**Table C1. Risk of bias: Diagnostic studies**

| **Author, Year** | **Random or Consecutive Sample** | **Avoidance of Case-control Design** | **Avoidance of Inappropriate Exclusions** | **Index Test Results Interpreted Without Knowledge of Reference Standard** | **Use of Pre-specified Threshold or Definition for a Positive Test** | **Credible Reference Standard** | **Reference Standard Interpreted Independently From the Test Under Evaluation** | **Appropriate Interval Between Index Test and Reference Standard** | **Same Reference Standard Applied to All Patients** | **Were All Patients Included in the Analysis?** | **Overall Risk of Bias(Low, Moderate, High)** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Addley, 2011[1](#_ENREF_1) | Yes | Yes | Yes | Yes | Yes | Yes (explant) | Yes | Unclear (up to 5 months but the study did not report a mean length of time) | Yes | Yes | Moderate |
| Ahn, 2010[2](#_ENREF_2) | Yes | Yes | Yes | Yes | Yes | Yes (varied) | Unclear | Unclear | No | Yes | High |
| Akai, 2011[3](#_ENREF_3) | Yes | Yes | Yes | Yes | Yes | Yes (explant) | Unclear | Unclear | Yes | Yes | Moderate |
| Alaboudy, 2011[4](#_ENREF_4) | Unclear | No (all cases) | Yes | Yes | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| An, 2013[5](#_ENREF_5) | Yes | No (all cases) | Yes | Yes | No | Yes | Unclear | Yes | Yes | No | Moderate |
| An, 2012[6](#_ENREF_6) | Unclear | No (all cases) | No | Unclear | Yes | Yes | Unclear | Unclear | Yes | No | High |
| Baccarani U, 2006[7](#_ENREF_7) | Unclear | Yes | Yes | Yes; imaging done prior to transplant; its interpretation is part of qualifier for transplant | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Baek, 2012[8](#_ENREF_8) | Yes | No (all cases) | Unclear | Yes | Yes | Yes | Unclear | Unclear | No | No | High |
| Baird, 2013[9](#_ENREF_9) | Unclear | Yes | Yes | Yes | Unclear | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Bartolozzi, 2000[10](#_ENREF_10) | Unclear | No (all cases) | Yes | Yes | Unclear | Yes | Unclear | Unclear | No | Unclear | High |
| Bennett, 2002[11](#_ENREF_11) | Unclear | Yes | Yes | Unclear | Yes | Yes (explant) | Unclear | Yes | Yes | Yes | Moderate |
| Bhattacharjya, 2004[12](#_ENREF_12) | Unclear | No (all cases) | Yes | Unclear | Unclear | Yes (explant) | Unclear | Yes | Yes | Yes | High |
| Burrel, 2003[13](#_ENREF_13) | Unclear | No (all cases) | Yes | Yes | Yes | Yes (explant) | Yes | Yes (mean 46 or 53 days) | Yes | No (3/29 excluded for CT) | High |
| Catala, 2007[14](#_ENREF_14) | Unclear | Yes | Yes | Yes | Unclear | Yes | Unclear | Unclear | No | Yes | High |
| Cereser, 2010[15](#_ENREF_15) | Yes | No (all cases) | Yes | Yes | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Chalasani, 1999[16](#_ENREF_16) | Yes | Yes | Yes | Unclear | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Chen, 2005[17](#_ENREF_17) | Unclear | No (25/26 cases) | Yes | Unclear | Yes | Yes (biopsy or clinical f/u) | Unclear | Unclear | No | Yes | High |
| Cheung, 2013[18](#_ENREF_18) | Unclear | No (all cases) | Yes | Unclear | Yes | Yes | Unclear | Yes | No | Yes | High |
| Cheung, 2011[19](#_ENREF_19) | Unclear | No (all cases) | Yes | Unclear | Yes | Unclear | Unclear | Unclear | Unclear | Yes | High |
| Choi, 2008[20](#_ENREF_20) | Yes | Yes | Yes | Yes | Yesd | Yes | Unclear | Yes | Yes | Yes | Moderate |
| Choi, 2001[21](#_ENREF_21) | Yes | No (all cases) | Yes | Yes | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Chou, 2011[22](#_ENREF_22) | Unclear | Yes | Yes | Yes | Yes | Yes | Unclear | Yes | Yes | No (excluded nodules without histological diagnosis) | Moderate |
| Chung, 2011[23](#_ENREF_23) | Unclear | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Chung, 2010[24](#_ENREF_24) | Yes | Yes | Yes | Unclear | Unclear | Yes | Unclear | Unclear | No | Yes | Moderate |
| Colagrande, 2000[25](#_ENREF_25) | Unclear | No (22/24 cases) | Yes | Yes | Yes | Unclear | Unclear | Unclear | No | No (patients who did not undergo lipiodol CT excluded) | High |
| Dai, 2008[26](#_ENREF_26) | Yes | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | Yes | Yes | High |
| de Ledinghen, 2002[27](#_ENREF_27) | Unclear | Yes | Yes | Yes | Yes | Yes (explant) | No | Yes (mean 44 days) | Yes | Yes | Moderate |
| Delbeke, 1998[28](#_ENREF_28) | Yes | Yes | Yes | Yes | Yes | Yes (pathology) | Unclear | Yes (<2 months) | Yes | Yes | Moderate |
| Denecke, 2009[29](#_ENREF_29) | Yes | No (all cases) | Yes | Unclear | Yes | Yes | Unclear | Yes | Yes | Yes | Moderate |
| Di Martino, 2013[30](#_ENREF_30) | Yes | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | No | No (34 excluded due to loss to f/u or insufficient proof of tumor burden; 140 excluded due to >1 month between CT and MRI) | Moderate |
| Di Martino, 2010[31](#_ENREF_31) | Yes | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | No | No (37 excluded due to incomplete imaging or follow-up) | Moderate |
| D'Onofrio, 2005[32](#_ENREF_32) | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | Unclear | No | Yes | Moderate |
| Doyle, 2007[33](#_ENREF_33) | Unclear | No (case-control) | Yes | Unclear | Yes | Yes | Unclear | Unclear | No | Yes | High |
| Eckel, 2009[34](#_ENREF_34) | Unclear | No (cases only) | Yes | Unclear | Yes | Yes | Unclear | Unclear | No | Yes | High |
| Egger, 2012[35](#_ENREF_35) | Unclear | No (all cases) | Yes | Unclear | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Filippone, 2010[36](#_ENREF_36) | Unclear | No (all cases) | Yes | Yes | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Forner, 2008[37](#_ENREF_37) | Unclear | Yes | Yes | Unclear | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Fowler, 2013[38](#_ENREF_38) | Yes | No (all cases) | Yes | Unclear | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Fracanzani, 2001[39](#_ENREF_39) | Yes | Yes | Yes | Unclear | Unclear | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Freeman, 2006[40](#_ENREF_40) | Yes | Yes | Yes | No | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Freeny, 2003[41](#_ENREF_41) | Yes | Yes | Yes | Yes | Yes | Yes (explant) | Unclear | No (mean 249 or 168 days) | Yes | Yes | High |
| Furuse, 2000[42](#_ENREF_42) | Yes | No (all cases) | Yes | Unclear | Unclear | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Gaiani, 2004[43](#_ENREF_43) | Yes | No (all cases) | Yes | Unclear | Yes | Unclear (US evaluated and Doppler US used as part of reference standard) | Unclear | Unclear | Yes | Yes | High |
| Gambarin-Gelwan, 2000[44](#_ENREF_44) | Yes | Yes | Yes | Unclear | Yes | Yes (explant) | Unclear | Unclear (within 6 months) | Yes | Yes | Moderate |
| Gatto, 2013[45](#_ENREF_45) | Unclear | Yes | Yes | Unclear | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Giorgio, 2007[46](#_ENREF_46) | Yes | Yes | Yes | Yes  | Yes | Unclear | Unclear | Unclear | No | Yes | Moderate |
| Giorgio, 2004[47](#_ENREF_47) | Yes | No (all cases) | Yes | Unclear | Yes | Yes | Unclear | Yes | Yes | Yes | Moderate |
| Golfieri, 2009[48](#_ENREF_48) | Yes | Yes | Yes | Unclear | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Goshima, 2004[49](#_ENREF_49) | Yes | No (all cases) | Yes | Unclear | Yes | Unclear | Unclear | Unclear | No | Yes | Moderate |
| Goto, 2012[50](#_ENREF_50) | Yes | No (all cases) | Yes | Yes | Yes | Unclear (CT only including lesions <2 cm) | Yes | Yes | Yes | Yes | Moderate |
| Guo, 2012[51](#_ENREF_51) | Unclear | No (all cases) | No (excluded difficult to dx patients) | Yes | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Haradome, 2011[52](#_ENREF_52) | Yes | Yes | Yes | Unclear | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Hardie, 2011[53](#_ENREF_53) | Yes | Yes | Yes | Yes | Unclear | Yes | Unclear | Yes | Yes | Yes | High |
| Hardie, 2011 (2)[54](#_ENREF_54) | Unclear | Yes | Yes | Unclear | Unclear | Yes | Unclear | Yes | Yes | Yes | High |
| Hardie, 2011 (3)[55](#_ENREF_55) | Yes | Yes | Yes | Yes | Unclear | Yes (explant) | Unclear | Yes | Yes | Yes | Moderate |
| Hatanaka, 2008[56](#_ENREF_56) | Yes | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Hecht, 2006[57](#_ENREF_57) | Yes | Yes | Yes | Unclear | Yes | Yes (explant) | Yes | Yes | Yes | Yes | Moderate |
| Hidaka, 2013[58](#_ENREF_58) | Unclear | No (all cases) | Unclear | Yes | Yes | Yes | Unclear | Unclear | Yes | Yes | High |
| Higashihara, 2012[59](#_ENREF_59) | Unclear | No (all cases) | Yes | Unclear | Yes | Unclear | Unclear | Yes | No | Yes | High |
| Hirawaka, 2011[60](#_ENREF_60) | Unclear | No | Yes | Unclear | Yes | Yes | Unclear | Yes | Yes | Yes | Moderate |
| Ho, 2003[61](#_ENREF_61) | Unclear | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | Yes | No (7/39 patients with HCC excluded) | Moderate |
| Ho, 2007[62](#_ENREF_62) | Yes | Yes | Yes | Unclear | Yes | Yes (multiple criteria) | Unclear | Unclear | No | Yes | Moderate |
| Hori, 2002[63](#_ENREF_63) | Unclear | No (90% had HCC) | Yes | Unclear | Yes | Unclear | Unclear | Unclear | No | No (16 patients excluded due to no reference standard) | High |
| Hori, 1998[64](#_ENREF_64) | Unclear | No (all cases) | Yes | Yes | Unclear | Unclear | Unclear | Yes | No | Yes | High |
| Hwang, 2012[65](#_ENREF_65) | Yes | No (all cases) | Yes | Unclear | Yes | Yes  | Unclear | Unclear | No | Yes | Moderate |
| Hwang, 2009[66](#_ENREF_66) | Unclear | No (90% had HCC) | Yes | Unclear | Unclear | Unclear | Unclear | Unclear | No | No | High |
| Iannaccone, 2005[67](#_ENREF_67) | Unclear | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Iavarone, 2010[68](#_ENREF_68) | Yes | No (all cases) | Yes | Yes | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Ichikawa, 2010[69](#_ENREF_69) | Unclear | Yes | Yes | Yes (for blinded readers) | Unclear | Unclear | Unclear | Yes | No | No (denominators varied) | Moderate |
| Ichikawa, 2002[70](#_ENREF_70) | Unclear | No (all cases) | Yes | Yes | Yes | Yes | Unclear | Unclear | Unclear | Yes | Moderate |
| Ijichi, 2013[71](#_ENREF_71) | Unclear | No (all cases) | Yes | Unclear | Unclear | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Imamura, 1998[72](#_ENREF_72) | Yes | No (all cases) | Yes | Yes | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Inoue, 2012[73](#_ENREF_73) | Unclear | Unclear | Yes | Unclear | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Inoue, 2009[74](#_ENREF_74) | Yes | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Inoue, 2008[75](#_ENREF_75) | Unclear | No (all cases) | Yes | Yes | Unclear | Yes | Unclear | Unclear | No | Yes | High |
| Ito, 2004[76](#_ENREF_76) | Unclear | No (all cases) | Yes | Unclear | Unclear | Unclear | Unclear | Unclear | No | Yes | Moderate |
| Iwazawa, 2010[77](#_ENREF_77) | Yes | No (all cases) | Yes | Yes | Yes | Unclear | Unclear | Unclear | No | Yes | Moderate |
| Jang, 2000[78](#_ENREF_78) | Yes | No (all cases) | Yes | Yes | Yes | Yes | Unclear | Unclear | Yes | No (7/59 excluded due to no pathologic proof and 18 excluded due to follow-up with spiral CT <12 months) | Moderate |
| Jang, 2013[79](#_ENREF_79) | Unclear | Yes | Yes | Unclear | Yes | Unclear | Unclear | Unclear | No | Yes | Moderate |
| Jang, 2009[80](#_ENREF_80) | Unclear | Yes | Yes | Unclear | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Jeng, 2003[81](#_ENREF_81) | Unclear | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Jeng, 2002[82](#_ENREF_82) | Unclear | No (all cases) | Yes | Unclear | Unclear | Unclear | Unclear | Unclear | Yes | Yes | High |
| Jeong, 2011[83](#_ENREF_83) | Unclear | No (all cases) | Yes | Unclear | Yes | Unclear | Unclear | Unclear | No | No | High |
| Jeong, 1999[84](#_ENREF_84) | Unclear | No (cases and controls) | Yes | Yes | No (post-hoc) | Yes | Unclear | Unclear | No | Yes | High |
| Jin, 2013[85](#_ENREF_85) | Yes | Yes | Yes | Unclear | Yes | Unclear | Unclear | Unclear | No | Yes | Moderate |
| Kakihara, 2013[86](#_ENREF_86) | Yes | No (all cases) | Yes | Yes | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Kamura, 2002[87](#_ENREF_87) | Unclear | No (case-control) | Unclear | Unclear | Yes | Unclear | Unclear | Unclear | No | Yes | High |
| Kang, 2003[88](#_ENREF_88) | Yes | No (all cases) | Yes | Unclear | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Kawada, 2010[89](#_ENREF_89) | Unclear | No (all cases) | Yes | Unclear | Yes | Yes | Unclear | Unclear | Yes | Yes | High |
| Kawaoka, 2009[90](#_ENREF_90) | Yes | Yes | Yes | Unclear | No | Unclear | Unclear | Unclear | No | Yes | High |
| Kawata, 2002[91](#_ENREF_91) | Yes | No (only analyzed cases) | Yes | Yes | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Khalili, 2011[92](#_ENREF_92) | Yes | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Khan, 2000[93](#_ENREF_93) | Yes | No (all cases) | Yes | Yes | Yes | Yes (histology or cytology) | Yes | Unclear | No | Yes | High |
| Kim AY, 2012[94](#_ENREF_94) | Unclear | No (all cases) | Yes | Unclear (for PET) | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Kim CK, 2001[95](#_ENREF_95) | Yes | Yes | Yes | Yes | Yes | Yes (explant) | Unclear | Yes | Yes | Yes | Moderate |
| Kim DJ, 2012[96](#_ENREF_96) | Yes | Yes | Yes | Unclear | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Kim KW, 2009[97](#_ENREF_97) | Yes | No (case-control) | Yes | Yes | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Kim MJ, 2012[98](#_ENREF_98) | Unclear | No (all cases) | Yes | Yes | Yes | Yes | Unclear | Yes | Yes | Yes | Moderate |
| Kim PN, 2012[99](#_ENREF_99) | Unclear | No (all cases) | Yes | Yes | Unclear | Yes | Yes | Yes | Yes | Yes | Moderate |
| Kim SE, 2011[100](#_ENREF_100) | Yes | Yes | Yes | No | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Kim SH, 2009[101](#_ENREF_101) | Yes | No (all cases) | Yes | Yes | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Kim SH, 2005[102](#_ENREF_102) | Yes | No (all cases) | Yes | Yes | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Kim SJ, 2008[103](#_ENREF_103) | Unclear | No (all cases) | Yes | Yes | Yes | Yes | Unclear | Yes | Yes | Yes | High |
| Kim SK, 2002 (2)[104](#_ENREF_104) | Yes | No (all cases) | Unclear (excluded 25 patients with HCC with unresectable distribution) | Unclear | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Kim T, 2002[105](#_ENREF_105) | Yes | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Kim TK, 2011[106](#_ENREF_106) | Yes | Yes | Yes | Yes | No | Yes | Unclear | Unclear | No | Yes | Moderate |
| Kim YK, 2011[107](#_ENREF_107) | Unclear | No (all cases) | Yes | Yes | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Kim YK, 2011 (2)[108](#_ENREF_108) | Unclear | No ( all cases) | Yes | Yes | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Kim YK, 2010[109](#_ENREF_109) | Unclear | No (all cases) | Yes | Yes | Yes | Unclear | Unclear | Unclear | No | Yes | High |
| Kim YK, 2010 (2)[110](#_ENREF_110) | Unclear | No (all cases) | Yes | Yes | Yes | Unclear | Unclear | Unclear | No | Yes | High |
| Kim YK, 2010 (3)[111](#_ENREF_111) | Yes | No (all cases) | Yes | Yes | Yes | Unclear | Unclear | Unclear | Unclear | Yes | High |
| Kim YK, 2009 (2)[112](#_ENREF_112) | Unclear | No (all cases) | Yes | Yes | Yes | Unclear | Unclear | Unclear | No | Yes | High |
| Kim YK, 2008[113](#_ENREF_113) | Unclear  | No (all cases) | Unclear | Yes | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Kim YK, 2008 (2)[114](#_ENREF_114) | Unclear | No (all cases) | Yes | Yes | Yes | Yes | Unclear | Unclear | No | Yes | High |
| Kim YK, 2007[115](#_ENREF_115) | Unclear | No (all cases) | Yes | Yes | Yes | Yes | Unclear | Unclear | No | No (excluded 8 patients without reference exam diagnosis) | Moderate |
| Kim YK, 2006[116](#_ENREF_116) | Unclear | No (all cases) | Yes | Yes | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Kim YK, 2006[117](#_ENREF_117) | Unclear | No (all cases) | Yes | Yes | Yes | Unclear (for lesions after the first HCC in each patient) | Unclear | Unclear | No | Yes | High |
| Kim YK, 2004[118](#_ENREF_118) | Yes | No (all cases) | Yes | Yes | Yes | Unclear | Unclear | Unclear | No | No (excluded 20 patients without reference exam diagnosis) | High |
| Kim YK, 2004 (2)[119](#_ENREF_119) | Yes | No (all cases) | Yes | Yes | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Kitamura, 2008[120](#_ENREF_120) | Unclear | No (all cases) | Yes | Yes | Yes | Unclear | Unclear | Unclear | No | Yes | Moderate |
| Kondo, 2005[121](#_ENREF_121) | Yes | No (all cases) | Yes | Yes | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Korenaga, 2009[122](#_ENREF_122) | Yes | No (all cases) | Yes | Yes | Only AUROC reported | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Koushima, 2002[123](#_ENREF_123) | Unclear | No (case-control) | Yes | Unclear | Only AUROC reported | Yes | Unclear | Unclear | Yes | No | High |
| Krinsky, 2002[124](#_ENREF_124) | Yes | No (all cases) | Yes | Yes | Yes | Yes | Unclear | Yes | Yes | Yes | Moderate |
| Krinsky, 2001[125](#_ENREF_125) | Unclear | Yes | Yes | Unclear | Yes | Yes (explant) | Unclear | Yes | Yes | Yes | Moderate |
| Kumano, 2009[126](#_ENREF_126) | Yes | No (all cases) | Yes | Unclear | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Kunishi, 2012[127](#_ENREF_127) | Unclear | No (all cases) | Yes | Yes | Yes | Yes | Yes | Unclear | No | Yes | Moderate |
| Kwak, 2005[128](#_ENREF_128) | Yes | No (all cases) | Yes | Unclear | Yes | Unclear | Unclear | Unclear | Yes | Yes | Moderate |
| Kwak, 2004[129](#_ENREF_129) | Unclear | No (all cases) | Yes | Yes | Yes | Unclear | Unclear | Unclear | Unclear | Yes | Moderate |
| Laghi, 2003[130](#_ENREF_130) | Yes | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Lauenstein, 2007[131](#_ENREF_131) | Yes | Yes | Yes | Yes | Yes | Yes | Unclear | Yes | Yes | Yes | Moderate |
| Lee CH, 2012[132](#_ENREF_132) | Yes | No (all cases) | Yes | Yes | Yes | Unclear | Unclear | Unclear | No | Yes | Moderate |
| Lee DH, 2009[133](#_ENREF_133) | Yes | Yes | Yes | Yes | Yes | Yes | Unclear | Yes | Yes | Yes | Moderate |
| Lee J, 2008[134](#_ENREF_134) | Yes | No (all cases) | Yes | No | Unclear | Yes | Unclear | Yes | Yes | Yes | Moderate |
| Lee JE, 2012[135](#_ENREF_135) | Yes | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Lee JM, 2003[136](#_ENREF_136) | Unclear | No (all cases) | Yes | Yes | Yes | Unclear | Unclear | No | Yes | Yes | Moderate |
| Lee JY, 2010[137](#_ENREF_137) | Yes | No (all cases) | Yes | Yes | Yes | Yes | Unclear | Yes | Yes | Yes | Moderate |
| Lee MH, 2011[138](#_ENREF_138) | Yes | No (case-control) | Yes | Yes | Yes | Yes | Unclear | Yes | Yes | Yes | Moderate |
| Lee MW, 2010[139](#_ENREF_139) | Yes | No (all cases) | Yes | Unclear | Yes | Yes | Yes (reference studies performed prior to test) | Unclear | Yes | Yes | Moderate |
| Li, 2007[140](#_ENREF_140) | Unclear | Yes | Yes | Unclear | Unclear | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Li, 2006[141](#_ENREF_141) | Yes | No (all cases) | Yes | No | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Li CS, 2006[142](#_ENREF_142) | Yes  | No (all cases) | Yes | Unclear | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Liangpunsakul, 2003[143](#_ENREF_143) | Unlear | Yes | Yes | Unclear | Yes | Unclear | Unclear | Unclear | Unclear | Yes | High |
| Libbrecht, 2002[144](#_ENREF_144) | Yes | Yes | Yes | Unclear | Yes | Yes (explant) | Yes | Yes | Yes | No | High |
| Lim JH 2006[145](#_ENREF_145) | Yes | No (all cases) | Yes | Unclear | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Lim JH 2002[146](#_ENREF_146) | Yes | No (all cases) | Unclear (excluded 115 patients with multiple HCC with unresectable distribution or main portal vein obstruction) | Unclear | Yes | Yes | Unclear | Yes | Yes | Yes | Moderate |
| Lim JH 2000[147](#_ENREF_147) | Yes | Yes | Yes | Yes | Yes | Yes (explant) | Unclear | Yes | Yes | Yes | Moderate |
| Lin MT, 2011[148](#_ENREF_148) | Unclear | No (all cases) | Unclear | Unclear | Unclear | Yes | Unclear | Unclear | Yes | Yes | High |
| Lin WY, 2005[149](#_ENREF_149) | Unclear | No (all cases) | Yes | Unclear | Yes | Yes | Unclear | Unclear | No | Yes | High |
| Liu, 2013[150](#_ENREF_150) | Yes | Yes | Yes | Unclear | No (for quantitative measures) | Yes (explant) | Unclear | Unclear | Yes | Yes | Moderate |
| Liu, 2012[151](#_ENREF_151) | Yes | Yes | Yes | Unclear | Yes | Yes (explant) | Unclear | Unclear | Yes | Yes | Moderate |
| Liu, 2003[152](#_ENREF_152) | Yes | No (all cases) | Yes | Unclear | Unclear | Yes (explant) | Unclear | Yes | Yes | Yes | Moderate |
| Lu CH, 2010[153](#_ENREF_153) | Unclear | No (all cases) | Yes | Unclear | Unclear | Yes (explant) | Unclear | Yes | Yes | Yes | High |
| Luca, 2010[154](#_ENREF_154) | Yes | Yes | Yes | Unclear | Yes | Yes (explant) | Yes (no radiological assistance) | Yes (mean 2 months) | Yes | Yes | Low |
| Luo, 2005[155](#_ENREF_155) | Unclear | Yes | Yes | Yes | Unclear | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Luo W, 2009[156](#_ENREF_156) | Yes | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Luo W, 2009 (2)[157](#_ENREF_157) | Yes | Yes | Yes | Yes | Unclear | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Luo W, 2009 (3)[158](#_ENREF_158) | Unclear | Yes | Unclear (16 lesions excluded for unclear reasons) | Yes | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Lv, 2012[159](#_ENREF_159) | Unclear | No (all cases) | Yes | Yes | Unclear | Yes | Unclear | Unclear | No | Yes | High |
| Lv, 2011[160](#_ENREF_160) | Unclear | Yes | Yes | Yes | Yes | Unclear | Unclear | Unclear | No | Yes | High |
| Maetani, 2008[161](#_ENREF_161) | Yes | No (all cases) | Yes | Unclear | Yes | Yes (explant) | Unclear | Yes (mean 21 days) | Yes | Yes | High |
| Marin, 2009[162](#_ENREF_162) | Yes | No (all cases) | Yes | Unclear | Yes | Yes | Unclear | Unclear | No | No (excluded 9 patients with inadequate CT) | Moderate |
| Marin, 2009 (2)[163](#_ENREF_163) | Yes | No (all cases) | Yes | Yes | Yes | Yes | Unclear | Unclear | No | No | Moderate |
| Marrero, 2005[164](#_ENREF_164) | Yes | Yes | Yes | Yes | No | Yes | Unclear | Unclear | No | Yes | Moderate |
| Matsuo, 2001[165](#_ENREF_165) | Yes | Yes | Yes | Yes | Yes | Yes | Unclear | Yes  | No | Yes | Moderate |
| Mita, 2010[166](#_ENREF_166) | Unclear | No (all cases) | Yes | Yes | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Mok, 2004[167](#_ENREF_167) | Unclear | Yes | Yes | Unclear | Unclear | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Monzawa, 2007[168](#_ENREF_168) | Unclear | No (case-control) | Yes | Unclear | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Mori, 2005[169](#_ENREF_169) | Yes | No (all cases) | Yes | Yes | Yes | Yes | Unclear | Yes | No | Yes | Moderate |
| Moriyasu, 2009[170](#_ENREF_170) | Unclear | Yes | Unclear | Yes | Unclear | Unclear | Unclear | Unclear | Yes | Yes | High |
| Mortele, 2001[171](#_ENREF_171) | Yes | Yes | Yes | Yes | Unclear | Yes (explant) | No (retrospective evaluation of pathology specimens for discordant results) | No (mean 103 days) | Yes | Yes | Moderate |
| Motosugi, 2010[172](#_ENREF_172) | Unclear | No (case-control) | Yes | Unclear | Yes | Unclear (CT only including lesions <2 cm) | Unclear | Unclear | No | Yes | High |
| Murakami, 2003[173](#_ENREF_173) | Yes | No (48/49 cases) | Yes | Unclear | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Murakami, 2001[174](#_ENREF_174) | Yes | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Nagaoka, 2006[175](#_ENREF_175) | Unclear | Yes | Yes | Yes | Yes | Unclear | Unclear | Unclear | Unclear | Yes | High |
| Nakamura, 2013[176](#_ENREF_176) | Unclear | No (all cases) | Yes | Unclear | Yes | Yes | Unclear | Unclear | Yes | Yes | High |
| Nakamura, 2000[177](#_ENREF_177) | Unclear | No (all cases) | Yes | Unclear | Unclear | Unclear | Unclear | Unclear | Yes | No (denominator varied for different imaging tests) | High |
| Nakayama, 2001[178](#_ENREF_178) | Unclear | No (all cases) | Yes | Unclear | Unclear | Yes | Unclear | Unclear | Yes | Yes | High |
| Noguchi, 2003[179](#_ENREF_179) | Yes | No (all cases) | Yes | Unclear | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Noguchi, 2002[180](#_ENREF_180) | Yes | No (all cases) | Yes | Yes | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Numata, 2014[181](#_ENREF_181) | Yes | No (all cases) | Unclear | Yes | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Onishi, 2012[182](#_ENREF_182) | Yes | No (>90% with HCC) | Yes | Yes | Yes | Unclear | Unclear | Unclear | No | Yes | Moderate |
| Ooi, 2010[183](#_ENREF_183) | Unclear | Yes | Yes | Unclear | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Ooka, 2013[184](#_ENREF_184) | Yes | No (all cases) | Yes | Unclear | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Park, 2013[185](#_ENREF_185) | Yes | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Park, 2012[186](#_ENREF_186) | Unclear | Yes | Yes | Unclear | Yes | Yes (explant) | Unclear | Yes | Yes | Unclear | Moderate |
| Park, 2011[187](#_ENREF_187) | Unclear | Yes | Yes | Yes | Yes | Yes (explant) | Yes | Yes | Yes | Yes | Moderate |
| Park, 2010[188](#_ENREF_188) | Yes | No (all cases) | Yes | Yes | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Park G, 2010[189](#_ENREF_189) | Yes | No (all cases) | Yes | Unclear | Yes | Unclear | Unclear | Unclear | Yes | Yes | Moderate |
| Park JW, 2008[190](#_ENREF_190) | Unclear | No (all cases) | Yes | No | Yes | Yes | Unclear | Yes | Yes | Yes | Moderate |
| Paul, 2007[191](#_ENREF_191) | Unclear | Yes | Yes | Unclear | Unclear | Unclear | Unclear | Unclear  | Yes | Yes | High |
| Pauleit, 2002[192](#_ENREF_192) | Yes | Yes | Yes | Unclear | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Pei, 2013[193](#_ENREF_193) | Unclear | No (case-control) | Unclear (only evaluated patients with optimum scanning nodules) | Yes | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Peterson, 2000[194](#_ENREF_194) | Yes | No (all cases) | Yes | Yes | Unclear | Yes (explant) | Unclear | No (mean 107 days) | Yes | Yes | High |
| Petruzzi, 2013[195](#_ENREF_195) | Unclear | Yes | Yes | Unclear | Yes | Yes (explant) | Unclear | Unclear | Yes | Yes | Moderate |
| Piana, 2011[196](#_ENREF_196) | Unclear | No (all cases) | Yes | Unclear | Yes | Yes (histology or AASLD criteria) | Unclear | Yes | No | Yes | High |
| Pitton, 2009[197](#_ENREF_197) | Unclear | No (all cases) | Yes | Yes | Yes | Yes (histology, except 3 patients) | Unclear | Unclear | Yes (3 patients did not have histology) | Yes | High |
| Pozzi Mucelli, 2006[198](#_ENREF_198) | Yes | Yes | Yes | Unclear | Yes | Unclear (lab/imaging follow-up criteria not described) | Unclear | Unclear | No | Yes | Moderate |
| Pugacheva, 2011[199](#_ENREF_199) | Yes | No (all cases) | Yes | Yes | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Quaia, 2009[200](#_ENREF_200) | Unclear | Yes | No | Yes | Yes | Yes (histopathology) | Unclear | Yes | Yes | No (excluded 74 patients) | Moderate |
| Quaia, 2003[201](#_ENREF_201) | Unclear | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Rhee, 2012[202](#_ENREF_202) | Yes | Yes | Unclear (excluded 49 lesions in which location on pathology did not match MRI) | Yes | No (for developing new criteria) | Yes | Unclear | Yes | No | Yes | Moderate |
| Rickes, 2003[203](#_ENREF_203) | Unclear | Yes | Unclear (excluded 5 patients with obesity) | Yes | Yes | Unclear | Unclear | Unclear | No | No (excluded 10 patients due to loss to follow-up) | High |
| Rimola, 2012[204](#_ENREF_204) | Unclear | Yes | Yes | Unclear | Yes | Yes (biopsy) | Unclear | Unclear | Yes | Yes | Moderate |
| Rizvi, 2006[205](#_ENREF_205) | Unclear | Yes | Unclear | Yes | Unclear | Yes (explant) | Unclear | Unclear | Yes | No (excluded 2/21 for unclear reasons) | High |
| Rode, 2001[206](#_ENREF_206) | Yes | Yes | Unclear | Unclear | Unclear | Yes (explant) | Yes | Yes (mean 50 days) | Yes | Yes | Moderate |
| Ronzoni, 2007[207](#_ENREF_207) | Yes | Yes | Yes | Yes | Unclear | Yes (explant) | Unclear | Unclear | Yes | Unclear | Moderate |
| Sangiovanni, 2010[208](#_ENREF_208) | Yes | Yes | Yes | No (for retrospective eval) | Yes | Yes (percuteaneous biopsy) | Yes | Yes (<2 months) | Yes | Yes | Low |
| Sano, 2011[209](#_ENREF_209) | Yes | No (all cases) | Yes | Yes | Yes | Yes (biopsy) | Yes | Yes | Yes | Yes | Moderate |
| Schima, 2006[210](#_ENREF_210) | Yes | No (all cases) | Yes | Yes | Yes | Yes | Unclear | Unclear | Unclear | Yes | High |
| Secil, 2008[211](#_ENREF_211) | Unclear | Yes | Yes | Unclear | Unclear | Yes | Unclear | Unclear | No (varied) | Yes | Moderate |
| Seitz, 2009[212](#_ENREF_212) | Yes | Yes | Yes | Yes | Unclear (for CT) | Yes (biopsy, for cases included in analysis) | Unclear | Unclear | Yes (for cases included in analysis) | Yes | Moderate |
| Seitz, 2010[213](#_ENREF_213) | Yes | Yes | Yes | Unclear (for CT) | No (for MRI) | Yes (biopsy, for cases included in analysis) | Unclear | Unclear | Yes (for cases included in analysis) | Yes | Moderate |
| Serste, 2012[214](#_ENREF_214) | Yes | Yes | Yes | Unclear (for MRI) | Yes | Yes | Yes | Yes | Yes | Yes | Low |
| Shah SA, 2006[215](#_ENREF_215) | Yes | No | Yes | Yes; imaging done prior to transplant; its interpretation is part of qualifier for transplant | Yes | Yes | Unclear | Unclear | Yes | Yes; all that met inclusion criteria | Moderate |
| Simon, 2005[216](#_ENREF_216) | Unclear | Yes | Yes | Yes | Unclear | Yes | Unclear | Unclear | No | Yes | Moderate |
| Singh, 2007[217](#_ENREF_217) | Unclear | Yes | Yes | Yes | No | Yes | Unclear | Unclear | Yes | No | High |
| Sofue, 2011[218](#_ENREF_218) | Yes | No (all cases) | Unclear (some exclusions of patients with equivocal CT/MRI findings) | Unclear | Yes | Unclear | Unclear | Unclear | No | No | High |
| Sorensen, 2011[219](#_ENREF_219) | Unclear | Yes | Yes | Unclear | Yes | Yes (EASL criteria) | Unclear | Unclear | Unclear | Yes | High |
| Strobel, 2003[220](#_ENREF_220) | Yes | Yes | Yes | Yes | Unclear | Unclear (imaging criteria not described) | Unclear | Unclear | No | Yes | High |
| Sugimoto, 2012[221](#_ENREF_221) | Yes | No (case control) | Yes | Yes | Not applicable (only AUROC reported) | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Sugimoto, 2012 (2)[222](#_ENREF_222) | Yes | No (all cases) | Yes | Yes | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Sugiyama, 2004[223](#_ENREF_223) | Unclear | No (case-control) | Yes | Unclear | Unclear | Unclear | Unclear | Unclear | No | Yes | High |
| Suh, 2011[224](#_ENREF_224) | Unclear | Yes | Yes | Yes | No | Yes | Unclear | Unclear | No | Yes | Moderate |
| Sun, 2010[225](#_ENREF_225) | Unclear | No (case-control) | Yes | Yes | Yes | Unclear | Unclear | Unclear | No | No | Moderate |
| Sun, 2009[226](#_ENREF_226) | Unclear | Yes | Yes | Yes | Yes | Unclear | Unclear | Unclear | No | Yes | High |
| Suzuki, 2004 (2)[227](#_ENREF_227) | Unclear | Yes | Yes | Unclear | Unclear | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Takahashi, 2013[228](#_ENREF_228) | Unclear | Unclear | Unclear | Yes | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Talbot, 2010[229](#_ENREF_229) | Unclear | Yes | Yes | Unclear | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Talbot, 2006[230](#_ENREF_230) | Unclear | No (all cases) | Yes | Unclear | Yes | Yes | Unclear | Unclear | No | No | High |
| Tanaka, 2005[231](#_ENREF_231) | Yes | Yes | Unclear | Unclear | Unclear | Unclear | Unclear | Unclear | No (varied) | Unclear | High |
| Tanaka, 2001[232](#_ENREF_232) | Unclear | Yes | Yes | Unclear | Yes | No (some lesions based on single imaging test) | Unclear | Unclear | No | Yes | Moderate |
| Tang, 1999[233](#_ENREF_233) | Unclear | No (all cases) | Unclear | Yes | Yes | Yes (based on biopsy or AFP, imaging findings, and response to treatment) | Unclear | Unclear (<1 month in patients with histological diagnosis) | No (varied) | Unclear | High |
| Tanimoto, 2002[234](#_ENREF_234) | Yes | No (all cases) | Yes | Unclear | Yes | Unclear | Unclear | Unclear | No | Yes | High |
| Teefey, 2003[235](#_ENREF_235) | Unclear | Yes | Unclear | Unclear | Yes | Yes (explant) | Unclear | No (mean 5.3 months) | Yes | No (10/37 excluded) | Moderate |
| Toyota, 2013[236](#_ENREF_236) | Unclear | No (all cases) | Yes | Yes | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Trojan, 1999[237](#_ENREF_237) | Yes | No (all cases) | Yes | Yes | Unclear | Yes (histopathological) | Unclear | Unclear | Yes | Yes | Moderate |
| Tsurusaki, 2008[238](#_ENREF_238) | Yes | No (all cases) | Yes | Unclear | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Valls, 2004[239](#_ENREF_239) | Unclear | Yes | Yes | Unclear | Yes | Yes (explant) | Unclear | No (mean 6.6 months) | Yes | Yes | Moderate |
| Van Thiel, 2004[240](#_ENREF_240) | Yes | Yes | Yes | Yes | Yes | Yes (explant) | Unclear | Unclear | Yes | Unclear | Moderate |
| Vandecaveye, 2009[241](#_ENREF_241) | Yes | Yes | Yes | Unclear | Yes | Yes (surgical pathology, percutaneous biopsy, or follow-up MRI) | Unclear | No (median 4 months for explant) | No | Yes | Moderate |
| Verhoef, 2002[242](#_ENREF_242) | Yes | Yes | Yes | Unclear | Yes | Yes (histopathological) | Unclear | Yes (<3 months) | Yes | Yes | Moderate |
| Wagnetz, 2011[243](#_ENREF_243) | Yes | Yes | Yes | Unclear | Unclear | Yes (surgical biopsy) | Unclear | Yes | Yes | Yes | Moderate |
| Wang, 2008[244](#_ENREF_244) | Yes | Yes | Yes | Unclear | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Wang, 2006[245](#_ENREF_245) | Yes | Yes | Yes | Unclear | Unclear | Unclear | Unclear | Unclear | No | Yes | Moderate |
| Wolfort, 2010[246](#_ENREF_246)  | Yes | No (all cases) | Yes | Yes | Yes | Yes | Unclear | Unclear | Yes | No (denominator discrepancies in subgroup analyses) | High |
| Wu, 2011[247](#_ENREF_247) | Yes | No (all cases) | Yes | Unclear | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Wudel, 2003[248](#_ENREF_248) | Yes | No (all cases) | Yes | Yes | Unclear | Unclear (not described for most patients) | Unclear | Unclear | No | Yes | High |
| Xiao, 2005[249](#_ENREF_249) | Unclear | No (all cases) | Yes | Unclear | Unclear | Unclear | Unclear | Unclear | No | No | High |
| Xu, 2012[250](#_ENREF_250) | Yes | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Xu, 2010[251](#_ENREF_251) | Unclear | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Xu, 2009[252](#_ENREF_252) | Unclear | No (all caes) | Yes | Yes | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Xu, 2008[253](#_ENREF_253) | Yes | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Yamamoto, 2008[254](#_ENREF_254) | Yes | No (all cases) | Yes | Yes | Unclear | Unclear | Unclear | Yes (mean 22 days) | Unclear | Yes | High |
| Yamamoto, 2002[255](#_ENREF_255) | Unclear | No (all cases) | Yes | Yes | Yes | Unclear | Unclear | Unclear | Unclear | Yes | High |
| Yan, 2002[256](#_ENREF_256) | Unclear | No (all cases) | Yes | Unclear | Unclear | Unclear | Unclear | Unclear | No | Yes | High |
| Yoo, 2013[257](#_ENREF_257) | Yes | No (all cases) | Yes | Unclear | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Yoo, 2009[258](#_ENREF_258) | Yes | Yes | Yes | Unclear | Yes | Yes | Unclear | Yes | Yes | Yes | Moderate |
| Yoon, 2007[259](#_ENREF_259) | Yes | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Yoshioka, 2002[260](#_ENREF_260) | Yes | Yes | Yes | Unclear | Unclear | Yes | Unclear | Unclear | No | Yes | Moderate |
| Youk, 2004[261](#_ENREF_261) | Unclear | No (all cases) | Yes | Yes | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Yu, 2013[262](#_ENREF_262) | Unclear | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Yu, 2013 (2)[263](#_ENREF_263) | Yes | No | Yes | Yes | No | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Yu, 2013 (3)[264](#_ENREF_264) | Yes | No | Yes | Yes | No | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Yu, 2011[265](#_ENREF_265) | Unclear | Yes | Yes | Yes | Unclear | Yes | Unclear (also not blinded to other imaging) | Unclear | Yes | Yes (<10% excluded) | Moderate |
| Yu, 2009[266](#_ENREF_266) | Yes | No (all cases) | Yes | Unclear | Yes | Yes | Unclear | Unclear | No | No (excluded 24 without reference standard diagnosis) | High |
| Yu, 2008[267](#_ENREF_267) | Unclear | No (all cases) | Yes | Unclear | Yes | Yes | Unclear | Unclear | No | Yes | High |
| Yu, 2002[268](#_ENREF_268) | Unclear | No (case-control) | Unclear (excluded patients with transvasal arterioportal shunt or gross portal vein thrombosis) | Unclear | Yes | Unclear | Unclear | Unclear | No | Yes | High |
| Yukisawa, 2007[269](#_ENREF_269) | Yes | No (all cases) | Yes | Unclear | Yes | Yes | Unclear | Unclear | No | Yes | Moderate |
| Zacherl, 2002[270](#_ENREF_270) | Yes | No (all cases) | Yes | Yes | Unclear | Yes (explant) | Unclear | Yes | Yes | Unclear | High |
| Zhao, 2007[271](#_ENREF_271) | Unclear | No (all cases) | Unclear | Yes | Yes | Yes | Unclear | Unclear | No | Yes | High |
| Zhao, 2004[272](#_ENREF_272) | Unclear | No (all cases) | Unclear | Yes | Yes | Yes | Unclear | Unclear | No | Yes | High |
| Zhao, 2003[273](#_ENREF_273) | Unclear | No (all cases) | Yes | Unclear | Unclear | Unclear | Unclear | Unclear | No | Yes | High |
| Zheng, 2005[274](#_ENREF_274) | Unclear | No (all cases) | Yes | Unclear | Unclear | Unclear | Unclear | Unclear | No | Yes | High |
| Zhou, 2002[275](#_ENREF_275) | Unclear | No (all cases) | Yes | Unclear | Unclear | Unclear | Unclear | Unclear | Yes | Yes | High |