

## ONLINE-ONLY SUPPLEMENTARY MATERIAL

**Table S1.** Syntax used through database searching on PubMed, Scopus, Web of Science and ClinicalTrials.gov (for PPAR agonists).

### *PubMed <up to May 1, 2021>*

#1	Search "nonalcoholic fatty liver AND peroxisome proliferator-activated receptor" IN "humans"	465
#2	Search "fatty liver AND peroxisome proliferator-activated receptor" IN "humans"	1327
#3	Search "NAFLD AND peroxisome proliferator-activated receptor" IN "humans"	418
#4	Search "nonalcoholic steatohepatitis AND peroxisome proliferator-activated receptor" IN "humans"	415
#5	Search "NASH AND peroxisome proliferator-activated receptor" IN "humans"	128
#6	Search "nonalcoholic fatty liver AND PPAR" IN "humans"	419
#7	Search "fatty liver AND PPAR" IN "humans"	1225
#8	Search "NAFLD AND PPAR" IN "humans"	376
#9	Search "nonalcoholic steatohepatitis AND PPAR" IN "humans"	375
#10	Search "NASH AND PPAR" IN "humans"	123
#11	Search "nonalcoholic fatty liver AND pioglitazone" IN "humans"	209
#12	Search "fatty liver AND pioglitazone" IN "humans"	270
#13	Search "NAFLD AND pioglitazone" IN "humans"	186
#14	Search "nonalcoholic steatohepatitis AND pioglitazone" IN "humans"	204
#15	Search "NASH AND pioglitazone" IN "humans"	128
#16	Search "nonalcoholic fatty liver AND elafibranor" IN "humans"	44
#17	Search "fatty liver AND elafibranor" IN "humans"	46
#18	Search "NAFLD AND elafibranor" IN "humans"	42
#19	Search "nonalcoholic steatohepatitis AND elafibranor" IN "humans"	42
#20	Search "NASH AND elafibranor" IN "humans"	31
#21	Search "nonalcoholic fatty liver AND saroglitazar" IN "humans"	8
#22	Search "fatty liver AND saroglitazar" IN "humans"	8
#23	Search "NAFLD AND saroglitazar" IN "humans"	8
#24	Search "nonalcoholic steatohepatitis AND saroglitazar" IN "humans"	8
#25	Search "NASH AND saroglitazar" IN "humans"	4
#26	Search "nonalcoholic fatty liver AND lanifibranor" IN "humans"	5
#27	Search "fatty liver AND lanifibranor" IN "humans"	5
#28	Search "NAFLD AND lanifibranor" IN "humans"	5

#29	Search "nonalcoholic steatohepatitis AND lanifibranor" IN "humans"	5
#30	Search "NASH AND lanifibranor" IN "humans"	4

**Scopus <up to May 1, 2021>**

#1	Search "nonalcoholic fatty liver AND peroxisome proliferator-activated receptor" IN "humans"	693
#2	Search "fatty liver AND peroxisome proliferator-activated receptor" IN "humans"	2,347
#3	Search "NAFLD AND peroxisome proliferator-activated receptor" IN "humans"	409
#4	Search "nonalcoholic steatohepatitis AND peroxisome proliferator-activated receptor gamma" IN "humans"	304
#5	Search "NASH AND peroxisome proliferator-activated receptor gamma" IN "humans"	221
#6	Search "nonalcoholic fatty liver AND PPAR" IN "humans"	337
#7	Search "fatty liver AND PPAR" IN "humans"	1,196
#8	Search "NAFLD AND PPAR" IN "humans"	221
#9	Search "nonalcoholic steatohepatitis AND PPAR" IN "humans"	148
#10	Search "NASH AND PPAR" IN "humans"	109
#11	Search "nonalcoholic fatty liver AND pioglitazone" IN "humans"	294
#12	Search "fatty liver AND pioglitazone" IN "humans"	474
#13	Search "NAFLD AND pioglitazone" IN "humans"	159
#14	Search "nonalcoholic steatohepatitis AND pioglitazone" IN "humans"	178
#15	Search "NASH AND pioglitazone" IN "humans"	144
#16	Search "nonalcoholic fatty liver AND elafibranor" IN "humans"	35
#17	Search "fatty liver AND elafibranor" IN "humans"	38
#18	Search "NAFLD AND elafibranor" IN "humans"	23
#19	Search "nonalcoholic steatohepatitis AND elafibranor" IN "humans"	30
#20	Search "NASH AND elafibranor" IN "humans"	30
#21	Search "nonalcoholic fatty liver AND saroglitazar" IN "humans"	7
#22	Search "fatty liver AND saroglitazar" IN "humans"	7
#23	Search "NAFLD AND saroglitazar" IN "humans"	3
#24	Search "nonalcoholic steatohepatitis AND saroglitazar" IN "humans"	3
#25	Search "NASH AND saroglitazar" IN "humans"	3
#26	Search "nonalcoholic fatty liver AND lanifibranor" IN "humans"	2
#27	Search "fatty liver AND lanifibranor" IN "humans"	2
#28	Search "NAFLD AND lanifibranor" IN "humans"	1

#29	Search "nonalcoholic steatohepatitis AND lanifibranor" IN "humans"	3
#30	Search "NASH AND lanifibranor" IN "humans"	2

**Web of Science <up to May 1, 2021>**

#1	Search "nonalcoholic fatty liver AND peroxisome proliferator-activated receptor" IN "humans"	587
#2	Search "fatty liver AND peroxisome proliferator-activated receptor" IN "humans"	3,199
#3	Search "NAFLD AND peroxisome proliferator-activated receptor" IN "humans"	452
#4	Search "nonalcoholic steatohepatitis AND peroxisome proliferator-activated receptor" IN "humans"	465
#5	Search "NASH AND peroxisome proliferator-activated receptor" IN "humans"	239
#6	Search "nonalcoholic fatty liver AND PPAR" IN "humans"	980
#7	Search "fatty liver AND PPAR" IN "humans"	3,324
#8	Search "NAFLD AND PPAR" IN "humans"	862
#9	Search "nonalcoholic steatohepatitis AND PPAR" IN "humans"	735
#10	Search "NASH AND PPAR" IN "humans"	413
#11	Search "nonalcoholic fatty liver AND pioglitazone" IN "humans"	377
#12	Search "fatty liver AND pioglitazone" IN "humans"	687
#13	Search "NAFLD AND pioglitazone" IN "humans"	305
#14	Search "nonalcoholic steatohepatitis AND pioglitazone" IN "humans"	405
#15	Search "NASH AND pioglitazone" IN "humans"	320
#16	Search "nonalcoholic fatty liver AND elafibranor" IN "humans"	37
#17	Search "fatty liver AND elafibranor" IN "humans"	52
#18	Search "NAFLD AND elafibranor" IN "humans"	33
#19	Search "nonalcoholic steatohepatitis AND elafibranor" IN "humans"	45
#20	Search "NASH AND elafibranor" IN "humans"	66
#21	Search "nonalcoholic fatty liver AND saroglitazar" IN "humans"	4
#22	Search "fatty liver AND saroglitazar" IN "humans"	5
#23	Search "NAFLD AND saroglitazar" IN "humans"	4
#24	Search "nonalcoholic steatohepatitis AND saroglitazar" IN "humans"	3
#25	Search "NASH AND saroglitazar" IN "humans"	5
#26	Search "nonalcoholic fatty liver AND lanifibranor" IN "humans"	4
#27	Search "fatty liver AND lanifibranor" IN "humans"	4
#28	Search "NAFLD AND lanifibranor" IN "humans"	2
#29	Search "nonalcoholic steatohepatitis AND lanifibranor" IN "humans"	4

#30	Search "NASH AND lanifibranor" IN "humans"	3
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**ClinicalTrials.gov <up to May 1, 2021>**

#1	Search "nonalcoholic fatty liver AND peroxisome proliferator-activated receptor" IN "humans"	4
#2	Search "fatty liver AND peroxisome proliferator-activated receptor" IN "humans"	4
#3	Search "NAFLD AND peroxisome proliferator-activated receptor" IN "humans"	4
#4	Search "nonalcoholic steatohepatitis AND peroxisome proliferator-activated receptor" IN "humans"	4
#5	Search "NASH AND peroxisome proliferator-activated receptor" IN "humans"	4
#6	Search "nonalcoholic fatty liver AND PPAR" IN "humans"	8
#7	Search "fatty liver AND PPAR" IN "humans"	8
#8	Search "NAFLD AND PPAR" IN "humans"	8
#9	Search "nonalcoholic steatohepatitis AND PPAR" IN "humans"	8
#10	Search "NASH AND PPAR" IN "humans"	8
#11	Search "nonalcoholic fatty liver AND pioglitazone" IN "humans"	24
#12	Search "fatty liver AND pioglitazone" IN "humans"	28
#13	Search "NAFLD AND pioglitazone" IN "humans"	22
#14	Search "nonalcoholic steatohepatitis AND pioglitazone" IN "humans"	24
#15	Search "NASH AND pioglitazone" IN "humans"	23
#16	Search "nonalcoholic fatty liver AND elafibranor" IN "humans"	4
#17	Search "fatty liver AND elafibranor" IN "humans"	4
#18	Search "NAFLD AND elafibranor" IN "humans"	4
#19	Search "nonalcoholic steatohepatitis AND elafibranor" IN "humans"	4
#20	Search "NASH AND elafibranor" IN "humans"	4
#21	Search "nonalcoholic fatty liver AND saroglitazar" IN "humans"	6
#22	Search "fatty liver AND saroglitazar" IN "humans"	6
#23	Search "NAFLD AND saroglitazar" IN "humans"	6
#24	Search "nonalcoholic steatohepatitis AND saroglitazar" IN "humans"	6
#25	Search "NASH AND saroglitazar" IN "humans"	7
#26	Search "nonalcoholic fatty liver AND lanifibranor" IN "humans"	3
#27	Search "fatty liver AND lanifibranor" IN "humans"	3
#28	Search "NAFLD AND lanifibranor" IN "humans"	3
#29	Search "nonalcoholic steatohepatitis AND lanifibranor" IN "humans"	3

#30	Search "NASH AND lanifibrano" IN "humans"	3
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**Table S2.** Syntax used through database searching on PubMed, Scopus, Web of Science and ClinicalTrials.gov (for GLP-1 receptor agonists).

**PubMed <up to May 1, 2021>**

#1	Search "nonalcoholic fatty liver AND GLP-1 receptor agonists" IN "humans"	83
#2	Search "fatty liver AND GLP-1 receptor agonists" IN "humans"	96
#3	Search "NAFLD AND GLP-1 receptor agonists" IN "humans"	78
#4	Search "nonalcoholic steatohepatitis AND GLP-1 receptor agonists" IN "humans"	84
#5	Search "NASH AND glp-1 receptor agonists" IN "humans"	35
#6	Search "nonalcoholic fatty liver AND exenatide" IN "humans"	27
#7	Search "fatty liver AND exenatide" IN "humans"	38
#8	Search "NAFLD AND exenatide" IN "humans"	21
#9	Search "nonalcoholic steatohepatitis AND exenatide" IN "humans"	24
#10	Search "NASH AND exenatide" IN "humans"	8
#11	Search "nonalcoholic fatty liver AND liraglutide" IN "humans"	73
#12	Search "fatty liver AND liraglutide" IN "humans"	77
#13	Search "NAFLD AND liraglutide" IN "humans"	72
#14	Search "nonalcoholic steatohepatitis AND liraglutide" IN "humans"	74
#15	Search "NASH AND liraglutide" IN "humans"	21
#16	Search "nonalcoholic fatty liver AND dulaglutide" IN "humans"	2
#17	Search "fatty liver AND dulaglutide" IN "humans"	3
#18	Search "NAFLD AND dulaglutide" IN "humans"	2
#19	Search "nonalcoholic steatohepatitis AND dulaglutide" IN "humans"	2
#20	Search "NASH AND dulaglutide" IN "humans"	1
#21	Search "nonalcoholic fatty liver AND semaglutide" IN "humans"	10
#22	Search "fatty liver AND semaglutide" IN "humans"	12
#23	Search "NAFLD AND semaglutide" IN "humans"	9
#24	Search "nonalcoholic steatohepatitis AND semaglutide" IN "humans"	11
#25	Search "NASH AND semaglutide" IN "humans"	4

**Scopus <up to May 1, 2021>**

#1	Search "nonalcoholic fatty liver AND GLP-1 receptor agonists" IN "humans"	82
#2	Search "fatty liver AND GLP-1 receptor agonists" IN "humans"	128
#3	Search "NAFLD AND GLP-1 receptor agonists" IN "humans"	60
#4	Search "nonalcoholic steatohepatitis AND GLP-1 receptor agonists" IN "humans"	49
#5	Search "NASH AND GLP-1 receptor agonists" IN "humans"	42
#6	Search "nonalcoholic fatty liver AND exenatide" IN "humans"	53
#7	Search "fatty liver AND exenatide" IN "humans"	78
#8	Search "NAFLD AND exenatide" IN "humans"	37
#9	Search "nonalcoholic steatohepatitis AND exenatide" IN "humans"	22
#10	Search "NASH AND exenatide" IN "humans"	16
#11	Search "nonalcoholic fatty liver AND liraglutide" IN "humans"	103
#12	Search "fatty liver AND liraglutide" IN "humans"	144
#13	Search "NAFLD AND liraglutide" IN "humans"	70
#14	Search "nonalcoholic steatohepatitis AND liraglutide" IN "humans"	46
#15	Search "NASH AND liraglutide" IN "humans"	35
#16	Search "nonalcoholic fatty liver AND dulaglutide" IN "humans"	13
#17	Search "fatty liver AND dulaglutide" IN "humans"	16
#18	Search "NAFLD AND dulaglutide" IN "humans"	7
#19	Search "nonalcoholic steatohepatitis AND dulaglutide" IN "humans"	7
#20	Search "NASH AND dulaglutide" IN "humans"	3
#21	Search "nonalcoholic fatty liver AND semaglutide" IN "humans"	10
#22	Search "fatty liver AND semaglutide" IN "humans"	12
#23	Search "NAFLD AND semaglutide" IN "humans"	3
#24	Search "nonalcoholic steatohepatitis AND semaglutide" IN "humans"	8
#25	Search "NASH AND semaglutide" IN "humans"	4

**Web of Science <up to May 1, 2021>**

#1	Search "nonalcoholic fatty liver AND GLP-1 receptor agonists" IN "humans"	64
#2	Search "fatty liver AND GLP-1 receptor agonists" IN "humans"	106
#3	Search "NAFLD AND GLP-1 receptor agonists" IN "humans"	47
#4	Search "nonalcoholic steatohepatitis AND GLP-1 receptor agonists" IN "humans"	35
#5	Search "NASH AND GLP-1 receptor agonists" IN "humans"	34
#6	Search "nonalcoholic fatty liver AND exenatide" IN "humans"	27
#7	Search "fatty liver AND exenatide" IN "humans"	61
#8	Search "NAFLD AND exenatide" IN "humans"	36
#9	Search "nonalcoholic steatohepatitis AND exenatide" IN "humans"	18
#10	Search "NASH AND exenatide" IN "humans"	8
#11	Search "nonalcoholic fatty liver AND liraglutide" IN "humans"	48
#12	Search "fatty liver AND liraglutide" IN "humans"	112
#13	Search "NAFLD AND liraglutide" IN "humans"	72
#14	Search "nonalcoholic steatohepatitis AND liraglutide" IN "humans"	31
#15	Search "NASH AND liraglutide" IN "humans"	28
#16	Search "nonalcoholic fatty liver AND dulaglutide" IN "humans"	4
#17	Search "fatty liver AND dulaglutide" IN "humans"	7
#18	Search "NAFLD AND dulaglutide" IN "humans"	5
#19	Search "nonalcoholic steatohepatitis AND dulaglutide" IN "humans"	6
#20	Search "NASH AND dulaglutide" IN "humans"	3
#21	Search "nonalcoholic fatty liver AND semaglutide" IN "humans"	4
#22	Search "fatty liver AND semaglutide" IN "humans"	8
#23	Search "NAFLD AND semaglutide" IN "humans"	3
#24	Search "nonalcoholic steatohepatitis AND semaglutide" IN "humans"	8
#25	Search "NASH AND semaglutide" IN "humans"	5



**ClinicalTrials.gov <up to May 1, 2021>**

#1	Search "nonalcoholic fatty liver AND GLP-1 receptor agonists" IN "humans"	6
#2	Search "fatty liver AND GLP-1 receptor agonists" IN "humans"	10
#3	Search "NAFLD AND GLP-1 receptor agonists" IN "humans"	7
#4	Search "nonalcoholic steatohepatitis AND GLP-1 receptor agonists" IN "humans"	5
#5	Search "NASH AND GLP-1 receptor agonists" IN "humans"	5
#6	Search "nonalcoholic fatty liver AND exenatide" IN "humans"	6
#7	Search "fatty liver AND exenatide" IN "humans"	13
#8	Search "NAFLD AND exenatide" IN "humans"	6
#9	Search "nonalcoholic steatohepatitis AND exenatide" IN "humans"	6
#10	Search "NASH AND exenatide" IN "humans"	6
#11	Search "nonalcoholic fatty liver AND liraglutide" IN "humans"	8
#12	Search "fatty liver AND liraglutide" IN "humans"	16
#13	Search "NAFLD AND liraglutide" IN "humans"	9
#14	Search "nonalcoholic steatohepatitis AND liraglutide" IN "humans"	7
#15	Search "NASH AND liraglutide" IN "humans"	8
#16	Search "nonalcoholic fatty liver AND dulaglutide" IN "humans"	0
#17	Search "fatty liver AND dulaglutide" IN "humans"	2
#18	Search "NAFLD AND dulaglutide" IN "humans"	2
#19	Search "nonalcoholic steatohepatitis AND dulaglutide" IN "humans"	2
#20	Search "NASH AND dulaglutide" IN "humans"	2
#21	Search "nonalcoholic fatty liver AND semaglutide" IN "humans"	0
#22	Search "fatty liver AND semaglutide" IN "humans"	9
#23	Search "NAFLD AND semaglutide" IN "humans"	9
#24	Search "nonalcoholic steatohepatitis AND semaglutide" IN "humans"	8
#25	Search "NASH AND semaglutide" IN "humans"	8

**Table S3.** Syntax used through database searching on PubMed, Scopus, Web of Science and ClinicalTrials.gov (for SGLT2 inhibitors).

**PubMed <up to May 1, 2021>**

#1	Search "nonalcoholic fatty liver AND SGLT-2 inhibitors" IN "humans"	54
#2	Search "fatty liver AND SGLT-2 inhibitors"" IN "humans"	74
#3	Search "NAFLD AND SGLT-2 inhibitors"" IN "humans"	53
#4	Search "nonalcoholic steatohepatitis AND SGLT-2 inhibitors"" IN "humans"	52
#5	Search "NASH AND SGLT-2 inhibitors"" IN "humans"	18
#6	Search "nonalcoholic fatty liver AND empagliflozin" IN "humans"	12
#7	Search "fatty liver AND empagliflozin" IN "humans"	15
#8	Search "NAFLD AND empagliflozin" IN "humans"	11
#9	Search "nonalcoholic steatohepatitis AND empagliflozin" IN "humans"	10
#10	Search "NASH AND empagliflozin" IN "humans"	1
#11	Search "nonalcoholic fatty liver AND dapagliflozin" IN "humans"	10
#12	Search "fatty liver AND dapagliflozin" IN "humans"	14
#13	Search "NAFLD AND dapagliflozin" IN "humans"	10
#14	Search "nonalcoholic steatohepatitis AND dapagliflozin" IN "humans"	9
#15	Search "NASH AND dapagliflozin" IN "humans"	2
#16	Search "nonalcoholic fatty liver AND canagliflozin" IN "humans"	13
#17	Search "fatty liver AND canagliflozin" IN "humans"	19
#18	Search "NAFLD AND canagliflozin" IN "humans"	12
#19	Search "nonalcoholic steatohepatitis AND canagliflozin" IN "humans"	11
#20	Search "NASH AND canagliflozin" IN "humans"	2
#21	Search "nonalcoholic fatty liver AND ertugliflozin" IN "humans"	2
#22	Search "fatty liver AND ertugliflozin" IN "humans"	2
#23	Search "NAFLD AND ertugliflozin" IN "humans"	2
#24	Search "nonalcoholic steatohepatitis AND ertugliflozin" IN "humans"	1
#25	Search "NASH AND ertugliflozin" IN "humans"	1

**Scopus <up to May 1, 2021>**

#1	Search "nonalcoholic fatty liver AND SGLT-2 inhibitors" IN "humans"	22
#2	Search "fatty liver AND SGLT-2 inhibitors" IN "humans"	39
#3	Search "NAFLD AND SGLT-2 inhibitors" IN "humans"	15
#4	Search "nonalcoholic steatohepatitis AND SGLT-2 inhibitors" IN "humans"	13
#5	Search "NASH AND SGLT-2 inhibitors" IN "humans"	11
#6	Search "nonalcoholic fatty liver AND empagliflozin" IN "humans"	28
#7	Search "fatty liver AND empagliflozin" IN "humans"	46
#8	Search "NAFLD AND empagliflozin" IN "humans"	20
#9	Search "nonalcoholic steatohepatitis AND empagliflozin" IN "humans"	11
#10	Search "NASH AND empagliflozin" IN "humans"	10
#11	Search "nonalcoholic fatty liver AND dapagliflozin" IN "humans"	36
#12	Search "fatty liver AND dapagliflozin" IN "humans"	54
#13	Search "NAFLD AND dapagliflozin" IN "humans"	24
#14	Search "nonalcoholic steatohepatitis AND dapagliflozin" IN "humans"	12
#15	Search "NASH AND dapagliflozin" IN "humans"	8
#16	Search "nonalcoholic fatty liver AND canagliflozin" IN "humans"	27
#17	Search "fatty liver AND canagliflozin" IN "humans"	48
#18	Search "NAFLD AND canagliflozin" IN "humans"	15
#19	Search "nonalcoholic steatohepatitis AND canagliflozin" IN "humans"	10
#20	Search "NASH AND canagliflozin" IN "humans"	9
#21	Search "nonalcoholic fatty liver AND ertugliflozin" IN "humans"	0
#22	Search "fatty liver AND ertugliflozin" IN "humans"	0
#23	Search "NAFLD AND ertugliflozin" IN "humans"	0
#24	Search "nonalcoholic steatohepatitis AND ertugliflozin" IN "humans"	0
#25	Search "NASH AND ertugliflozin" IN "humans"	0

**Web of Science <up to May 1, 2021>**

#1	Search "nonalcoholic fatty liver AND SGLT-2 inhibitors" IN "humans"	10
#2	Search "fatty liver AND SGLT-2 inhibitors"" IN "humans"	33
#3	Search "NAFLD AND SGLT-2 inhibitors"" IN "humans"	17
#4	Search "nonalcoholic steatohepatitis AND SGLT-2 inhibitors"" IN "humans"	9
#5	Search "NASH AND SGLT-2 inhibitors"" IN "humans"	10
#6	Search "nonalcoholic fatty liver AND empagliflozin" IN "humans"	14
#7	Search "fatty liver AND empagliflozin" IN "humans"	24
#8	Search "NAFLD AND empagliflozin" IN "humans"	13
#9	Search "nonalcoholic steatohepatitis AND empagliflozin" IN "humans"	14
#10	Search "NASH AND empagliflozin" IN "humans"	6
#11	Search "nonalcoholic fatty liver AND dapagliflozin" IN "humans"	16
#12	Search "fatty liver AND dapagliflozin" IN "humans"	47
#13	Search "NAFLD AND dapagliflozin" IN "humans"	24
#14	Search "nonalcoholic steatohepatitis AND dapagliflozin" IN "humans"	13
#15	Search "NASH AND dapagliflozin" IN "humans"	9
#16	Search "nonalcoholic fatty liver AND canagliflozin" IN "humans"	21
#17	Search "fatty liver AND canagliflozin" IN "humans"	34
#18	Search "NAFLD AND canagliflozin" IN "humans"	15
#19	Search "nonalcoholic steatohepatitis AND canagliflozin" IN "humans"	18
#20	Search "NASH AND canagliflozin" IN "humans"	13
#21	Search "nonalcoholic fatty liver AND ertugliflozin" IN "humans"	0
#22	Search "fatty liver AND ertugliflozin" IN "humans"	3
#23	Search "NAFLD AND ertugliflozin" IN "humans"	0
#24	Search "nonalcoholic steatohepatitis AND ertugliflozin" IN "humans"	0
#25	Search "NASH AND ertugliflozin" IN "humans"	0

**ClinicalTrials.gov <up to May 1, 2021>**

#1	Search "nonalcoholic fatty liver AND SGLT-2 inhibitors" IN "humans"	14
#2	Search "fatty liver AND SGLT-2 inhibitors"" IN "humans"	14
#3	Search "NAFLD AND SGLT-2 inhibitors"" IN "humans"	14
#4	Search "nonalcoholic steatohepatitis AND SGLT-2 inhibitors"" IN "humans"	13
#5	Search "NASH AND SGLT-2 inhibitors"" IN "humans"	14
#6	Search "nonalcoholic fatty liver AND empagliflozin" IN "humans"	8
#7	Search "fatty liver AND empagliflozin" IN "humans"	8
#8	Search "NAFLD AND empagliflozin" IN "humans"	8
#9	Search "nonalcoholic steatohepatitis AND empagliflozin" IN "humans"	8
#10	Search "NASH AND empagliflozin" IN "humans"	8
#11	Search "nonalcoholic fatty liver AND dapagliflozin" IN "humans"	3
#12	Search "fatty liver AND dapagliflozin" IN "humans"	4
#13	Search "NAFLD AND dapagliflozin" IN "humans"	2
#14	Search "nonalcoholic steatohepatitis AND dapagliflozin" IN "humans"	3
#15	Search "NASH AND dapagliflozin" IN "humans"	3
#16	Search "nonalcoholic fatty liver AND canagliflozin" IN "humans"	0
#17	Search "fatty liver AND canagliflozin" IN "humans"	0
#18	Search "NAFLD AND canagliflozin" IN "humans"	0
#19	Search "nonalcoholic steatohepatitis AND canagliflozin" IN "humans"	0
#20	Search "NASH AND canagliflozin" IN "humans"	0
#21	Search "nonalcoholic fatty liver AND ertugliflozin" IN "humans"	0
#22	Search "fatty liver AND ertugliflozin" IN "humans"	0
#23	Search "NAFLD AND ertugliflozin" IN "humans"	0
#24	Search "nonalcoholic steatohepatitis AND ertugliflozin" IN "humans"	0
#25	Search "NASH AND ertugliflozin" IN "humans"	0

**Table S4.** Studies excluded at the eligibility step of PRISMA flow diagram.

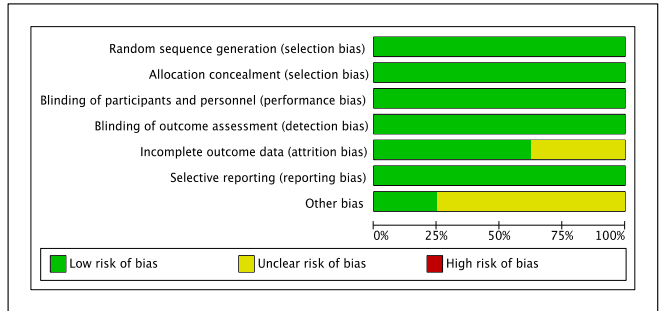
Author, Reference	RCT's characteristics	Reasons for exclusion
Gluud et al. BMJ Open. 2014;4(12):e005325	Individual patient data of 12 RCTs on lixisenatide versus placebo and 3 RCTs with the active comparators	Unsatisfactory study design (trials not specifically designed to test the efficacy of lixisenatide in NAFLD)
Bril et al. Clin Gastroenterol Hepatol. 2018;16(4):558-566	NASH patients with type 2 diabetes or prediabetes were randomly assigned to pioglitazone or placebo for 18 months	Unsatisfactory inclusion criteria (same patient population included in a previous trial included in the systematic review [26])
Gallo et al. Diabetes Ther. 2020;11(8):1849-1860	Pooled data from 7 randomized, double-blind VERTIS phase 3 trials that evaluated ertugliflozin versus non-ertugliflozin treatment in patients with T2DM	Unsatisfactory study design (trials not specifically designed to test the efficacy of ertugliflozin in NAFLD)

**Supplementary Figure S1.** Risk of bias summary (A) and graph (B) for each eligible RCT using PPAR agonists as assessed by the Cochrane Collaboration's tool.

Panel A

	Althia 2008	Belfort 2006	Cusi 2016	Frankque 2021	Camelin 2021	Razzu 2016	Sanyal 2010	Sharma 2012
Random sequence generation (selection bias)	●	●	●	●	●	●	●	●
Allocation concealment (selection bias)	●	●	●	●	●	●	●	●
Blinding of participants and personnel (performance bias)	●	●	●	●	●	●	●	●
Blinding of outcome assessment (detection bias)	●	●	●	●	●	●	●	●
Incomplete outcome data (attrition bias)	●	●	●	●	●	●	●	●
Selective reporting (reporting bias)	●	●	●	●	●	●	●	●
Other bias	●	●	●	●	●	●	●	●

Panel B

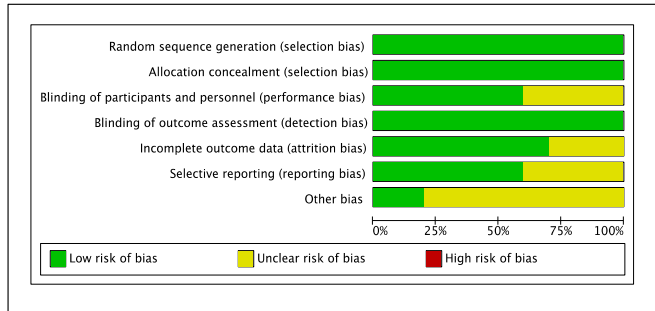


**Supplementary Figure S2.** Risk of bias summary (A) and graph (B) for each eligible RCT using GLP-1RAs as assessed by the Cochrane Collaboration's tool.

**Panel A**

	Zhang 2020	Yan 2019	Newsome 2021	Liu 2020	Kirchey 2020	Khoo 2019	Guo 2020	Dunour 2016	Bizina 2020	Armstrong 2016
Random sequence generation (selection bias)	●	●	●	●	●	●	●	●	●	●
Allocation concealment (selection bias)	●	●	●	●	●	●	●	●	●	●
Blinding of participants and personnel (performance bias)	●	●	●	●	●	●	●	●	●	●
Blinding of outcome assessment (detection bias)	●	●	●	●	●	●	●	●	●	●
Incomplete outcome data (attrition bias)	●	●	●	●	●	●	●	●	●	●
Selective reporting (reporting bias)	●	●	●	●	●	●	●	●	●	●
Other bias	●	●	●	●	●	●	●	●	●	●

**Panel B**





**Supplementary Figure S3.** Risk of bias summary (A) and graph (B) for each eligible RCT using SGLT-2 inhibitors as assessed by the Cochrane Collaboration's tool.

Panel A

	Larva-Rasku 2019	Kuchay 2018	Kahl 2020	Johansson 2020	Eriksson 2018	Cusi 2019	Bolinder 2012	
Random sequence generation (selection bias)	●	●	●	●	●	●	●	
Allocation concealment (selection bias)	●	●	●	●	●	●	●	
Blinding of participants and personnel (performance bias)	●	●	●	●	●	●	●	
Blinding of outcome assessment (detection bias)	●	●	●	●	●	●	●	
Incomplete outcome data (attrition bias)	●	●	●	●	●	●	●	
Selective reporting (reporting bias)	●	●	●	●	●	●	●	
Other bias	?	?	?	?	?	?	?	

Panel B

