

Supplementary Table 1. Search strategies
 PubMed

No.	Search Query	Results
#1	"Hepatitis, Autoimmune"[Mesh]	4,324
#2	Autoimmune[TW] AND (Hepatitis[TW] OR Hepatitides[TW] OR "liver diseas*" [TW])	14,620
#3	AIH[TW]	3,202
#4	"Cholangitis, Sclerosing"[Mesh]	4,633
#5	"liver cirrhosis, biliary"[Mesh]	8,710
#6	"primary biliary cirrhos*" [TW] OR "primary biliary cholangit*" [TW] OR "Primary sclerosing cholangitis" [TW] OR "biliary liver cirrhosis" [TW]	13,951
#7	"overlap syndrome*" [TW]	2,906
#8	#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7	32,055
#9	non-invasiv* [TW] OR noninvasiv* [TW]	240,882
#10	"APRI" [TW] OR "aspartate aminotransferase to platelet ratio index" [TW] OR "AST to platelet ratio index" [TW]	2,209
#11	"fibrosis-4" [TW] OR "fibrosis-4 index" [TW] OR "FIB-4" [TW]	2,801
#12	Fibrotest* [TW]	415
#13	"aspartate aminotransferase/alanine aminotransferase ratio" [TW] OR "aspartate aminotransferase alanine aminotransferase ratio" [TW] OR AAR [TW] OR "AST/ALT ratio" [TW]	2,115
#14	"Elasticity Imaging Techniques"[Mesh]	11,583
#15	"Elasticity Imag*" [TW] OR elastograp* [TW]	16,846
#16	"FibroScan" [TW] OR "transient elastograp*" [TW] OR TE [TW]	35,806
#17	"vibration controlled transient elastograp*" [TW] OR VCTE [TW] OR FibroMeter [TW] OR FMVCTE [TW]	499
#18	"shear wave elastograp*" [TW] OR SWE [TW]	4,312
#19	"magnetic resonance elastograp*" [TW] OR "MR elastograp*" [TW] OR MRE [TW]	3,556
#20	"Acoustic Radiation Force Impuls*" [TW] OR ARFI [TW]	1,173
#21	"Platelet count to spleen diameter ratio" [TW] OR "PC/SD" [TW]	41
#22	#9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19 OR #20 OR #21	291,447
#23	#8 AND #22	694
#24	#23 NOT (animals[Mesh:noexp] NOT (animals[Mesh:noexp] AND humans[Mesh]))	682
#25	#24 NOT ("Review"[ptyp] OR "Systematic Review"[ptyp] OR "Meta-Analysis"[ptyp] OR Review*[TI] OR Meta-Analys*[TI] OR "Systematic Literature"* [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] OR Letter[ptyp])	513
#26	#25 AND ("1950/01/01"[PDAT] : "2023/05/31"[PDAT]) AND (English[Lang])	478

EMBASE

No.	Search Query	Results
#1	'autoimmune liver disease'/exp OR 'autoimmune hepatitis'/exp	17,262
#2	(Autoimmune NEAR/6 (Hepatitis OR Hepatitides OR 'liver diseas*')):ab,ti,kw	17,134
#3	AIH:ab,ti,kw	6,385
#4	'primary biliary cirrhosis'/exp OR 'primary sclerosing cholangitis'/exp	22,039
#5	'biliary cirrhosis'/exp	5,201

Supplementary Table 1. Continued

No.	Search Query	Results
#6	('primary biliary cirrhosis*' OR "primary biliary cholangit*" OR "Primary sclerosing cholangitis" OR "biliary liver cirrhosis"):ab,ti,kw	21,837
#7	'overlap syndrome'/exp OR 'overlap syndrome*':ab,ti,kw	5,660
#8	#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7	51,978
#9	(non-invasiv* OR noninvasiv*):ab,ti,kw	353,002
#10	('APRI' OR 'aspartate aminotransferase to platelet ratio index' OR 'AST to platelet ratio index'):ab,ti,kw	4,941
#11	('fibrosis-4' OR 'fibrosis-4 index' OR 'FIB-4'):ab,ti,kw	6,047
#12	Fibrotest*:ab,ti,kw	1,027
#13	('aspartate aminotransferase/alanine aminotransferase ratio' OR 'aspartate aminotransferase alanine aminotransferase ratio' OR AAR OR 'AST/ALT ratio'):ab,ti,kw	3,831
#14	'elastography'/exp	39,052
#15	('Elasticity Imag*' OR elastograp*):ab,ti,kw	22,886
#16	('FibroScan' OR 'transient elastograp*' OR TE):ab,ti,kw	54,825
#17	('vibration controlled transient elastograp*' OR VCTE OR FibroMeter OR FMVCTE):ab,ti,kw	1,043
#18	('shear wave elastograp*' OR SWE):ab,ti,kw	6,276
#19	('magnetic resonance elastograp*' OR 'MR elastograp*' OR MRE):ab,ti,kw	5,267
#20	('Acoustic Radiation Force Impuls*' OR ARFI):ab,ti,kw	2,042
#21	('Platelet count to spleen diameter ratio' OR 'PC/SD'):ab,ti,kw	76
#22	#9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19 OR #20 OR #21	441,283
#23	#8 AND #22	2,202
#24	#23 NOT ('animal'/de NOT ('animal'/de AND 'human'/exp)) AND [english]/lim	2,121
#25	#24 NOT ([review]/lim OR [conference review]/lim OR [systematic review]/lim OR [meta analysis]/lim OR 'systematic review'/exp OR 'systematic review (topic)/exp OR [data papers]/lim OR [editorial]/lim OR [erratum]/lim OR [letter]/lim OR [note]/lim OR [short survey]/lim OR Review*:ti OR Meta-Analys*:ti OR 'Systematic Literature*':ti)	1,792
#26	#25 AND ([english]/lim) AND [1966-2023]/py	1,792

Cochrane Library Trials

No.	Search Query	Results
#1	[mh "Hepatitis, Autoimmune"]	42
#2	(Autoimmune NEAR/6 (Hepatitis OR Hepatitides OR "liver diseas*")):ab,ti,kw	324
#3	AIH:ab,ti,kw	160
#4	[mh "Cholangitis, Sclerosing"]	127
#5	[mh "liver cirrhosis, biliary"]	363
#6	("primary biliary cirrhosis*" OR "primary biliary cholangit*" OR "Primary sclerosing cholangitis" OR "biliary liver cirrhosis"):ab,ti,kw	340
#7	overlap syndrome*:ab,ti,kw	122
#8	#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7	1,174
#9	(non-invasiv* OR noninvasiv*):ab,ti,kw	23,289
#10	("APRI" OR "aspartate aminotransferase to platelet ratio index" OR "AST to platelet ratio index"):ab,ti,kw	227
#11	("fibrosis-4" OR "fibrosis-4 index" OR "FIB-4"):ab,ti,kw	330
#12	Fibrotest*:ab,ti,kw	109
#13	("aspartate aminotransferase/alanine aminotransferase ratio" OR "aspartate aminotransferase alanine aminotransferase ratio" OR AAR OR "AST/ALT ratio"):ab,ti,kw	221

Supplementary Table 1. Continued

No.	Search Query	Results
#14	[mh "Elasticity Imaging Techniques"]	216
#15	("Elasticity Imag*" OR elastograp*):ab,ti,kw	1,053
#16	("FibroScan" OR "transient elastograp*" OR TE):ab,ti,kw	5,594
#17	("vibration controlled transient elastograp*" OR VCTE OR FibroMeter OR FMVCTE):ab,ti,kw	53
#18	("shear wave elastograp*" OR SWE):ab,ti,kw	237
#19	("magnetic resonance elastograp*" OR "MR elastograp*" OR MRE):ab,ti,kw	184
#20	("Acoustic Radiation Force Impuls*" OR ARFI):ab,ti,kw	36
#21	("Platelet count to spleen diameter ratio" OR "PC/SD"):ab,ti,kw	1
#22	#9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19 OR #20 OR #21	30,045
#23	#8 AND #22	68
#24	#23 with Publication Year from 1950 to 2023, in Trials	68

CINAHL

No.	Search Query	Results
S1	(MH "Hepatitis, Autoimmune")	582
S2	Autoimmune AND (Hepatitis OR Hepatitides OR "liver diseas*")	1,746
S3	AIH	736
S4	(MH "Cholangitis, Sclerosing")	637
S5	"liver cirrhosis, biliary"	1
S6	"primary biliary cirrhos*" OR "primary biliary cholangit*" OR "Primary sclerosing cholangitis" OR "biliary liver cirrhosis"	1,435
S7	"overlap syndrome"	526
S8	S1 OR S2 OR S3 OR S4 OR S5 OR S6 OR S7	3,745
S9	non-invasiv* OR noninvasiv*	45,494
S10	"APRI" OR "aspartate aminotransferase to platelet ratio index" OR "AST to platelet ratio index"	483
S11	"fibrosis-4" OR "fibrosis-4 index" OR "FIB-4"	500
S12	Fibrotest*	57
S13	"aspartate aminotransferase/alanine aminotransferase ratio" OR "aspartate aminotransferase alanine aminotransferase ratio" OR AAR OR "AST/ALT ratio"	477
S14	"Elasticity Imag*"	106
S15	elastograp*	3,905
S16	"FibroScan" OR "transient elastograp*" OR TE	12,890
S17	"vibration controlled transient elastograp*" OR VCTE OR FibroMeter OR FMVCTE	84
S18	"shear wave elastograp*" OR SWE	1,500
S19	"magnetic resonance elastograp*" OR "MR elastograp*" OR MRE	783
S20	"Acoustic Radiation Force Impuls*" OR ARFI	428
S21	"Platelet count to spleen diameter ratio" OR "PC/SD"	7
S22	S9 OR S10 OR S11 OR S12 OR S13 OR S14 OR S15 OR S16 OR S17 OR S18 OR S19 OR S20 OR S21	62,083
S23	S8 AND S22	117
S24	S23 Limiters - Published Date: 19500101-20230531; English Language; Human; Publication Type: Clinical Trial, Journal Article, Proceedings, Randomized Controlled Trial	38

Supplementary Table 1. Continued

Web of Science

No.	Search Query	Results
#1	TS=(Autoimmune AND (Hepatitis OR Hepatitides OR "liver diseases**"))	14,697
#2	TS=(AIH)	2,922
#3	TS=("primary biliary cirrhos*" OR "primary biliary cholangit*" OR "Primary sclerosing cholangitis" OR "biliary liver cirrhosis")	20,670
#4	TS="overlap syndrome**"	3,194
#5	#1 OR #2 OR #3 OR #4	35,279
#6	TS=(non-invasiv* OR noninvasiv*)	266,596
#7	TS=("APRI" OR "aspartate aminotransferase to platelet ratio index" OR "AST to platelet ratio index")	2,261
#8	TS=("fibrosis-4" OR "fibrosis-4 index" OR "FIB-4")	2,766
#9	TS=Fibrotest*	777
#10	TS=("aspartate aminotransferase/alanine aminotransferase ratio" OR "aspartate aminotransferase alanine aminotransferase ratio" OR AAR OR "AST/ALT ratio")	3,340
#11	TS=("Elasticity Imag*" OR elastograp*)	21,441
#12	TS=("FibroScan" OR "transient elastograp*" OR TE)	89,219
#13	TS=("vibration controlled transient elastograp*" OR VCTE OR FibroMeter OR FMVCTE)	502
#14	TS=("shear wave elastograp*" OR SWE)	8,059
#15	TS=("magnetic resonance elastograp*" OR "MR elastograp*" OR MRE)	7,029
#16	TS=("Acoustic Radiation Force Impuls*" OR ARFI)	1,764
#17	TS=("Platelet count to spleen diameter ratio" OR "PC/SD")	33
#18	#6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17	376,272
#19	#5 AND #18	845
#20	#19 AND PY=(1983-2023) AND LANGUAGE:(English)	817
#21	#20 Refined by: DOCUMENT TYPES: (ARTICLE OR Procceding paper OR EARLY ACCESS OR Meeting Abstract)	662