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| **Supplementary Table 4.** **Associations between autosomal mosaic chromosomal alterations (mCAs) and the risk of cirrhosis with adjustment for extra covariatesc** | | | | | | |
|  | **Number of participants with mCA events/number of participants (%)** | | **Multivariable Modela** | | **Multivariable Modelb** | |
| **Individuals with cirrhosis** | **Individuals without cirrhosis** | **HR (95% CI)** | ***p* value** | **HR (95% CI)** | ***p* value** |
| **Cirrhosis** |  |  |  |  |  |  |
| All detectable mCAs | 136/2681 (5.07%) | 15834/445964 (3.55%) | 1.30 (1.09-1.55) | 0.003 | 1.29 (1.12-1.50) | 0.001 |
| Gain | 19/2564 (0.74%) | 1915/432045 (0.44%) | 1.41 (0.89-2.21) | 0.140 | 1.38 (0.95-2.02) | 0.092 |
| Loss | 24/2569 (0.93%) | 2757/432887 (0.64%) | 1.28 (0.85-1.91) | 0.236 | 1.28 (0.91-1.79) | 0.152 |
| Copy-neutral loss of heterozygosity | 69/2614 (2.64%) | 7445/437575 (1.70%) | 1.43 (1.12-1.81) | 0.004 | 1.41 (1.12-1.78) | 0.003 |
| **Compensated cirrhosis** |  |  |  |  |  |  |
| All detectable mCAs | 92/1775 (5.18%) | 15878/446870 (3.55%) | 1.34 (1.09-1.65) | 0.006 | 1.33 (1.11-1.59) | 0.002 |
| Gain | 11/1694 (0.65%) | 1923/432915 (0.44%) | 1.25 (0.69-2.26) | 0.462 | 1.20 (0.71-2.00) | 0.497 |
| Loss | 16/1699 (0.94%) | 2765/433757 (0.64%) | 1.29 (0.79-2.11 | 0.311 | 1.31 (0.87-1.97) | 0.192 |
| Copy-neutral loss of heterozygosity | 48/1731 (2.77%) | 7466/438458 (1.70%) | 1.51 (1.13-2.01) | 0.005 | 1.48 (1.12-1.95) | 0.006 |
| **Decompensated cirrhosis** |  |  |  |  |  |  |
| All detectable mCAs | 79/1706 (4.63%) | 15891/446939 (3.56%) | 1.17 (0.93-1.47) | 0.173 | 1.19 (0.98-1.45) | 0.072 |
| Gain | 12/1639 (0.73%) | 1922/432970 (0.44%) | 1.35 (0.76-2.38) | 0.305 | 1.34 (0.84-2.16) | 0.222 |
| Loss | 13/1640 (0.79%) | 2768/433816 (0.64%) | 1.07 (0.62-1.84) | 0.814 | 1.09 (0.69-1.74) | 0.703 |
| Copy-neutral loss of heterozygosity | 40/1667 (2.40%) | 7474/438552 (1.70%) | 1.29 (0.94-1.76) | 0.116 | 1.31 (0.97-1.76) | 0.079 |
|  | | | | | | |
| **a** Carrier status of mCA was carrier of mCA vs non-carrier. | | | | | | |
| **b** Carrier status of mCA was carrier of two or more mCAs vs carrier of one mCA vs non-carrier. | | | | | | |
| **c** Estimates were adjusted for age, age2, sex, Townsend Deprivation Index, smoking status, pack-year, drinking status, BMI, diabetes, the top 10 principal components of ancestry and genotyping batch. When evaluating the association between specific mCA types (i.e., copy, neutral loss of heterozygosity, gain, and loss) and risk of cirrhosis, non-carriers of any mCA. HR, hazard ratio; 95% CI, 95% confidence interval. types were set as the reference group. | | | | | | |