**Table 1.** Study Characteristics

| **Author, time period, country, year** | **Number of patients** | **Age, median (range)** | **Gender, male, female** | **Synchr, metachr, number** | **Unilobar, bilobar, number** | **Solitary, multiple, number** | **Median survival (Months)** | **Median FU (months), median (range)** | **Neoadjuvant, adjuvant therapy (%)** | **Hepatectomy (minor/major), N (%)** | **Morbidity** | **1-year OS** | **2-year OS** | **3-year OS** | **5-year OS** | **30-day mortality** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ochiai, 1962 - 1991, Japan, 1994 | 21 | 55 (35 - 74) | 13 - 8 | 13 - 8 | NR | 15 - 6 | 18 | 19 (3 - 219) | 0-89% | 17 (81%), 4 (19%) | NR | NR | NR | NR | 19% | NR |
| Saito, 1964 - 1987, Japan, 1996 | 14 | 59 (42 - 74) | 10 - 4 | 14 - 0 | 12 - 2 | NR | 15 | NR | 0-100% | NR | 29% | NR | NR | NR | NR | NR |
| Miyazaki, 1980 - 1994, Japan, 1997 | 21 | 63 (53 - 80) | 18 - 3 | 11 - 10 | 15 - 6 | 7 - 14 | 11 | NR | 0-76% | 13 (62%), 8 (38%) | NR | NR | NR | NR | 24% | 0 |
| Ambiru, 1975 - 1999, Japan, 2001 | 40 | 63 (37 - 75) | 30 - 10 | 18 - 22 | 24 - 16 | 19 - 21 | 12 | 88 (4 - 296) | 0-33% | 23 (58%), 17 (42%) | NR | NR | 27% | NR | 18% | 0 |
| Fujii, 1979 - 1999, Japan, 2001 | 10 | 58 (40 - 81) | 6 - 4 | 3 - 7 | 8 - 2 | 6 - 4 | NR | 16 (3 - 245) | NR | 6 (60%), 4 (40%) | NR | 60% | NR | 20% | 10% | 10% |
| Imamura, 1990 - 1997, Japan, 2001 | 17 | NR | 15 - 2 | 7 - 10 | 12 - 5 | 8 - 9 | NR | 24 | NR | NR | NR | 60% | 25% | 25% | NR | NR |
| Okano, 1986 - 1999, Japan, 2013 | 19 | 69 (52 - 79) | 13 - 6 | 13 - 6 | 12 - 7 | 10 - 9 | NR | 36 (13 - 148) | 0-31% | 16 (84%), 3 (16%) | NR | 77% | NR | 34% | 34% | NR |
| Saiura, 1981 - 1998, Japan, 2002 | 10 | 60 (41 - 76) | 7 - 3 | 6 - 4 | 7 - 3 | 4 - 6 | 25 | NR | 0-60% | NR | NR | 50% | NR | 30% | 20% | 30% |
| Zacherl, 1980 - 1999, Austria, 2002 | 15 | 62 (37 - 81) | 10 - 5 | 10 - 5 | NR | 8 - 7 | 9 | NR | NR-14% | 11 (73%), 3 (20%) | 47% | 36% | NR | 29% | 14% | 0 |
| Sakamoto, 1985 - 2001, Japan, 2003 | 22 | 63 (52 - 89) | 13 - 11 | 12 - 10 | 17 - 5 | 16 - 6 | 21 | 17 (1.5 - 71) | 0-40% | 19 (86%), 3 (14%) | NR | 73% | NR | 38% | 38% | 0 |
| Shirabe, 1971 - 2001, Japan, 2003 | 36 | 66  (52 - 79) | 33 - 3 | 16 - 20 | NR | 31 - 5 | NR | NR | NR | NR | NR | 64% | 43% | 26% | 26% | 0 |
| Roh, 1988 - 1996, Korea, 2005 | 11 | 61 (50 - 70) | 10 - 1 | 8 - 3 | 11 - 0 | 11 - 0 | 19 | 19 (6 - 108) | NR | 10 (91%), 1 (9%) | NR | 73% | NR | NR | 27% | 0 |
| Hirai, 1990 - 1997, Japan, 2006 | 14 | NR | NR | NR | NR | NR | NR | 41 (4 - 136) | NR | NR | NR | NR | NR | NR | 42% | NR |
| Adam, 1983 - 2004, France, 2006 | 64 | NR | NR | NR | NR | NR | 15 | 31 (0 - 258) | 13-42% | NR | NR | NR | NR | NR | 27 | NR |
| Sakamoto, 1990 - 2005, Japan, 2007 | 37 | 64 (39 - 76) | 29 - 8 | 16 - 21 | 30 - 7 | 21 - 16 | 31 | NR | 0-16% | 32 (86%), 5 (14%) | 24% | NR | NR | NR | 11% | 0 |
| Cheon, 1995 - 2005, Korea, 2008 | 14 | 65 (47 - 75) | 11 - 3 | 0 - 14 | 11 - 3 | 9 - 5 | 17 | 15 (7 - 38) | NR-88% | 10 (71%), 1 (7%) | NR | 75% | NR | 32% | 21% | 1.72% |
| Morise, 1989 - 2004, Japan, 2008 | 18 | 64 (51 - 76) | 16 - 2 | 11 - 7 | 15 - 3 | 14 - 4 | 13 | NR | NR | 14 (78%), 4 (22%) | NR | 56% | 37% | 27% | 27% | NR |
| Thelen, 1988 - 2002, Germany, 2008 | 24 | 64  (41 - 84) | 17 - 7 | 15 - 9 | 18 - 6 | 13 - 11 | 9 | 9 (1 - 67) | NR | 16 (67%), 8 (33%) | 17% | 38% | NR | 16% | 10% | 4% |
| Tiberio, 1990 - 2004, Italy, 2009 | 11 | NR | NR | 0 - 11 | NR | NR | NR | 19 (5 - 75) | 0-0% | NR | NR | 81% | 30% | 20% | NR | NR |
| Ueda, 1991 - 2005, Japan, 2009 | 15 | NR | NR | NR | NR | NR | NR | NR | 0-53% | 53%-NR | NR | 80% | NR | 60% | 60% | NR |
| Nomura, 1991 - 2005, Japan, 2009 | 17 | 66 (40 - 79) | 13/4 | 9 - 8 | NR | NR | 21 | 20 (1 - 117) | 18-59% | 14 (82%), 3 (12%) | NR | NR | NR | NR | 31% | NR |
| Choi, 1986 - 2007, Korea, 2010 | 14 | 65 (47 - 75) | 11/3 | 0 - 14 | 11 - 3 | 9 - 5 | NR | 15 (7 - 38) | NR-71% | 8 (57%), 6 (43%) | NR | 67% | NR | 38% | NR | NR |
| Makino, 1992 - 2007, Japan, 2010 | 16 | NR | 13 - 3 | 9 - 7 | 11 - 5 | 9 - 7 | 38 | NR | 19-88% | 100%, 0% | NR | 88% | NR | 56% | 42% | NR |
| Tsujimoto, 1980 - 2007, Japan, 2010 | 17 | 66 | 16 - 1 | 9 - 8 | 17 - 0 | 13 - 4 | 34 | 29 (9 - 130) | 0-82% | NR | NR | NR | NR | NR | 32% | 0 |
| Dittmar, 1995 - 2009, Germany, 2012 | 15 | 57 (25 - 82) | 12 - 3 | 9 - 6 | 12/3 | 8 - 7 | 48 | 11 (0 - 159) | NR | 8 (53%), 3 (20%) | 60% | NR | NR | NR | 27% | 0 |
| Miki, 1995 - 2009, Japan, 2012 | 25 | 72 (47 - 80) | NR | 16 - 9 | 20 - 5 | 18 - 7 | 33 | NR | 0-0% | NR | NR | 74% | NR | 43% | 37% | NR |
| Wang, 2003 - 2008, China, 2012 | 30 | 60 (33 - 72) | 27 - 3 | NR | 27 - 3 | 22 - 8 | 11 | 11 (7 - 14) | 0-100% | 23 (77%), 7 (23%) | NR | 43% | 30% | 17% | 17% | 0 |
| Liu, 1995 - 2010, China, 2012 | 35 | NR | 29 - 6 | 35 - 0 | 12 - 23 | 12 - 23 | 15 | 38 (5 - 126) | NR | NR | NR | 58% | 29% | 22% | NR | NR |
| Schildberg, 1972 - 2008, Germany, 2012 | 31 | 65 (35 - 84) | 20 - 11 | 17 - 14 | 30 - 1 | NR | NR | NR | 7-29% | 21 (68%), 10 (32%) | 29% | NR | NR | NR | 13% | 6% |
| Takemura, 1993 - 2011, Japan, 2012 | 64 | 65 (32 - 89) | 49 - 15 | 34 - 30 | NR | 37 - 27 | 34 | 27 (3 - 174) | 28-41% | 50 (78%), 14 (22%) | 26% | 84% | NR | 50% | 37% | 0 |
| Garancini, 1993 - 2004, Italy, 2012 | 21 | 64 (44 - 89) | 14 - 7 | 12 - 9 | 16 - 5 | 12 - 9 | NR | 20 (6 - 90) | NR-5% | 17 (81%), 4 (19%) | 19% | 68% | NR | 31% | 19% | 0 |
| Baek, 2003 - 2010, Korea, 2013 | 12 | 61 (51 - 74) | 11/1 | 3 - 9 | 11 - 1 | 11 - 1 | 31 | 12.5 (1 - 85) | 0-50% | 8 (67%), 4 (33%) | 0 | 65% | NR | NR | 39% | 0 |
| Qiu, 1998 - 2009, China, 2013 | 25 | NR | 22 - 3 | NR | 21 - 4 | 16 - 9 | 38 | NR | 16-60% | NR | NR | 96% | NR | 70% | 29% | 0 |
| Vigano, 1997 - 2008, Italy, 2013 | 20 | 62 (34 - 82) | 12 - 8 | 9 - 11 | 18 - 2 | 12 - 8 | 52 | 42 (11 - 43) | 40%-NR | 11 (55%), 9 (45%) | 40% | 95% | NR | 63% | 33% | 0 |
| Chen, 1995 - 2005, China, 2013 | 20 | 57  (33 - 75) | 12/8 | 20 - 0 | 11 - 9 | 8 - 12 | 22 | 10 (2 - 53) | 100-100% | 6 (30%), 14 (70%) | 30 | NR | NR | NR | 15% | 0 |
| Wang, 1996 - 2008, China, 2014 | 39 | 64 (38 - 81) | 26 - 13 | 39 - 0 | 34 - 5 | 31 - 8 | 14 | NR | 0-100% | NR | 8% | 56% | 26% | 18% | 10% | 0 |
| Aizawa, 2003 - 2010, Japan, 2014 | 53 | 66 | 43 - 10 | 53 - 0 | NR | 31 - 22 | 27 | 90.8 | 0-77% | NR | NR | NR | NR | NR | 19% | NR |
| Komeda, 2000 - 2012, Japan, 2014 | 24 | 70 (42 - 79) | 21 - 3 | 1 - 23 | NR | 17 - 7 | 22 | NR | 46-63% | 10 (42%), 14 (58%) | NR | 78% | NR | 40% | 40% | 0 |
| Sinohara, 1995 - 2010, Japan, 2015 | 47 | NA | 38 - 9 | 38 - 9 | 25 - 22 | 18 - 29 | 27 | NR | 30-72% | NR | 9% | 83% | NR | 32% | 32% | 0 |
| Tiberio, 1997 - 2011, Italy, 2015 | 53 | NR | NR | 53 - 0 | NR | NR | 12 | NR | 0-42% | 38 (72%), 15 (26%) | 17% | 50% | NR | 14% | 9% | 0 |
| Okhura, 1985 - 2014, Japan, 2015 | 13 | 66 (51 - 77) | 13 - 0 | 9 - 4 | NA | < 3 and < 3 cm |  | 23 (1 - 69) | NR-92% | 10 - 3 | NR | 89% | NR | 30% | NR | 0 |
| Song, 2001 - 2012, China, 2017 | 96 | NA | 72 - 24 | 59 - 37 | 57 - 29 | 42 - 54 | 34 | 33 | NR-60% | 61 (64%), 35 (36%) | 48% | 88% | NR | 48% | 22% | 0 |
| Markar, 1997 - 2012, 2017 | 78 | 65 | 27-51 | NR | NR | NR |  | 8 (2 - 26) | NR | 66 (85%), 12 (15%) | 22% | 75% | 50% | 41% | 35% | 10% |
| Median (range) | Total 1,198 patients | 64 (25 - 89) | 752 (63%), 446 (27%) | 607 (62%), 376 (38%) | 525 (74%), 188 (26%) | 540 (59%), 377 (41%) | 21 (9 - 52) |  | 91 (8%), 536 (48%) | 582 (74%), 211 (26%) | 26% (0-60%) | 68% (36-96%) | 29.5% (25-50%) | 32% (14-70%) | 27% (9-60%) | 0% (0-30%) |

NA: not applicable; NR: not reported; OS: overall survival.