**Supplementary Material 3:** List of excluded studies with reasons

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| **Author, year and reference** | **Reason for exclusion** |
| Wang et al. (2023) [1] | Meta-analysis |
| Xiang et al. (2021) [2] | Meta-analysis |
| Wauters et al. (2021) [3] | Patients without liver surgeries |
| Orłowska et al. (2021) [4] | Patients without liver surgeries |
| Folwarski et al. (2021) [5] | Patients without liver surgeries |
| Wang et al. (2021) [6] | Patients without liver surgeries |
| Ma et al. (2021) [7] | Meta-analysis |
| Grąt et al. (2020) [8] | Non-randomized controlled trial |
| Darbandi et al. (2020) [9] | Review |
| Chowdhury et al. (2020) [10] | Meta-analysis |
| Iida et al. (2020) [11] | Non-randomized controlled trial |
| Gan et al. (2019) [12] | Meta-analysis |
| Franko et al. (2019) [13] | Patients without liver surgeries |
| Yokoyama et al. (2017) [14] | Review |
| Lytvyn et al. (2016) [15] | Meta-analysis |
| Yokoyama et al. (2016) [16] | Patients without liver surgeries |
| van der Beek et al. (2015) [17] | Improper intervention and control methods |
| Sommacal et al. (2015) [18] | Patients without liver surgeries |
| Liu et al. (2015) [19] | Patients without liver surgeries |
| Zhang et al. (2013) [20] | Non-randomized controlled trial |
| Okazaki et al. (2013) [21] | Patients without liver surgeries |
| Jeppsson et al. (2011) [22] | Review |
| Diepenhorst et al. (2011) [23] | Patients without liver surgeries |
| Rifatbegovic et al. (2010) [24] | No concerned outcomes |
| Pitsouni et al. (2009) [25] | Meta-analysis |
| Gurusamy et al. (2008) [26] | Review |
| Rayes et al. (2007) [27] | Patients without liver surgeries |
| Anderson et al. (2004) [28] | Patients without liver surgeries |
| Woodcock et al. (2004) [29] | Improper intervention and control methods |
| McNaught et al. (2002) [30] | Patients without liver surgeries |

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