Supplementary Table 4**.** Results of quality assessment using the Newcastle-Ottawa Scale for cohort study studies

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| Results of quality assessment using the Newcastle-Ottawa Scale for cohort study studies |
| Study | Selection | Comparability | Outcome | Quality score |
|  | Representative-ness of the exposed cohort  | Selection of the nonexposed cohort | Ascertainment of exposure | Demonstration that outcome interest was not present at start of study | Comparability of cohorts on the basis of the design or analysis | Assessment of outcome | Was follow-up long enough for outcomes to occur  | Adequacy of follow up of cohorts |  |
| Villa et.al (1988) | ★At least somewhat the case definition is adequate | ★ Drawn from the same institute | ☆Valid method was used to ascertain consumption of alcohol | ★Always the case | ★☆Same HBsAg serostatus not mention comparable age at baseline. | ★Laboratory methods described in detail (which assay used), indicating use of a central laboratory and/or record linkage. | ★ Yes | ☆No description | 6(moderate) |
| Guan et.al (2020) | ★At least somewhat the case definition is adequate | ★ Drawn from the same institute | ☆No description | ★Always the case | ★☆Same HBsAg serostatus not mention comparable age at baseline. | ★Laboratory methods described in detail (which assay used) indicating use of a central laboratory and/or record linkage. | ★ Yes | ☆No description | 6(moderate) |
| Lin et.al (2013) | ★At least somewhat the case definition is adequate | ★ Drawn from the same institute | ★Valid method was used to ascertain consumption of alcohol | ★Always the case | ★★Same HBsAg serostatus and comparable age at baseline. | ★Laboratory methods described in detail (which assay used), indicating use of a central laboratory and/or record linkage. | ☆No description | ☆No description | 7(low) |
| Kenji Ikeda (1998) | ★At least somewhat the case definition is adequate | ★ Drawn from the same institute | ★Valid method was used to ascertain consumption of alcohol | ★Always the case | ★★Same HBsAg serostatus and comparable age at baseline. | ★Laboratory methods described in detail (which assay used), indicating use of a central laboratory and/or record linkage. | ★ Yes | ☆no description | 8(low) |