**Supplementary Table 1** Clinical characteristics of from 20 included studies.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Study** | **Country** | **Data period** | **Intersphincteric resection (ISR)** | **Abdominoperineal resection (APR)** | **Definition of POM** |
| **POM (*r1*)** | **Total (*n1*)** | **POM (*r2*)** | **Total (*n2*)** |
| Akagi Y et al. 2013 [1] | Japan | 2001–2011 | 0 | 124 | 0 | 60 | In-hospital mortality |
| Beppu N et al. 2017 [2] | Japan | 2003–2015 | N.A. | 104 | N.A. | 15 | N.A. |
| Braun J et al. 1992 [3] | Germany | 1977–1987 | 4 | 63 | 0 | 77 | In-hospital mortality |
| Dumont F et al. 2013 [4] | France | 1995–2011 | 0 | 14 | 0 | 22 | In-hospital mortality |
| Fukuoka H et al. 2020 [5] | Japan | 2011–2016 | 0 | 17 | 0 | 19 | 30-day mortality |
| He Z et al. 2021 [6] | China | 2012–2018 | 1 | 43 | 0 | 31 | In-hospital mortality |
| Hohenberger W et al. 2006 [7] | Germany | 1985–2001 | 2 | 65 | 13 | 285 | In-hospital mortality |
| Kim CH et al. 2015 [8] | Korea | 2006–2011 | N.A. | 162 | N.A. | 40 | N.A. |
| Klose J et al. 2017 [9] | Germany | 2001–2012 | 0 | 60 | 0 | 83 | In-hospital mortality |
| Konanz J et al. 2013 [10] | Germany | 1999–2009 | N.A. | 33 | N.A. | 50 | N.A. |
| Koyama M et al. 2014 [11] | Japan | 2000–2007 | N.A. | 77 | N.A. | 33 | N.A. |
| Kuo LJ et al. 2011 [12] | China | 2002–2009 | 1 | 26 | 0 | 23 | In-hospital mortality |
| Miyajima N et al. 2008 [13] | Japan | 1994–2006 | 0 | 14 | 0 | 14 | 30-day mortality |
| Molnar C et al. 2019 [14] | Romania | 2011–2013 | N.A. | 37 | N.A. | 35 | N.A. |
| Rubinkiewicz M et al. 2018 [15] | Poland | 2015–2017 | 0 | 14 | 0 | 13 | 30-day mortality |
| Rullier E et al. 2013 [16] | France | 1994–2009 | 0 | 186 | 3 | 83 | In-hospital mortality |
| Saito N et al. 2009 [17] | Japan | 1995–2006 | 0 | 132 | 0 | 70 | In-hospital mortality |
| Shin JK et al. 2022 [18] | Korea | 2000–2014 | 0 | 104 | 0 | 79 | 30-day mortality |
| Tsukamoto S et al. 2018 [19] | Japan | 2000–2014 | 0 | 112 | 0 | 173 | In-hospital mortality |
| Weiser MR et al. 2009 [20] | USA | 1998–2004 | 0 | 44 | 1 | 64 | 30-day mortality |

N.A., not available; POM, postoperative mortality.

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