**SPH3101 Practical session**

1. Populate the below table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | **Cardiovascular disease (CVD)** | | | |
|  | | **With CVD**  **(Total N = 1203)** | **Without CVD**  **(Total N = 8797)** | **p-value** | **Test used** |
|  | | Mean ± SD | Mean ± SD |  |  |
| Age (in years) | | 67.9 ± 7.1 | 68.0 ± 7.0 | 0.52 | t-test |
| BMI (kg/m2) | | 26.6 ± 4.4 | 25.2 ± 4.6 | <0.001 | t-test |
| LDL cholesterol levels (mmol/L) | | 3.3 ± 0.5 | 3.3 ± 0.6 | 0.001 | t-test |
|  |  | N (%) | N (%) |  |  |
| Gender | Female | 573 | 4445 |  | Chi-squared |
| Male | 630 | 4352 |
| Ethnicity | Chinese | 479 | 3398 |  |  |
| Malay | 350 | 2693 |
| Indian | 374 | 2706 |
| Smoking status | Daily smoker | 290 | 1190 |  |  |
| Occasional smoker | 174 | 725 |
| Ex-smoker | 102 | 1018 |
| Never smoker | 637 | 5864 |

1. Is BMI associated with CVD? Populate your results in the below table.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | **Cardiovascular disease (CVD)** | | | |
|  | | **With CVD**  **(Total N =)** | **Without CVD**  **(Total N=)** | **p-value** | **Test used** |
|  |  | N (%) | N (%) |  |  |
| Overweight | Yes |  |  |  |  |
| No |  |  |

1. Is smoking associated with BMI? Populate your results in the below table.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | **Overweight** | | | |
|  | | **Yes**  **(Total N =)** | **No**  **(Total N=)** | **p-value** | **Test used** |
|  |  | N (%) | N (%) |  |  |
| Smoker | Yes |  |  |  |  |
| No |  |  |

1. Is smoking associated with CVD? Populate your results in the below table.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | **Cardiovascular disease (CVD)** | | | |
|  | | **With CVD**  **(Total N =)** | **Without CVD**  **(Total N=)** | **p-value** | **Test used** |
|  |  | N (%) | N (%) |  |  |
| Smoker | Yes |  |  |  |  |
| No |  |  |

5. Is there a linear association between BMI and LDL cholesterol levels? Report the correlation coefficient and p value of correlation.