########Bivariate Analysis with Demographic Information##########

```
> CrossTable(AgeGroup, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)


   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|


Total Observations in Table:  354


             | myopia
   AgeGroup |         1 |         2 | Row Total |
------------|-----------|-----------|-----------|
      18-21 |        86 |        68 |       154 |
            |     0.558 |     0.442 |     0.435 |
------------|-----------|-----------|-----------|
      22-25 |        70 |        52 |       122 |
            |     0.574 |     0.426 |     0.345 |
------------|-----------|-----------|-----------|
      26-29 |        35 |        15 |        50 |
            |     0.700 |     0.300 |     0.141 |
------------|-----------|-----------|-----------|
      30-35 |        14 |        14 |        28 |
            |     0.500 |     0.500 |     0.079 |
------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
------------|-----------|-----------|-----------|


Statistics for All Table Factors


Pearson's Chi-squared test
------------------------------------------------------------
Chi^2 =  4.001001     d.f. =  3     p =  0.2613561



> CrossTable(m1_hd, myopia,
+           prop.r=T,
```

```
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)


   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|


Total Observations in Table:  354


             | myopia
      m1_hd |         1 |         2 | Row Total |
------------|-----------|-----------|-----------|
   Badarganz |         0 |         1 |         1 |
             |     0.000 |     1.000 |     0.003 |
------------|-----------|-----------|-----------|
    Bagerhat |         1 |         1 |         2 |
             |     0.500 |     0.500 |     0.006 |
------------|-----------|-----------|-----------|
     Barisal |         6 |         7 |        13 |
             |     0.462 |     0.538 |     0.037 |
------------|-----------|-----------|-----------|
       Bhola |         4 |         0 |         4 |
             |     1.000 |     0.000 |     0.011 |
------------|-----------|-----------|-----------|
       Bogra |         7 |         3 |        10 |
             |     0.700 |     0.300 |     0.028 |
------------|-----------|-----------|-----------|
     Borguna |         2 |         0 |         2 |
             |     1.000 |     0.000 |     0.006 |
------------|-----------|-----------|-----------|
Brahmenbaria |         1 |         4 |         5 |
             |     0.200 |     0.800 |     0.014 |
------------|-----------|-----------|-----------|
    Chandpur |         3 |         6 |         9 |
             |     0.333 |     0.667 |     0.025 |
------------|-----------|-----------|-----------|
  Chittagong |        14 |         3 |        17 |
             |     0.824 |     0.176 |     0.048 |
------------|-----------|-----------|-----------|
   Chuadanga |         0 |         1 |         1 |
             |     0.000 |     1.000 |     0.003 |
------------|-----------|-----------|-----------|
     Comilla |        10 |         8 |        18 |
```

	0.556	0.444	0.051
Cox's Bazar	2	0	2
	1.000	0.000	0.006
Dhaka	44	20	64
	0.688	0.312	0.181
Dinajpur	1	4	5
	0.200	0.800	0.014
Faridpur	6	3	9
	0.667	0.333	0.025
Feni	4	4	8
	0.500	0.500	0.023
Gaibandha	0	1	1
	0.000	1.000	0.003
Gazipur	3	3	6
	0.500	0.500	0.017
Gopalganz	5	2	7
	0.714	0.286	0.020
Jamalpur	4	1	5
	0.800	0.200	0.014
Jessore	3	3	6
	0.500	0.500	0.017
Jhalokathi	1	0	1
	1.000	0.000	0.003
Jhenaidah	1	1	2
	0.500	0.500	0.006
Joypurhat	0	1	1
	0.000	1.000	0.003
Kashmir	1	0	1
	1.000	0.000	0.003
Khagrachari	2	1	3
	0.667	0.333	0.008
Khulna	5	2	7
	0.714	0.286	0.020

Kishoreganz	0	2	2
	0.000	1.000	0.006
Korea	1	0	1
	1.000	0.000	0.003
Kurigram	3	0	3
	1.000	0.000	0.008
Kushtia	1	3	4
	0.250	0.750	0.011
Lalmonirhat	0	1	1
	0.000	1.000	0.003
Laxmipur	1	1	2
	0.500	0.500	0.006
Madaripur	4	7	11
	0.364	0.636	0.031
Magura	2	0	2
	1.000	0.000	0.006
Manikganz	2	2	4
	0.500	0.500	0.011
Modhupur	0	1	1
	0.000	1.000	0.003
Mohonganz	0	1	1
	0.000	1.000	0.003
Mongla	1	0	1
	1.000	0.000	0.003
Munshiganz	6	2	8
	0.750	0.250	0.023
Mymensingh	6	2	8
	0.750	0.250	0.023
Naogaon	0	2	2
	0.000	1.000	0.006
Narail	1	1	2
	0.500	0.500	0.006
Narayanganz	3	3	6
	0.500	0.500	0.017

Natore	0	3	3
	0.000	1.000	0.008
Netrokona	0	2	2
	0.000	1.000	0.006
Nilphamari	1	0	1
	1.000	0.000	0.003
Noakhali	4	5	9
	0.444	0.556	0.025
Norsingdi	3	3	6
	0.500	0.500	0.017
Nowga	0	1	1
	0.000	1.000	0.003
Pabna	3	3	6
	0.500	0.500	0.017
Panchagor	2	0	2
	1.000	0.000	0.006
Patuakhali	2	1	3
	0.667	0.333	0.008
Pirojpur	2	2	4
	0.500	0.500	0.011
Rajbari	2	2	4
	0.500	0.500	0.011
Rajshahi	1	2	3
	0.333	0.667	0.008
Rangpur	3	2	5
	0.600	0.400	0.014
Santahar	1	0	1
	1.000	0.000	0.003
Satkhira	0	2	2
	0.000	1.000	0.006
Shariatpur	1	2	3
	0.333	0.667	0.008
Shoriatpur	2	0	2

```
             |     1.000 |     0.000 |     0.006 |
-------------|-----------|-----------|-----------|
   Sirajganz |         0 |         3 |         3 |
             |     0.000 |     1.000 |     0.008 |
-------------|-----------|-----------|-----------|
     Syedpur |         0 |         1 |         1 |
             |     0.000 |     1.000 |     0.003 |
-------------|-----------|-----------|-----------|
      Sylhet |         4 |         4 |         8 |
             |     0.500 |     0.500 |     0.023 |
-------------|-----------|-----------|-----------|
     Tangail |         9 |         3 |        12 |
             |     0.750 |     0.250 |     0.034 |
-------------|-----------|-----------|-----------|
  Thakurgaon |         4 |         0 |         4 |
             |     1.000 |     0.000 |     0.011 |
-------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
-------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

```
------------------------------------------------------------
Chi^2 =  81.63498     d.f. =  65     p =  0.07961148
```

Warning message:
In chisq.test(t, correct = FALSE, ...) :
  Chi-squared approximation may be incorrect

```
> CrossTable(m1_marital, myopia,
+            prop.r=T,
+            prop.t=F,
+            prop.c=F,
+            prop.chisq=F,
+            chisq=T)
```

```
   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

```
             | myopia
  m1_marital |         1 |         2 | Row Total |
-------------|-----------|-----------|-----------|
           1 |        43 |        29 |        72 |
             |     0.597 |     0.403 |     0.203 |
-------------|-----------|-----------|-----------|
           2 |       157 |       111 |       268 |
             |     0.586 |     0.414 |     0.757 |
-------------|-----------|-----------|-----------|
           3 |         2 |         5 |         7 |
             |     0.286 |     0.714 |     0.020 |
-------------|-----------|-----------|-----------|
           4 |         3 |         4 |         7 |
             |     0.429 |     0.571 |     0.020 |
-------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
-------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

```
------------------------------------------------------------
Chi^2 =  3.269374     d.f. =  3     p =  0.351928
```

Warning message:
In chisq.test(t, correct = FALSE, ...) :
  Chi-squared approximation may be incorrect

```
> CrossTable(m1_preg, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)
```

```
   Cell Contents
|-------------------------|
|                       N |
|         N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

```
             | myopia
    m1_preg |         1 |         2 | Row Total |
------------|-----------|-----------|-----------|
          1 |        11 |         9 |        20 |
            |     0.550 |     0.450 |     0.056 |
------------|-----------|-----------|-----------|
          2 |        85 |        75 |       160 |
            |     0.531 |     0.469 |     0.452 |
------------|-----------|-----------|-----------|
          3 |       109 |        65 |       174 |
            |     0.626 |     0.374 |     0.492 |
------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

```
------------------------------------------------------------
Chi^2 =  3.17206     d.f. =  2     p =  0.2047368
```

```
> CrossTable(m1_edu, myopia,
+            prop.r=T,
+            prop.t=F,
+            prop.c=F,
+            prop.chisq=F,
+            chisq=T)
```

```
   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

```
             | myopia
     m1_edu |         1 |         2 | Row Total |
------------|-----------|-----------|-----------|
          3 |        66 |        54 |       120 |
            |     0.550 |     0.450 |     0.339 |
------------|-----------|-----------|-----------|
          4 |       139 |        95 |       234 |
```

```
             |     0.594 |     0.406 |     0.661 |
-------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
-------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

```
------------------------------------------------------------
Chi^2 =  0.630526     d.f. =  1     p =  0.4271625
```

Pearson's Chi-squared test with Yates' continuity correction

```
------------------------------------------------------------
Chi^2 =  0.4628688     d.f. =  1     p =  0.4962863
```

```
> CrossTable(m1_dad_edu, myopia,
+            prop.r=T,
+            prop.t=F,
+            prop.c=F,
+            prop.chisq=F,
+            chisq=T)
```

```
   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

```
             | myopia
  m1_dad_edu |         1 |         2 | Row Total |
-------------|-----------|-----------|-----------|
           1 |         1 |         0 |         1 |
             |     1.000 |     0.000 |     0.003 |
-------------|-----------|-----------|-----------|
           2 |         3 |         5 |         8 |
             |     0.375 |     0.625 |     0.023 |
-------------|-----------|-----------|-----------|
           3 |        28 |        19 |        47 |
             |     0.596 |     0.404 |     0.133 |
-------------|-----------|-----------|-----------|
           4 |       166 |       118 |       284 |
             |     0.585 |     0.415 |     0.802 |
```

```
-------------|-----------|-----------|-----------|
           5 |         6 |         6 |        12 |
             |     0.500 |     0.500 |     0.034 |
-------------|-----------|-----------|-----------|
           6 |         1 |         1 |         2 |
             |     0.500 |     0.500 |     0.006 |
-------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
-------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

```
------------------------------------------------------------
Chi^2 =  2.540909     d.f. =  5     p =  0.7703219
```

Warning message:
In chisq.test(t, correct = FALSE, ...) :
  Chi-squared approximation may be incorrect

```
> CrossTable(m1_dad_occup, myopia,
+            prop.r=T,
+            prop.t=F,
+            prop.c=F,
+            prop.chisq=F,
+            chisq=T)
```

```
   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

```
             | myopia
m1_dad_occup |         1 |         2 | Row Total |
-------------|-----------|-----------|-----------|
           1 |        44 |        34 |        78 |
             |     0.564 |     0.436 |     0.220 |
-------------|-----------|-----------|-----------|
           2 |        46 |        30 |        76 |
             |     0.605 |     0.395 |     0.215 |
-------------|-----------|-----------|-----------|
```

```
          3 |        84 |        64 |       148 |
            |     0.568 |     0.432 |     0.418 |
------------|-----------|-----------|-----------|
          4 |         7 |         8 |        15 |
            |     0.467 |     0.533 |     0.042 |
------------|-----------|-----------|-----------|
          5 |        23 |        13 |        36 |
            |     0.639 |     0.361 |     0.102 |
------------|-----------|-----------|-----------|
          6 |         1 |         0 |         1 |
            |     1.000 |     0.000 |     0.003 |
------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

```
------------------------------------------------------------
Chi^2 =  2.398894     d.f. =  5     p =  0.7916388
```

Warning message:
In chisq.test(t, correct = FALSE, ...) :
  Chi-squared approximation may be incorrect

```
> CrossTable(m1_mom_edu, myopia,
+            prop.r=T,
+            prop.t=F,
+            prop.c=F,
+            prop.chisq=F,
+            chisq=T)
```

```
   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

```
             | myopia
  m1_mom_edu |         1 |         2 | Row Total |
-------------|-----------|-----------|-----------|
           1 |         3 |         4 |         7 |
```

```
             |     0.429 |     0.571 |     0.020 |
-------------|-----------|-----------|-----------|
           2 |        14 |        16 |        30 |
             |     0.467 |     0.533 |     0.085 |
-------------|-----------|-----------|-----------|
           3 |        57 |        47 |       104 |
             |     0.548 |     0.452 |     0.294 |
-------------|-----------|-----------|-----------|
           4 |       122 |        78 |       200 |
             |     0.610 |     0.390 |     0.565 |
-------------|-----------|-----------|-----------|
           5 |         8 |         3 |        11 |
             |     0.727 |     0.273 |     0.031 |
-------------|-----------|-----------|-----------|
           6 |         1 |         1 |         2 |
             |     0.500 |     0.500 |     0.006 |
-------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
-------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

```
------------------------------------------------------------
Chi^2 =  4.442881     d.f. =  5     p =  0.4875619
```

Warning message:
In chisq.test(t, correct = FALSE, ...) :
  Chi-squared approximation may be incorrect

```
> CrossTable(m1_mom_occup, myopia,
+            prop.r=T,
+            prop.t=F,
+            prop.c=F,
+            prop.chisq=F,
+            chisq=T)
```

```
   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

```
             | myopia
m1_mom_occup |         1 |         2 | Row Total |
-------------|-----------|-----------|-----------|
           1 |        24 |        12 |        36 |
             |     0.667 |     0.333 |     0.102 |
-------------|-----------|-----------|-----------|
           2 |        28 |        15 |        43 |
             |     0.651 |     0.349 |     0.121 |
-------------|-----------|-----------|-----------|
           3 |       129 |       104 |       233 |
             |     0.554 |     0.446 |     0.658 |
-------------|-----------|-----------|-----------|
           4 |         4 |         4 |         8 |
             |     0.500 |     0.500 |     0.023 |
-------------|-----------|-----------|-----------|
           5 |         6 |         6 |        12 |
             |     0.500 |     0.500 |     0.034 |
-------------|-----------|-----------|-----------|
           6 |        14 |         8 |        22 |
             |     0.636 |     0.364 |     0.062 |
-------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
-------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

```
------------------------------------------------------------
Chi^2 =  3.47726     d.f. =  5     p =  0.6268312
```

Warning message:
In chisq.test(t, correct = FALSE, ...) :
  Chi-squared approximation may be incorrect

```
> CrossTable(m1_fin_cond, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)
```

```
   Cell Contents
|-------------------------|
|                       N |
|         N / Row Total |
```

```
|-------------------------|

Total Observations in Table:  354


             | myopia
 m1_fin_cond |         1 |         2 | Row Total |
-------------|-----------|-----------|-----------|
           1 |        31 |        13 |        44 |
             |     0.705 |     0.295 |     0.124 |
-------------|-----------|-----------|-----------|
           2 |        80 |        69 |       149 |
             |     0.537 |     0.463 |     0.421 |
-------------|-----------|-----------|-----------|
           3 |        83 |        59 |       142 |
             |     0.585 |     0.415 |     0.401 |
-------------|-----------|-----------|-----------|
           4 |         7 |         8 |        15 |
             |     0.467 |     0.533 |     0.042 |
-------------|-----------|-----------|-----------|
           5 |         4 |         0 |         4 |
             |     1.000 |     0.000 |     0.011 |
-------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
-------------|-----------|-----------|-----------|

Statistics for All Table Factors


Pearson's Chi-squared test
------------------------------------------------------------
Chi^2 =  7.630926     d.f. =  4     p =  0.1060727



Warning message:
In chisq.test(t, correct = FALSE, ...) :
  Chi-squared approximation may be incorrect
> CrossTable(m1_fam_type, myopia,
+            prop.r=T,
+            prop.t=F,
+            prop.c=F,
+            prop.chisq=F,
+            chisq=T)


   Cell Contents
|-------------------------|
```

| N |
N / Row Total

Total Observations in Table: 354

| myopia
m1_fam_type	1	2	Row Total
1	120	83	203
	0.591	0.409	0.573
2	76	58	134
	0.567	0.433	0.379
3	8	6	14
	0.571	0.429	0.040
4	1	2	3
	0.333	0.667	0.008
Column Total	205	149	354

Statistics for All Table Factors

Pearson's Chi-squared test

Chi^2 = 0.9457095   d.f. = 3   p = 0.8143854

Warning message:
In chisq.test(t, correct = FALSE, ...) :
  Chi-squared approximation may be incorrect

########Bivariate Analysis with Socio-economic Information##########

```
> CrossTable(Myopia_DED$FamMemGroup, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)


   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|


Total Observations in Table:  354


                    | myopia
Myopia_DED$FamMemGroup |         1 |         2 | Row Total |
-----------------------|-----------|-----------|-----------|
             Below 5 |        69 |        61 |       130 |
                     |     0.531 |     0.469 |     0.367 |
-----------------------|-----------|-----------|-----------|
                 5-7 |        98 |        48 |       146 |
                     |     0.671 |     0.329 |     0.412 |
-----------------------|-----------|-----------|-----------|
           8 or More |        38 |        40 |        78 |
                     |     0.487 |     0.513 |     0.220 |
-----------------------|-----------|-----------|-----------|
         Column Total |       205 |       149 |       354 |
-----------------------|-----------|-----------|-----------|


Statistics for All Table Factors


Pearson's Chi-squared test
------------------------------------------------------------
Chi^2 =  9.034199     d.f. =  2     p =  0.01092065



> CrossTable(Myopia_DED$ChildGroup, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
```

```
+           chisq=T)


   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|


Total Observations in Table:  354


                    | myopia
Myopia_DED$ChildGroup |         1 |         2 | Row Total |
----------------------|-----------|-----------|-----------|
             Below 2 |       143 |        98 |       241 |
                     |     0.593 |     0.407 |     0.681 |
----------------------|-----------|-----------|-----------|
                2-4 |        55 |        45 |       100 |
                     |     0.550 |     0.450 |     0.282 |
----------------------|-----------|-----------|-----------|
           5 or More |         7 |         6 |        13 |
                     |     0.538 |     0.462 |     0.037 |
----------------------|-----------|-----------|-----------|
         Column Total |       205 |       149 |       354 |
----------------------|-----------|-----------|-----------|


Statistics for All Table Factors


Pearson's Chi-squared test
------------------------------------------------------------
Chi^2 =  0.636586     d.f. =  2     p =  0.7273896



> CrossTable(Myopia_DED$OlderGroup, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)


   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
```

```
|-------------------------|

Total Observations in Table:  354


                    | myopia
Myopia_DED$OlderGroup |         1 |         2 | Row Total |
----------------------|-----------|-----------|-----------|
            Below 3 |       196 |       138 |       334 |
                    |     0.587 |     0.413 |     0.944 |
----------------------|-----------|-----------|-----------|
          3 or More |         9 |        11 |        20 |
                    |     0.450 |     0.550 |     0.056 |
----------------------|-----------|-----------|-----------|
       Column Total |       205 |       149 |       354 |
----------------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

```
------------------------------------------------------------
Chi^2 =  1.449369     d.f. =  1     p =  0.2286292
```

Pearson's Chi-squared test with Yates' continuity correction

```
------------------------------------------------------------
Chi^2 =  0.9423704     d.f. =  1     p =  0.331669


> CrossTable(Myopia_DED$EarningGroup, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)


   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|

Total Observations in Table:  354


                     | myopia
```

```
Myopia_DED$EarningGroup |         1 |         2 | Row Total |
------------------------|-----------|-----------|-----------|
              Below 3 |       115 |        99 |       214 |
                      |     0.537 |     0.463 |     0.605 |
------------------------|-----------|-----------|-----------|
                  3-7 |        87 |        43 |       130 |
                      |     0.669 |     0.331 |     0.367 |
------------------------|-----------|-----------|-----------|
            8 or More |         3 |         7 |        10 |
                      |     0.300 |     0.700 |     0.028 |
------------------------|-----------|-----------|-----------|
          Column Total |       205 |       149 |       354 |
------------------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

```
------------------------------------------------------------
Chi^2 =  9.056448     d.f. =  2     p =  0.01079984
```

Warning message:
In chisq.test(t, correct = FALSE, ...) :
  Chi-squared approximation may be incorrect

```
> CrossTable(Myopia_DED$IncomeGroup, myopia,
+            prop.r=T,
+            prop.t=F,
+            prop.c=F,
+            prop.chisq=F,
+            chisq=T)
```

```
   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

```
                     | myopia
Myopia_DED$IncomeGroup |         1 |         2 | Row Total |
-----------------------|-----------|-----------|-----------|
         Below 100000 |        54 |        56 |       110 |
                      |     0.491 |     0.509 |     0.311 |
```

100000-200000	93	57	150
	0.620	0.380	0.424
200001-400000	49	22	71
	0.690	0.310	0.201
400001 or More	9	14	23
	0.391	0.609	0.065
Column Total	205	149	354

Statistics for All Table Factors

Pearson's Chi-squared test

Chi^2 = 11.45893 d.f. = 3 p = 0.00948633

########Bivariate Analysis with Clinical Treatment Information##########

```
CrossTable(m3a_cdc, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)


   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|


Total Observations in Table:  354


             | myopia
    m3a_cdc |         1 |         2 | Row Total |
------------|-----------|-----------|-----------|
          1 |        73 |        40 |       113 |
            |     0.646 |     0.354 |     0.319 |
------------|-----------|-----------|-----------|
          2 |       132 |       109 |       241 |
            |     0.548 |     0.452 |     0.681 |
------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
------------|-----------|-----------|-----------|


Statistics for All Table Factors


Pearson's Chi-squared test
------------------------------------------------------------
Chi^2 =  3.049751     d.f. =  1     p =  0.08074952

Pearson's Chi-squared test with Yates' continuity correction
------------------------------------------------------------
Chi^2 =  2.659792     d.f. =  1     p =  0.1029142


> CrossTable(m3a_diabetes, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
```

```
+           chisq=T)


   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|

Total Observations in Table:  354


             | myopia
m3a_diabetes |         1 |         2 | Row Total |
-------------|-----------|-----------|-----------|
           1 |        20 |        12 |        32 |
             |     0.625 |     0.375 |     0.090 |
-------------|-----------|-----------|-----------|
           2 |       185 |       137 |       322 |
             |     0.575 |     0.425 |     0.910 |
-------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
-------------|-----------|-----------|-----------|

Statistics for All Table Factors


Pearson's Chi-squared test
------------------------------------------------------------
Chi^2 =  0.3041333     d.f. =  1     p =  0.5813027

Pearson's Chi-squared test with Yates' continuity correction
------------------------------------------------------------
Chi^2 =  0.1323261     d.f. =  1     p =  0.7160323


> CrossTable(m3a_ckd, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)


   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
```

```
|-------------------------|

Total Observations in Table:  354


             | myopia
    m3a_ckd |         1 |         2 | Row Total |
------------|-----------|-----------|-----------|
          1 |         4 |         2 |         6 |
            |     0.667 |     0.333 |     0.017 |
------------|-----------|-----------|-----------|
          2 |       201 |       147 |       348 |
            |     0.578 |     0.422 |     0.983 |
------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
------------|-----------|-----------|-----------|


Statistics for All Table Factors


Pearson's Chi-squared test
------------------------------------------------------------
Chi^2 =  0.1920253     d.f. =  1     p =  0.6612363

Pearson's Chi-squared test with Yates' continuity correction
------------------------------------------------------------
Chi^2 =  0.000449591     d.f. =  1     p =  0.9830833


Warning messages:
1: In chisq.test(t, correct = TRUE, ...) :
  Chi-squared approximation may be incorrect
2: In chisq.test(t, correct = FALSE, ...) :
  Chi-squared approximation may be incorrect
> CrossTable(m3a_chd, myopia,
+            prop.r=T,
+            prop.t=F,
+            prop.c=F,
+            prop.chisq=F,
+            chisq=T)


   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

	myopia		
m3a_chd	1	2	Row Total
1	4	4	8
	0.500	0.500	0.023
2	201	145	346
	0.581	0.419	0.977
Column Total	205	149	354

Statistics for All Table Factors

Pearson's Chi-squared test

Chi^2 = 0.2100841   d.f. = 1   p = 0.6467015

Pearson's Chi-squared test with Yates' continuity correction

Chi^2 = 0.009248957   d.f. = 1   p = 0.9233844

Warning messages:
1: In chisq.test(t, correct = TRUE, ...) :
  Chi-squared approximation may be incorrect
2: In chisq.test(t, correct = FALSE, ...) :
  Chi-squared approximation may be incorrect

```
> CrossTable(m3a_htn, myopia,
+            prop.r=T,
+            prop.t=F,
+            prop.c=F,
+            prop.chisq=F,
+            chisq=T)
```

   Cell Contents
|-------------------------|
| N |
N / Row Total

Total Observations in Table: 354

```
             | myopia
    m3a_htn |         1 |         2 | Row Total |
------------|-----------|-----------|-----------|
          1 |        49 |        27 |        76 |
            |     0.645 |     0.355 |     0.215 |
------------|-----------|-----------|-----------|
          2 |       156 |       122 |       278 |
            |     0.561 |     0.439 |     0.785 |
------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

```
------------------------------------------------------------
Chi^2 =  1.710748     d.f. =  1     p =  0.1908883
```

Pearson's Chi-squared test with Yates' continuity correction

```
------------------------------------------------------------
Chi^2 =  1.385009     d.f. =  1     p =  0.2392498
```

```
> CrossTable(m3a_stroke, myopia,
+            prop.r=T,
+            prop.t=F,
+            prop.c=F,
+            prop.chisq=F,
+            chisq=T)
```

```
   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

```
             | myopia
  m3a_stroke |         1 |         2 | Row Total |
-------------|-----------|-----------|-----------|
           1 |         1 |         2 |         3 |
             |     0.333 |     0.667 |     0.008 |
```

```
-------------|-----------|-----------|-----------|
           2 |       204 |       147 |       351 |
             |     0.581 |     0.419 |     0.992 |
-------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
-------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

```
------------------------------------------------------------
Chi^2 =  0.7497488     d.f. =  1     p =  0.3865558
```

Pearson's Chi-squared test with Yates' continuity correction

```
------------------------------------------------------------
Chi^2 =  0.07765928     d.f. =  1     p =  0.7804949
```

Warning messages:

```
1: In chisq.test(t, correct = TRUE, ...) :
  Chi-squared approximation may be incorrect
2: In chisq.test(t, correct = FALSE, ...) :
  Chi-squared approximation may be incorrect
> CrossTable(m3a_resp, myopia,
+            prop.r=T,
+            prop.t=F,
+            prop.c=F,
+            prop.chisq=F,
+            chisq=T)
```

```
   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

```
             | myopia
   m3a_resp |         1 |         2 | Row Total |
-------------|-----------|-----------|-----------|
           1 |        41 |        13 |        54 |
             |     0.759 |     0.241 |     0.153 |
-------------|-----------|-----------|-----------|
           2 |       164 |       136 |       300 |
```

```
             |     0.547 |     0.453 |     0.847 |
-------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
-------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

```
------------------------------------------------------------
Chi^2 =  8.485441     d.f. =  1     p =  0.003579998
```

Pearson's Chi-squared test with Yates' continuity correction

```
------------------------------------------------------------
Chi^2 =  7.635657     d.f. =  1     p =  0.005722555
```

```
> CrossTable(m3a_other, myopia,
+            prop.r=T,
+            prop.t=F,
+            prop.c=F,
+            prop.chisq=F,
+            chisq=T)
```

```
   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

```
             | myopia
  m3a_other |         1 |         2 | Row Total |
------------|-----------|-----------|-----------|
          1 |        11 |        15 |        26 |
            |     0.423 |     0.577 |     0.073 |
------------|-----------|-----------|-----------|
          2 |       194 |       134 |       328 |
            |     0.591 |     0.409 |     0.927 |
------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

Chi^2 = 2.802366   d.f. = 1   p = 0.09412533

Pearson's Chi-squared test with Yates' continuity correction

Chi^2 = 2.154108   d.f. = 1   p = 0.142189

```
> CrossTable(m3b_ocu_inf, myopia,
+            prop.r=T,
+            prop.t=F,
+            prop.c=F,
+            prop.chisq=F,
+            chisq=T)
```

```
   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

	myopia		
m3b_ocu_inf	1	2	Row Total
1	71	17	88
	0.807	0.193	0.249
2	134	132	266
	0.504	0.496	0.751
Column Total	205	149	354

Statistics for All Table Factors

Pearson's Chi-squared test

Chi^2 = 24.91616   d.f. = 1   p = 5.987824e-07

Pearson's Chi-squared test with Yates' continuity correction

```
-------------------------------------------------------------
Chi^2 =  23.68833     d.f. =  1     p =  1.132675e-06


> CrossTable(m3b_all_conj, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)


   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|


Total Observations in Table:  354


             | myopia
m3b_all_conj |         1 |         2 | Row Total |
-------------|-----------|-----------|-----------|
           1 |        88 |        54 |       142 |
             |     0.620 |     0.380 |     0.401 |
-------------|-----------|-----------|-----------|
           2 |       117 |        95 |       212 |
             |     0.552 |     0.448 |     0.599 |
-------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
-------------|-----------|-----------|-----------|


Statistics for All Table Factors


Pearson's Chi-squared test
-------------------------------------------------------------
Chi^2 =  1.605279     d.f. =  1     p =  0.2051568

Pearson's Chi-squared test with Yates' continuity correction
-------------------------------------------------------------
Chi^2 =  1.339049     d.f. =  1     p =  0.2472017


> CrossTable(m3b_other_prob, myopia,
+           prop.r=T,
+           prop.t=F,
```

```
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)


   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|


Total Observations in Table:  354


               | myopia
m3b_other_prob |         1 |         2 | Row Total |
---------------|-----------|-----------|-----------|
             1 |        20 |        12 |        32 |
               |     0.625 |     0.375 |     0.090 |
---------------|-----------|-----------|-----------|
             2 |       185 |       137 |       322 |
               |     0.575 |     0.425 |     0.910 |
---------------|-----------|-----------|-----------|
  Column Total |       205 |       149 |       354 |
---------------|-----------|-----------|-----------|


Statistics for All Table Factors


Pearson's Chi-squared test
------------------------------------------------------------
Chi^2 =  0.3041333     d.f. =  1     p =  0.5813027

Pearson's Chi-squared test with Yates' continuity correction
------------------------------------------------------------
Chi^2 =  0.1323261     d.f. =  1     p =  0.7160323


> CrossTable(m3a_med_cdc, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)


   Cell Contents
|-------------------------|
```

```
|                   N |
|         N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

```
             | myopia
 m3a_med_cdc |         1 |         2 | Row Total |
-------------|-----------|-----------|-----------|
           1 |        56 |        33 |        89 |
             |     0.629 |     0.371 |     0.251 |
-------------|-----------|-----------|-----------|
           2 |       149 |       116 |       265 |
             |     0.562 |     0.438 |     0.749 |
-------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
-------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

Chi^2 = 1.225156   d.f. = 1   p = 0.2683511

Pearson's Chi-squared test with Yates' continuity correction

Chi^2 = 0.9658802   d.f. = 1   p = 0.3257098

```
> CrossTable(m3b_anthis, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)
```

```
   Cell Contents
|-------------------------|
|                   N |
|         N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

```
             | myopia
  m3b_anthis |         1 |         2 | Row Total |
-------------|-----------|-----------|-----------|
           1 |        77 |        37 |       114 |
             |     0.675 |     0.325 |     0.322 |
-------------|-----------|-----------|-----------|
           2 |       128 |       112 |       240 |
             |     0.533 |     0.467 |     0.678 |
-------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
-------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

```
------------------------------------------------------------
Chi^2 =  6.403237     d.f. =  1     p =  0.01139125
```

Pearson's Chi-squared test with Yates' continuity correction

```
------------------------------------------------------------
Chi^2 =  5.833497     d.f. =  1     p =  0.01572384
```

```
> CrossTable(m3b_antchol, myopia,
+            prop.r=T,
+            prop.t=F,
+            prop.c=F,
+            prop.chisq=F,
+            chisq=T)
```

```
   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

```
             | myopia
 m3b_antchol |         1 |         2 | Row Total |
-------------|-----------|-----------|-----------|
           1 |        44 |        24 |        68 |
             |     0.647 |     0.353 |     0.192 |
-------------|-----------|-----------|-----------|
```

```
          2 |       160 |       125 |       285 |
            |     0.561 |     0.439 |     0.805 |
------------|-----------|-----------|-----------|
          4 |         1 |         0 |         1 |
            |     1.000 |     0.000 |     0.003 |
------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

```
------------------------------------------------------------
Chi^2 =  2.381436     d.f. =  2     p =  0.3040029
```

Warning message:
In chisq.test(t, correct = FALSE, ...) :
  Chi-squared approximation may be incorrect

```
> CrossTable(m3b_tsteroid, myopia,
+            prop.r=T,
+            prop.t=F,
+            prop.c=F,
+            prop.chisq=F,
+            chisq=T)
```

```
   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

```
             | myopia
m3b_tsteroid |         1 |         2 | Row Total |
-------------|-----------|-----------|-----------|
           1 |        26 |         9 |        35 |
             |     0.743 |     0.257 |     0.099 |
-------------|-----------|-----------|-----------|
           2 |       179 |       140 |       319 |
             |     0.561 |     0.439 |     0.901 |
-------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
```

```
-------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

```
------------------------------------------------------------
Chi^2 =  4.27335     d.f. =  1     p =  0.03871453
```

Pearson's Chi-squared test with Yates' continuity correction

```
------------------------------------------------------------
Chi^2 =  3.560298     d.f. =  1     p =  0.05917711
```

```
> CrossTable(m3b_antglc, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)
```

```
   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

```
             | myopia
  m3b_antglc |         1 |         2 | Row Total |
-------------|-----------|-----------|-----------|
           1 |        13 |         9 |        22 |
             |     0.591 |     0.409 |     0.062 |
-------------|-----------|-----------|-----------|
           2 |       192 |       140 |       332 |
             |     0.578 |     0.422 |     0.938 |
-------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
-------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

```
-----------------------------------------------------------
Chi^2 =  0.01343006     d.f. =  1     p =  0.9077412

Pearson's Chi-squared test with Yates' continuity correction
-----------------------------------------------------------
Chi^2 =  5.884426e-31     d.f. =  1     p =  1


> CrossTable(m3b_other, myopia,
+            prop.r=T,
+            prop.t=F,
+            prop.c=F,
+            prop.chisq=F,
+            chisq=T)


   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|


Total Observations in Table:  354


             | myopia
  m3b_other |         1 |         2 | Row Total |
------------|-----------|-----------|-----------|
          1 |        10 |         9 |        19 |
            |     0.526 |     0.474 |     0.054 |
------------|-----------|-----------|-----------|
          2 |       195 |       140 |       335 |
            |     0.582 |     0.418 |     0.946 |
------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
------------|-----------|-----------|-----------|


Statistics for All Table Factors


Pearson's Chi-squared test
-----------------------------------------------------------
Chi^2 =  0.2294676     d.f. =  1     p =  0.6319189

Pearson's Chi-squared test with Yates' continuity correction
-----------------------------------------------------------
Chi^2 =  0.05769056     d.f. =  1     p =  0.8101841
```

```
> CrossTable(m3a1_hcdc, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)


   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|


Total Observations in Table:  354


             | myopia
  m3a1_hcdc |         1 |         2 | Row Total |
------------|-----------|-----------|-----------|
          1 |       148 |       100 |       248 |
            |     0.597 |     0.403 |     0.701 |
------------|-----------|-----------|-----------|
          2 |        57 |        49 |       106 |
            |     0.538 |     0.462 |     0.299 |
------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
------------|-----------|-----------|-----------|


Statistics for All Table Factors


Pearson's Chi-squared test
------------------------------------------------------------
Chi^2 =  1.061913     d.f. =  1     p =  0.3027792

Pearson's Chi-squared test with Yates' continuity correction
------------------------------------------------------------
Chi^2 =  0.8335103     d.f. =  1     p =  0.3612594


> CrossTable(m3a1_wcdc, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)
```

```
   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

```
             | myopia
  m3a1_wcdc |         1 |         2 | Row Total |
------------|-----------|-----------|-----------|
          1 |        20 |        26 |        46 |
            |     0.435 |     0.565 |     0.130 |
------------|-----------|-----------|-----------|
          2 |        58 |        40 |        98 |
            |     0.592 |     0.408 |     0.277 |
------------|-----------|-----------|-----------|
          3 |        83 |        39 |       122 |
            |     0.680 |     0.320 |     0.345 |
------------|-----------|-----------|-----------|
          4 |        44 |        44 |        88 |
            |     0.500 |     0.500 |     0.249 |
------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

```
------------------------------------------------------------
Chi^2 =  11.3837     d.f. =  3     p =  0.0098221
```

```
> CrossTable(m3a1_diabetes, myopia,
+            prop.r=T,
+            prop.t=F,
+            prop.c=F,
+            prop.chisq=F,
+            chisq=T)
```

```
   Cell Contents
|-------------------------|
|                       N |
```

```
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

```
             | myopia
m3a1_diabetes |         1 |         2 | Row Total |
--------------|-----------|-----------|-----------|
            1 |        95 |        59 |       154 |
              |     0.617 |     0.383 |     0.435 |
--------------|-----------|-----------|-----------|
            2 |       110 |        90 |       200 |
              |     0.550 |     0.450 |     0.565 |
--------------|-----------|-----------|-----------|
 Column Total |       205 |       149 |       354 |
--------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

```
------------------------------------------------------------
Chi^2 =  1.596787     d.f. =  1     p =  0.2063592
```

Pearson's Chi-squared test with Yates' continuity correction

```
------------------------------------------------------------
Chi^2 =  1.334176     d.f. =  1     p =  0.2480637
```

```
> CrossTable(m3a1_ckd, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)
```

```
   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

```
             | myopia
   m3a1_ckd |         1 |         2 | Row Total |
------------|-----------|-----------|-----------|
          1 |        16 |        10 |        26 |
            |     0.615 |     0.385 |     0.073 |
------------|-----------|-----------|-----------|
          2 |       188 |       139 |       327 |
            |     0.575 |     0.425 |     0.924 |
------------|-----------|-----------|-----------|
          3 |         1 |         0 |         1 |
            |     1.000 |     0.000 |     0.003 |
------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

```
------------------------------------------------------------
Chi^2 =  0.8906544     d.f. =  2     p =  0.6406146
```

Warning message:
In chisq.test(t, correct = FALSE, ...) :
  Chi-squared approximation may be incorrect

```
> CrossTable(m3a1_chd, myopia,
+            prop.r=T,
+            prop.t=F,
+            prop.c=F,
+            prop.chisq=F,
+            chisq=T)
```

```
   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

```
             | myopia
   m3a1_chd |         1 |         2 | Row Total |
------------|-----------|-----------|-----------|
          1 |        31 |        11 |        42 |
```

```
             |     0.738 |     0.262 |     0.119 |
-------------|-----------|-----------|-----------|
           2 |       173 |       138 |       311 |
             |     0.556 |     0.444 |     0.879 |
-------------|-----------|-----------|-----------|
           3 |         1 |         0 |         1 |
             |     1.000 |     0.000 |     0.003 |
-------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
-------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

```
------------------------------------------------------------
Chi^2 =  5.747796     d.f. =  2     p =  0.05647834
```

Warning message:
In chisq.test(t, correct = FALSE, ...) :
  Chi-squared approximation may be incorrect

```
> CrossTable(m3a1_htn, myopia,
+            prop.r=T,
+            prop.t=F,
+            prop.c=F,
+            prop.chisq=F,
+            chisq=T)
```

```
   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

```
             | myopia
   m3a1_htn |         1 |         2 | Row Total |
------------|-----------|-----------|-----------|
           1 |       103 |        71 |       174 |
             |     0.592 |     0.408 |     0.492 |
------------|-----------|-----------|-----------|
           2 |       102 |        78 |       180 |
             |     0.567 |     0.433 |     0.508 |
```

```
------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

```
------------------------------------------------------------
Chi^2 =  0.2321089     d.f. =  1     p =  0.6299645
```

Pearson's Chi-squared test with Yates' continuity correction

```
------------------------------------------------------------
Chi^2 =  0.139956     d.f. =  1     p =  0.7083247
```

```
> CrossTable(m3a1_stroke, myopia,
+            prop.r=T,
+            prop.t=F,
+            prop.c=F,
+            prop.chisq=F,
+            chisq=T)
```

```
   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

```
             | myopia
 m3a1_stroke |         1 |         2 | Row Total |
-------------|-----------|-----------|-----------|
           1 |        25 |        23 |        48 |
             |     0.521 |     0.479 |     0.136 |
-------------|-----------|-----------|-----------|
           2 |       179 |       126 |       305 |
             |     0.587 |     0.413 |     0.862 |
-------------|-----------|-----------|-----------|
           3 |         1 |         0 |         1 |
             |     1.000 |     0.000 |     0.003 |
-------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
-------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

Chi^2 = 1.471229   d.f. = 2   p = 0.4792108

Warning message:
In chisq.test(t, correct = FALSE, ...) :
  Chi-squared approximation may be incorrect
> CrossTable(m3a1_resp, myopia,
+   prop.r=T,
+   prop.t=F,
+   prop.c=F,
+   prop.chisq=F,
+   chisq=T)

   Cell Contents
|-------------------------|
| N |
N / Row Total

Total Observations in Table: 354

| myopia
m3a1_resp	1	2	Row Total
1	51	38	89
0.573	0.427	0.251
2	153	111	264
0.580	0.420	0.746
3	1	0	1
1.000	0.000	0.003
Column Total	205	149	354

Statistics for All Table Factors

Pearson's Chi-squared test

Chi^2 = 0.7404675 d.f. = 2 p = 0.6905729

Warning message:
In chisq.test(t, correct = FALSE, ...) :
Chi-squared approximation may be incorrect

```
> CrossTable(m3a1_other, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)
```

Cell Contents

|-------------------------|
| N |
N / Row Total

Total Observations in Table: 354

	myopia		
m3a1_other	1	2	Row Total
1	16	10	26
	0.615	0.385	0.073
2	188	139	327
	0.575	0.425	0.924
3	1	0	1
	1.000	0.000	0.003
Column Total	205	149	354

Statistics for All Table Factors

Pearson's Chi-squared test

Chi^2 = 0.8906544 d.f. = 2 p = 0.6406146

```
Warning message:
In chisq.test(t, correct = FALSE, ...) :
  Chi-squared approximation may be incorrect
> CrossTable(m3_otl6m, myopia,
+            prop.r=T,
+            prop.t=F,
+            prop.c=F,
+            prop.chisq=F,
+            chisq=T)


   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|


Total Observations in Table:  353


             | myopia
   m3_otl6m |         1 |         2 | Row Total |
------------|-----------|-----------|-----------|
           1 |        95 |        30 |       125 |
             |     0.760 |     0.240 |     0.354 |
------------|-----------|-----------|-----------|
           2 |       110 |       118 |       228 |
             |     0.482 |     0.518 |     0.646 |
------------|-----------|-----------|-----------|
Column Total |       205 |       148 |       353 |
------------|-----------|-----------|-----------|


Statistics for All Table Factors


Pearson's Chi-squared test
------------------------------------------------------------
Chi^2 =  25.54273     d.f. =  1     p =  4.326943e-07

Pearson's Chi-squared test with Yates' continuity correction
------------------------------------------------------------
Chi^2 =  24.41555     d.f. =  1     p =  7.763963e-07
```

########Bivariate Analysis with MQ Domain 1: Refractive Error##########

```
> CrossTable(m4d1_wg, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)


   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|


Total Observations in Table:  354


             | myopia
    m4d1_wg |         1 |         2 | Row Total |
------------|-----------|-----------|-----------|
          1 |       202 |        56 |       258 |
            |     0.783 |     0.217 |     0.729 |
------------|-----------|-----------|-----------|
          2 |         3 |        93 |        96 |
            |     0.031 |     0.969 |     0.271 |
------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
------------|-----------|-----------|-----------|


Statistics for All Table Factors


Pearson's Chi-squared test
------------------------------------------------------------
Chi^2 =  162.1953     d.f. =  1     p =  3.74993e-37

Pearson's Chi-squared test with Yates' continuity correction
------------------------------------------------------------
Chi^2 =  159.126     d.f. =  1     p =  1.756351e-36


> CrossTable(m4d1_wgcos, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
```

```
+           prop.chisq=F,
+           chisq=T)


   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|


Total Observations in Table:  354


             | myopia
  m4d1_wgcos |         1 |         2 | Row Total |
-------------|-----------|-----------|-----------|
           1 |        91 |        31 |       122 |
             |     0.746 |     0.254 |     0.345 |
-------------|-----------|-----------|-----------|
           2 |       114 |       118 |       232 |
             |     0.491 |     0.509 |     0.655 |
-------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
-------------|-----------|-----------|-----------|


Statistics for All Table Factors


Pearson's Chi-squared test
------------------------------------------------------------
Chi^2 =  21.25019     d.f. =  1     p =  4.030714e-06

Pearson's Chi-squared test with Yates' continuity correction
------------------------------------------------------------
Chi^2 =  20.21879     d.f. =  1     p =  6.907105e-06


> CrossTable(m4d1_wgrer, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)


   Cell Contents
|-------------------------|
|                       N |
```

```
|           N / Row Total |
|-------------------------|

Total Observations in Table:  354


             | myopia
  m4d1_wgrer |         1 |         2 | Row Total |
-------------|-----------|-----------|-----------|
           1 |       145 |        28 |       173 |
             |     0.838 |     0.162 |     0.489 |
-------------|-----------|-----------|-----------|
           2 |        60 |       121 |       181 |
             |     0.331 |     0.669 |     0.511 |
-------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
-------------|-----------|-----------|-----------|

Statistics for All Table Factors


Pearson's Chi-squared test
------------------------------------------------------------
Chi^2 =  93.15767     d.f. =  1     p =  4.829e-22

Pearson's Chi-squared test with Yates' continuity correction
------------------------------------------------------------
Chi^2 =  91.09061     d.f. =  1     p =  1.372413e-21


> CrossTable(m4d1_wgthep, myopia,
+            prop.r=T,
+            prop.t=F,
+            prop.c=F,
+            prop.chisq=F,
+            chisq=T)


   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|

Total Observations in Table:  354
```

```
             | myopia
 m4d1_wgthep |         1 |         2 | Row Total |
-------------|-----------|-----------|-----------|
           1 |        99 |         8 |       107 |
             |     0.925 |     0.075 |     0.302 |
-------------|-----------|-----------|-----------|
           2 |       106 |       141 |       247 |
             |     0.429 |     0.571 |     0.698 |
-------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
-------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

```
------------------------------------------------------------
Chi^2 =  75.37964     d.f. =  1     p =  3.88375e-18
```

Pearson's Chi-squared test with Yates' continuity correction

```
------------------------------------------------------------
Chi^2 =  73.35811     d.f. =  1     p =  1.081371e-17
```

```
> CrossTable(m4d1_wcl, myopia,
+            prop.r=T,
+            prop.t=F,
+            prop.c=F,
+            prop.chisq=F,
+            chisq=T)
```

```
   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

```
             | myopia
   m4d1_wcl |         1 |         2 | Row Total |
------------|-----------|-----------|-----------|
          1 |        96 |        28 |       124 |
            |     0.774 |     0.226 |     0.350 |
------------|-----------|-----------|-----------|
          2 |       109 |       121 |       230 |
```

```
             |     0.474 |     0.526 |     0.650 |
-------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
-------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

```
------------------------------------------------------------
Chi^2 =  29.80348     d.f. =  1     p =  4.781338e-08
```

Pearson's Chi-squared test with Yates' continuity correction

```
------------------------------------------------------------
Chi^2 =  28.58426     d.f. =  1     p =  8.970861e-08
```

```
> CrossTable(m4d1_wclcos, myopia,
+            prop.r=T,
+            prop.t=F,
+            prop.c=F,
+            prop.chisq=F,
+            chisq=T)
```

```
   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

```
             | myopia
 m4d1_wclcos |         1 |         2 | Row Total |
-------------|-----------|-----------|-----------|
           1 |        65 |        18 |        83 |
             |     0.783 |     0.217 |     0.234 |
-------------|-----------|-----------|-----------|
           2 |       140 |       131 |       271 |
             |     0.517 |     0.483 |     0.766 |
-------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
-------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

```
Pearson's Chi-squared test
------------------------------------------------------------
Chi^2 =  18.518     d.f. =  1     p =  1.683071e-05

Pearson's Chi-squared test with Yates' continuity correction
------------------------------------------------------------
Chi^2 =  17.44067     d.f. =  1     p =  2.964154e-05


> CrossTable(m4d1_wclrer, myopia,
+            prop.r=T,
+            prop.t=F,
+            prop.c=F,
+            prop.chisq=F,
+            chisq=T)


   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|


Total Observations in Table:  354


             | myopia
 m4d1_wclrer |         1 |         2 | Row Total |
-------------|-----------|-----------|-----------|
           1 |        37 |        11 |        48 |
             |     0.771 |     0.229 |     0.136 |
-------------|-----------|-----------|-----------|
           2 |       168 |       138 |       306 |
             |     0.549 |     0.451 |     0.864 |
-------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
-------------|-----------|-----------|-----------|


Statistics for All Table Factors


Pearson's Chi-squared test
------------------------------------------------------------
Chi^2 =  8.375344     d.f. =  1     p =  0.003803457

Pearson's Chi-squared test with Yates' continuity correction
```

```
-------------------------------------------------------------
Chi^2 =  7.490035     d.f. =  1     p =  0.006204134


> CrossTable(m4d1_wclthep, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)


   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|


Total Observations in Table:  354


             | myopia
m4d1_wclthep |         1 |         2 | Row Total |
-------------|-----------|-----------|-----------|
           1 |        18 |         3 |        21 |
             |     0.857 |     0.143 |     0.059 |
-------------|-----------|-----------|-----------|
           2 |       187 |       146 |       333 |
             |     0.562 |     0.438 |     0.941 |
-------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
-------------|-----------|-----------|-----------|


Statistics for All Table Factors


Pearson's Chi-squared test
-------------------------------------------------------------
Chi^2 =  7.080771     d.f. =  1     p =  0.007791547

Pearson's Chi-squared test with Yates' continuity correction
-------------------------------------------------------------
Chi^2 =  5.920021     d.f. =  1     p =  0.01496978


> CrossTable(m4d1_tcls, myopia,
+           prop.r=T,
+           prop.t=F,
```

```
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)


   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|


Total Observations in Table:  354


             | myopia
   m4d1_tcls |         1 |         2 | Row Total |
-------------|-----------|-----------|-----------|
           1 |        53 |        21 |        74 |
             |     0.716 |     0.284 |     0.209 |
-------------|-----------|-----------|-----------|
           2 |       152 |       128 |       280 |
             |     0.543 |     0.457 |     0.791 |
-------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
-------------|-----------|-----------|-----------|


Statistics for All Table Factors


Pearson's Chi-squared test
------------------------------------------------------------
Chi^2 =  7.216823     d.f. =  1     p =  0.007222344

Pearson's Chi-squared test with Yates' continuity correction
------------------------------------------------------------
Chi^2 =  6.523111     d.f. =  1     p =  0.01064816


> CrossTable(m4d1_tclr, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)


   Cell Contents
|-------------------------|
```

```
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

```
             | myopia
  m4d1_tclr |         1 |         2 | Row Total |
------------|-----------|-----------|-----------|
          1 |        30 |         7 |        37 |
            |     0.811 |     0.189 |     0.105 |
------------|-----------|-----------|-----------|
          2 |       175 |       142 |       317 |
            |     0.552 |     0.448 |     0.895 |
------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

```
------------------------------------------------------------
Chi^2 =  9.101638     d.f. =  1     p =  0.002553808
```

Pearson's Chi-squared test with Yates' continuity correction

```
------------------------------------------------------------
Chi^2 =  8.070986     d.f. =  1     p =  0.004497963
```

```
> CrossTable(m4d1_tclthep, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)
```

```
   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

	myopia		
m4d1_tclthep	1	2	Row Total
1	33	3	36
	0.917	0.083	0.102
2	171	146	317
	0.539	0.461	0.895
3	1	0	1
	1.000	0.000	0.003
Column Total	205	149	354

Statistics for All Table Factors

Pearson's Chi-squared test

Chi^2 = 19.60342 d.f. = 2 p = 5.53568e-05

Warning message:
In chisq.test(t, correct = FALSE, ...) :
Chi-squared approximation may be incorrect

########Bivariate Analysis with MQ Domain 2: Family History##########

```
> CrossTable(m4d2_pm, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)


   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|


Total Observations in Table:  354


             | myopia
    m4d2_pm |         1 |         2 | Row Total |
------------|-----------|-----------|-----------|
          1 |       121 |        91 |       212 |
            |     0.571 |     0.429 |     0.599 |
------------|-----------|-----------|-----------|
          2 |        84 |        58 |       142 |
            |     0.592 |     0.408 |     0.401 |
------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
------------|-----------|-----------|-----------|


Statistics for All Table Factors


Pearson's Chi-squared test
------------------------------------------------------------
Chi^2 =  0.1508647     d.f. =  1     p =  0.6977104

Pearson's Chi-squared test with Yates' continuity correction
------------------------------------------------------------
Chi^2 =  0.07761249     d.f. =  1     p =  0.7805593


> CrossTable(m4d2_who, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
```

```
+           chisq=T)


   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|

Total Observations in Table:  354


             | myopia
   m4d2_who |         1 |         2 | Row Total |
------------|-----------|-----------|-----------|
          1 |        28 |        28 |        56 |
            |     0.500 |     0.500 |     0.158 |
------------|-----------|-----------|-----------|
          2 |        39 |        38 |        77 |
            |     0.506 |     0.494 |     0.218 |
------------|-----------|-----------|-----------|
          3 |        68 |        38 |       106 |
            |     0.642 |     0.358 |     0.299 |
------------|-----------|-----------|-----------|
          4 |        70 |        45 |       115 |
            |     0.609 |     0.391 |     0.325 |
------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
------------|-----------|-----------|-----------|

Statistics for All Table Factors


Pearson's Chi-squared test
------------------------------------------------------------
Chi^2 =  5.209956     d.f. =  3     p =  0.1570531



> CrossTable(m4d2_glau, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)


   Cell Contents
```

```
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

```
             | myopia
   m4d2_glau |         1 |         2 | Row Total |
-------------|-----------|-----------|-----------|
           1 |        36 |        33 |        69 |
             |     0.522 |     0.478 |     0.195 |
-------------|-----------|-----------|-----------|
           2 |       169 |       116 |       285 |
             |     0.593 |     0.407 |     0.805 |
-------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
-------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

Chi^2 = 1.156766   d.f. = 1   p = 0.2821373

Pearson's Chi-squared test with Yates' continuity correction

Chi^2 = 0.8829417   d.f. = 1   p = 0.3473972

```
> CrossTable(m4d2_cata, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)
```

```
   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

```
             | myopia
  m4d2_cata |         1 |         2 | Row Total |
------------|-----------|-----------|-----------|
          1 |        35 |        45 |        80 |
            |     0.438 |     0.562 |     0.226 |
------------|-----------|-----------|-----------|
          2 |       170 |       104 |       274 |
            |     0.620 |     0.380 |     0.774 |
------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

```
------------------------------------------------------------
Chi^2 =  8.501809     d.f. =  1     p =  0.003547936
```

Pearson's Chi-squared test with Yates' continuity correction

```
------------------------------------------------------------
Chi^2 =  7.767839     d.f. =  1     p =  0.005318464
```

```
> CrossTable(m4d2_retdis, myopia,
+            prop.r=T,
+            prop.t=F,
+            prop.c=F,
+            prop.chisq=F,
+            chisq=T)
```

```
   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

```
             | myopia
 m4d2_retdis |         1 |         2 | Row Total |
-------------|-----------|-----------|-----------|
           1 |        24 |        24 |        48 |
             |     0.500 |     0.500 |     0.136 |
-------------|-----------|-----------|-----------|
           2 |       181 |       125 |       306 |
```

```
             |     0.592 |     0.408 |     0.864 |
-------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
-------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

```
------------------------------------------------------------
Chi^2 =  1.425276     d.f. =  1     p =  0.2325369
```

Pearson's Chi-squared test with Yates' continuity correction

```
------------------------------------------------------------
Chi^2 =  1.074588     d.f. =  1     p =  0.2999113
```

```
> CrossTable(m4d2_kerat, myopia,
+            prop.r=T,
+            prop.t=F,
+            prop.c=F,
+            prop.chisq=F,
+            chisq=T)
```

```
   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

```
             | myopia
  m4d2_kerat |         1 |         2 | Row Total |
-------------|-----------|-----------|-----------|
           1 |        12 |         8 |        20 |
             |     0.600 |     0.400 |     0.056 |
-------------|-----------|-----------|-----------|
           2 |       193 |       141 |       334 |
             |     0.578 |     0.422 |     0.944 |
-------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
-------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

Chi^2 = 0.03800232   d.f. = 1   p = 0.8454385

Pearson's Chi-squared test with Yates' continuity correction

Chi^2 = 6.201551e-31   d.f. = 1   p = 1

```
> CrossTable(m4d2_other, myopia,
+            prop.r=T,
+            prop.t=F,
+            prop.c=F,
+            prop.chisq=F,
+            chisq=T)
```

```
   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

	myopia		
m4d2_other	1	2	Row Total
1	83	47	130
	0.638	0.362	0.367
2	122	102	224
	0.545	0.455	0.633
Column Total	205	149	354

Statistics for All Table Factors

Pearson's Chi-squared test

Chi^2 = 2.970525   d.f. = 1   p = 0.08479435
Pearson's Chi-squared test with Yates' continuity correction

Chi^2 = 2.598086   d.f. = 1   p = 0.1069928

########Bivariate Analysis with MQ Domain 3: Near Work##########

```
> CrossTable(m4d3_ghlap, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)


   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|


Total Observations in Table:  354


             | myopia
  m4d3_ghlap |         1 |         2 | Row Total |
-------------|-----------|-----------|-----------|
           1 |       195 |       140 |       335 |
             |     0.582 |     0.418 |     0.946 |
-------------|-----------|-----------|-----------|
           2 |        10 |         9 |        19 |
             |     0.526 |     0.474 |     0.054 |
-------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
-------------|-----------|-----------|-----------|


Statistics for All Table Factors


Pearson's Chi-squared test
------------------------------------------------------------
Chi^2 =  0.2294676     d.f. =  1     p =  0.6319189

Pearson's Chi-squared test with Yates' continuity correction
------------------------------------------------------------
Chi^2 =  0.05769056     d.f. =  1     p =  0.8101841


> CrossTable(m4d3_ghmob, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
```

```
+           prop.chisq=F,
+           chisq=T)


   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|


Total Observations in Table:  354


             | myopia
  m4d3_ghmob |         1 |         2 | Row Total |
-------------|-----------|-----------|-----------|
           1 |       204 |       149 |       353 |
             |     0.578 |     0.422 |     0.997 |
-------------|-----------|-----------|-----------|
           2 |         1 |         0 |         1 |
             |     1.000 |     0.000 |     0.003 |
-------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
-------------|-----------|-----------|-----------|


Statistics for All Table Factors


Pearson's Chi-squared test
------------------------------------------------------------
Chi^2 =  0.7288883     d.f. =  1     p =  0.3932438

Pearson's Chi-squared test with Yates' continuity correction
------------------------------------------------------------
Chi^2 =  1.24634e-30     d.f. =  1     p =  1


Warning messages:
1: In chisq.test(t, correct = TRUE, ...) :
  Chi-squared approximation may be incorrect
2: In chisq.test(t, correct = FALSE, ...) :
  Chi-squared approximation may be incorrect
> CrossTable(m4d3_ghtab, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)
```

```
   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|


Total Observations in Table:  354


             | myopia
  m4d3_ghtab |         1 |         2 | Row Total |
-------------|-----------|-----------|-----------|
           1 |        93 |        55 |       148 |
             |     0.628 |     0.372 |     0.418 |
-------------|-----------|-----------|-----------|
           2 |       112 |        94 |       206 |
             |     0.544 |     0.456 |     0.582 |
-------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
-------------|-----------|-----------|-----------|


Statistics for All Table Factors


Pearson's Chi-squared test
------------------------------------------------------------
Chi^2 =  2.534234     d.f. =  1     p =  0.111401

Pearson's Chi-squared test with Yates' continuity correction
------------------------------------------------------------
Chi^2 =  2.198692     d.f. =  1     p =  0.1381279


> CrossTable(ddts, myopia,
+            prop.r=T,
+            prop.t=F,
+            prop.c=F,
+            prop.chisq=F,
+            chisq=T)


   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

	myopia		
ddts	1	2	Row Total
1	9	24	33
	0.273	0.727	0.093
2	86	55	141
	0.610	0.390	0.398
3	109	70	179
	0.609	0.391	0.506
5	1	0	1
	1.000	0.000	0.003
Column Total	205	149	354

Statistics for All Table Factors

Pearson's Chi-squared test

Chi^2 = 14.63856   d.f. = 3   p = 0.002153085

Warning message:
In chisq.test(t, correct = FALSE, ...) :
  Chi-squared approximation may be incorrect
> CrossTable(m4d3_concern, myopia,
+   prop.r=T,
+   prop.t=F,
+   prop.c=F,
+   prop.chisq=F,
+   chisq=T)

   Cell Contents
|-------------------------|
| N |
N / Row Total

Total Observations in Table: 354

	myopia		
m4d3_concern	1	2	Row Total
0	1	0	1
	1.000	0.000	0.003
1	40	32	72
	0.556	0.444	0.203
2	46	28	74
	0.622	0.378	0.209
3	5	6	11
	0.455	0.545	0.031
4	61	41	102
	0.598	0.402	0.288
5	52	42	94
	0.553	0.447	0.266
Column Total	205	149	354

Statistics for All Table Factors

Pearson's Chi-squared test

Chi^2 = 2.548596   d.f. = 5   p = 0.7691593

Warning message:
In chisq.test(t, correct = FALSE, ...) :
  Chi-squared approximation may be incorrect

########Bivariate Analysis with MQ Domain 4: Outdoor Activities##########

```
> CrossTable(Myopia_DED$OAWeekdaysGroup, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)


   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|


Total Observations in Table:  354


                          | myopia
Myopia_DED$OAWeekdaysGroup |         1 |         2 | Row Total |
---------------------------|-----------|-----------|-----------|
               Below 2hrs |        65 |        51 |       116 |
                          |     0.560 |     0.440 |     0.328 |
---------------------------|-----------|-----------|-----------|
                2hrs-4hrs |       100 |        61 |       161 |
                          |     0.621 |     0.379 |     0.455 |
---------------------------|-----------|-----------|-----------|
              5hrs or More |        40 |        37 |        77 |
                          |     0.519 |     0.481 |     0.218 |
---------------------------|-----------|-----------|-----------|
              Column Total |       205 |       149 |       354 |
---------------------------|-----------|-----------|-----------|


Statistics for All Table Factors


Pearson's Chi-squared test
------------------------------------------------------------
Chi^2 =  2.456458     d.f. =  2     p =  0.2928106



> CrossTable(Myopia_DED$OAWeekendGroup, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
```

```
+           chisq=T)


   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|

Total Observations in Table:  354


                     | myopia
Myopia_DED$OAWeekendGroup |         1 |         2 | Row Total |
--------------------------|-----------|-----------|-----------|
              Below 4hrs |       106 |        71 |       177 |
                         |     0.599 |     0.401 |     0.500 |
--------------------------|-----------|-----------|-----------|
              4hrs-8hrs |        68 |        57 |       125 |
                         |     0.544 |     0.456 |     0.353 |
--------------------------|-----------|-----------|-----------|
              8hrs-12hrs |        23 |        13 |        36 |
                         |     0.639 |     0.361 |     0.102 |
--------------------------|-----------|-----------|-----------|
           12hrs or More |         8 |         8 |        16 |
                         |     0.500 |     0.500 |     0.045 |
--------------------------|-----------|-----------|-----------|
            Column Total |       205 |       149 |       354 |
--------------------------|-----------|-----------|-----------|

Statistics for All Table Factors


Pearson's Chi-squared test
------------------------------------------------------------
Chi^2 =  1.854329     d.f. =  3     p =  0.6031843



> CrossTable(m4d4_exc, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)


   Cell Contents
```

```
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

```
             | myopia
   m4d4_exc |         1 |         2 | Row Total |
------------|-----------|-----------|-----------|
           1 |        62 |        57 |       119 |
             |     0.521 |     0.479 |     0.336 |
------------|-----------|-----------|-----------|
           2 |       143 |        92 |       235 |
             |     0.609 |     0.391 |     0.664 |
------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

Chi^2 = 2.481511   d.f. = 1   p = 0.1151915

Pearson's Chi-squared test with Yates' continuity correction

Chi^2 = 2.135502   d.f. = 1   p = 0.1439233

```
> CrossTable(m4d4_jog, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)
```

```
   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

```
             | myopia
   m4d4_jog |         1 |         2 | Row Total |
------------|-----------|-----------|-----------|
           1 |        59 |        42 |       101 |
             |     0.584 |     0.416 |     0.285 |
------------|-----------|-----------|-----------|
           2 |       146 |       107 |       253 |
             |     0.577 |     0.423 |     0.715 |
------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

Chi^2 = 0.01485862 d.f. = 1 p = 0.9029814

Pearson's Chi-squared test with Yates' continuity correction

Chi^2 = 7.256734e-06 d.f. = 1 p = 0.9978506

```
> CrossTable(m4d4_swim, myopia,
+            prop.r=T,
+            prop.t=F,
+            prop.c=F,
+            prop.chisq=F,
+            chisq=T)
```

```
   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

```
             | myopia
  m4d4_swim |         1 |         2 | Row Total |
------------|-----------|-----------|-----------|
           1 |        27 |        15 |        42 |
             |     0.643 |     0.357 |     0.119 |
```

```
-------------|-----------|-----------|-----------|
           2 |       178 |       134 |       312 |
             |     0.571 |     0.429 |     0.881 |
-------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
-------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

```
------------------------------------------------------------
Chi^2 =  0.7948331     d.f. =  1     p =  0.3726427
```

Pearson's Chi-squared test with Yates' continuity correction

```
------------------------------------------------------------
Chi^2 =  0.5257363     d.f. =  1     p =  0.4684049
```

```
> CrossTable(m4d4_cyc, myopia,
+            prop.r=T,
+            prop.t=F,
+            prop.c=F,
+            prop.chisq=F,
+            chisq=T)
```

```
   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

```
             | myopia
   m4d4_cyc |         1 |         2 | Row Total |
------------|-----------|-----------|-----------|
           1 |        45 |        19 |        64 |
             |     0.703 |     0.297 |     0.181 |
------------|-----------|-----------|-----------|
           2 |       160 |       130 |       290 |
             |     0.552 |     0.448 |     0.819 |
------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

Chi^2 = 4.930578 d.f. = 1 p = 0.0263855

Pearson's Chi-squared test with Yates' continuity correction

Chi^2 = 4.328993 d.f. = 1 p = 0.03746841

```
> CrossTable(m4d4_run, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)
```

```
   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

	myopia		
m4d4_run	1	2	Row Total
1	25	21	46
	0.543	0.457	0.130
2	180	128	308
	0.584	0.416	0.870
Column Total	205	149	354

Statistics for All Table Factors

Pearson's Chi-squared test

Chi^2 = 0.275176 d.f. = 1 p = 0.5998806

Pearson's Chi-squared test with Yates' continuity correction

Chi^2 = 0.132851   d.f. = 1   p = 0.7154942

```
> CrossTable(m4d4_sports, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)
```

```
   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|
```

Total Observations in Table: 354

```
             | myopia
 m4d4_sports |         1 |         2 | Row Total |
-------------|-----------|-----------|-----------|
           1 |        20 |        12 |        32 |
             |     0.625 |     0.375 |     0.090 |
-------------|-----------|-----------|-----------|
           2 |       185 |       137 |       322 |
             |     0.575 |     0.425 |     0.910 |
-------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
-------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

Chi^2 = 0.3041333   d.f. = 1   p = 0.5813027

Pearson's Chi-squared test with Yates' continuity correction

Chi^2 = 0.1323261   d.f. = 1   p = 0.7160323

```
> CrossTable(m4d4_pra, myopia,
```

```
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)


   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|


Total Observations in Table:  354


             | myopia
   m4d4_pra |         1 |         2 | Row Total |
------------|-----------|-----------|-----------|
          1 |       124 |        87 |       211 |
            |     0.588 |     0.412 |     0.596 |
------------|-----------|-----------|-----------|
          2 |        81 |        62 |       143 |
            |     0.566 |     0.434 |     0.404 |
------------|-----------|-----------|-----------|
Column Total |       205 |       149 |       354 |
------------|-----------|-----------|-----------|


Statistics for All Table Factors


Pearson's Chi-squared test
------------------------------------------------------------
Chi^2 =  0.1578195     d.f. =  1     p =  0.691172

Pearson's Chi-squared test with Yates' continuity correction
------------------------------------------------------------
Chi^2 =  0.08269526     d.f. =  1     p =  0.7736776


> CrossTable(m4d4_other, myopia,
+           prop.r=T,
+           prop.t=F,
+           prop.c=F,
+           prop.chisq=F,
+           chisq=T)
```

Cell Contents
|-------------------------|
| N |
N / Row Total

Total Observations in Table: 354

| myopia
m4d4_other	1	2	Row Total
1	82	42	124
	0.661	0.339	0.350
2	123	107	230
	0.535	0.465	0.650
Column Total	205	149	354

Statistics for All Table Factors

Pearson's Chi-squared test

Chi^2 = 5.28989   d.f. = 1   p = 0.02144957

Pearson's Chi-squared test with Yates' continuity correction

Chi^2 = 4.783602   d.f. = 1   p = 0.02873196

```
########Bivariate Analysis with DEQ5##########

##########Categorize the DEQ5 Questionnaire Score##########
Myopia_DED$DEDGroup<- cut(Myopia_DED$score,
                          breaks=c(-Inf,7,12,16,Inf),
                          labels=c('0-6',
                                   '7-11',
                                   '12-15',
                                   '16-22'),
                          right=FALSE)

#####Rename Categorical labels####
Myopia_DED %>%
  mutate(DEDGroup= fct_recode(DEDGroup,
                          'No'= '0-6',
                          'Mild'= '7-11',
                          'Moderate'= '12-15',
                          'Severe'= '16-22')
         )

########Bivariate Analysis with DEQ5##########

> CrossTable(a$DEDGroup, myopia,
+            prop.r=T,
+            prop.t=F,
+            prop.c=F,
+            prop.chisq=F,
+            chisq=T)


   Cell Contents
|-------------------------|
|                       N |
|           N / Row Total |
|-------------------------|


Total Observations in Table:  101


             | myopia
  a$DEDGroup |         1 |         2 | Row Total |
-------------|-----------|-----------|-----------|
          No |        31 |        46 |        77 |
             |     0.403 |     0.597 |     0.762 |
-------------|-----------|-----------|-----------|
        Mild |         8 |         7 |        15 |
             |     0.533 |     0.467 |     0.149 |
-------------|-----------|-----------|-----------|
    Moderate |         5 |         2 |         7 |
```

```
             |     0.714 |     0.286 |     0.069 |
-------------|-----------|-----------|-----------|
      Severe |         2 |         0 |         2 |
             |     1.000 |     0.000 |     0.020 |
-------------|-----------|-----------|-----------|
Column Total |        46 |        55 |       101 |
-------------|-----------|-----------|-----------|
```

Statistics for All Table Factors

Pearson's Chi-squared test

Chi^2 = 5.51628 d.f. = 3 p = 0.1376681

Warning message:
In chisq.test(t, correct = FALSE, ...) :
Chi-squared approximation may be incorrect