

SUPPLEMENTARY MATERIALS

Search strategy

PubMed Search

Set #	Search strings
1	"Non-alcoholic Fatty Liver Disease"[Mesh] OR Non-alcoholic Fatty Liver[tiab] OR Nonalcoholic Fatty Liver[tiab] OR Nonalcoholic Steatohepatitis[tiab] OR Non-alcoholic Steatohepatitis[tiab] OR Nonalcoholic Steatohepatitides[tiab] OR Non-alcoholic Steatohepatitides[tiab] OR NAFLD[tiab]
2	"Obesity"[Mesh] OR Overweight"[Mesh] OR Obesity [tiab] OR Obese [tiab] OR Overweight [tiab] OR Over-weight [tiab] OR Over weight[tiab] OR Diabetes Mellitus Type 2 [Mesh] OR (Diabet* [tiab] and ("Non-Insulin Dependent" [tiab] or Type-2 [tiab] or "Type II"[tiab] or "Type 2"[tiab]))
3	1 AND 2
4	"essential 303 forte" [Supplementary Concept] OR Essentiale[tiab] OR cholinephospholipid*[tiab] OR essential phospholipid*[tiab] OR EPL[tiab] OR EPLs[tiab]
5	"lipostabil" [Supplementary Concept] OR lipostabil[tiab] OR polyenylphosphatidylcholine[tiab]
6	"polyene phosphatidylcholine" [Supplementary Concept] OR phosphatidylcholine[tiab] OR PPC[tiab] OR PPCs[tiab]
7	"Ursodeoxycholic Acid"[Mesh] OR actigall[tiab] OR arsacol[tiab] OR cgs 21240[tiab] OR cgs21240[tiab] OR cholacid[tiab] OR cholid ursan[tiab] OR cholit ursan[tiab] OR cholofalk[tiab] OR delursan[tiab] OR destolit[tiab] OR deursil[tiab] OR estazor[tiab] OR peptarom[tiab] OR pramur[tiab] OR sodium ursodeoxycholate[tiab] OR udihep[tiab] OR urdafalk[tiab] OR urosomix[tiab] OR ursacol[tiab] OR urso[tiab] OR urso 250[tiab] OR urso forte[tiab] OR urso-ratiopharm[tiab] OR

	ursobilin[tiab] OR ursochol[tiab] OR ursodeoxycholate[tiab] OR ursodeoxycholate sodium[tiab] OR ursodesoxycholic acid[tiab] OR ursodiol[tiab] OR ursofalk[tiab] OR ursolin[tiab] OR ursolit[tiab] OR ursolvam[tiab] OR ursomedica[tiab] OR ursopol[tiab] OR ursosan[tiab] OR UDCA[tiab] OR NorUDCA[tiab]
8	"Silymarin"[Mesh] OR Carsil[tiab] OR Flavobion[tiab] OR Karsil[tiab] OR legalon[tiab] OR rb 1466[tiab] OR silepar[tiab] OR silibinin[tiab] OR silidianin[tiab] OR silimarine[tiab] OR silliver[tiab] OR silymarin[tiab] OR silymarine[tiab] OR simepar[tiab] OR sylimarin[tiab]
9	"Vitamin E"[Mesh] OR vitamin e[tiab] OR alpha tocopherol[tiab]
10	"pioglitazone" [Supplementary Concept] OR actos[tiab] OR ad 4833[tiab] OR ad4833[tiab] OR cereluc[tiab] OR glidipion[tiab] OR glustin[tiab] OR paglitaz[tiab] OR pioglitazone[tiab] OR sepioglin[tiab] OR u 72107[tiab] OR u 72107a[tiab] OR u72107[tiab] OR u72107a[tiab] OR zactos[tiab]
11	Hypoglycemic Agents[Mesh] OR hypoglycemics[tiab] OR hypoglycaemics[tiab] OR Antihyperglycemics[tiab] OR Anti-hyperglycemics[tiab] OR Antihyperglycaemics[tiab] OR Anti-hyperglycaemics[tiab] OR antidiabetic[tiab] OR Anti-diabetic[tiab] OR Antidiabetics[tiab] OR Anti-diabetics[tiab]
12	Hypoglycemic Agents [Pharmacological Action]
13	Metformin[tiab] OR Dimethylbiguanidine[tiab] OR Dimethylguanylguanidine[tiab] OR Glucophage[tiab] OR Glumetza[tiab] OR Fortamet[tiab] OR Riomet[tiab]
14	"Sulfonylurea Compounds"[Mesh] OR sulphonylurea[tiab] OR Sulfonylureas[tiab] OR sulphonylurea[tiab] OR Sulphonylureas[tiab]
15	Acetohexamide[tiab] OR Gamadiabet[tiab] OR Dymelor[tiab] OR Dimelor[tiab]

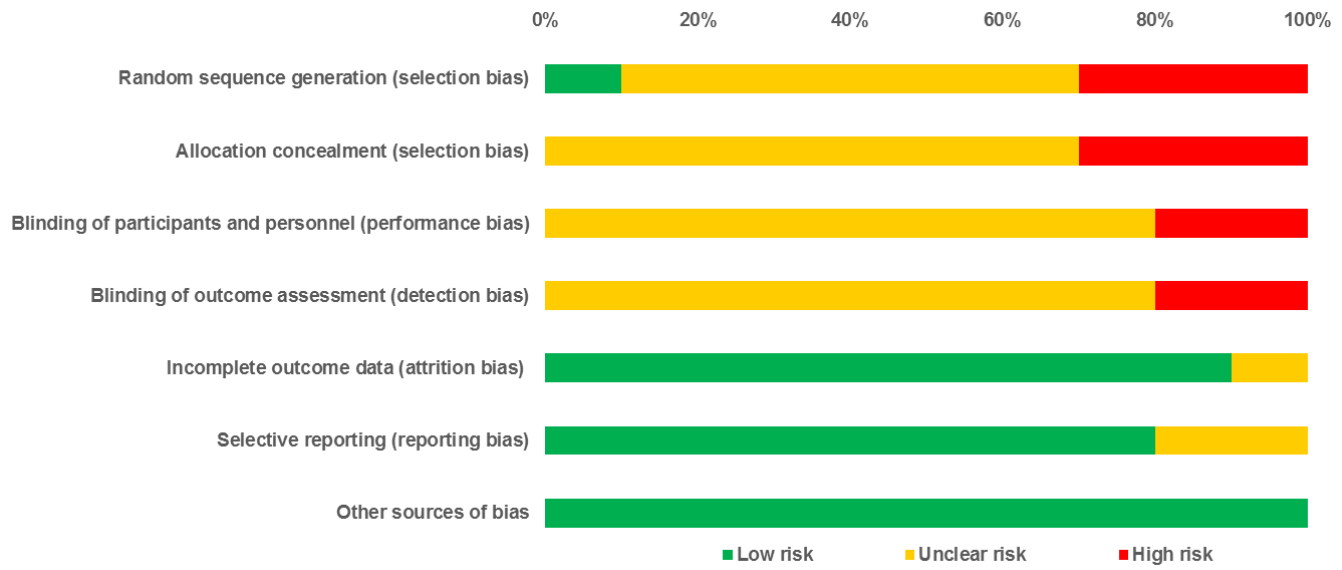
16	Carbutamide OR Sulfaninylbutylurea OR Glybutamide OR Aminophenurobutane OR Diabetal OR Butylcarbamide OR Glucidoral OR Bucarban OR Bukarban OR Oranil OR Oranyl
17	Chlorpropamide[tiab] OR Clorpropamid[tiab] OR Diabinese[tiab] OR Insogen[tiab] OR Apo-Chlorpropamide[tiab] OR Glucamide[tiab] OR Meldian[tiab]
18	Gliclazide[tiab] OR Diamicron[tiab] OR Diabrezide[tiab] OR Diaglyk[tiab] OR Diaikron[tiab] OR Gliklazid[tiab] OR Glimicron[tiab] OR Glyade[tiab] OR Glycazide[tiab] OR Glyclazide[tiab] OR Nordialex[tiab] OR Predian[tiab] OR S-1702[tiab] OR S1702[tiab] OR S-852[tiab] OR S852[tiab] OR se 1702[tiab] OR se1702[tiab]
19	Glimepiride[tiab] OR Amaryl[tiab] OR Amarel[tiab] OR Euglim[tiab] OR Glimerid[tiab] OR HOE-490[tiab] OR HOE490[tiab] OR Roname[tiab] OR Solosa[tiab]
20	Glipizide[tiab] OR Cp 28720[tiab] OR Cp28720[tiab] OR Glibenese[tiab] OR Glibinese[tiab] OR Glucatrol[tiab] OR Glucotrol[tiab] OR Glupitel[tiab] OR Glypidizine[tiab] OR Glidiazinamide[tiab] OR Glydiazinamide[tiab] OR K-4024[tiab] OR K4024[tiab] OR Melizid[tiab] OR Melizide[tiab] OR Metaglip[tiab] OR Minidiab[tiab] OR Mindiab[tiab] OR Minodiab[tiab] OR Ozidia[tiab]
21	"gliquidone" [Supplementary Concept] OR Gliquidone[tiab] OR Glurenor[tiab] OR Glurenorm[tiab] OR AR DF 26[tiab] OR ardf 26[tiab] OR ardf26[tiab] OR Beglynor[tiab] OR Beglynora[tiab] OR glikvidon[tiab] OR glycvidon[tiab] OR m 5276[tiab] OR m5276[tiab]
22	Glucovance [Supplementary Concept] OR glucovance[tiab]
23	Glyburide[tiab] OR Glibenclamide[tiab] OR Daonil[tiab] OR Diabasan[tiab] OR Diabeta[tiab] OR Glycron[tiab] OR Glynase[tiab] OR Euclamin[tiab] OR Euglucan[tiab] OR Euglucon[tiab] OR Gilemal[tiab] OR Gliben puren[tiab] OR Glibetic[tiab] OR Gliformin[tiab] OR Glimidstada[tiab] OR Glucomid[tiab] OR

	Glukoreduct[tiab] OR Glycolande[tiab] OR Glycomin[tiab] OR Glynase[tiab] OR HB-419[tiab] OR HB 419[tiab] OR HB419[tiab] OR HB-420[tiab] OR HB 420[tiab] OR HB420[tiab] OR hemidaonil[tiab] OR Libanil[tiab] OR Lisaglucon[tiab] OR Maninil[tiab] OR Melix[tiab] OR Micronase[tiab] OR Miglucan[tiab] OR Neogluconin[tiab] OR Pira[tiab] OR praeciglucon[tiab] OR u 26452[tiab] OR u26452[tiab] OR Xeltic[tiab] OR Glucovance[tiab]
24	glycropyramide [Supplementary Concept] OR glycropyramide[tiab]
25	Tolazamide[tiab] OR Tolinase[tiab]
26	Tolbutamide[tiab] OR Artosin[tiab] OR Diabetol[tiab] OR Diaval[tiab] OR Orabet[tiab] OR Orinase[tiab] OR Apo-Tolbutamide[tiab] OR Dolipol[tiab] OR Rastinon[tiab]
27	Biphasic Insulin[tiab] OR Biphasic Insulins[tiab] OR Insulin Mixtures[tiab] OR Mixed Insulins[tiab] OR BIAsp30[tiab] OR BIAsp 30[tiab] OR NovoMix 30[tiab] OR NovoMix30[tiab] OR NovoLog Mix[tiab]
28	Biphasic[tiab] AND aspart[tiab]
29	Long-acting insulin*[tiab] OR long acting insulin*[tiab] OR Semilente Insulin[tiab] OR insulin globin zinc[tiab]
30	Insulin Detemir[tiab] OR NN304[tiab] OR NN-304[tiab] OR NN 304[tiab] OR Levemir[tiab] OR 4FT78T86XV[tiab]
31	"LY2963016 insulin glargine" [Supplementary Concept] OR Glargine[tiab] OR Lantus[tiab] OR Basaglar[tiab] OR HOE 901[tiab] OR HOE-901[tiab] OR HOE901[tiab]
32	Insulin Isophane[tiab] OR sophane Insulin[tiab] OR Neutral Protamine Hagedorn Insulin[tiab] OR Protamine Hagedorn Insulin[tiab] OR NPH Insulin[tiab] OR Protamine Zinc Insulin[tiab] OR Mixtard[tiab]
33	Insulin Lente[tiab] OR Insulin Monotard[tiab] Insulin Novo Monotard[tiab]

34	Insulin Ultralente[tiab]
35	"insulin degludec" [Supplementary Concept] OR degludec[tiab]
36	"insulin degludec, insulin aspart drug combination" [Supplementary Concept] OR Ryzodeg[tiab]
37	insulin degludec[tiab] AND insulin aspart[tiab]
38	Rapid-acting insulin*[tiab] OR Rapid acting insulin*[tiab]
39	Insulin aspart[tiab] OR Insulin Aspartic Acid(B28)[tiab] OR Insulin B28asp[tiab] OR B28-Asp-Insulin[tiab] OR NovoLog[tiab] OR NovoRapid[tiab]
40	"insulin aspart, insulin aspart protamine drug combination 30:70" [Supplementary Concept]
41	Insulin Lispro[tiab] OR Lispro[tiab] OR Lyspro[tiab] OR Humalog[tiab] OR Humalog Kwikpen[tiab]
42	Insulin glulisine[tiab] OR Apidra[tiab]
43	Short-acting insulin*[tiab] OR short acting insulin*[tiab]
44	Procine Insulin[tiab] OR Velosulin[tiab]
45	OR/4-45
46	3 AND 45
47	"animals"[mesh] NOT "humans"[mesh]
48	46 NOT 47
49	English[la] OR Chinese[la]
50	48 AND 49

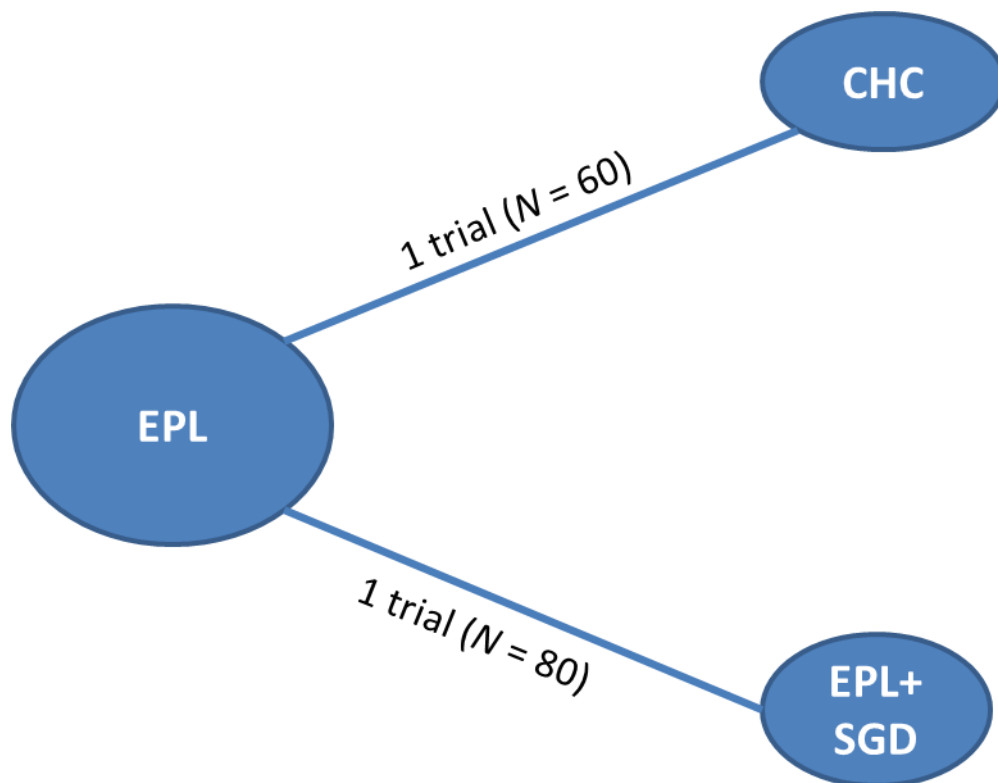
Supplementary Figure 1.

Distribution of risk of bias assessments across studies.



Supplementary Figure 2.

Network plot for the indirect meta-analysis of two studies. CHC, Chinese herbal concoction (Quzhi hepatoprotection recipe); EPL, essential phospholipids; SGD, Shugan Huazhuo recipe



Supplementary Figure 3

Sensitivity/subgroup analysis comparing results in randomized controlled studies containing < 100 patients or ≥ 100 patients. (A) Change in alanine aminotransferase (ALT); (B) change in triglyceride levels; (C) change in cholesterol levels; (D) relative risk of disease recovery; (E) relative risk of disease unchanged; (F) relative risk of partial improvement; (G) relative risk of significant improvement. 95% CI, 95% confidence intervals; MD, mean difference; n/a, not applicable; RR, relative risk.

