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|  | **Training Set****N = 18,281** | **Validation Set****N = 2,592** | **Test Set****N = 5,067** |
| **Categories** | **Cirrhosis****N=3,665** | **Control****N=14,616** | **p-value** | **Cirrhosis****N=532** | **Control****N=2,060** | **p-value** | **Cirrhosis****N=1,015** | **Control****N=4,052** | **p-value** |
| **Sex** | **F** | 1,273 (34.7%) | 5,115 (35.0%) | 0.77 | 178 (33.5%) | 695 (33.7%) | 0.90 | 350 (34.5%) | 1,397 (34.5%) | 0.96 |
| **M** | 2,392 (65.3%) | 9,501 (65.0%) | 354 (66.5%) | 1365 (66.3%) | 665 (65.5%) | 2,655 (65.5%) |
| **Age** | **Median****(Q1,Q3)** | 57.0(50.0,63.0) | 57.0(50.0,63.0) | 0.73 | 57.0(50.0,62.0) | 57.0(50.0,63.0) | 0.43 | 57.0(50.0,63.0) | 57.0(50.0,63.0) | 0.89 |
| **Mean****(SD)** | 55.77 (10.0) | 55.71 (10.09) | 55.03 (10.92) | 55.44 (10.48) | 55.47 (10.30) | 55.52 (10.39) |
| **Cardiovascular disease** | 330(9.0%) | 1,681(11.5%) | <0.01 | 45(8.5%) | 250(12.1%) | <0.01 | 83(8.2%) | 456(11.3%) | <0.01 |
| **Diabetes mellitus** | 1,264(34.5%) | 2,078(14.2%) | <0.01 | 178 (33.5%) | 281 (13.6%) | <0.01 | 351 (34.6%) | 569 (14.0%) | <0.01 |
| **Hypertension** | 1,589(43.4%) | 5,784(39.6%) | <0.01 | 245 (46.1%) | 824 (40.0%) | 0.01 | 434 (42.8%) | 1589 (39.2%) | 0.04 |
| **Chronic lung disease** | 667(18.2%) | 2,463(16.9%) | 0.05 | 96(18.0%) | 338 (16.4%) | 0.37 | 192 (18.9%) | 651(16.1%) | 0.03 |
| **Chronic kidney disease** | 975(26.6%) | 1032(7.1%) | <0.01 | 149 (28.0%) | 135(6.6%) | <0.01 | 281 (27.7%) | 286(7.1%) | <0.01 |
| **Alcohol-related liver disease** | 941(25.7%) | 0(0.0%) | <0.01 | 139(26.1%) | 0(0.0%) | <0.01 | 257(25.3%) | 0(0.0%) | <0.01 |
| **NASH** | 682(18.6%) | 0(0.0%) | <0.01 | 99(18.6%) | 0(0.0%) | <0.01 | 185(18.2%) | 0(0.0%) | <0.01 |
| **Viral Hepatitis (HBV/HCV)** | 1,345(36.7%) | 0(0.0%) | <0.01 | 178(33.5%) | 0(0.0%) | <0.01 | 406(40.0%) | 0(0.0%) | <0.01 |
| **Biliary****(PBC/PSC)** | 461(12.6%) | 0(0.0%) | <0.01 | 75(14.1%) | 0(0.0%) | <0.01 | 120(11.8%) | 0(0.0%) | <0.01 |
| **Autoimmune hepatitis** | 129(3.5%) | 0(0.0%) | <0.01 | 28(5.3%) | 0(0.0%) | <0.01 | 47(4.6%) | 0(0.0%) | <0.01 |
| **Hereditary/Genetic****(A1ATD, HH, WD)** | 196(5.3%) | 0(0.0%) | <0.01 | 24(4.5%) | 0(0.0%) | <0.01 | 53(5.2%) | 0(0.0%) | <0.01 |
| **Cryptogenic** | 171(4.7%) | 0(0.0%) | <0.01 | 19(3.6%) | 0(0.0%) | <0.01 | 48(4.7%) | 0(0.0%) | <0.01 |
| **Hepatocellular carcinoma** | 1,000 (27.3%) | 0(0.0%) | <0.01 | 136(25.6%) | 0(0.0%) | <0.01 | 277(27.3%) | 0(0.0%) | <0.01 |
| **Other liver diseases** | 209(5.7%) | 0(0.0%) | <0.01 | 35(6.6%) | 0(0.0%) | <0.01 | 58(5.7%) | 0(0.0%) | <0.01 |
| **MELD Score** | **Median****(Q1,Q3)** | 18.0(13.0,24.0) | N/A |  | 17.5(13.0,24.0) | N/A |  | 18.0(12.0,24.0) | N/A |  |
| **Mean****(SD)** | 19.21(8.53) | N/A |  | 18.93(8.36) | N/A |  | 19.14(8.61) | N/A |  |

Abbreviations: A1ATD = alpha-1-antitrypsin deficiency; HBV = hepatitis B virus; HCV = hepatitis C virus; HH = hereditary hemochromatosis; PBC = primary biliary cholangitis; PSC = primary sclerosing cholangitis; WD = Wilson’s disease