

Supplementary appendix S1: Search strategy

1. Pubmed

((liver neoplasms[MeSH Terms]) OR (Neoplasms, Hepatic[Title/Abstract] OR Neoplasms, Liver[Title/Abstract] OR Liver Neoplasm[Title/Abstract] OR Neoplasm, Liver[Title/Abstract] OR Hepatic Neoplasms[Title/Abstract] OR Hepatic Neoplasm[Title/Abstract] OR Neoplasm, Hepatic[Title/Abstract] OR Cancer of Liver[Title/Abstract] OR Hepatocellular Cancer[Title/Abstract] OR Cancers, Hepatocellular[Title/Abstract] OR Hepatocellular Cancers[Title/Abstract] OR Hepatic Cancer[Title/Abstract] OR Cancer, Hepatic[Title/Abstract] OR Cancers, Hepatic[Title/Abstract] OR Hepatic Cancers[Title/Abstract] OR Liver Cancer[Title/Abstract] OR Cancer, Liver[Title/Abstract] OR Cancers, Liver[Title/Abstract] OR Liver Cancers[Title/Abstract] OR Cancer of the Liver[Title/Abstract] OR Cancer, Hepatocellular[Title/Abstract] OR focal liver lesions[Title/Abstract] OR FLL[Title/Abstract] OR hepatocellular carcinoma[Title/Abstract]) OR cholangiocarcinoma[Title/Abstract] OR metastatic hepatic carcinoma[Title/Abstract] OR liver metastases[Title/Abstract] OR liver tumor[Title/Abstract] OR focal nodular hyperplasia[Title/Abstract] OR liver adenoma[Title/Abstract] OR liver abscess[Title/Abstract])) AND (sonazoid OR perfluorobutane OR NC 100100 OR DD 723 OR Kupffer phase)

2. Cochrane library

((Neoplasms, Hepatic):ti,ab,kw OR (Neoplasms, Liver):ti,ab,kw OR (Liver Neoplasm):ti,ab,kw OR (Neoplasm, Liver):ti,ab,kw OR (Hepatic Neoplasms):ti,ab,kw OR (Hepatic Neoplasm):ti,ab,kw OR (Neoplasm, Hepatic):ti,ab,kw OR (Cancer of Liver):ti,ab,kw OR (Hepatocellular Cancer):ti,ab,kw OR (Cancers, Hepatocellular):ti,ab,kw OR (Hepatocellular Cancers):ti,ab,kw OR (Hepatic Cancer):ti,ab,kw OR (Cancer, Hepatic):ti,ab,kw OR (Cancers, Hepatic):ti,ab,kw OR (Hepatic Cancers):ti,ab,kw OR (Liver Cancer):ti,ab,kw OR (Cancer, Liver):ti,ab,kw OR (Cancers, Liver):ti,ab,kw OR (Liver Cancers):ti,ab,kw OR (Cancer of the Liver):ti,ab,kw OR (Cancer, Hepatocellular):ti,ab,kw OR (focal liver lesions):ti,ab,kw OR (FLL):ti,ab,kw OR (hepatocellular carcinoma):ti,ab,kw) AND ((sonazoid):ti,ab,kw OR (perfluorobutane):ti,ab,kw OR (NC 100100):ti,ab,kw OR (DD 723):ti,ab,kw OR (Kupffer phase):ti,ab,kw)

3. Embase

('liver tumor':ab,kw,ti OR 'liver neoplasms':ab,kw,ti OR 'neoplasms, hepatic':ab,kw,ti OR 'neoplasms, liver':ab,kw,ti OR 'liver neoplasm':ab,kw,ti OR 'neoplasm, liver':ab,kw,ti OR 'hepatic neoplasms':ab,kw,ti OR 'hepatic neoplasm':ab,kw,ti OR 'neoplasm, hepatic':ab,kw,ti OR 'cancer of liver':ab,kw,ti OR 'hepatocellular cancer':ab,kw,ti OR 'cancers, hepatocellular':ab,kw,ti OR 'hepatocellular cancers':ab,kw,ti OR 'hepatic cancer':ab,kw,ti OR 'cancer, hepatic':ab,kw,ti OR 'cancers, hepatic':ab,kw,ti OR 'hepatic cancers':ab,kw,ti OR 'liver cancer':ab,kw,ti OR 'cancer, liver':ab,kw,ti OR 'cancers, liver':ab,kw,ti OR 'liver cancers':ab,kw,ti OR 'cancer of the liver':ab,kw,ti OR 'cancer, hepatocellular':ab,kw,ti OR 'focal liver lesions':ab,kw,ti OR fll:ab,kw,ti OR 'hepatocellular carcinoma':ab,kw,ti OR cholangiocarcinoma:ab,kw,ti OR 'metastatic hepatic carcinoma':ab,kw,ti OR 'liver metastases':ab,kw,ti OR 'liver tumor':ab,kw,ti OR 'focal nodular hyperplasia':ab,kw,ti OR 'liver adenoma':ab,kw,ti OR 'liver abscess':ab,kw,ti) AND ('sonazoid':ab,kw,ti OR 'perfluorobutane':ab,kw,ti OR 'nc 100100':ab,kw,ti OR 'dd 723':ab,kw,ti OR 'kupffer phase':ab,kw,ti)

4. Web of science

(TS=(liver neoplasms) OR AB=(Liver Neoplasm OR Hepatic Neoplasms OR Hepatic Neoplasm OR Cancer of Liver OR Hepatocellular Cancer OR Hepatocellular Cancers OR Hepatic Cancer OR Hepatic Cancers OR Liver Cancer OR Liver Cancers OR Cancer of the Liver OR focal liver lesions OR FLL OR hepatocellular carcinoma OR cholangiocarcinoma OR metastatic hepatic carcinoma OR liver metastases OR liver tumor OR focal nodular hyperplasia OR liver adenoma OR liver abscess)) AND (AB=(sonazoid OR perfluorobutane OR NC 100100 OR DD 723 OR Kupffer phase))