Supplementary Table 3.Results of quality assessment using the Newcastle-Ottawa Scale for case-control studies

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| Results of quality assessment using the Newcastle-Ottawa Scale for case-control studies |
| Study | Selection | Comparability | Exposure | Scores |
|  | Adequate of definition of cases | Representativeness of the cases | Selection of controls | Definition of controls | Control for important factor | Ascertainment of exposure | Same method of ascertainment for cases and controls | No response rate |  |
| Liu Yanwei (2011) | ★At least somewhat the case definition is adequate | ★Truly representative of the average HBV infected patients in the hospital.  | ☆Patients partly presenting at the hospital, alcohol and with HBV | ★Drawn from the same hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline.  | ☆ No description | ★Yes | ★All response | 7(low) |
| Nie Li (2017) | ★At least somewhat the case definition is adequate | ★Truly representative of the average HBV infected patients in the hospital.  | ☆Patients partly presenting at the hospital, alcohol and with HBV | ☆Drawn from the different hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline.  | ★Valid method was used to ascertain consumption of alcohol | ★Yes | ★All response | 7(low) |
| Akitaka NONOMU (1986) | ★At least somewhat the case definition is adequate | ★Truly representative of the average HBV infected patients in the hospital.  | ☆Patients partly presenting at the hospital, alcohol and with HBV | ★Drawn from the same hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline.  | ★Valid method was used to ascertain consumption of alcohol | ★Yes | ★All response | 8(low) |
| Ha-lidaXiaerfuhazi (2014) | ★At least somewhat the case definition is adequate | ★Truly representative of the average HBV infected patients in the hospital. | ☆Patients partly presenting at the hospital, alcohol and with HBV | ★Drawn from the same hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline.  | ★Valid method was used to ascertain consumption of alcohol | ★Yes | ★All response | 8(low) |
| Linluying (2020) | ★At least somewhat the case definition is adequate | ☆Not truly representative of the average HBV infected patients in the hospital | ☆Patients partly presenting at the hospital, alcohol and with HBV | ★Drawn from the same hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline.  | ★Valid method was used to ascertain consumption of alcohol | ★Yes | ★All response | 7(low) |
| Houchunyang (2016) | ★At least somewhat the case definition is adequate | ☆Not truly representative of the average HBV infected patients in the hospital | ☆Patients partly presenting at the hospital, alcohol and with HBV | ★Drawn from the same hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline.  | ★Valid method was used to ascertain consumption of alcohol | ★Yes | ★All response | 7(low) |
| Chentao (2018) | ★At least somewhat the case definition is adequate | ☆Not truly representative of the average HBV infected patients in the hospital | ☆Patients partly presenting at the hospital, alcohol and with HBV | ★Drawn from the same hospital as controls | ★☆Same HBsAg serostatus | ☆ No description | ★Yes | ★All response | 5(moderate) |
| Chen Ping (2013) | ★At least somewhat the case definition is adequate | ★Truly representative of the average HBV infected patients in the hospital. | ☆Patients partly presenting at the hospital, alcohol and with HBV | ★Drawn from the same hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline.  | ★Valid method was used to ascertain consumption of alcohol | ★Yes | ★All response | 7(low) |
| Sun Haiying (2017) | ★At least somewhat the case definition is adequate | ★Truly representative of the average HBV infected patients in the hospital. | ☆Patients partly presenting at the hospital, alcohol and with HBV | ★Drawn from the same hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline.  | ☆ No description  | ★Yes | ★All response | 7(low) |
| Sun Lili (2021) | ★At least somewhat the case definition is adequate | ☆Not truly representative of the average HBV infected patients in the hospital | ☆Patients partly presenting at the hospital, alcohol and with HBV | ★Drawn from the same hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline.  | ☆ No description  | ★Yes | ★All response | 6(moderate) |
| Wang Li (2019) | ★At least somewhat the case definition is adequate | ☆Not truly representative of the average HBV infected patients in the hospital | ☆Patients partly presenting at the hospital, alcohol and with HBV | ★Drawn from the same hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline.  | ★Valid method was used to ascertain consumption of alcohol | ★Yes | ★All response | 7(low) |
| Wu Weibing(2016) | ★At least somewhat the case definition is adequate | ☆Not truly representative of the average HBV infected patients in the hospital | ☆Patients partly presenting at the hospital, alcohol and with HBV | ★Drawn from the same hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline.  | ☆ No description | ★Yes | ★All response | 6(middle) |
| Xie Ning (2021) | ★At least somewhat the case definition is adequate | ★Truly representative of the average HBV infected patients in the hospital. | ☆Patients partly presenting at the hospital, alcohol and with HBV | ★Drawn from the same hospital as controls | ★☆Same HBsAg serostatus | ☆ No description  | ★Yes | ★All response | 6(high) |
| ZhanChunling（2016） | ★At least somewhat the case definition is adequate | ★Truly representative of the average HBV infected patients in the hospital. | ☆Patients partly presenting at the hospital, alcohol and with HBV | ★Drawn from the same hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline. | ☆ No description  | ★Yes | ★All response | 7(low) |

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| Zhang Rui (2021) | ★At least somewhat the case definition is adequate | ★Truly representative of the average HBV infected patients in the hospital. | ☆Patients partly presenting at the hospital, alcohol and with HBV | ★Drawn from the same hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline.  | ☆ No description | ★Yes | ★All response | 7(low) |
| Zhang Yuanqing (2015) | ★At least somewhat the case definition is adequate | ★Truly representative of the average HBV infected patients in the hospital. | ☆Patients partly presenting at the hospital, alcohol and with HBV | ☆Drawn from the different hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline.  | ☆ No description  | ★Yes | ★All response | 6(moderate) |
| Oh Sang Kwon (2010) | ★At least somewhat the case definition is adequate | ★Truly representative of the average HBV infected patients in the hospital. | ☆Patients partly presenting at the hospital, alcohol and with HBV | ★Drawn from the same hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline.  | ☆ No description  | ★Yes | ★All response | 7(low) |
| Bai Shenhuan(2021) | ★At least somewhat the case definition is adequate | ☆Not truly representative of the average HBV infected patients in the hospital. | ☆Patients partly presenting at the hospital, alcohol and with HBV | ★Drawn from the same hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline.  | ★Valid method was used to ascertain consumption of alcohol | ★Yes | ★All response | 7(low) |
| YU Lu (2015) | ★At least somewhat the case definition is adequate | ☆Not truly representative of the average HBV infected patients in the hospital. | ★Patients presenting at the hospital, alcohol and with HBV | ★Drawn from the same hospital as controls | ★☆Same HBsAg serostatus | ☆ No description | ★Yes | ★All response | 6(moderate) |
| KUNlHlKO OHNISHI (1982) | ★At least somewhat the case definition is adequate | ★Truly representative of the average HBV infected patients in the hospital. | ☆Patients partly presenting at the hospital, alcohol and with HBV | ★Drawn from the same hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline. | ★Valid method was used to ascertain consumption of alcohol | ★Yes | ★All response | 8(low) |
| Wu Chunxiao(2015) | ★At least somewhat the case definition is adequate | ☆Not truly representative of the average HBV infected patients in the hospital. | ☆Patients partly presenting at the hospital, alcohol and with HBV | ★Drawn from the same hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline.  | ★Valid method was used to ascertain consumption of alcohol | ★Yes | ★All response | 7(low) |
| KodjoKunale Abassa(2022) | ★At least somewhat the case definition is adequate | ☆Not truly representative of the average HBV infected patients in the hospital. | ☆Patients partly presenting at the hospital, alcohol and with HBV | ★Drawn from the same hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline.  | ★Valid method was used to ascertain consumption of alcohol | ★Yes | ★All response | 7(low) |
| Caohui(2018) | ★At least somewhat the case definition is adequate | ★Truly representative of the average HBV infected patients in the hospital. | ☆Patients partly presenting at the hospital, alcohol and with HBV | ★Drawn from the same hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline.  | ☆ No description | ★Yes | ★All response | 6(middle) |
| Tommaso Stroffolini(2010) | ★At least somewhat the case definition is adequate | ★Truly representative of the average HBV infected patients in the hospital. | ☆Patients partly presenting at the hospital, alcohol and with HBV | ★Drawn from the same hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline.  | ★Valid method was used to ascertain consumption of alcohol | ★Yes | ★All response | 8(low) |
| Zhong Jida(2013) | ★At least somewhat the case definition is adequate | ★Truly representative of the average HBV infected patients in the hospital. | ☆Patients partly presenting at the hospital, alcohol and with HBV | ☆Drawn from the different hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline.  | ☆ No description | ★Yes | ★All response | 6(middle) |
| F. Donato (2002)  | ★at least somewhat the case definition is adequate | ★Truly representative of the average HBV infected patients in the hospital.  | ★Patients presenting at the hospital, alcohol and with HBV | ★Drawn from the same hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline.  | ★Valid method was used to ascertain consumption of alcohol | ★Yes | None reported(retrospective) | 8(low) |
| FRANCESCO DONATO (1997) | ★At least somewhat the case definition is adequate | ★Truly representative of the average HBV infected patients in the hospital.  | ★Patients presenting at the hospital, alcohol and with HBV | ★Drawn from the different hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline.  | ★Valid method was used to ascertain consumption of alcohol | ★Yes | None reported(retrospective) | 8(low) |
| Mikihiro Tsutsum(1996) | ★At least somewhat the case definition is adequate | ★Truly representative of the average HBV infected patients in the hospital.  | ★Patients presenting at the hospital, alcohol and with HBV | ★Drawn from the same hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline.  | ★Valid method was used to ascertain consumption of alcohol | ★Yes | None reported(retrospective) | 8(low) |
| Huang Genya(2005) | ★At least somewhat the case definition is adequate | ★Truly representative of the average HBV infected patients in the hospital.  | ★Patients presenting at the hospital, alcohol and with HBV | ★Drawn from the same hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline.  | ★Valid method was used to ascertain consumption of alcohol | ★Yes | None reported(retrospective) | 8(low) |
| Song Caiyun(2017) | ★At least somewhat the case definition is adequate | ★Truly representative of the average HBV infected patients in the hospital.  | ★Patients presenting at the hospital, alcohol and with HBV | ★Drawn from the same hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline.  | ☆ No description  | ★Yes | None reported(retrospective) | 7(low) |
| Sun Gang(2002) | ★At least somewhat the case definition is adequate | ★Truly representative of the average HBV infected patients in the hospital.  | ★Patients presenting at the hospital, alcohol and with HBV | ★Drawn from the same hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline.  | ☆ No description  | ★Yes | None reported(retrospective) | 7(low) |
| Li Hui(2015) | ★At least somewhat the case definition is adequate | ★Truly representative of the average HBV infected patients in the hospital.  | ★Patients presenting at the hospital, alcohol and with HBV | ★Drawn from the same hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline.  | ★Valid method was used to ascertain consumption of alcohol | ★Yes | None reported(retrospective) | 8(low) |
| Wang Xiaoli(2015) | ★At least somewhat the case definition is adequate | ★Truly representative of the average HBV infected patients in the hospital.  | ★Patients presenting at the hospital, alcohol and with HBV | ★Drawn from the same hospital as controls | ★☆Same HBsAg serostatus and comparable age at baseline.  | ☆ No description  | ★Yes | None reported(retrospective) | 6(moderate) |
| Hao Tingting(2015) | ★At least somewhat the case definition is adequate | ★Truly representative of the average HBV infected patients in the hospital.  | ★Patients presenting at the hospital, alcohol and with HBV | ★Drawn from the same hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline.  | ☆ No description  | ★Yes | None reported(retrospective) | 7(low) |
| Sun Guozhan(2013) | ★At least somewhat the case definition is adequate | ★Truly representative of the average HBV infected patients in the hospital.  | ★Patients presenting at the hospital, alcohol and with HBV | ★Drawn from the same hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline.  | ★Valid method was used to ascertain consumption of alcohol | ★Yes | None reported(retrospective) | 8(low) |
| Lin Xiaoqing(2013) | ★At least somewhat the case definition is adequate | ★Truly representative of the average HBV infected patients in the hospital.  | ★Patients presenting at the hospital, alcohol and with HBV | ★Drawn from the same hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline.  | ★Valid method was used to ascertain consumption of alcohol | ★Yes | None reported(retrospective) | 8(low) |
| Shi Chunzhao(2013) | ★At least somewhat the case definition is adequate | ★Truly representative of the average HBV infected patients in the hospital.  | ★Patients presenting at the hospital, alcohol and with HBV | ★Drawn from the same hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline.  | ★Valid method was used to ascertain consumption of alcohol | ★Yes | None reported(retrospective) | 8(low) |
| Liao Yuyi(2014) | ★At least somewhat the case definition is adequate | ★Truly representative of the average HBV infected patients in the hospital.  | ★Patients presenting at the hospital, alcohol and with HBV | ★Drawn from the same hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline.  | ★Valid method was used to ascertain consumption of alcohol | ★Yes | None reported(retrospective) | 8(low) |
| Cao Haixia(2003) | ★At least somewhat the case definition is adequate | ★Truly representative of the average HBV infected patients in the hospital.  | ★Patients presenting at the hospital, alcohol and with HBV | ★Drawn from the same hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline.  | ☆ no description  | ★Yes | None reported(retrospective) | 7(low) |
| Li Yan(2013) | ★At least somewhat the case definition is adequate | ★Truly representative of the average HBV infected patients in the hospital.  | ★Patients presenting at the hospital, alcohol and with HBV | ☆Drawn from the different hospital as controls | ★★Same HBsAg serostatus and comparable age at baseline.  | ★Valid method was used to ascertain consumption of alcohol | ★Yes | None reported(retrospective) | 7(low) |