**Search Strategy**

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| **Database** | **Search Strategy** |
| PubMed | #1: Liver Neoplasms[MeSH Terms] OR Liver Neoplasms[tiab] OR Neoplasms, Hepatic[tiab] OR Neoplasms, Liver[tiab] OR Liver Neoplasm[tiab] OR Neoplasm, Liver[tiab] OR Hepatic Neoplasms[tiab] OR Hepatic Neoplasm[tiab] OR Neoplasm, Hepatic[tiab] OR Cancer of Liver[tiab] OR Hepatocellular Cancer[tiab] OR Cancers, Hepatocellular[tiab] OR Hepatocellular Cancers[tiab] OR Hepatic Cancer[tiab] OR Cancer, Hepatic[tiab] OR Cancers, Hepatic[tiab] OR Hepatic Cancers[tiab] OR Liver Cancer[tiab] OR Cancer, Liver[tiab] OR Cancers, Liver[tiab] OR Liver Cancers[tiab] OR Cancer of the Liver[tiab] OR Cancer, Hepatocellular[tiab]  #2: (randomized controlled trial[pt] OR controlled clinical trial[pt] OR randomized[tiab] OR placebo[tiab] OR drug therapy[sh] OR randomly[tiab] OR trial[tiab] OR groups[tiab]) NOT (animals[mh] NOT humans[mh])  #3: Placebos[MeSH Terms] OR Placebos[ALL] OR Sham Treatment[ALL]  #4: #1 AND #2 AND #3  #5: #1 AND #2 AND #3 from 1970 - 2023 |
| Ovid MEDLINE | #1: AllFields:randomized controlled trial.pt. or controlled clinical trial.pt. or randomized.ab. or placebo.ab. or drug therapy.fs. or randomly.ab. or trial.ab. or groups.ab.  #2: JournalName:Liver Neoplasms OR Neoplasms, Hepatic OR Neoplasms, Liver OR Liver Neoplasm OR Neoplasm, Liver OR Hepatic Neoplasms OR Hepatic Neoplasm OR Neoplasm, Hepatic OR Cancer of Liver OR Hepatocellular Cancer OR Cancers, Hepatocellular OR Hepatocellular Cancers OR Hepatic Cancer OR Cancer, Hepatic OR Cancers, Hepatic OR Hepatic Cancers OR Liver Cancer OR Cancer, Liver OR Cancers, Liver OR Liver Cancers OR Cancer of the Liver OR Cancer, Hepatocellular  #3: Abstract:Liver Neoplasms OR Neoplasms, Hepatic OR Neoplasms, Liver OR Liver Neoplasm OR Neoplasm, Liver OR Hepatic Neoplasms OR Hepatic Neoplasm OR Neoplasm, Hepatic OR Cancer of Liver OR Hepatocellular Cancer OR Cancers, Hepatocellular OR Hepatocellular Cancers OR Hepatic Cancer OR Cancer, Hepatic OR Cancers, Hepatic OR Hepatic Cancers OR Liver Cancer OR Cancer, Liver OR Cancers, Liver OR Liver Cancers OR Cancer of the Liver OR Cancer, Hepatocellular  #4: AllFields:Placebos  #5: (AllFields:randomized controlled trial.pt. or controlled clinical trial.pt. or randomized.ab. or placebo.ab. or drug therapy.fs. or randomly.ab. or trial.ab. or groups.ab.) AND (AllFields:(JournalName:Liver Neoplasms OR Neoplasms, Hepatic OR Neoplasms, Liver OR Liver Neoplasm OR Neoplasm, Liver OR Hepatic Neoplasms OR Hepatic Neoplasm OR Neoplasm, Hepatic OR Cancer of Liver OR Hepatocellular Cancer OR Cancers, Hepatocellular OR Hepatocellular Cancers OR Hepatic Cancer OR Cancer, Hepatic OR Cancers, Hepatic OR Hepatic Cancers OR Liver Cancer OR Cancer, Liver OR Cancers, Liver OR Liver Cancers OR Cancer of the Liver OR Cancer, Hepatocellular) OR (Abstract:Liver Neoplasms OR Neoplasms, Hepatic OR Neoplasms, Liver OR Liver Neoplasm OR Neoplasm, Liver OR Hepatic Neoplasms OR Hepatic Neoplasm OR Neoplasm, Hepatic OR Cancer of Liver OR Hepatocellular Cancer OR Cancers, Hepatocellular OR Hepatocellular Cancers OR Hepatic Cancer OR Cancer, Hepatic OR Cancers, Hepatic OR Hepatic Cancers OR Liver Cancer OR Cancer, Liver OR Cancers, Liver OR Liver Cancers OR Cancer of the Liver OR Cancer, Hepatocellular)) AND (AllFields:Placebos) |
| Embase | ('liver neoplasm'/exp OR 'liver neoplasm' OR 'hepatic neoplasm'/exp OR 'hepatic neoplasm' OR 'cancer of liver' OR 'hepatocellular cancer' OR 'cancers, hepatocellular' OR 'hepatocellular cancers' OR 'hepatic cancer' OR 'cancer, hepatic' OR 'cancers, hepatic' OR 'hepatic cancers' OR 'liver cancer' OR 'cancer, liver' OR 'cancers, liver' OR 'liver cancers' OR 'cancer of the liver' OR 'cancer, hepatocellular')AND('randomized controlled trial'/exp OR randomized OR placebo) NOT ('animal'/exp NOT human'/exp)  AND('placebo'/exp OR 'placebo')AND year = 1970-2023 |
| Cochrane Library | ("liver NEXT neoplasm" OR "hepatocellular NEXT carcinoma" OR "neoplasm, liver" OR "neoplasms, liver" OR "cancer of liver" OR "hepatocellular cancer" OR "cancers, hepatocellular" OR "hepatocellular cancers" OR "hepatic cancer" OR "cancer, hepatic" OR "cancers, hepatic" OR "hepatic cancers" OR "liver cancer" OR "cancer, liver" OR "cancers, liver" OR "liver cancers" OR "cancer of the liver" OR "cancer, hepatocellular") AND 'randomized controlled trial' AND (YEAR "1970" to "2023") |