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CPSC 375

Homework 1

1.

a.

- i. 5
- ii. ncol(esoph)

b.

- i. 88
- ii. nrow(esoph)

c.

- i. 3 categorical: agegp/alcgp/tobgp2 numeric: ncases/ncontrols
- ii. str(esoph)

d.

- i. Levels: 25-34 < 35-44 < 45-54 < 55-64 < 65-74 < 75+
- ii. esoph\$agegp

e.

- i. 0
- ii. esoph[10,4]

f.

- i. agegp alcgp tobgp ncases ncontrols 25-34 0-39g/day 0-9g/day 0 40
- ii. esoph[1,]

g.

- i. agegp alcgp tobgp ncases ncontrols
 1 25-34 0-39g/day 0-9g/day 0 40
 2 25-34 0-39g/day 10-19 0 10
 3 25-34 0-39g/day 20-29 0 6
 4 25-34 0-39g/day 30+ 0 5
 5 25-34 40-79 0-9g/day 0 27
- ii. esoph[1:5,]

h.

i. agegp alcgp tobgp ncases ncontrols 31 45-54 0-39g/day 0-9g/day 46 32 45-54 0-39g/day 10-19 18 33 45-54 0-39g/day 20-29 0 10 34 45-54 0-39g/day 30+ 4 0 35 45-54 40-79 0-9g/day 38 36 45-54 40-79 10-19 4 21 37 45-54 40-79 20-29 5 15

```
38 45-54
          40-79
                  30+
                        5
39 45-54 80-119 0-9g/day
                          3
                               16
40 45-54
         80-119 10-19
                              14
41 45-54 80-119 20-29
                         1
                              5
42 45-54 80-119
                  30+
                        2
43 45-54
          120+ 0-9g/day
                               4
44 45-54
          120+ 10-19
                              4
45 45-54
          120+ 20-29
                              3
46 45-54
          120+
                 30+
                             4
```

ii. esoph[esoph[,1] == '45-54',]

i.

- i. [1] 46 18 10 4 38 21 15 7 16 14 5 4 4 4 3 4
- ii. esoph[esoph[,1] == '45-54',5]

2.

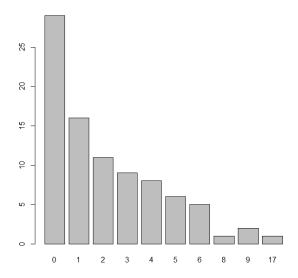
a.

- i. 2.272727
- ii. mean(esoph\$ncases)

b.

- i. [1] 2.875
- ii. mean(esoph[esoph[,1] == '45-54',4])

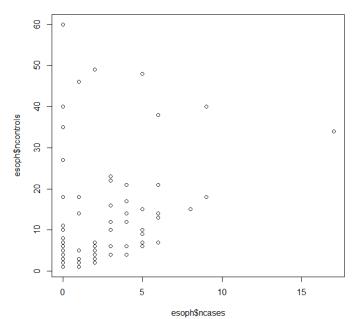
c.



ii. barplot(table(esoph[,4]))

d.

i. No, because the data set has many 0 values thus the values of ncases are not symmetrically distributed around the mean.



i. esophancases
ii. plot(esoph\$ncases,esoph\$ncontrols)

f.

