Question 1a

		MI	No MI
OC use	Yes	29	135
	No	205	1607
	Total	234	1742

 $OR = (29 \times 1607) / (205 \times 135) = 1.68$

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: OR = (4 x 224) / (2 x 62) = 7.2
- Age 30-34: OR = (9 x 390) / (12 x 33) = 8.8
- Age 35-39: OR = (4 x 330) / (33 x 26) = 1.5
- Age 40-44: OR = (6 x 362) / (65 x 9) = 3.7
- Age 45-49: OR = (6 x 301) / (93 x 5) = 3.9

Question 1c & 1d

Part c: The odds of using OC = 4/2 = 2

Part d: The odds of having MI = 9/33 = 0.27

Question 2a

		BC	No BC
Yer	Yes	60	40
bam	No	20	40
ate	Total	80	80

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

Question 2b

		BC	No BC
Yerbamate	Yes	60	40
	No	20	40
	Total	80	80

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

Question 2c

		BC	No BC
Yerbamate	Yes	60	40
	No	20	40
	Total	80	80

Odds ratio=ad/bc= $(60 \times 40)/(20 \times 40) = 3/1 = 3$

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
Yerbamate	Yes	60	40
	No	20	40
	Total	80	80

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

Question 2e

		BC	No BC
Yerbamate	Yes	60	200
	No	20	200
	Total	80	400

Odds of exposure among cases=a/c = 60/20 = 3Odds of exposure among controls=b/d = 200/200 = 1Odds ratio= 3/1 = 3

Odds of BC among drinkers= a/b= 60/200= 0.3Odds of BC among non-drinkers= c/d= 20/200= 0.1Odds ratio= 0.3/0.1= 3

Question 3

Abstract 1

- a) Study design: Case control study
- b) Dependent variable: Oral cancer
 Independent variable: human papillomavirus (HPV) infection

c) Two by Two table:

		OC	No OC
HPV	Yes	14	6
	No	58	123
	Total	72	129

d) OR= (14 x 123)/ (58 x 6)= 4.95

Question 3

Abstract 2

a) Study design: Case control study

b) Dependent variable: Hepatitis A virus (HAV) infection Independent 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
USA	Trav	Yes	88	89
		No	44	265
	isteid	Total	132	354
	D			

d) OR= (88 x 265)/ (89 x 44)= 5.96