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|  **Supplementary Table 7.** **Associations of different types of mosaic chromosomal alterations (mCAs) with the risk of decompensated cirrhosisa,b** |
|  | **Number of participants with mCA events/number of participants (%)** | **Decompensated cirrhosis** |
| **Individuals with decompensated cirrhosis** | **Individuals without decompensated cirrhosis** | **HR (95% CI)** | ***p* value** |
| **mCA group** |  |  |  |  |
| **All detectable mCAs**  | 61/1688 (3.61%) | 11611/442659 (2.62%) | 1.23 (0.95-1.58) | 0.118 |
| Cell fraction<10%  | 40/1667 (2.40%) | 8494/439542 (1.93%) | 1.10 (0.80-1.50) | 0.560 |
| Cell fraction≥10% | 21/1648 (1.27%) | 3117/434165 (0.72%) | 1.58 (1.03-2.44) | 0.037 |
| **Mosaic copy gain** | 12/1639 (0.73%) | 1922/432970 (0.44%) | 1.35 (0.77-2.39) | 0.297 |
| Cell fraction<10%  | 7/1634 (0.43%) | 1298/432346 (0.30%) | 1.12 (0.53-2.36) | 0.764 |
| Cell fraction≥10% | 5/1632 (0.31%) | 624/431672 (0.15%) | 1.91 (0.80-4.61) | 0.147 |
| **Mosaic copy loss** | 13/1640 (0.79%) | 2768/433816 (0.64%) | 1.08 (0.63-1.86) | 0.783 |
| Cell fraction<10%  | 4/1631 (0.25%) | 1137/432185 (0.26%) | 0.81 (0.30-2.16) | 0.670 |
| Cell fraction≥10% | 9/1636 (0.55%) | 1631/432679 (0.38%) | 1.27 (0.66-2.44) | 0.477 |
| **Copy-neutral loss of heterozygosity** | 40/1667 (2.40%) | 7474/438522 (1.70%) | 1.28 (0.94-1.75) | 0.121 |
| Cell fraction<10%  | 30/1657 (1.81%) | 6289/437337 (1.44%) | 1.14 (0.80-1.64) | 0.470 |
| Cell fraction≥10% | 10/1637 (0.61%) | 1185/432233 (0.27%) | 2.03 (1.09-3.78) | 0.026 |
| *Definition of abbreviations:* HR, hazard ratio; 95% CI, 95% confidence interval; het, heterogeneity. |
| a HRs and 95% CIs were estimated using Cox proportional-hazard models with adjustment for age, age2, sex, smoking status, drinking status, the top 10 principal components of ancestry and genotyping batch. |
| b Cell fraction was not able to be estimated for a total of 4298 individuals with undetermined mCA merely. Non-carriers of any mCA types were set as the reference group.  |