort study_location: ci mean age

```

```
-> study_location = Delhi(1)
```

Variable	Obs	Mean	Std. Err.	[95% Conf. Interval]	
age	3,595	55.34604	.2016998	54.95058	55.74149

```
-> study_location = Guwahati(2)
```

Variable	Obs	Mean	Std. Err.	[95% Conf. Interval]	
age	3,231	53.39152	.2024728	52.99453	53.78851

```
-> study_location = Prakasam(3)
```

Variable	Obs	Mean	Std. Err.	[95% Conf. Interval]	
age	2,909	54.56824	.2070982	54.16216	54.97431

```
5 . ci mean age
```

Variable	Obs	Mean	Std. Err.	[95% Conf. Interval]	
age	9,735	54.46492	.1181515	54.23332	54.69652

```
6 . bysort study_location: tabstat age, stat(median min max)
```

```
-> study_location = Delhi(1)
```

variable	p50	min	max
age	53	40	99

```
-> study_location = Guwahati(2)
```

variable	p50	min	max
age	50	40	99

```
-> study_location = Prakasam(3)
```

variable	p50	min	max
age	52	40	99

```
7 . tabstat age, stat(median min max)
```

variable	p50	min	max
age	52	40	99

```
8 . // Gender
```

```
9 . bysort study_location: tab gender
```

```
-> study_location = Delhi(1)
```

gender	Freq.	Percent	Cum.
Male	1,614	44.90	44.90
Female	1,981	55.10	100.00
Total	3,595	100.00	

```
-> study_location = Guwahati(2)
```

gender	Freq.	Percent	Cum.
Male	1,491	46.15	46.15
Female	1,740	53.85	100.00
Total	3,231	100.00	

```
-> study_location = Prakasam(3)
```

gender	Freq.	Percent	Cum.
Male	1,321	45.41	45.41
Female	1,588	54.59	100.00
Total	2,909	100.00	

```
10. tab gender
```

gender	Freq.	Percent	Cum.
Male	4,426	45.46	45.46
Female	5,309	54.54	100.00
Total	9,735	100.00	

```
11. // Education
```

```
12. bysort study_location: tab educat2
```

```
-> study_location = Delhi(1)
```

RECODE of education	Freq.	Percent	Cum.
Illiterate	1,769	49.21	49.21
Can read & write	532	14.80	64.01
Middle School (6-8)	471	13.10	77.11
High School (9-12)	721	20.06	97.16
Graduation	102	2.84	100.00
Total	3,595	100.00	

```
-> study_location = Guwahati(2)
```

RECODE of education	Freq.	Percent	Cum.
Illiterate	1,306	40.42	40.42
Can read & write	779	24.11	64.53
Middle School (6-8)	294	9.10	73.63
High School (9-12)	742	22.97	96.60
Graduation	101	3.13	99.72
99	9	0.28	100.00
Total	3,231	100.00	

-> study_location = Prakasam(3)

RECODE of education	Freq.	Percent	Cum.
Illiterate	1,925	66.17	66.17
Can read & write	487	16.74	82.92
Middle School (6-8)	169	5.81	88.72
High School (9-12)	262	9.01	97.73
Graduation	65	2.23	99.97
Others	1	0.03	100.00
Total	2,909	100.00	

13. tab educat2

RECODE of education	Freq.	Percent	Cum.
Illiterate	5,000	51.36	51.36
Can read & write	1,798	18.47	69.83
Middle School (6-8)	934	9.59	79.42
High School (9-12)	1,725	17.72	97.14
Graduation	268	2.75	99.90
Others	1	0.01	99.91
99	9	0.09	100.00
Total	9,735	100.00	

14. // Occupation (Present)

15. bysort study_location: tab workTypePrCat

-> study_location = Delhi(1)

workTypePrCat	Freq.	Percent	Cum.
Indoor work	569	15.85	15.85
Outdoor work	3,021	84.15	100.00
Total	3,590	100.00	

-> study_location = Guwahati(2)

workTypePrCat	Freq.	Percent	Cum.
Indoor work	102	3.16	3.16
Outdoor work	3,121	96.84	100.00
Total	3,223	100.00	

-> study_location = Prakasam(3)

workTypePrCat	Freq.	Percent	Cum.
Indoor work	1,062	36.51	36.51
Outdoor work	1,847	63.49	100.00
Total	2,909	100.00	

16. tab workTypePrCat

workTypePrCat	Freq.	Percent	Cum.
Indoor work	1,733	17.83	17.83
Outdoor work	7,989	82.17	100.00
Total	9,722	100.00	

17. // Lifetime cumulative effective sun exposure

18. bysort study_location: tabstat tExposure, stat(p50 min max)

-> study_location = Delhi(1)

variable	p50	min	max
tExposure	114140.6	7305	314104

-> study_location = Guwahati(2)

variable	p50	min	max
tExposure	72759.63	7305	223763.1

-> study_location = Prakasam(3)

variable	p50	min	max
tExposure	109889.1	7305	252183.2

19. tabstat tExposure, stat(p50 min max)

variable	p50	min	max
tExposure	96062.57	7305	314104

20.

21. // Diabetes

22. bysort study_location: tab sugar200

-> study_location = Delhi(1)

sugar200	Freq.	Percent	Cum.
0	3,366	94.23	94.23
1	206	5.77	100.00
Total	3,572	100.00	

-> study_location = Guwahati(2)

sugar200	Freq.	Percent	Cum.
0	2,995	94.75	94.75
1	166	5.25	100.00
Total	3,161	100.00	

```
-> study_location = Prakasam(3)
```

sugar200	Freq.	Percent	Cum.
0	2,381	83.81	83.81
1	460	16.19	100.00
Total	2,841	100.00	

```
23. tab sugar200 study_location, col chi
```

Key
<i>frequency</i> <i>column percentage</i>

sugar200	study_location			Total
	Delhi(1)	Guwahati(	Prakasam(
0	3,366 94.23	2,995 94.75	2,381 83.81	8,742 91.31
1	206 5.77	166 5.25	460 16.19	832 8.69
Total	3,572 100.00	3,161 100.00	2,841 100.00	9,574 100.00

Pearson chi2(2) = **287.0320** Pr = **0.000**

```
24.
```

```
25. // Vision Status
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```
26. bysort study_location: tab pvaBe
```

```
-> study_location = Delhi(1)
```

pvaBe	Freq.	Percent	Cum.
1	2,480	69.04	69.04
2	308	8.57	77.62
3	695	19.35	96.97
4	32	0.89	97.86
5	77	2.14	100.00
Total	3,592	100.00	

```
-> study_location = Guwahati(2)
```

pvaBe	Freq.	Percent	Cum.
1	2,278	70.75	70.75
2	188	5.84	76.58
3	470	14.60	91.18
4	51	1.58	92.76
5	233	7.24	100.00
Total	3,220	100.00	

```
-> study_location = Prakasam(3)
```

pvaBe	Freq.	Percent	Cum.
1	2,002	69.90	69.90
2	258	9.01	78.91
3	544	18.99	97.91
4	29	1.01	98.92
5	31	1.08	100.00
Total	2,864	100.00	

```
27. tab pvaBe study_location, col chi
```

Key
<i>frequency</i> <i>column percentage</i>

pvaBe	study_location			Total
	Delhi(1)	Guwahati(	Prakasam(
1	2,480 69.04	2,278 70.75	2,002 69.90	6,760 69.86
2	308 8.57	188 5.84	258 9.01	754 7.79
3	695 19.35	470 14.60	544 18.99	1,709 17.66
4	32 0.89	51 1.58	29 1.01	112 1.16
5	77 2.14	233 7.24	31 1.08	341 3.52
Total	3,592 100.00	3,220 100.00	2,864 100.00	9,676 100.00

Pearson chi2(8) = 252.0816 Pr = 0.000

```
28.
```

```
29.
```

```
30. // Table 2: Demographic details classified gender wise
```

```
31. for var anyCataract cort_prev nuc_prev psc_prev: tab X study_location, col nokey
```

```
-> tab anyCataract study_location, col nokey
```

anyCataract	study_location			Total
	Delhi(1)	Guwahati(	Prakasam(
0	2,443 68.11	2,368 73.45	1,674 57.62	6,485 66.75
1	1,144 31.89	856 26.55	1,231 42.38	3,231 33.25
Total	3,587 100.00	3,224 100.00	2,905 100.00	9,716 100.00

```
-> tab cort_prev study_location, col nokey
```

cort_prev	study_location			Total
	Delhi(1)	Guwahati(	Prakasam(
NormOrNotcort	2,819 88.93	2,842 92.12	2,571 99.23	8,232 93.06
cort	351 11.07	243 7.88	20 0.77	614 6.94
Total	3,170 100.00	3,085 100.00	2,591 100.00	8,846 100.00

-> tab nuc_prev study_location, col nokey

nuc_prev	study_location			Total
	Delhi(1)	Guwahati(	Prakasam(
NormOrNotnuc	2,572 81.14	2,465 79.90	1,877 72.44	6,914 78.16
nuc	598 18.86	620 20.10	714 27.56	1,932 21.84
Total	3,170 100.00	3,085 100.00	2,591 100.00	8,846 100.00

-> tab psc_prev study_location, col nokey

psc_prev	study_location			Total
	Delhi(1)	Guwahati(	Prakasam(
NormOrNotpsc	2,846 89.78	3,031 98.25	2,558 98.73	8,435 95.35
psc	324 10.22	54 1.75	33 1.27	411 4.65
Total	3,170 100.00	3,085 100.00	2,591 100.00	8,846 100.00

32.

33.

34. // Table 3: Prevalence of cataract in the presence of various risk factors

35. for var study_location agecat gender workTypePrCat ///

```
> educat2 smoke20 indoor16 kitchen tExposureQuantilesAll sugar200 pvaBe bvaBe:
> tab X anyCataract, row nokey chi
```

-> tab study_location anyCataract, row nokey chi

study_location	anyCataract		Total
	0	1	
Delhi(1)	2,443 68.11	1,144 31.89	3,587 100.00
Guwahati(2)	2,368 73.45	856 26.55	3,224 100.00
Prakasam(3)	1,674 57.62	1,231 42.38	2,905 100.00
Total	6,485 66.75	3,231 33.25	9,716 100.00

Pearson chi2(2) = 177.1463 Pr = 0.000

-> tab agecat anyCataract, row nokey chi

RECODE of age	anyCataract		Total
	0	1	
40-49 years	3,738 93.54	258 6.46	3,996 100.00
50-59 years	1,826 75.05	607 24.95	2,433 100.00
60-69 years	791 40.01	1,186 59.99	1,977 100.00
70+ years	130 9.92	1,180 90.08	1,310 100.00
Total	6,485 66.75	3,231 33.25	9,716 100.00

Pearson chi2(3) = 3.9e+03 Pr = 0.000

-> tab gender anyCataract, row nokey chi

gender	anyCataract		Total
	0	1	
Male	2,990 67.71	1,426 32.29	4,416 100.00
Female	3,495 65.94	1,805 34.06	5,300 100.00
Total	6,485 66.75	3,231 33.25	9,716 100.00

Pearson chi2(1) = 3.3807 Pr = 0.066

-> tab workTypePrCat anyCataract, row nokey chi

workTypePrCat	anyCataract		Total
	0	1	
Indoor work	644 37.29	1,083 62.71	1,727 100.00
Outdoor work	5,833 73.13	2,143 26.87	7,976 100.00
Total	6,477 66.75	3,226 33.25	9,703 100.00

Pearson chi2(1) = 821.7218 Pr = 0.000

-> tab educat2 anyCataract, row nokey chi

RECODE of education	anyCataract		Total
	0	1	
Illiterate	2,815 56.49	2,168 43.51	4,983 100.00
Can read & write	1,288 71.64	510 28.36	1,798 100.00
Middle School (6-8)	727 77.84	207 22.16	934 100.00
High School (9-12)	1,411 81.89	312 18.11	1,723 100.00
Graduation	235 87.69	33 12.31	268 100.00

Others	1 100.00	0 0.00	1 100.00
99	8 88.89	1 11.11	9 100.00
Total	6,485 66.75	3,231 33.25	9,716 100.00

Pearson chi2(6) = 540.6879 Pr = 0.000

-> tab smoke20 anyCataract, row nokey chi

smoke20	anyCataract		Total
	0	1	
0	4,280 69.76	1,855 30.24	6,135 100.00
Yes	2,203 61.62	1,372 38.38	3,575 100.00
Total	6,483 66.77	3,227 33.23	9,710 100.00

Pearson chi2(1) = 67.4714 Pr = 0.000

-> tab indoor16_kitchen anyCataract, row nokey chi

indoor16_k itchen	anyCataract		Total
	0	1	
0	1,817 65.06	976 34.94	2,793 100.00
Yes	4,668 67.43	2,255 32.57	6,923 100.00
Total	6,485 66.75	3,231 33.25	9,716 100.00

Pearson chi2(1) = 5.0444 Pr = 0.025

-> tab tExposureQuantilesAll anyCataract, row nokey chi

5 quantiles of tExposure	anyCataract		Total
	0	1	
1	1,621 83.34	324 16.66	1,945 100.00
2	1,573 80.96	370 19.04	1,943 100.00
3	1,413 72.72	530 27.28	1,943 100.00
4	1,225 63.08	717 36.92	1,942 100.00
5	651 33.59	1,287 66.41	1,938 100.00
Total	6,483 66.76	3,228 33.24	9,711 100.00

Pearson chi2(4) = 1.4e+03 Pr = 0.000

-> tab sugar200 anyCataract, row nokey chi

sugar200	anyCataract		Total
	0	1	
0	5,885 67.43	2,842 32.57	8,727 100.00
1	491 59.01	341 40.99	832 100.00
Total	6,376 66.70	3,183 33.30	9,559 100.00

Pearson $\chi^2(1) = 24.2459$ Pr = 0.000

-> **tab pvaBe anyCataract, row nokey chi**

pvaBe	anyCataract		Total
	0	1	
1	5,628 83.28	1,130 16.72	6,758 100.00
2	361 47.88	393 52.12	754 100.00
3	464 27.23	1,240 72.77	1,704 100.00
4	5 4.46	107 95.54	112 100.00
5	12 3.61	320 96.39	332 100.00
Total	6,470 66.98	3,190 33.02	9,660 100.00

Pearson $\chi^2(4) = 3.0e+03$ Pr = 0.000

-> **tab bvaBe anyCataract, row nokey chi**

bvaBe	anyCataract		Total
	0	1	
1	6,380 75.23	2,101 24.77	8,481 100.00
2	41 13.90	254 86.10	295 100.00
3	40 7.38	502 92.62	542 100.00
4	2 2.78	70 97.22	72 100.00
5	7 2.59	263 97.41	270 100.00
Total	6,470 66.98	3,190 33.02	9,660 100.00

Pearson $\chi^2(4) = 2.1e+03$ Pr = 0.000

36.
 37.
 38. ***** CLINICAL ANY CATARACT
 39. tab anyCataract

anyCataract	Freq.	Percent	Cum.
0	6,485	66.75	66.75
1	3,231	33.25	100.00
Total	9,716	100.00	

40. tab anyCataract study_location, col nokey chi

anyCataract	study_location			Total
	Delhi(1)	Guwahati(	Prakasam(
0	2,443 68.11	2,368 73.45	1,674 57.62	6,485 66.75
1	1,144 31.89	856 26.55	1,231 42.38	3,231 33.25
Total	3,587 100.00	3,224 100.00	2,905 100.00	9,716 100.00

Pearson chi2(2) = **177.1463** Pr = **0.000**

41. tab1 beOp oneEyeOp

-> tabulation of beOp

beOp	Freq.	Percent	Cum.
0	9,122	93.89	93.89
1	594	6.11	100.00
Total	9,716	100.00	

-> tabulation of oneEyeOp

oneEyeOp	Freq.	Percent	Cum.
0	9,087	93.53	93.53
1	629	6.47	100.00
Total	9,716	100.00	

42. tab1 beOp oneEyeOp

-> tabulation of beOp

beOp	Freq.	Percent	Cum.
0	9,122	93.89	93.89
1	594	6.11	100.00
Total	9,716	100.00	

-> tabulation of oneEyeOp

oneEyeOp	Freq.	Percent	Cum.
0	9,087	93.53	93.53
1	629	6.47	100.00
Total	9,716	100.00	

43.
 44. ***** LOCS Assessment in eyes
 45. tab excludeLocs

excludeLocs	Freq.	Percent	Cum.
0	8,846	91.05	91.05
1	870	8.95	100.00
Total	9,716	100.00	

46. tab2 locsRe_cort locsLe_cort if anyCataract!=., mis

-> tabulation of locsRe_cort by locsLe_cort if anyCataract!=.

locsRe_cort	0	Cort	locsLe_cort 3.Adv	7.Tr.	8.Op	9.Mis	To
> tal							
0	7,791	39	24	1	142	31	8,
> 028							
Cort	56	367	6	0	65	5	
> 499							
3.Adv	26	12	43	0	46	6	
> 133							
7.Tr.	3	0	1	0	2	0	
> 6							
8.Op	178	63	63	4	594	33	
> 935							
9.Mis	36	1	3	0	33	42	
> 115							
Total	8,090	482	140	5	882	117	9,
> 716							

47. *** Type fo cataract

48. tab1 cort_locs_re cort_locs_le nuc_locs_re nuc_locs_le psc_locs_re psc_locs_le if
 > anyCataract!=.

-> tabulation of cort_locs_re if anyCataract!=.

cort_locs_re	Freq.	Percent	Cum.
0	8,028	94.15	94.15
Cort	499	5.85	100.00
Total	8,527	100.00	

-> tabulation of cort_locs_le if anyCataract!=.

cort_locs_le	Freq.	Percent	Cum.
0	8,090	94.38	94.38
Cort	482	5.62	100.00
Total	8,572	100.00	

-> tabulation of nuc_locs_re if anyCataract!=.

nuc_locs_re	Freq.	Percent	Cum.
0	6,893	80.84	80.84
Nuc	1,634	19.16	100.00
Total	8,527	100.00	

-> tabulation of nuc_locs_le if anyCataract!=.

nuc_locs_le	Freq.	Percent	Cum.
0	6,915	80.67	80.67
Nuc	1,657	19.33	100.00
Total	8,572	100.00	

-> tabulation of psc_locs_re if anyCataract!=.

psc_locs_re	Freq.	Percent	Cum.
0	8,231	96.53	96.53
Psc	296	3.47	100.00
Total	8,527	100.00	

-> tabulation of psc_locs_le if anyCataract!=.

psc_locs_le	Freq.	Percent	Cum.
0	8,287	96.68	96.68
Psc	285	3.32	100.00
Total	8,572	100.00	

49. tab2 study_location cort_locs_re cort_locs_le nuc_locs_re nuc_locs_le psc_locs_re
> psc_locs_le if anyCataract!=., firstonly row nokey chi

-> tabulation of study_location by cort_locs_re if anyCataract!=.

study_location	cort_locs_re 0	Cort	Total
Delhi(1)	2,761	285	3,046
	90.64	9.36	100.00
Guwahati(2)	2,806	202	3,008
	93.28	6.72	100.00
Prakasam(3)	2,461	12	2,473
	99.51	0.49	100.00
Total	8,028	499	8,527
	94.15	5.85	100.00

Pearson chi2(2) = 201.2515 Pr = 0.000

-> tabulation of study_location by cort_locs_le if anyCataract!=.

study_location	cort_locs_le 0	Cort	Total
Delhi(1)	2,784	261	3,045
	91.43	8.57	100.00
Guwahati(2)	2,824	203	3,027
	93.29	6.71	100.00
Prakasam(3)	2,482	18	2,500
	99.28	0.72	100.00
Total	8,090	482	8,572
	94.38	5.62	100.00

Pearson chi2(2) = 169.8238 Pr = 0.000

-> tabulation of study_location by nuc_locs_re if anyCataract!=.

study_location	nuc_locs_re 0	Nuc	Total
Delhi (1)	2,549 83.68	497 16.32	3,046 100.00
Guwahati (2)	2,463 81.88	545 18.12	3,008 100.00
Prakasam (3)	1,881 76.06	592 23.94	2,473 100.00
Total	6,893 80.84	1,634 19.16	8,527 100.00

Pearson $\chi^2(2) = 54.4601$ Pr = 0.000

-> tabulation of study_location by nuc_locs_le if anyCataract!=.

study_location	nuc_locs_le 0	Nuc	Total
Delhi (1)	2,560 84.07	485 15.93	3,045 100.00
Guwahati (2)	2,473 81.70	554 18.30	3,027 100.00
Prakasam (3)	1,882 75.28	618 24.72	2,500 100.00
Total	6,915 80.67	1,657 19.33	8,572 100.00

Pearson $\chi^2(2) = 71.2313$ Pr = 0.000

-> tabulation of study_location by psc_locs_re if anyCataract!=.

study_location	psc_locs_re 0	Psc	Total
Delhi (1)	2,811 92.28	235 7.72	3,046 100.00
Guwahati (2)	2,967 98.64	41 1.36	3,008 100.00
Prakasam (3)	2,453 99.19	20 0.81	2,473 100.00
Total	8,231 96.53	296 3.47	8,527 100.00

Pearson $\chi^2(2) = 255.9309$ Pr = 0.000

-> tabulation of study_location by psc_locs_le if anyCataract!=.

study_location	psc_locs_le 0	Psc	Total
Delhi (1)	2,826 92.81	219 7.19	3,045 100.00
Guwahati (2)	2,981 98.48	46 1.52	3,027 100.00
Prakasam (3)	2,480 99.20	20 0.80	2,500 100.00
Total	8,287 96.68	285 3.32	8,572 100.00

Pearson chi2(2) = 221.9551 Pr = 0.000

```
50. tab2 sugar200 cort_locs_re cort_locs_le nuc_locs_re nuc_locs_le psc_locs_
> re psc_locs_le if anyCataract!=., firstonly row nokey chi
```

-> tabulation of sugar200 by cort_locs_re if anyCataract!=.

sugar200	cort_locs_re 0 Cort		Total
0	7,226 93.91	469 6.09	7,695 100.00
1	671 96.27	26 3.73	697 100.00
Total	7,897 94.10	495 5.90	8,392 100.00

Pearson chi2(1) = 6.4380 Pr = 0.011

-> tabulation of sugar200 by cort_locs_le if anyCataract!=.

sugar200	cort_locs_le 0 Cort		Total
0	7,285 94.24	445 5.76	7,730 100.00
1	671 95.72	30 4.28	701 100.00
Total	7,956 94.37	475 5.63	8,431 100.00

Pearson chi2(1) = 2.6379 Pr = 0.104

-> tabulation of sugar200 by nuc_locs_re if anyCataract!=.

sugar200	nuc_locs_re 0 Nuc		Total
0	6,241 81.10	1,454 18.90	7,695 100.00
1	541 77.62	156 22.38	697 100.00
Total	6,782 80.82	1,610 19.18	8,392 100.00

Pearson chi2(1) = 5.0100 Pr = 0.025

-> tabulation of sugar200 by nuc_locs_le if anyCataract!=.

sugar200	nuc_locs_le 0 Nuc		Total
0	6,266 81.06	1,464 18.94	7,730 100.00
1	536 76.46	165 23.54	701 100.00
Total	6,802 80.68	1,629 19.32	8,431 100.00

Pearson chi2(1) = 8.7191 Pr = 0.003

-> tabulation of sugar200 by psc_locs_re if anyCataract!=.

sugar200	psc_locs_re 0	Psc	Total
0	7,420 96.43	275 3.57	7,695 100.00
1	676 96.99	21 3.01	697 100.00
Total	8,096 96.47	296 3.53	8,392 100.00

Pearson chi2(1) = **0.5908** Pr = **0.442**

-> tabulation of sugar200 by psc_locs_le if anyCataract!=.

sugar200	psc_locs_le 0	Psc	Total
0	7,465 96.57	265 3.43	7,730 100.00
1	684 97.57	17 2.43	701 100.00
Total	8,149 96.66	282 3.34	8,431 100.00

Pearson chi2(1) = **2.0004** Pr = **0.157**

```

51.
52.
53. *** Pattern in eyes
54. use "LOCSeYEPattern.dta", clear

55. merge m:1 unique_id using "UVR-cataract-analysis.dta", keepusing(sugar200)
    (label locationlb already defined)
    (label workType1b already defined)
    (label educat2 already defined)
    (label ynlb2 already defined)
    (label gender1b already defined)
    (label agecat1b already defined)
    (label cort already defined)
    (label nuc already defined)
    (label psc already defined)

```

Result	# of obs.	
not matched	889	
from master	0	(_merge==1)
from using	889	(_merge==2)
matched	17,692	(_merge==3)

```

56. keep if _merge==3
    (889 observations deleted)

```

```

57. drop _merge

```


58.

59. tab pattern

group(cort_1 ocs nuc_locs psc_locs)	Freq.	Percent	Cum.
0 0 0	13,624	79.68	79.68
0 0 Psc	101	0.59	80.27
0 Nuc 0	2,226	13.02	93.29
0 Nuc Psc	167	0.98	94.26
Cort 0 0	71	0.42	94.68
Cort 0 Psc	12	0.07	94.75
Cort Nuc 0	597	3.49	98.24
Cort Nuc Psc	301	1.76	100.00
Total	17,099	100.00	

60. tab2 pattern study_location , col nokey chi

-> tabulation of pattern by study_location

group(cort_1 ocs nuc_locs psc_locs)	study_location			Total
	Delhi(1)	Guwahati(	Prakasam(
0 0 0	5,044 82.81	4,884 80.93	3,696 74.32	13,624 79.68
0 0 Psc	33 0.54	29 0.48	39 0.78	101 0.59
0 Nuc 0	335 5.50	683 11.32	1,208 24.29	2,226 13.02
0 Nuc Psc	133 2.18	34 0.56	0 0.00	167 0.98
Cort 0 0	21 0.34	23 0.38	27 0.54	71 0.42
Cort 0 Psc	11 0.18	0 0.00	1 0.02	12 0.07
Cort Nuc 0	237 3.89	358 5.93	2 0.04	597 3.49
Cort Nuc Psc	277 4.55	24 0.40	0 0.00	301 1.76
Total	6,091 100.00	6,035 100.00	4,973 100.00	17,099 100.00

Pearson chi2(14) = 1.7e+03 Pr = 0.000

61. tab2 cort_locs eye

-> tabulation of cort_locs by eye

cort_locs	eye		Total
	1	2	
0	8,028	8,090	16,118
Cort	499	482	981
Total	8,527	8,572	17,099

62. tab2 nuc_locs eye

-> tabulation of nuc_locs by eye

nuc_locs	eye		Total
	1	2	
0	6,893	6,915	13,808
Nuc	1,634	1,657	3,291
Total	8,527	8,572	17,099

63. tab2 psc_locs eye

-> tabulation of psc_locs by eye

psc_locs	eye		Total
	1	2	
0	8,231	8,287	16,518
Psc	296	285	581
Total	8,527	8,572	17,099

64.

65. tab2 cortAny eye, col

-> tabulation of cortAny by eye

Key
<i>frequency</i>
<i>column percentage</i>

cortAny	eye		Total
	1	2	
0	8,028 94.15	8,090 94.38	16,118 94.26
1	499 5.85	482 5.62	981 5.74
Total	8,527 100.00	8,572 100.00	17,099 100.00

66. tab2 nucAny eye, col

-> tabulation of nucAny by eye

Key
<i>frequency</i>
<i>column percentage</i>

nucAny	eye		Total
	1	2	
0	6,893 80.84	6,915 80.67	13,808 80.75
1	1,634 19.16	1,657 19.33	3,291 19.25
Total	8,527 100.00	8,572 100.00	17,099 100.00

67. tab2 pscAny eye, col

-> tabulation of pscAny by eye

Key
<i>frequency</i>
<i>column percentage</i>

pscAny	eye		Total
	1	2	
0	8,231 96.53	8,287 96.68	16,518 96.60
1	296 3.47	285 3.32	581 3.40
Total	8,527 100.00	8,572 100.00	17,099 100.00

68. tab2 cortAny study_location, col

-> tabulation of cortAny by study_location

Key
<i>frequency</i>
<i>column percentage</i>

cortAny	study_location			Total
	Delhi(1)	Guwahati(	Prakasam(
0	5,545 91.04	5,630 93.29	4,943 99.40	16,118 94.26
1	546 8.96	405 6.71	30 0.60	981 5.74
Total	6,091 100.00	6,035 100.00	4,973 100.00	17,099 100.00

69. tab2 nucAny study_location, col

-> tabulation of nucAny by study_location

Key
<i>frequency</i>
<i>column percentage</i>

nucAny	study_location			Total
	Delhi(1)	Guwahati(	Prakasam(
0	5,109 83.88	4,936 81.79	3,763 75.67	13,808 80.75
1	982 16.12	1,099 18.21	1,210 24.33	3,291 19.25
Total	6,091 100.00	6,035 100.00	4,973 100.00	17,099 100.00

70. tab2 pscAny study_location, col

-> tabulation of pscAny by study_location

Key
<i>frequency</i> <i>column percentage</i>

pscAny	study_location			Total
	Delhi(1)	Guwahati(	Prakasam(
0	5,637 92.55	5,948 98.56	4,933 99.20	16,518 96.60
1	454 7.45	87 1.44	40 0.80	581 3.40
Total	6,091 100.00	6,035 100.00	4,973 100.00	17,099 100.00

71.

72. * Diabetes and type of opcacity

73. tab2 cortAny sugar200, col chi

-> tabulation of cortAny by sugar200

Key
<i>frequency</i> <i>column percentage</i>

cortAny	sugar200		Total
	0	1	
0	14,511 94.07	1,342 95.99	15,853 94.23
1	914 5.93	56 4.01	970 5.77
Total	15,425 100.00	1,398 100.00	16,823 100.00

Pearson chi2(1) = 8.6942 Pr = 0.003

74. tab2 nucAny sugar200, col chi

-> tabulation of nucAny by sugar200

Key
<i>frequency</i> <i>column percentage</i>

nucAny	sugar200		Total
	0	1	
0	12,507 81.08	1,077 77.04	13,584 80.75
1	2,918 18.92	321 22.96	3,239 19.25
Total	15,425 100.00	1,398 100.00	16,823 100.00

Pearson $\chi^2(1) = 13.4842$ Pr = 0.000

75. tab2 pscAny sugar200, col chi

-> tabulation of pscAny by sugar200

Key
<i>frequency</i>
<i>column percentage</i>

pscAny	sugar200		Total
	0	1	
0	14,885 96.50	1,360 97.28	16,245 96.56
1	540 3.50	38 2.72	578 3.44
Total	15,425 100.00	1,398 100.00	16,823 100.00

Pearson $\chi^2(1) = 2.3665$ Pr = 0.124

76.

77.

78. * Gender wise

79. bysort gender: tab2 pattern study_location if pattern !=. & pattern !=1, mis nokey
> chi

-> gender = Male

-> tabulation of pattern by study_location if pattern !=. & pattern !=1

group(cort_1 ocs nuc locs psc_locs)	study_location			Total
	Delhi(1)	Guwahati(	Prakasam(
0 0 Psc	18	10	16	44
0 Nuc 0	157	325	564	1,046
0 Nuc Psc	61	14	0	75
Cort 0 0	8	11	17	36
Cort 0 Psc	5	0	0	5
Cort Nuc 0	105	149	2	256
Cort Nuc Psc	131	10	0	141
Total	485	519	599	1,603

Pearson $\chi^2(12) = 688.5459$ Pr = 0.000

-> gender = Female

-> tabulation of pattern by study_location if pattern !=. & pattern !=1

group(cort_1 ocs nuc locs psc_locs)	study_location			Total
	Delhi(1)	Guwahati(	Prakasam(
0 0 Psc	15	19	23	57
0 Nuc 0	178	358	644	1,180
0 Nuc Psc	72	20	0	92
Cort 0 0	13	12	10	35
Cort 0 Psc	6	0	1	7
Cort Nuc 0	132	209	0	341
Cort Nuc Psc	146	14	0	160
Total	562	632	678	1,872

Pearson chi2(12) = 818.3996 Pr = 0.000

80. bysort gender: tab2 pattern study_location if pattern !=. & pattern !=1, mis col nok
> ey nofreq chi

-> gender = Male

-> tabulation of pattern by study_location if pattern !=. & pattern !=1

group(cort_1 ocs nuc locs psc_locs)	study_location			Total
	Delhi(1)	Guwahati(	Prakasam(
0 0 Psc	3.71	1.93	2.67	2.74
0 Nuc 0	32.37	62.62	94.16	65.25
0 Nuc Psc	12.58	2.70	0.00	4.68
Cort 0 0	1.65	2.12	2.84	2.25
Cort 0 Psc	1.03	0.00	0.00	0.31
Cort Nuc 0	21.65	28.71	0.33	15.97
Cort Nuc Psc	27.01	1.93	0.00	8.80
Total	100.00	100.00	100.00	100.00

Pearson chi2(12) = 688.5459 Pr = 0.000

-> gender = Female

-> tabulation of pattern by study_location if pattern !=. & pattern !=1

group(cort_1 ocs nuc locs psc_locs)	study_location			Total
	Delhi(1)	Guwahati(	Prakasam(
0 0 Psc	2.67	3.01	3.39	3.04
0 Nuc 0	31.67	56.65	94.99	63.03
0 Nuc Psc	12.81	3.16	0.00	4.91
Cort 0 0	2.31	1.90	1.47	1.87
Cort 0 Psc	1.07	0.00	0.15	0.37
Cort Nuc 0	23.49	33.07	0.00	18.22
Cort Nuc Psc	25.98	2.22	0.00	8.55
Total	100.00	100.00	100.00	100.00

Pearson chi2(12) = 818.3996 Pr = 0.000

81. tab2 pattern gender if pattern !=. & pattern !=1, mis col nokey chi

-> tabulation of pattern by gender if pattern !=. & pattern !=1

group(cort_1 ocs nuc locs psc_locs)	gender		
	Male	Female	Total
0 0 Psc	44 2.74	57 3.04	101 2.91
0 Nuc 0	1,046 65.25	1,180 63.03	2,226 64.06
0 Nuc Psc	75 4.68	92 4.91	167 4.81
Cort 0 0	36 2.25	35 1.87	71 2.04
Cort 0 Psc	5 0.31	7 0.37	12 0.35
Cort Nuc 0	256 15.97	341 18.22	597 17.18
Cort Nuc Psc	141 8.80	160 8.55	301 8.66
Total	1,603 100.00	1,872 100.00	3,475 100.00

Pearson chi2(6) = **4.3218** Pr = **0.633**

82. bysort study_location: tab2 pattern gender if pattern !=. & pattern !=1, col nokey
> chi

-> study_location = Delhi(1)

-> tabulation of pattern by gender if pattern !=. & pattern !=1

group(cort_1 ocs nuc locs psc_locs)	gender		
	Male	Female	Total
0 0 Psc	18 3.71	15 2.67	33 3.15
0 Nuc 0	157 32.37	178 31.67	335 32.00
0 Nuc Psc	61 12.58	72 12.81	133 12.70
Cort 0 0	8 1.65	13 2.31	21 2.01
Cort 0 Psc	5 1.03	6 1.07	11 1.05
Cort Nuc 0	105 21.65	132 23.49	237 22.64
Cort Nuc Psc	131 27.01	146 25.98	277 26.46
Total	485 100.00	562 100.00	1,047 100.00

Pearson chi2(6) = **2.0166** Pr = **0.918**

```
-> study_location = Guwahati(2)
```

```
-> tabulation of pattern by gender if pattern !=. & pattern !=1
```

group(cort_1 ocs nuc_locs psc_locs)	gender		
	Male	Female	Total
0 0 Psc	10 1.93	19 3.01	29 2.52
0 Nuc 0	325 62.62	358 56.65	683 59.34
0 Nuc Psc	14 2.70	20 3.16	34 2.95
Cort 0 0	11 2.12	12 1.90	23 2.00
Cort Nuc 0	149 28.71	209 33.07	358 31.10
Cort Nuc Psc	10 1.93	14 2.22	24 2.09
Total	519 100.00	632 100.00	1,151 100.00
Pearson chi2(5) = 5.1684 Pr = 0.396			

```
-> study_location = Prakasam(3)
```

```
-> tabulation of pattern by gender if pattern !=. & pattern !=1
```

group(cort_1 ocs nuc_locs psc_locs)	gender		
	Male	Female	Total
0 0 Psc	16 2.67	23 3.39	39 3.05
0 Nuc 0	564 94.16	644 94.99	1,208 94.60
Cort 0 0	17 2.84	10 1.47	27 2.11
Cort 0 Psc	0 0.00	1 0.15	1 0.08
Cort Nuc 0	2 0.33	0 0.00	2 0.16
Total	599 100.00	678 100.00	1,277 100.00
Pearson chi2(4) = 6.5069 Pr = 0.164			

83.

84.

85. tab2 pattern sugar200 if pattern !=. & pattern !=1, col nokey chi

-> tabulation of pattern by sugar200 if pattern !=. & pattern !=1

group(cort_1 ocs nuc locs psc_locs)	sugar200		Total
	0	1	
0 0 Psc	89 2.89	12 3.53	101 2.95
0 Nuc 0	1,926 62.47	261 76.76	2,187 63.89
0 Nuc Psc	154 5.00	11 3.24	165 4.82
Cort 0 0	64 2.08	7 2.06	71 2.07
Cort 0 Psc	12 0.39	0 0.00	12 0.35
Cort Nuc 0	553 17.94	34 10.00	587 17.15
Cort Nuc Psc	285 9.24	15 4.41	300 8.76
Total	3,083 100.00	340 100.00	3,423 100.00

Pearson chi2(6) = 32.9207 Pr = 0.000

86. logistic sugar200 i.pattern

note: 6.pattern != 0 predicts failure perfectly

6.pattern dropped and 12 obs not used

Logistic regression

Number of obs = 16,811

LR chi2(6) = 49.39

Prob > chi2 = 0.0000

Pseudo R2 = 0.0051

Log likelihood = -4790.3067

sugar200	Odds Ratio	Std. Err.	z	P>|z|	[95% Conf. Interval]	
pattern						
0 0 Psc	1.572864	.4863062	1.46	0.143	.8580492	2.883169
0 Nuc 0	1.580826	.1159171	6.25	0.000	1.369204	1.825156
0 Nuc Psc	.8332433	.2614165	-0.58	0.561	.4505275	1.54107
Cort 0 0	1.275904	.5095768	0.61	0.542	.5832582	2.791098
Cort 0 Psc	1 (empty)					
Cort Nuc 0	.7172221	.1287934	-1.85	0.064	.5044304	1.019779
Cort Nuc Psc	.6139688	.1638292	-1.83	0.068	.3639274	1.035805
_cons	.0857235	.0027461	-76.69	0.000	.0805068	.0912784

Note: _cons estimates baseline odds.

87.

88. * Vision in cataractous eyes

89. tab2 pva cortAny nucAny pscAny, firstonly nokey chi col

-> tabulation of pva by cortAny

pva	cortAny		Total
	0	1	
No VI	11,655 72.72	93 9.48	11,748 69.07
Mild VI	1,137 7.09	80 8.15	1,217 7.16
Moderate VI	2,580 16.10	475 48.42	3,055 17.96
Severe VI	175 1.09	54 5.50	229 1.35
Blind	481 3.00	279 28.44	760 4.47
Total	16,028 100.00	981 100.00	17,009 100.00

Pearson chi2(4) = 2.5e+03 Pr = 0.000

-> tabulation of pva by nucAny

pva	nucAny		Total
	0	1	
No VI	11,324 82.26	424 13.07	11,748 69.07
Mild VI	912 6.63	305 9.40	1,217 7.16
Moderate VI	1,370 9.95	1,685 51.96	3,055 17.96
Severe VI	40 0.29	189 5.83	229 1.35
Blind	120 0.87	640 19.73	760 4.47
Total	13,766 100.00	3,243 100.00	17,009 100.00

Pearson chi2(4) = 7.1e+03 Pr = 0.000

-> tabulation of pva by pscAny

pva	pscAny		Total
	0	1	
No VI	11,679 71.08	69 11.94	11,748 69.07
Mild VI	1,169 7.11	48 8.30	1,217 7.16
Moderate VI	2,784 16.94	271 46.89	3,055 17.96
Severe VI	197 1.20	32 5.54	229 1.35
Blind	602	158	760

	3.66	27.34	4.47
Total	16,431	578	17,009
	100.00	100.00	100.00

Pearson $\chi^2(4) = 1.3e+03$ Pr = 0.000

90. tab2 bva cortAny nucAny pscAny, firstonly nokey chi col

-> tabulation of bva by cortAny

bva	cortAny		Total
	0	1	
No VI	14,349	349	14,698
	89.52	35.58	86.41
Mild VI	417	89	506
	2.60	9.07	2.97
Moderate VI	765	271	1,036
	4.77	27.62	6.09
Severe VI	94	34	128
	0.59	3.47	0.75
Blind	403	238	641
	2.51	24.26	3.77
Total	16,028	981	17,009
	100.00	100.00	100.00

Pearson $\chi^2(4) = 2.5e+03$ Pr = 0.000

-> tabulation of bva by nucAny

bva	nucAny		Total
	0	1	
No VI	13,258	1,440	14,698
	96.31	44.40	86.41
Mild VI	161	345	506
	1.17	10.64	2.97
Moderate VI	237	799	1,036
	1.72	24.64	6.09
Severe VI	20	108	128
	0.15	3.33	0.75
Blind	90	551	641
	0.65	16.99	3.77
Total	13,766	3,243	17,009
	100.00	100.00	100.00

Pearson $\chi^2(4) = 6.1e+03$ Pr = 0.000

-> tabulation of bva by pscAny

bva	pscAny		Total
	0	1	
No VI	14,506 88.28	192 33.22	14,698 86.41
Mild VI	450 2.74	56 9.69	506 2.97
Moderate VI	862 5.25	174 30.10	1,036 6.09
Severe VI	113 0.69	15 2.60	128 0.75
Blind	500 3.04	141 24.39	641 3.77
Total	16,431 100.00	578 100.00	17,009 100.00

Pearson chi2(4) = 1.6e+03 Pr = 0.000

91. * pure

92. tab2 pattern pva if pattern !=1 & pattern !=., firstonly nokey chi row

-> tabulation of pattern by pva if pattern !=1 & pattern !=.

group(cort_1 ocs nuc locs psc_locs)	pva					Total
	No VI	Mild VI	Moderate	Severe VI	Blind	
0 0 Psc	29 29.59	11 11.22	34 34.69	4 4.08	20 20.41	98 100.00
0 Nuc 0	330 15.15	226 10.38	1,162 53.35	130 5.97	330 15.15	2,178 100.00
0 Nuc Psc	22 13.17	6 3.59	83 49.70	9 5.39	47 28.14	167 100.00
Cort 0 0	21 29.58	6 8.45	28 39.44	4 5.63	12 16.90	71 100.00
Cort 0 Psc	0 0.00	1 8.33	7 58.33	0 0.00	4 33.33	12 100.00
Cort Nuc 0	54 9.05	43 7.20	293 49.08	31 5.19	176 29.48	597 100.00
Cort Nuc Psc	18 5.98	30 9.97	147 48.84	19 6.31	87 28.90	301 100.00
Total	474 13.84	323 9.43	1,754 51.23	197 5.75	676 19.74	3,424 100.00

Pearson chi2(24) = 153.9316 Pr = 0.000

93. tab2 pattern bva if pattern !=1 & pattern !=., firstonly nokey chi row

-> tabulation of pattern by bva if pattern !=1 & pattern !=.

group(cort_1 ocs nuc locs psc_locs)	No VI	Mild VI	bva Moderate	Severe VI	Blind	Total
0 0 Psc	53 54.08	8 8.16	16 16.33	4 4.08	17 17.35	98 100.00
0 Nuc 0	1,087 49.91	241 11.07	500 22.96	70 3.21	280 12.86	2,178 100.00
0 Nuc Psc	51 30.54	21 12.57	47 28.14	5 2.99	43 25.75	167 100.00
Cort 0 0	41 57.75	5 7.04	16 22.54	1 1.41	8 11.27	71 100.00
Cort 0 Psc	6 50.00	1 8.33	3 25.00	0 0.00	2 16.67	12 100.00
Cort Nuc 0	220 36.85	57 9.55	144 24.12	27 4.52	149 24.96	597 100.00
Cort Nuc Psc	82 27.24	26 8.64	108 35.88	6 1.99	79 26.25	301 100.00
Total	1,540 44.98	359 10.48	834 24.36	113 3.30	578 16.88	3,424 100.00

Pearson chi2(24) = 154.2991 Pr = 0.000

94.

95. tab2 pattern bva if pattern !=. & pattern !=1, mis col nokey nofreq chi

-> tabulation of pattern by bva if pattern !=. & pattern !=1

group(cort_1 ocs nuc locs psc_locs)	No VI	Mild VI	bva Moderate	Severe VI	Blind	.
> Total						
0 0 Psc	3.44	2.23	1.92	3.54	2.94	5.88
> 2.91						
0 Nuc 0	70.58	67.13	59.95	61.95	48.44	94.12
> 64.06						
0 Nuc Psc	3.31	5.85	5.64	4.42	7.44	0.00
> 4.81						
Cort 0 0	2.66	1.39	1.92	0.88	1.38	0.00
> 2.04						
Cort 0 Psc	0.39	0.28	0.36	0.00	0.35	0.00
> 0.35						
Cort Nuc 0	14.29	15.88	17.27	23.89	25.78	0.00
> 17.18						
Cort Nuc Psc	5.32	7.24	12.95	5.31	13.67	0.00
> 8.66						
Total	100.00	100.00	100.00	100.00	100.00	100.00
> 00.00						1

Pearson chi2(30) = 181.6514 Pr = 0.000

```

96.
97.
98.
99. ** Prevalence of types of cataract in persons
100 use "UVR-cataract-analysis.dta", clear

101 save "combinedUVR40+_7.dta", replace
    file combinedUVR40+_7.dta saved

102 local dateAn: di c(current_date)

103
104
105 tab1 cort_prev nuc_prev psc_prev if excludeLocs==0

```

-> tabulation of cort_prev if excludeLocs==0

cort_prev	Freq.	Percent	Cum.
NormOrNotcort	8,232	93.06	93.06
cort	614	6.94	100.00
Total	8,846	100.00	

-> tabulation of nuc_prev if excludeLocs==0

nuc_prev	Freq.	Percent	Cum.
NormOrNotnuc	6,914	78.16	78.16
nuc	1,932	21.84	100.00
Total	8,846	100.00	

-> tabulation of psc_prev if excludeLocs==0

psc_prev	Freq.	Percent	Cum.
NormOrNotpsc	8,435	95.35	95.35
psc	411	4.65	100.00
Total	8,846	100.00	

```

106 tab2 study_location cort_prev nuc_prev psc_prev if excludeLocs==0 , firstonly row no
    > key chi

```

-> tabulation of study_location by cort_prev if excludeLocs==0

study_location	cort_prev		Total
	NormOrNot	cort	
Delhi (1)	2,819 88.93	351 11.07	3,170 100.00
Guwahati (2)	2,842 92.12	243 7.88	3,085 100.00
Prakasam (3)	2,571 99.23	20 0.77	2,591 100.00
Total	8,232 93.06	614 6.94	8,846 100.00

Pearson chi2(2) = 240.6182 Pr = 0.000

-> tabulation of study_location by nuc_prev if excludeLocs==0

study_location	nuc_prev		Total
	NormOrNot	nuc	
Delhi (1)	2,572 81.14	598 18.86	3,170 100.00
Guwahati (2)	2,465 79.90	620 20.10	3,085 100.00
Prakasam (3)	1,877 72.44	714 27.56	2,591 100.00
Total	6,914 78.16	1,932 21.84	8,846 100.00

Pearson chi2(2) = 71.5397 Pr = 0.000

-> tabulation of study_location by psc_prev if excludeLocs==0

study_location	psc_prev		Total
	NormOrNot	psc	
Delhi (1)	2,846 89.78	324 10.22	3,170 100.00
Guwahati (2)	3,031 98.25	54 1.75	3,085 100.00
Prakasam (3)	2,558 98.73	33 1.27	2,591 100.00
Total	8,435 95.35	411 4.65	8,846 100.00

Pearson chi2(2) = 347.2729 Pr = 0.000

107

108 *** Distribution of pure cataracts

109 tabl cort_assoc nuc_assoc psc_assoc pure_assoc

-> tabulation of cort_assoc

cort_assoc	Freq.	Percent	Cum.
0	6,640	99.43	99.43
Cort	38	0.57	100.00
Total	6,678	100.00	

-> tabulation of nuc_assoc

nuc_assoc	Freq.	Percent	Cum.
0	6,640	84.63	84.63
Nuc	1,206	15.37	100.00
Total	7,846	100.00	

-> tabulation of psc_assoc

psc_assoc	Freq.	Percent	Cum.
0	6,640	99.00	99.00
Psc	67	1.00	100.00
Total	6,707	100.00	

-> tabulation of pure_assoc

pure_assoc	Freq.	Percent	Cum.
0	6,640	83.51	83.51
1	38	0.48	83.99
2	1,206	15.17	99.16
3	67	0.84	100.00
Total	7,951	100.00	

```
110 tab2 study_location cort_assoc nuc_assoc psc_assoc pure_assoc , firstonly row nokey
> chi
```

-> tabulation of study_location by cort_assoc

study_location	cort_assoc 0	Cort	Total
Delhi(1)	2,465 99.52	12 0.48	2,477 100.00
Guwahati(2)	2,388 99.58	10 0.42	2,398 100.00
Prakasam(3)	1,787 99.11	16 0.89	1,803 100.00
Total	6,640 99.43	38 0.57	6,678 100.00

Pearson chi2(2) = 4.5227 Pr = 0.104

-> tabulation of study_location by nuc_assoc

study_location	nuc_assoc 0	Nuc	Total
Delhi(1)	2,465 93.69	166 6.31	2,631 100.00
Guwahati(2)	2,388 87.25	349 12.75	2,737 100.00
Prakasam(3)	1,787 72.11	691 27.89	2,478 100.00
Total	6,640 84.63	1,206 15.37	7,846 100.00

Pearson chi2(2) = 478.8528 Pr = 0.000

-> tabulation of study_location by psc_assoc

study_location	psc_assoc 0	Psc	Total
Delhi(1)	2,465 99.12	22 0.88	2,487 100.00
Guwahati(2)	2,388 99.25	18 0.75	2,406 100.00
Prakasam(3)	1,787 98.51	27 1.49	1,814 100.00
Total	6,640 99.00	67 1.00	6,707 100.00

Pearson chi2(2) = 6.2538 Pr = 0.044

-> tabulation of study_location by pure_assoc

study_location	0	pure_assoc 1	2	3	Total
Delhi (1)	2,465 92.50	12 0.45	166 6.23	22 0.83	2,665 100.00
Guwahati (2)	2,388 86.37	10 0.36	349 12.62	18 0.65	2,765 100.00
Prakasam (3)	1,787 70.88	16 0.63	691 27.41	27 1.07	2,521 100.00
Total	6,640 83.51	38 0.48	1,206 15.17	67 0.84	7,951 100.00

Pearson chi2(6) = 482.7692 Pr = 0.000

```

111
112 *** Logistic Regression Analysis
113 logistic anyCataract ///
>       gender i.educat2 smoke20 indoor16_kitchen i.tExposureQuantilesAll ///
>       if educat2<5 & study_location ==1, nolog

```

```

Logistic regression                                Number of obs    =      3,587
                                                    LR chi2(11)       =      702.13
                                                    Prob > chi2       =      0.0000
Log likelihood = -1894.613                        Pseudo R2        =      0.1563

```

	anyCataract	Odds Ratio	Std. Err.	z	P>|z|	[95% Conf. Interval	
>]							
> 2	gender	.5627393	.0895485	-3.61	0.000	.4119608	.768703
> 2	educat2						
> 2	Can read & write	.5565066	.06911	-4.72	0.000	.4362782	.709867
> 7	Middle School (6-8)	.3540028	.0541499	-6.79	0.000	.2623029	.477760
> 1	High School (9-12)	.4232057	.0577947	-6.30	0.000	.3238232	.553089
> 3	Graduation	.6263333	.1779921	-1.65	0.100	.3588476	1.09320
> 4	smoke20	1.364824	.1284786	3.30	0.001	1.134875	1.64136
> 8	indoor16_kitchen	1.340887	.1934115	2.03	0.042	1.01068	1.77897
> 7	tExposureQuantilesAll						
> 3	2	1.217642	.2326445	1.03	0.303	.8373132	1.77072
> 1	3	1.33442	.2401285	1.60	0.109	.9378194	1.89874
> 5	4	2.166069	.3653978	4.58	0.000	1.556259	3.01483
> 4	5	7.53346	1.22883	12.38	0.000	5.472045	10.3714
> 4	_cons	.4147931	.1198386	-3.05	0.002	.2354558	.730724

Note: **_cons** estimates baseline odds.

114 est sto loc1

115 logistic anyCataract ///

```
> gender i.educat2 smoke20 indoor16_kitchen i.tExposureQuantilesAll ///
```

```
> if educat2<5 & study_location ==2, nolog
```

```
Logistic regression      Number of obs      =      3,207
                        LR chi2(11)          =      569.64
                        Prob > chi2          =      0.0000
Log likelihood = -1569.6868      Pseudo R2          =      0.1536
```

		Odds Ratio	Std. Err.	z	P>|z|	[95% Conf. Interval	
anyCataract							
gender		1.164095	.1398044	1.27	0.206	.9199442	1.47304
educat2							
Can read & write		.659855	.0749383	-3.66	0.000	.5281768	.824361
Middle School (6-8)		.6221617	.104369	-2.83	0.005	.4478291	.864359
High School (9-12)		.5021808	.0683607	-5.06	0.000	.3845812	.655740
Graduation		.3609456	.1355736	-2.71	0.007	.172872	.753631
smoke20		1.465015	.1856683	3.01	0.003	1.142787	1.87810
indoor16_kitchen		1.289768	.2266879	1.45	0.148	.9139146	1.82019
tExposureQuantilesAll							
2		2.397287	.3412168	6.14	0.000	1.813697	3.16865
3		6.508472	.95427	12.78	0.000	4.882881	8.67524
4		10.57358	1.752456	14.23	0.000	7.640907	14.6318
5		25.67425	6.896602	12.08	0.000	15.16522	43.4657
_cons		.0794545	.0232141	-8.67	0.000	.0448151	.140868

Note: **_cons** estimates baseline odds.

116 est sto loc2

117 logistic anyCataract ///

```
> gender i.educat2 smoke20 indoor16_kitchen i.tExposureQuantilesAll ///
```

```
> if educat2<5 & study_location ==3, nolog
```

```
Logistic regression      Number of obs      =      2,902
                        LR chi2(11)          =      597.45
                        Prob > chi2          =      0.0000
Log likelihood = -1678.9942      Pseudo R2          =      0.1510
```

	anyCataract	Odds Ratio	Std. Err.	z	P>|z|	[95% Conf. Interval	
-							
>]							
-							
> 9	gender	.9749971	.2265448	-0.11	0.913	.6183338	1.53738
-	educat2						
> 2	Can read & write	.7027222	.0829431	-2.99	0.003	.5575906	.885629
> 1	Middle School (6-8)	.6795925	.1265055	-2.08	0.038	.4718438	.978811
> 6	High School (9-12)	.4024986	.0700716	-5.23	0.000	.2861392	.56617
> 4	Graduation	.1131929	.0605845	-4.07	0.000	.0396487	.32315
> 6	smoke20	1.427572	.1729432	2.94	0.003	1.125847	1.8101
> 2	indoor16_kitchen	1.35786	.2929006	1.42	0.156	.8897019	2.07236
-	tExposureQuantilesAll						
> 4	2	.5385644	.0960985	-3.47	0.001	.3796241	.764049
> 1	3	.4563221	.0629621	-5.69	0.000	.348197	.598023
> 9	4	1.054592	.1312067	0.43	0.669	.8263854	1.34581
> 7	5	5.013201	.6817703	11.85	0.000	3.840219	6.54446
> 3	_cons	.5656296	.1777852	-1.81	0.070	.3054835	1.04731

Note: **_cons** estimates baseline odds.

118 est sto loc3

119 logistic anyCataract ///

```
> gender i.educat2 smoke20 indoor16_kitchen i.tExposureQuantilesAll i.study_lo
> cation ///  
> if educat2<5 , nolog
```

Logistic regression

```
Number of obs      =      9,696
LR chi2(13)         =     1758.05
Prob > chi2         =      0.0000
Pseudo R2          =      0.1426
```

Log likelihood = **-5287.0569**

	anyCataract	Odds Ratio	Std. Err.	z	P>|z|	[95% Conf. Interval	
-							
>]							
-							
> 9	gender	.9269099	.0750717	-0.94	0.349	.7908562	1.08636
-	educat2						
> 9	Can read & write	.6604907	.044212	-6.20	0.000	.5792806	.753085
> 7	Middle School (6-8)	.5370256	.0503385	-6.63	0.000	.4468966	.645331
> 7	High School (9-12)	.4688843	.0379436	-9.36	0.000	.400114	.549474
> 3	Graduation	.3798319	.0756661	-4.86	0.000	.2570538	.561253
> 3	smoke20	1.374743	.0860931	5.08	0.000	1.215948	1.55427

```

> 5      indoor16_kitchen |      1.214542      .0994495      2.37      0.018      1.034461      1.42597
> 2
tExposureQuantilesAll
2 |      1.077821      .0933004      0.87      0.387      .9096271      1.27711
> 5
3 |      1.647977      .1360909      6.05      0.000      1.401711      1.93750
> 9
4 |      2.628959      .2179998      11.66      0.000      2.234601      3.09291
> 2
5 |      9.42244      .8331248      25.37      0.000      7.923204      11.2053
> 6
study_location
Guwahati(2) |      1.956389      .1415596      9.27      0.000      1.697713      2.25447
> 8
Prakasam(3) |      1.988732      .126966      10.77      0.000      1.754823      2.2538
> 2
_cons |      .1582955      .0260081      -11.22      0.000      .1147137      .218434
> 9

```

Note: **_cons** estimates baseline odds.

120 est sto locAll

```

121
122 /*
> // Logistic Regression Analysis *** With Pack Year Smokeing
> logistic anyCataract ///
>      gender i.educat2 smoke20 i.smokepackTotCat3 indoor16_kitchen i.tExposureQuan
> tilesAll ///
>      if educat2<5 & study_location ==1 & smokepackTotCat3!=99 , nolog
> logistic anyCataract ///
>      gender i.educat2 smoke20 indoor16_kitchen i.tExposureQuantilesAll ///
>      if educat2<5 & study_location ==2, nolog
> logistic anyCataract ///
>      gender i.educat2 smoke20 indoor16_kitchen i.tExposureQuantilesAll ///
>      if educat2<5 & study_location ==3, nolog
> logistic anyCataract ///
>      gender i.educat2 smoke20 indoor16_kitchen i.tExposureQuantilesAll i.study_lo
> cation ///
>      if educat2<5 , nolog
> */
123
124
125 logistic anyCataract ///
>      gender i.educat2 smoke20 indoor16_kitchen i.tExposureQuantilesAll i.sugar20
> 0 ///
>      if educat2<5 & study_location ==1, nolog

```

```

Logistic regression      Number of obs      =      3,564
                        LR chi2(12)      =      711.25
                        Prob > chi2      =      0.0000
Log likelihood = -1877.4219      Pseudo R2      =      0.1593

```

```

-      anyCataract | Odds Ratio      Std. Err.      z      P>|z|      [95% Conf. Interval
> ]
-
> 9      gender |      .5628582      .0899192      -3.60      0.000      .4115434      .769807
educat2
Can read & write |      .5534589      .0691024      -4.74      0.000      .4333195      .706907
> 5      Middle School (6-8) |      .3509581      .0539024      -6.82      0.000      .2597301      .474229
> 3

```

High School (9-12)		.4134022	.0568477	-6.42	0.000	.3157348	.541281
> 5	Graduation	.6050027	.1729532	-1.76	0.079	.3454799	1.05947
> 8							
> 7	smoke20	1.372989	.1299015	3.35	0.001	1.140599	1.65272
> 1	indoor16_kitchen	1.3206	.1910381	1.92	0.055	.9945719	1.75350
tExposureQuantilesAll							
> 9	2	1.242329	.2378249	1.13	0.257	.8536638	1.80794
> 8	3	1.37008	.247214	1.75	0.081	.96196	1.95134
> 1	4	2.213943	.3745098	4.70	0.000	1.589196	3.08429
> 5	5	7.742998	1.267761	12.50	0.000	5.617485	10.6727
> 4	1.sugar200	1.740088	.2907381	3.32	0.001	1.254152	2.41430
> 9	_cons	.3998426	.1160148	-3.16	0.002	.2264185	.706099

Note: **_cons** estimates baseline odds.

126 est sto loc11

127 logistic anyCataract ///

```
> gender i.educat2 smoke20 indoor16_kitchen i.tExposureQuantilesAll i.sugar200
> ///
> if educat2<5 & study_location ==2, nolog
```

Logistic regression	Number of obs	=	3,141
	LR chi2(12)	=	557.20
	Prob > chi2	=	0.0000
Log likelihood = -1539.2591	Pseudo R2	=	0.1533

	anyCataract	Odds Ratio	Std. Err.	z	P>|z|	[95% Conf. Interval	
>]							
> 2	gender	1.148568	.139107	1.14	0.253	.9058673	1.45629
> 1	educat2						
> 7	Can read & write	.6383611	.0733669	-3.91	0.000	.5096098	.79964
> 7	Middle School (6-8)	.6280626	.1059798	-2.76	0.006	.4512014	.874249
> 9	High School (9-12)	.5065642	.0700205	-4.92	0.000	.3863456	.664190
> 4	Graduation	.3601285	.1360016	-2.70	0.007	.1717922	.754938
> 4	smoke20	1.437384	.1837313	2.84	0.005	1.118843	1.84661
> 4	indoor16_kitchen	1.27122	.2238697	1.36	0.173	.9001578	1.7952
tExposureQuantilesAll							
> 8	2	2.367873	.3417836	5.97	0.000	1.784408	3.14211
> 7	3	6.575926	.9776631	12.67	0.000	4.913672	8.80050
> 7	4	10.32156	1.73047	13.92	0.000	7.430815	14.3368
> 7	5	25.28855	6.822495	11.97	0.000	14.90327	42.9107

```

> 5
      1.sugar200 | 1.145926 .2230311 0.70 0.484 .7825057 1.6781
> 3
      _cons | .0828693 .0243469 -8.48 0.000 .0465921 .147392
> 6

```

Note: **_cons** estimates baseline odds.

128 est sto loc12

129 logistic anyCataract ///

```

> gender i.educat2 smoke20 indoor16_kitchen i.tExposureQuantilesAll i.sugar200
> ///
> if educat2<5 & study_location ==3, nolog

```

```

Logistic regression
Number of obs      =      2,836
LR chi2(12)        =      603.35
Prob > chi2        =      0.0000
Pseudo R2         =      0.1561
Log likelihood = -1631.3675

```

	anyCataract	Odds Ratio	Std. Err.	z	P>|z|	[95% Conf. Interval
gender		.939887	.2213641	-0.26	0.792	.592378 1.49125
educat2						
Can read & write		.6567706	.0790308	-3.49	0.000	.518784 .831459
Middle School (6-8)		.63851	.121241	-2.36	0.018	.4400892 .92639
High School (9-12)		.375214	.0664225	-5.54	0.000	.2652129 .530839
Graduation		.1073612	.0574348	-4.17	0.000	.0376255 .306346
smoke20		1.427559	.1760298	2.89	0.004	1.121073 1.81783
indoor16_kitchen		1.41234	.308437	1.58	0.114	.920551 2.1668
tExposureQuantilesAll						
2		.5384105	.0984742	-3.39	0.001	.3762101 .770542
3		.4524056	.0640291	-5.60	0.000	.3428129 .597033
4		1.079291	.1370861	0.60	0.548	.8414405 1.38437
5		5.070824	.7022539	11.72	0.000	3.865418 6.65212
1.sugar200		1.416708	.1651396	2.99	0.003	1.127352 1.78033
_cons		.5594679	.1794691	-1.81	0.070	.2983474 1.04912

Note: **_cons** estimates baseline odds.

130 est sto loc13

```
131 logistic anyCataract ///
>       gender i.educat2 smoke20 indoor16_kitchen i.tExposureQuantilesAll i.study_lo
> cation i.sugar200 ///
>       if educat2<5 , nolog
```

```
Logistic regression                                Number of obs      =      9,541
                                                    LR chi2(14)         =     1763.82
                                                    Prob > chi2         =      0.0000
Log likelihood = -5188.0629                      Pseudo R2          =      0.1453
```

	anyCataract	Odds Ratio	Std. Err.	z	P>|z|	[95% Conf. Interval	
	gender	.9122798	.0746721	-1.12	0.262	.7770614	1.07102
	educat2						
	Can read & write	.6330921	.0429239	-6.74	0.000	.554313	.723067
	Middle School (6-8)	.5238093	.0495461	-6.84	0.000	.4351707	.630502
	High School (9-12)	.4542244	.0371995	-9.64	0.000	.3868653	.533311
	Graduation	.362398	.0725635	-5.07	0.000	.2447645	.53656
	smoke20	1.366968	.0863799	4.95	0.000	1.207731	1.54720
	indoor16_kitchen	1.221469	.1009442	2.42	0.015	1.038814	1.4362
	tExposureQuantilesAll						
	2	1.072411	.0940005	0.80	0.425	.9031306	1.27342
	3	1.657421	.1382779	6.06	0.000	1.4074	1.95185
	4	2.646684	.2215953	11.62	0.000	2.246129	3.1186
	5	9.47907	.8450977	25.23	0.000	7.959351	11.2889
	study_location						
	Guwahati(2)	1.954937	.1426255	9.19	0.000	1.694462	2.25545
	Prakasam(3)	1.878646	.1219913	9.71	0.000	1.654137	2.13362
	1.sugar200	1.579041	.1336159	5.40	0.000	1.337723	1.86389
	_cons	.1606328	.0266507	-11.02	0.000	.1160408	.222360

Note: **_cons** estimates baseline odds.

132 est sto locAll_1

133

134 estout loc1 loc2 loc3 locAll, eform cells(b(star fmt(2)) p(fmt(3))) lab

	loc1 b/p	loc2 b/p	loc3 b/p	locAll b/p
anyCataract				
gender	0.56*** 0.000	1.16 0.206	0.97 0.913	0.93 0.349
Illiterate	1.00	1.00	1.00	1.00
Can read & write	0.56*** 0.000	0.66*** 0.000	0.70** 0.003	0.66*** 0.000
Middle School (6-8)	0.35*** 0.000	0.62** 0.005	0.68* 0.038	0.54*** 0.000
High School (9-12)	0.42*** 0.000	0.50*** 0.000	0.40*** 0.000	0.47*** 0.000
Graduation	0.63 0.100	0.36** 0.007	0.11*** 0.000	0.38*** 0.000
smoke20	1.36*** 0.001	1.47** 0.003	1.43** 0.003	1.37*** 0.000
indoor16_kitchen	1.34* 0.042	1.29 0.148	1.36 0.156	1.21* 0.018
5 quantiles of tEx~1	1.00	1.00	1.00	1.00
5 quantiles of tEx~2	1.22 0.303	2.40*** 0.000	0.54*** 0.001	1.08 0.387
5 quantiles of tEx~3	1.33 0.109	6.51*** 0.000	0.46*** 0.000	1.65*** 0.000
5 quantiles of tEx~4	2.17*** 0.000	10.57*** 0.000	1.05 0.669	2.63*** 0.000
5 quantiles of tEx~5	7.53*** 0.000	25.67*** 0.000	5.01*** 0.000	9.42*** 0.000
Delhi(1)				1.00
Guwahati(2)				1.96*** 0.000
Prakasam(3)				1.99*** 0.000
_cons	0.41** 0.002	0.08*** 0.000	0.57 0.070	0.16*** 0.000

135 di "With Diabetes"
With Diabetes

136 estout loc11 loc12 loc13 locAll_1, eform cells(b(star fmt(2)) p(fmt(3))) lab

	loc11 b/p	loc12 b/p	loc13 b/p	locAll_1 b/p
anyCataract				
gender	0.56*** 0.000	1.15 0.253	0.94 0.792	0.91 0.262
Illiterate	1.00	1.00	1.00	1.00
Can read & write	0.55*** 0.000	0.64*** 0.000	0.66*** 0.000	0.63*** 0.000
Middle School (6-8)	0.35*** 0.000	0.63** 0.006	0.64* 0.018	0.52*** 0.000
High School (9-12)	0.41*** 0.000	0.51*** 0.000	0.38*** 0.000	0.45*** 0.000
Graduation	0.61 0.079	0.36** 0.007	0.11*** 0.000	0.36*** 0.000
smoke20	1.37*** 0.001	1.44** 0.005	1.43** 0.004	1.37*** 0.000
indoor16_kitchen	1.32 0.055	1.27 0.173	1.41 0.114	1.22* 0.015

5 quantiles of tEx~1	1.00	1.00	1.00	1.00
5 quantiles of tEx~2	1.24 0.257	2.37*** 0.000	0.54*** 0.001	1.07 0.425
5 quantiles of tEx~3	1.37 0.081	6.58*** 0.000	0.45*** 0.000	1.66*** 0.000
5 quantiles of tEx~4	2.21*** 0.000	10.32*** 0.000	1.08 0.548	2.65*** 0.000
5 quantiles of tEx~5	7.74*** 0.000	25.29*** 0.000	5.07*** 0.000	9.48*** 0.000
sugar200=0	1.00	1.00	1.00	1.00
sugar200=1	1.74*** 0.001	1.15 0.484	1.42** 0.003	1.58*** 0.000
Delhi(1)				1.00
Guwahati(2)				1.95*** 0.000
Prakasam(3)				1.88*** 0.000
_cons	0.40** 0.002	0.08*** 0.000	0.56 0.070	0.16*** 0.000

```

137
138
139
140
141
142 *** Multinomial Logistic Regression of pure cataracts
143 mlogit pure_assoc gender i.educat2 smoke20 indoor16_kitchen i.tExposureQuantilesAll
> i.study_location if educat2<5, allbaselevels nolog

```

```

Multinomial logistic regression      Number of obs      =      7,935
                                      LR chi2(39)            =     1138.63
                                      Prob > chi2           =      0.0000
Log likelihood = -3416.6865          Pseudo R2          =      0.1428

```

		Coef.	Std. Err.	z	P>|z|	[95% Conf. Interval	
	pure_assoc						
0		(base outcome)					
1	gender	-.5063656	.5640616	-0.90	0.369	-1.611906	.599174
> 8							
	educat2						
	Illiterate	0	(base)				
	Can read & write	-.5382653	.4774667	-1.13	0.260	-1.474083	.397552
> 2							
	Middle School (6-8)	-1.681295	1.040678	-1.62	0.106	-3.720987	.358397
> 7							
	High School (9-12)	-.6431838	.5495617	-1.17	0.242	-1.720305	.433937
> 5							
	Graduation	-13.46945	725.5199	-0.02	0.985	-1435.462	1408.52
> 3							
	smoke20	.0945115	.4102408	0.23	0.818	-.7095457	.898568
> 7							
	indoor16_kitchen	.1207513	.5574276	0.22	0.829	-.9717867	1.21328
> 9							
	tExposureQuantilesAll						
	1	0	(base)				
	2	1.336689	.7980449	1.67	0.094	-.2274502	2.90082
> 9							
	3	1.033413	.8284534	1.25	0.212	-.5903255	2.65715

> 2	4	|	1.258725	.8302683	1.52	0.130	-.3685714	2.88602
> 1	5	|	2.618798	.8031306	3.26	0.001	1.044691	4.19290
> 5								
	study_location							
	Delhi(1)		0	(base)				
> 6	Guwahati(2)	|	.4261454	.5407398	0.79	0.431	-.6336852	1.48597
> 8	Prakasam(3)	|	.6230743	.4284841	1.45	0.146	-.216739	1.46288
> 9	_cons	|	-5.896327	1.240614	-4.75	0.000	-8.327886	-3.46476
2								
> 8	gender	|	-.0837351	.1187445	-0.71	0.481	-.31647	.148999
> 8								
	educat2							
	Illiterate		0	(base)				
> 4	Can read & write	|	-.3118968	.0944173	-3.30	0.001	-.4969512	-.126842
> 6	Middle School (6-8)	|	-.5403044	.1441311	-3.75	0.000	-.8227961	-.257812
> 6	High School (9-12)	|	-.8808761	.1293984	-6.81	0.000	-1.134492	-.6272
> 6	Graduation	|	-1.318063	.3544307	-3.72	0.000	-2.012734	-.623391
> 4								
> 3	smoke20	|	.3949066	.0920235	4.29	0.000	.2145439	.575269
> 1	indoor16_kitchen	|	.3026915	.1203168	2.52	0.012	.0668749	.538508
tExposureQuantilesAll								
	1		0	(base)				
> 5	2	|	.0651374	.1275723	0.51	0.610	-.1848998	.315174
> 2	3	|	.4541619	.1202815	3.78	0.000	.2184146	.689909
> 8	4	|	.9013931	.1207905	7.46	0.000	.6646482	1.13813
> 7	5	|	2.052606	.1268396	16.18	0.000	1.804005	2.30120
> 7								
	study_location							
	Delhi(1)		0	(base)				
> 6	Guwahati(2)	|	1.632108	.1232003	13.25	0.000	1.39064	1.87357
> 8	Prakasam(3)	|	1.920702	.1056734	18.18	0.000	1.713586	2.12781
> 1	_cons	|	-3.775041	.2505655	-15.07	0.000	-4.26614	-3.28394
3								
> 2	gender	|	.0655597	.4274478	0.15	0.878	-.7722226	.90334
> 2								
	educat2							
	Illiterate		0	(base)				
> 5	Can read & write	|	-.4279883	.4090676	-1.05	0.295	-1.229746	.373769
> 4	Middle School (6-8)	|	.3701851	.4065325	0.91	0.363	-.4266039	1.16697
> 6	High School (9-12)	|	.2879153	.3671808	0.78	0.433	-.4317457	1.00757
> 6	Graduation	|	-.5394073	1.051084	-0.51	0.608	-2.599493	1.52067

```

> 9
      smoke20 | .3642696 .3297639 1.10 0.269 -.2820557 1.01059
> 5 indoor16_kitchen | .3960882 .4213396 0.94 0.347 -.4297222 1.22189
> 9
tExposureQuantilesAll
      1 | 0 (base)
      2 | .2483423 .3949401 0.63 0.529 -.525726 1.02241
> 1      3 | .0638297 .4152874 0.15 0.878 -.7501187 .87777
> 8      4 | .4946464 .3998811 1.24 0.216 -.2891061 1.27839
> 9      5 | .6864737 .4560857 1.51 0.132 -.2074378 1.58038
> 5
      study_location
      Delhi(1) | 0 (base)
      Guwahati(2) | .0670229 .3795339 0.18 0.860 -.6768499 .810895
> 7      Prakasam(3) | .7781364 .3168569 2.46 0.014 .1571083 1.39916
> 4
      _cons | -5.693908 .8573752 -6.64 0.000 -7.374332 -4.01348
> 3

```

```

144
145 //
146 // Gender ratio in all type of cataracts
147 for var anyCataract cort_prev nuc_prev psc_prev cort_assoc nuc_assoc psc_assoc pure_
> assoc: tab X gender, r col chi nokey

```

```
-> tab anyCataract gender, r col chi nokey
```

anyCataract	gender		Total
	Male	Female	
0	2,990 46.11 67.71	3,495 53.89 65.94	6,485 100.00 66.75
1	1,426 44.13 32.29	1,805 55.87 34.06	3,231 100.00 33.25
Total	4,416 45.45 100.00	5,300 54.55 100.00	9,716 100.00 100.00

```
Pearson chi2(1) = 3.3807 Pr = 0.066
```

```
-> tab cort_prev gender, r col chi nokey
```

cort_prev	gender		Total
	Male	Female	
NormOrNotcort	3,803 46.20 93.26	4,429 53.80 92.89	8,232 100.00 93.06
cort	275 44.79 6.74	339 55.21 7.11	614 100.00 6.94
Total	4,078 46.10 100.00	4,768 53.90 100.00	8,846 100.00 100.00

Pearson chi2(1) = 0.4568 Pr = 0.499

-> tab nuc_prev gender, r col chi nokey

nuc_prev	gender		Total
	Male	Female	
NormOrNotnuc	3,194 46.20 78.32	3,720 53.80 78.02	6,914 100.00 78.16
nuc	884 45.76 21.68	1,048 54.24 21.98	1,932 100.00 21.84
Total	4,078 46.10 100.00	4,768 53.90 100.00	8,846 100.00 100.00

Pearson chi2(1) = 0.1179 Pr = 0.731

-> tab psc_prev gender, r col chi nokey

psc_prev	gender		Total
	Male	Female	
NormOrNotpsc	3,890 46.12 95.39	4,545 53.88 95.32	8,435 100.00 95.35
psc	188 45.74 4.61	223 54.26 4.68	411 100.00 4.65
Total	4,078 46.10 100.00	4,768 53.90 100.00	8,846 100.00 100.00

Pearson chi2(1) = 0.0222 Pr = 0.882

-> tab cort_assoc gender, r col chi nokey

cort_assoc	gender		Total
	Male	Female	
0	3,072 46.27 99.35	3,568 53.73 99.50	6,640 100.00 99.43
Cort	20 52.63 0.65	18 47.37 0.50	38 100.00 0.57
Total	3,092 46.30 100.00	3,586 53.70 100.00	6,678 100.00 100.00

Pearson chi2(1) = 0.6160 Pr = 0.433

-> tab nuc_assoc gender, r col chi nokey

nuc_assoc	gender		Total
	Male	Female	
0	3,072 46.27 84.49	3,568 53.73 84.75	6,640 100.00 84.63
Nuc	564 46.77 15.51	642 53.23 15.25	1,206 100.00 15.37
Total	3,636 46.34 100.00	4,210 53.66 100.00	7,846 100.00 100.00

Pearson $\chi^2(1) = 0.1031$ Pr = 0.748

-> **tab psc_assoc gender, r col chi nokey**

psc_assoc	gender		Total
	Male	Female	
0	3,072 46.27 99.03	3,568 53.73 98.97	6,640 100.00 99.00
Psc	30 44.78 0.97	37 55.22 1.03	67 100.00 1.00
Total	3,102 46.25 100.00	3,605 53.75 100.00	6,707 100.00 100.00

Pearson $\chi^2(1) = 0.0592$ Pr = 0.808

-> **tab pure_assoc gender, r col chi nokey**

pure_assoc	gender		Total
	Male	Female	
0	3,072 46.27 83.34	3,568 53.73 83.66	6,640 100.00 83.51
1	20 52.63 0.54	18 47.37 0.42	38 100.00 0.48
2	564 46.77 15.30	642 53.23 15.05	1,206 100.00 15.17
3	30 44.78 0.81	37 55.22 0.87	67 100.00 0.84
Total	3,686 46.36 100.00	4,265 53.64 100.00	7,951 100.00 100.00

Pearson $\chi^2(3) = 0.7727$ Pr = 0.856

```
148 for var anyCataract cort_prev nuc_prev psc_prev cort_assoc nuc_assoc psc_assoc pure_
> assoc: bysort study_location: tab X gender, r col chi nokey
```

```
-> bysort study_location: tab anyCataract gender, r col chi nokey
```

```
-> study_location = Delhi(1)
```

anyCataract	gender		Total
	Male	Female	
0	1,107 45.31 68.72	1,336 54.69 67.61	2,443 100.00 68.11
1	504 44.06 31.28	640 55.94 32.39	1,144 100.00 31.89
Total	1,611 44.91 100.00	1,976 55.09 100.00	3,587 100.00 100.00

```
Pearson chi2(1) = 0.4977 Pr = 0.480
```

```
-> study_location = Guwahati(2)
```

anyCataract	gender		Total
	Male	Female	
0	1,110 46.88 74.60	1,258 53.13 72.47	2,368 100.00 73.45
1	378 44.16 25.40	478 55.84 27.53	856 100.00 26.55
Total	1,488 46.15 100.00	1,736 53.85 100.00	3,224 100.00 100.00

```
Pearson chi2(1) = 1.8664 Pr = 0.172
```

```
-> study_location = Prakasam(3)
```

anyCataract	gender		Total
	Male	Female	
0	773 46.18 58.69	901 53.82 56.74	1,674 100.00 57.62
1	544 44.19 41.31	687 55.81 43.26	1,231 100.00 42.38
Total	1,317 45.34 100.00	1,588 54.66 100.00	2,905 100.00 100.00

```
Pearson chi2(1) = 1.1280 Pr = 0.288
```

```
-> bysort study_location: tab cort_prev gender, r col chi nokey
```

```
-> study_location = Delhi(1)
```

cort_prev	gender		Total
	Male	Female	
NormOrNotcort	1,279 45.37 88.88	1,540 54.63 88.97	2,819 100.00 88.93
cort	160 45.58 11.12	191 54.42 11.03	351 100.00 11.07
Total	1,439 45.39 100.00	1,731 54.61 100.00	3,170 100.00 100.00

Pearson $\chi^2(1) = 0.0057$ Pr = 0.940

-> study_location = Guwahati(2)

cort_prev	gender		Total
	Male	Female	
NormOrNotcort	1,327 46.69 92.80	1,515 53.31 91.54	2,842 100.00 92.12
cort	103 42.39 7.20	140 57.61 8.46	243 100.00 7.88
Total	1,430 46.35 100.00	1,655 53.65 100.00	3,085 100.00 100.00

Pearson $\chi^2(1) = 1.6689$ Pr = 0.196

-> study_location = Prakasam(3)

cort_prev	gender		Total
	Male	Female	
NormOrNotcort	1,197 46.56 99.01	1,374 53.44 99.42	2,571 100.00 99.23
cort	12 60.00 0.99	8 40.00 0.58	20 100.00 0.77
Total	1,209 46.66 100.00	1,382 53.34 100.00	2,591 100.00 100.00

Pearson $\chi^2(1) = 1.4408$ Pr = 0.230

-> **bysort study_location: tab nuc_prev gender, r col chi nokey**

-> study_location = Delhi(1)

nuc_prev	gender		Total
	Male	Female	
NormOrNotnuc	1,164 45.26 80.89	1,408 54.74 81.34	2,572 100.00 81.14
nuc	275 45.99 19.11	323 54.01 18.66	598 100.00 18.86
Total	1,439 45.39 100.00	1,731 54.61 100.00	3,170 100.00 100.00

Pearson $\chi^2(1) = 0.1043$ Pr = 0.747

-> study_location = Guwahati(2)

nuc_prev	gender		Total
	Male	Female	
NormOrNotnuc	1,151 46.69 80.49	1,314 53.31 79.40	2,465 100.00 79.90
nuc	279 45.00 19.51	341 55.00 20.60	620 100.00 20.10
Total	1,430 46.35 100.00	1,655 53.65 100.00	3,085 100.00 100.00

Pearson $\chi^2(1) = 0.5715$ Pr = 0.450

-> study_location = Prakasam(3)

nuc_prev	gender		Total
	Male	Female	
NormOrNotnuc	879 46.83 72.70	998 53.17 72.21	1,877 100.00 72.44
nuc	330 46.22 27.30	384 53.78 27.79	714 100.00 27.56
Total	1,209 46.66 100.00	1,382 53.34 100.00	2,591 100.00 100.00

Pearson $\chi^2(1) = 0.0777$ Pr = 0.780

-> bysort study_location: tab psc_prev gender, r col chi nokey

-> study_location = Delhi(1)

psc_prev	gender		Total
	Male	Female	
NormOrNotpsc	1,287 45.22 89.44	1,559 54.78 90.06	2,846 100.00 89.78
psc	152 46.91 10.56	172 53.09 9.94	324 100.00 10.22
Total	1,439 45.39 100.00	1,731 54.61 100.00	3,170 100.00 100.00

Pearson $\chi^2(1) = 0.3360$ Pr = 0.562

-> study_location = Guwahati(2)

psc_prev	gender		Total
	Male	Female	
NormOrNotpsc	1,407 46.42 98.39	1,624 53.58 98.13	3,031 100.00 98.25
psc	23 42.59 1.61	31 57.41 1.87	54 100.00 1.75
Total	1,430 46.35 100.00	1,655 53.65 100.00	3,085 100.00 100.00

Pearson $\chi^2(1) = 0.3126$ Pr = 0.576

-> study_location = Prakasam(3)

psc_prev	gender		Total
	Male	Female	
NormOrNotpsc	1,196 46.76 98.92	1,362 53.24 98.55	2,558 100.00 98.73
psc	13 39.39 1.08	20 60.61 1.45	33 100.00 1.27
Total	1,209 46.66 100.00	1,382 53.34 100.00	2,591 100.00 100.00

Pearson $\chi^2(1) = 0.7094$ Pr = 0.400

-> bysort study_location: tab cort_assoc gender, r col chi nokey

-> study_location = Delhi(1)

cort_assoc	gender		Total
	Male	Female	
0	1,119 45.40 99.56	1,346 54.60 99.48	2,465 100.00 99.52
Cort	5 41.67 0.44	7 58.33 0.52	12 100.00 0.48
Total	1,124 45.38 100.00	1,353 54.62 100.00	2,477 100.00 100.00

Pearson $\chi^2(1) = 0.0670$ Pr = 0.796

-> study_location = Guwahati(2)

cort_assoc	gender		Total
	Male	Female	
0	1,118 46.82 99.55	1,270 53.18 99.61	2,388 100.00 99.58
Cort	5 50.00 0.45	5 50.00 0.39	10 100.00 0.42
Total	1,123 46.83 100.00	1,275 53.17 100.00	2,398 100.00 100.00

Pearson $\chi^2(1) = 0.0405$ Pr = 0.840

-> study_location = Prakasam(3)

cort_assoc	gender		Total
	Male	Female	
0	835 46.73 98.82	952 53.27 99.37	1,787 100.00 99.11
Cort	10 62.50 1.18	6 37.50 0.63	16 100.00 0.89
Total	845 46.87 100.00	958 53.13 100.00	1,803 100.00 100.00

Pearson $\chi^2(1) = 1.5845$ Pr = 0.208

-> bysort study_location: tab nuc_assoc gender, r col chi nokey

-> study_location = Delhi(1)

nuc_assoc	gender		Total
	Male	Female	
0	1,119 45.40 93.41	1,346 54.60 93.93	2,465 100.00 93.69
Nuc	79 47.59 6.59	87 52.41 6.07	166 100.00 6.31
Total	1,198 45.53 100.00	1,433 54.47 100.00	2,631 100.00 100.00

Pearson chi2(1) = 0.3021 Pr = 0.583

-> study_location = Guwahati(2)

nuc_assoc	gender		Total
	Male	Female	
0	1,118 46.82 87.28	1,270 53.18 87.23	2,388 100.00 87.25
Nuc	163 46.70 12.72	186 53.30 12.77	349 100.00 12.75
Total	1,281 46.80 100.00	1,456 53.20 100.00	2,737 100.00 100.00

Pearson chi2(1) = 0.0015 Pr = 0.969

-> study_location = Prakasam(3)

nuc_assoc	gender		Total
	Male	Female	
0	835 46.73 72.17	952 53.27 72.07	1,787 100.00 72.11
Nuc	322 46.60 27.83	369 53.40 27.93	691 100.00 27.89
Total	1,157 46.69 100.00	1,321 53.31 100.00	2,478 100.00 100.00

Pearson chi2(1) = 0.0032 Pr = 0.955

-> bysort study_location: tab psc_assoc gender, r col chi nokey

-> study_location = Delhi(1)

psc_assoc	gender		Total
	Male	Female	
0	1,119 45.40 98.94	1,346 54.60 99.26	2,465 100.00 99.12
Psc	12 54.55 1.06	10 45.45 0.74	22 100.00 0.88
Total	1,131 45.48 100.00	1,356 54.52 100.00	2,487 100.00 100.00

Pearson chi2(1) = 0.7363 Pr = 0.391

-> study_location = Guwahati(2)

psc_assoc	gender		Total
	Male	Female	
0	1,118 46.82 99.38	1,270 53.18 99.14	2,388 100.00 99.25
Psc	7 38.89 0.62	11 61.11 0.86	18 100.00 0.75
Total	1,125 46.76 100.00	1,281 53.24 100.00	2,406 100.00 100.00

Pearson chi2(1) = 0.4511 Pr = 0.502

-> study_location = Prakasam(3)

psc_assoc	gender		Total
	Male	Female	
0	835 46.73 98.70	952 53.27 98.35	1,787 100.00 98.51
Psc	11 40.74 1.30	16 59.26 1.65	27 100.00 1.49
Total	846 46.64 100.00	968 53.36 100.00	1,814 100.00 100.00

Pearson chi2(1) = 0.3829 Pr = 0.536

-> bysort study_location: tab pure_assoc gender, r col chi nokey

-> study_location = Delhi(1)

pure_assoc	gender		Total
	Male	Female	
0	1,119 45.40 92.10	1,346 54.60 92.83	2,465 100.00 92.50
1	5 41.67 0.41	7 58.33 0.48	12 100.00 0.45
2	79 47.59 6.50	87 52.41 6.00	166 100.00 6.23
3	12 54.55 0.99	10 45.45 0.69	22 100.00 0.83
Total	1,215 45.59 100.00	1,450 54.41 100.00	2,665 100.00 100.00

Pearson $\chi^2(3) = 1.0911$ Pr = 0.779

-> study_location = Guwahati(2)

pure_assoc	gender		Total
	Male	Female	
0	1,118 46.82 86.47	1,270 53.18 86.28	2,388 100.00 86.37
1	5 50.00 0.39	5 50.00 0.34	10 100.00 0.36
2	163 46.70 12.61	186 53.30 12.64	349 100.00 12.62
3	7 38.89 0.54	11 61.11 0.75	18 100.00 0.65
Total	1,293 46.76 100.00	1,472 53.24 100.00	2,765 100.00 100.00

Pearson $\chi^2(3) = 0.4937$ Pr = 0.920

-> study_location = Prakasam(3)

pure_assoc	gender		Total
	Male	Female	
0	835 46.73 70.88	952 53.27 70.89	1,787 100.00 70.88
1	10 62.50 0.85	6 37.50 0.45	16 100.00 0.63
2	322 46.60 27.33	369 53.40 27.48	691 100.00 27.41
3	11	16	27

	40.74	59.26	100.00
	0.93	1.19	1.07
Total	1,178	1,343	2,521
	46.73	53.27	100.00
	100.00	100.00	100.00

Pearson chi2(3) = **1.9923** Pr = **0.574**

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150 cap log close