## Question 1a

|  |  | MI | No MI |
| :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { O } \\ & \text { है } \\ & \text { जn } \end{aligned}$ | Yes | 29 | 135 |
|  | No | 205 | 1607 |
|  | Total | 234 | 1742 |

The odds of having MI among OC users is 1.68 times higher than the odds of having MI among non- OC users.

## Question 1b

- Age 25-29: $\mathrm{OR}=(4 \times 224) /(2 \times 62)=7.2$
- Age $30-34: \quad \mathrm{OR}=(9 \times 390) /(12 \times 33)=8.8$
- Age $35-39: \mathrm{OR}=(4 \times 330) /(33 \times 26)=1.5$
- Age 40-44: OR $=(6 \times 362) /(65 \times 9)=3.7$
- Age 45-49: $\mathrm{OR}=(6 \times 301) /(93 \times 5)=3.9$


## Question 1c \& 1d

Part c:
The odds of using $O C=4 / 2=2$

## Part d:

The odds of having $\mathrm{MI}=9 / 33=0.27$

## Question 2a

|  |  | BC | No BC |
| :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { 人 } \\ & \frac{0}{0} \\ & 0 \\ & 0 \\ & \vdots \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ | Yes | 60 | 40 |
|  | No | 20 | 40 |
|  | Total | 80 | 80 |

Odds of exposure among cases $=a / c=60 / 20=3$

## Question 2b

|  |  | BC | No BC |
| :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { 人 } \\ & \frac{0}{0} \\ & 0 \\ & 0 \\ & \vdots \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ | Yes | 60 | 40 |
|  | No | 20 | 40 |
|  | Total | 80 | 80 |

Odds of exposure among controls $=b / d=40 / 40=1$

## Question 2c

|  |  | BC | No BC |
| :---: | :---: | :---: | :---: |
|  | Yes | 60 | 40 |
|  | No | 20 | 40 |
|  | Total | 80 | 80 |

Odds ratio $=a d / b c=(60 \times 40) /(20 \times 40)=3 / 1=3$
The odds of having bladder cancer among Yerbamate drinkers is three times higher than the odds of bladder cancer among nondrinkers.

## Question 2d

|  |  | BC | No BC |
| :---: | :---: | :---: | :---: |
|  | Yes | 60 | 40 |
|  | No | 20 | 40 |
|  | Total | 80 | 80 |

Odds of $B C$ among drinkers $=a / b=60 / 40=1.5$
Odds of BC among non-drinkers $=c / d=20 / 40=0.5$
Odds ratio $=1.5 / 0.5=3$

## Question 2e

|  |  | BC | No BC |
| :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { र } \\ & \frac{0}{\bar{o}} \\ & \frac{2}{3} \\ & \stackrel{\rightharpoonup}{0} \\ & \end{aligned}$ | Yes | 60 | 200 |
|  | No | 20 | 200 |
|  | Total | 80 | 400 |

Odds of exposure among cases $=a / c=60 / 20=3$
Odds of exposure among controls=b/d=200/200=1
Odds ratio $=3 / 1=3$
Odds of $B C$ among drinkers $=a / b=60 / 200=0.3$ Odds of BC among non-drinkers $=c / d=20 / 200=0.1$
Odds ratio $=0.3 / 0.1=3$

## Question 3

## Abstract 1

a) Study design: Case control study
b) Dependent variable: Oral cancer

I ndependent variable: human papillomavirus (HPV) infection
c) Two by Two table:

|  |  | OC | No OC |
| :---: | :---: | :---: | :---: |
| $\overline{\text { I }}$ | Yes | 14 | 6 |
|  | No | 58 | 123 |
|  | Total | 72 | 129 |

d) $\mathrm{OR}=(14 \times 123) /(58 \times 6)=4.95$

## Question 3

## Abstract 2

a) Study design: Case control study
b) Dependent variable: Hepatitis A virus (HAV) infection I ndependent variable: Attending child care, food exposure, waterborne exposure, cross border travel, other international travel and travel related activities.

## Question 3

Abstract 2
c) Two by Two table:

|  |  | HAV | No HAV |
| :---: | :---: | :---: | :---: |
|  | Yes | 88 | 89 |
|  | No | 44 | 265 |
|  | Total | 132 | 354 |

d) $O R=(88 \times 265) /(89 \times 44)=5.96$

