

Supplementary Table 2. Search queries according to database

Database	Number	Search query	Results
PubMed	1	"Carcinoma, Hepatocellular"[Mesh] OR "Liver Neoplasms"[Mesh:NoExp]	183,568
	2	(Hepatocellular*[TW] OR liver-cell*[TW] OR hepatic-cell*[TW] OR Hepato-Cell*[TW]) AND (carcinoma*[TW] OR cancer*[TW] OR tumor*[TW] OR tumour*[TW] OR neoplas*[TW] OR malignan*[TW])	162,816
	3	hepatocarcinoma*[TW] OR hepatoma*[TW] OR "liver carcinoma"[TW] OR HCC[TW]	112,062
	4	#1 OR #2 OR #3	253,291
	5	"liver imaging reporting and data system"[TW] OR "liver reporting and data system"[TW]	558
	6	Liver-Imag*[TW] OR Liver-report*[TW]	2,234
	7	"Algorithms"[Mesh] OR "Data Systems"[Mesh] OR Data-System*[TW]	455,727
	8	#6 AND #7	729
	9	LI-RAD*[TW] OR LIRAD*[TW]	763
	10	#5 OR #8 OR #9	975
	11	"Magnetic Resonance Imaging"[Mesh]	539,815
	12	(Magnet*[TW] AND Resonanc*[TW]) OR "MR"[TW] OR "MRI"[TW] OR "MRI scan"[TW]	1,038,817
	13	"Tomography, X-Ray Computed"[Mesh]	496,661
	14	(comput*[TW] AND tomograp*[TW]) OR "CT scan"[TW] OR "CT"[TW]	878,618
	15	#11 OR #12 OR #13 OR #14	1,757,488
	16	#4 AND #10 AND #15	712
	17	#16 AND ("2018/01/01"[PDAT]: "3000/12/31"[PDAT])	635
	18	#17 NOT (Review[ptyp] OR review*[TI] OR Meta-Analysis[ptyp] OR Meta-Analys*[TW] OR systematic[sb] OR "Systematic Review"[Ptyp] OR systematic*[TI] OR Letter[ptyp] OR Letter[TI] OR reply[TI] OR Comment[ptyp] OR "Editorial"[ptyp] OR Editorial*[TW] OR Conferenc*[TI] OR Autobiography[ptyp] OR Bibliography[ptyp] OR Biography[ptyp] OR pubmed books[filter] OR Comment[ptyp] OR Dataset[ptyp] OR Dictionary[ptyp] OR Editorial[ptyp] OR Electronic Supplementary Materials[ptyp] OR Interview[ptyp] OR Legislation[ptyp] OR News[ptyp] OR Newspaper Article[ptyp] OR Retracted Publication[sb] OR Retraction of Publication[sb] OR Technical Report[ptyp])	459
EMBASE	1	'liver cell carcinoma/exp OR 'liver cancer'/de	248,696
	2	(Hepatocellular* OR liver-cell* OR hepatic-cell* OR Hepato-cell*) NEAR/6 (Cancer* OR tumor* OR tumour* OR Neoplas* OR carcinoma* OR malignan*)	243,231
	3	hepatocarcinoma* OR hepatoma* OR 'liver carcinoma' OR HCC	166,681
	4	#1 OR #2 OR #3	308,609
	5	'liver imaging reporting and data system'/exp	814
	6	liver* NEAR/6 imag* NEAR/6 report* NEAR/6 data NEAR/6 system*	1,095
	7	liver* NEAR/6 report* NEAR/6 data NEAR/6 system*	1,122
	8	LI-RAD* OR LIRAD*	1,284
	9	#5 OR #6 OR #7 OR #8	1,535
	10	'nuclear magnetic resonance imaging'/exp	1,261,864
	11	(Magnet* NEAR/6 Resonanc*) OR 'MR' OR 'MRI' OR 'MRI scan'	1,856,926
	12	'x-ray computed tomography'/exp	107,993
	13	(comput* NEAR/6 tomograp*) OR 'CT' OR 'CT scan'	1,953,614
	14	#10 OR #11 OR #12 OR #13	3,395,879
	15	#4 AND #9 AND #14	1,016
	16	#15 AND [2018-2023]/py	902
	17	#16 NOT ([conference abstract]/lim OR [conference review]/lim OR [review]/lim OR review*: ti OR meta-analys*: ti OR systematic-review*: ti OR letter: ti) AND ([article]/lim OR [article in press]/lim)	552

Supplementary Table 2. Continued

Database	Number	Search query	Results
Cochrane	1	[mh "Carcinoma, Hepatocellular"] OR [mh ^"Liver Neoplasms"]	3,977
	2	(Hepatocellular* OR liver-cell* OR hepatic-cell* OR Hepato-cell*) NEAR/6 (Cancer* OR tumor* OR tumour* OR Neoplas* OR carcinoma* OR malignan*)	6,732
	3	hepatocarcinoma* OR hepatoma* OR "liver carcinoma" OR HCC	4,618
	4	#1 OR #2 OR #3	8,832
	5	(liver* NEAR/6 imag* NEAR/6 report* NEAR/6 data NEAR/6 system*) OR (liver* NEAR/6 report* NEAR/6 data NEAR/6 system*)	13
	6	Liver NEAR/6 (Imag* OR report*)	2,674
	7	[mh "Algorithms"] OR [mh "Data Systems"] OR (Data NEAR/6 System*)	15,405
	8	#6 AND #7	149
	9	LI-RAD* OR LIRAD*	38
	10	#5 OR #8 OR #9	177
	11	[mh "Magnetic Resonance Imaging"]	11,019
	12	(Magnet* NEAR/6 Resonanc*) OR "MR" OR "MRI" OR "MRI scan"	75,483
	13	[mh "Tomography, X-Ray Computed"]	7,348
	14	(comput* NEAR/6 tomograp*) OR "CT scan" OR "CT"	357,557
	15	#11 OR #12 OR #13 OR #14	414,439
	16	#4 AND #10 AND #15	49
	17	#16 in Trials (Published); 2018-2023	18