Graph-1: Distribution of histopathological parameters of degeneration by age groups

Table 1: Distribution of sociodemographic data according to BMI index

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
|  |  | BMI< 18.5 |  | 18.6< BMI <24.9 |  | 25.0< BMI <29.9 |  | 30.0< BMI <39.9 |  | P value |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  | n (%) |  | n (%) |  | n (%) |  | n (%) |  |  |
| gender |  |  |  |  |  |  |  |  |  | p=0.46 |
|  |  |  |  |  |  |  |  |  |  |  |
| female |  | - |  | 1(% 1.81) |  | 3(5.45) |  | 2(3.63) |  |  |
|  |  |  |  |  |  |  |  |  |
| male |  | 4 (7.27) |  | 19(34.54) |  | 19 (34.54) |  | 7(12.72) |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| age |  |  |  |  |  |  |  |  |  | p=0.86 |
|  |  |  |  |  |  |  |  |  |  |  |
| 35-65 |  | 2(3.63) |  | 12 (21.81) |  | 16(29.09) |  | 7(12.72) |  |
|  |  |  |  |  |  |  |  |  |
| 66-85 |  | 2(3.63) |  | 7(12.72) |  | 5(9.09) |  | 2(3.63) |  |
|  |  |  |  |  |  |  |  |  |
| 85 and above |  | - |  | 1(% 1.81) |  | 1(% 1.81) |  | - |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Alcohol |  |  |  |  |  |  |  |  |  | P=0.62 |
| using |  | 3(5.45) |  | 3(5.45) |  | 4(7.27) |  | 2(3.63) |  |  |
| Not using |  | 1( 1.81) |  | 17 (30.90) |  | 18(32.72) | 7(12.72) | 1( 1.81) |  |  |
| cigarette |  |  |  |  |  |  |  |  |  | p=0.16 |
| using |  | 4(7.27) |  | 15 (27.27) |   | 13(23.63) | 4(7.27) |  |  |  |
| Not using |  | - |  | 5 (9.09) |  | 9(16.36) | 5(9.09) |  |  |  |
| Disease state |  |  |  |  |  |  |  |  |  | p=0.67 |  |
| No known disease |  | 1( 1.81) |  | 7 (12.72) |  | 8 (14.54) | 2 (3.63) |  |  |  |
| CAD |  | 3(5.45) |  | 10 (18.18) |  | 10 (18.18) | 6(10.90) |  |  |  |
| CAD and COPD |  |  | - |  | 1(1.81) | 1( 1.81) | - |  |  |  |
| Psychiatric disease |  | - |  | - |  | 3(5.45) | - |  |  |  |
| Coronary artery disease (CAD), (COPD) chronic obstructive pulmonary disease |

Table 2: Results of multiple regression analysis of factors associated with claudin staining

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | β | S.E | p | OR |  | 95 % CI |
|  |  |  |  |  |  | Lower | Upper |
| Y  | -1.35 | 0.66 | 0.04 | 0.25 |  | 0.07 | 0.94 |
| A | 2.04 | 0.72 | p<0.01 | 7.73 |  | 1.87 | 31.87 |

|  |
| --- |
|  Table-3: Relationship between age groups and degeneration score, claudin score, chronic disease |
| age |  | 35-45 | 46-55  | 56-65  | 66-90  | 65 age below | 66 age above |
| Degeneration score | mean | 3.5 | 3.57 | 3.52 | 4 | 3.56 | 4 |
| Claudin score | 0.8 | 1 | 0.75 | 0.77 | 0.81 | 0.77 |
| Chronic Disease | 0.2 | 0.57 | 0.85 | 0.94 | 0.62 | 0.94 |

Graph 2: Graph showing the relationship between staining with Claudin-5 staining degree and acidophilic sarcoplasma (A) and fatty changes (Y)

 Blue line: Y, red line: A