

eTable 1. Comparison of Baseline Characteristics and Comorbidities of Case and Control Subjects in Included Studies

Study	Age (y)		Sex (% male)		Coronary artery disease (% total)		Diabetes (% total)		Alcoholic Liver Disease/Alcohol use (%)		Child-Pugh (mean score)		Metformin use (%)		Angiotensin-converting enzyme inhibitor/aspirin (%)		Nonstatin lipid-lowering drug (%)	
	Statin-exposed	Unexposed	Statin-exposed	Unexposed	Statin-exposed	Unexposed	Statin-exposed	Unexposed	Statin-exposed	Unexposed	Statin-exposed	Unexposed	Statin-exposed	Unexposed	Statin-exposed	Unexposed	Statin-exposed	Unexposed
Huang et al, 2016 (matched)	50.01	49.74	52.79	53.17	3.24 (MI)	16.89 (MI)	8.36	10.52	NR	NR	NR	NR	NR	NR	NR/63.27	NR/51.02	3.59	0.74
Huang et al, 2016 (unmatched)	52.87	39.73	57.85	60.13	2.78 (MI)	14.99 (MI)	31.28	6.77	NR	NR	NR	NR	NR	NR	NR/68.78	NR/43.99	3.84	0.58
Oliver et al, 2016*	Ranges listed	Ranges listed	100	100	NR	NR	15.1	16.7	58.2	59.6	NR	NR	NR	NR	NR	NR	NR	NR
Simon et al, 2016	53.5	52.5	96.16	95.37	NR	NR	24.03	8.87	34.81	38.79	NR	NR	34.19	10.91	65.7/NR	38.11/NR	15.53	4.02
Hsiang et al, 2015 (matched)	58.7	58.9	67.9	66.8	8.8	6.1	45.1	45.4	NR	NR	NR	NR	21.9	22.3	53.1/NR	51.8/NR	6.2 (Fibrate)	5.9 (Fibrate)
Hsiang et al, 2015 (unmatched)	58.7	37.6	67.9	37.6	8.8	0.1	45.1	7.4	NR	NR	NR	NR	21.9	1.9	53.1/NR	3.5/NR	6.2 (Fibrate)	0.2 (Fibrate)
Mohanty et al, 2015 (matched)	56 (med)	56 (med)	98.8	97.9	35.2	30.7	53	52.1	54.3	53.3	NR	NR	NR	NR	NR	NR	NR	NR
Mohanty et al, 2015 (unmatched)	56 (med)	54 (med)	98.3	97.7	37.3	11.9	54.8	28.9	52.5	56.6	NR	NR	NR	NR	NR	NR	NR	NR
Simon et al, 2015	54.2	50.1	58.6	71.2	NR	NR	58.6	16.9	NR	NR	NR	NR	10.3	48.2	NR	NR	58.6	3.3
Yang et al, 2015 (matched)	Ranges listed	Ranges listed	42	42	NR	NR	55.6	55.6	7.6	10.4	NR	NR	40.4	25.7	55.8/58.8	33.4/31.3	6.8	1
Yang et al, 2015 (unmatched)	Ranges listed	Ranges listed	41.2	49.8	NR	NR	57.3	24	7.5	10.9	NR	NR	41.6	11	56.1/58.9	23.3/22.6	6.8	0.6
Kumar et al, 2014	59.79	59.64	54.32	54.32	43.21	12.35	55.56	30.86	22.22	24.07	6.14	6.26	NR	NR	NR	NR	NR	NR
Abrales et al, 2016	57.42	57.62	65.2	67.9	NR	NR	31.9	37.7	71	74.62	7.93	7.68	NR	NR	NR	NR	NR	NR
Pollo-Flores et al, 2015	56.5 (med)	58.5 (med)	57	50	NR	NR	NR	NR	NR	NR	10	10.5	NR	NR	NR	NR	NR	NR
Abrales et al, 2009	58	56	60.71	77.78	NR	NR	NR	NR	39.29	44.44	6.2	6.9	NR	NR	NR	NR	NR	NR

*Oliver study compared cirrhosis vs no cirrhosis: stain-exposed = cirrhosis, unexposed = no cirrhosis
y = year; med = median; NR = not recorded; MI = myocardial infarction

eTable 2. Quality of Included Studies – Newcastle-Ottawa Scale for Cohort Studies

Quality assessment criteria	Acceptable (*)	Huang 2016	Oliver 2016	Simon 2016	Hsiang 2015	Mohanty 2015	Simon 2015	Yang 2015	Kumar 2014	Chang 2017	Bang 2016
Selection											
Representativeness of exposed cohort?	Representative of average adult in community	*	*	*	*	*	*	*	*	*	*
Selection of the non-exposed cohort?	Drawn from same community as exposed cohort	*	*	*	*	*	*	*	*	*	*
Ascertainment of intervention	Secure record, secure interview	-	-	-	-	*	*	-	-	-	-
Demonstration that outcome of interest was not present at start of study?	Baseline of chronic liver disease versus progression/decompensation	*	*	*	*	*	*	*	*	*	*
Comparability											
Study controls for age and at least 3 additional risk factors?	Study controls for age and variety of other risk factors; details shown in Table 1 (**)	**	**	**	**	**	**	**	**	**	**
Outcome											
Assessment of outcome?	Record linkage	*	*	*	*	*	*	*	*	*	*
Was follow-up long enough for outcome to occur?	Follow-up > 3 months	*	*	*	*	*	*	*	*	*	*
Adequacy of follow-up of cohorts?	Complete follow-up, or subjects lost to follow-up unlikely to introduce bias	*	*	*	*	*	*	*	*	*	*
Overall Quality Score (Maximum = 9)		8	8	8	8	9	9	8	8		

Ovid

Database(s): Embase 1988 to 2016 Week 32, Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R) 1946 to Present, EBM Reviews - Cochrane Central Register of Controlled Trials July 2016, EBM Reviews - Cochrane Database of Systematic Reviews 2005 to August 03, 2016

Search Strategy:

#	Searches	Results
1	hydroxymethylglutaryl coenzyme A reductase inhibitor/	66720
2	Hydroxymethylglutaryl-CoA Reductase Inhibitors/	73277
3	("HMG CoA reductase inhibitor*" or "hmg coenzyme a reductase inhibitor*" or "hydroxymethylglutaryl coa reductase inhibitor*" or "hydroxymethylglutaryl coenzyme A reductase inhibitor*" or "hydroxymethylglutaryl-coa inhibitor*" or "hydroxymethylglutaryl-coenzyme a inhibitor*" or statin or statins or vastatin*).mp.	131547
4	exp Simvastatin/ (avastinee or cholestat or clinfar or colastatina or colestricon or covastin or denan or epistatin or esvat or ethicol or eucor or ifistatin or kavelor or klonastin or kolestevan or "l 644128" or l644128 or lipecor or lipex or lipinorm or liponorm or lipovas or lodales or medipo or mersivas or "mk 733" or mk733 or normofat or	39371
5	"nor-vastina" or orovas or rechol or simbado or simcard or simchol or simovil or simtin or simvacor or simvahex or simvalord or simvastar or simvastatin or simvata or simvatin or simvor or simvotin or sinvacor or sinvastatin or sinvinolin or sivastin or starzoco or synvinolin or torio or valemia or vasilip or vasotenal or vazim or vidastat or zimmex or zocor or "zocor forte" or zocord or zovast).mp.	44289
6	exp Pravastatin/ (astin or bristacol or cholespar or "cs 514" or cs514 or "cs-514" or elisor or epatostantin or eptastatin or eptastatine or kenstatin or lipemol or lipidal or liplat or lipostat or liprevil or mevalotin or novales or prareduct or prascalend or prastan or	21644
7	prava or pravachol or pravacol or pravaselect or pravasin or pravasine or pravastatin or pravator or pravyl or "rms 431" or rms431 or "rms-431" or sanaprav or selektine or selipran or "sq 31000" or sq31000 or stanidine or vasopran or vasten or xipral).mp.	24239
8	exp Lovastatin/ ("6 methylcompactin" or altocor or altoprev or artein or belvas or birotin or cholestra or cysin or ellanco or elstatin or "l 654969" or lipdip or lipivas or lofacol or lomar or lostatin or lovacel or lovacol or lovalip or lovalord or lovastan or	25315
9	lovastatin or lovasterol or lovastin or lovatadin or lowachol or lozutin or medostatin or mevacor or meverstin or mevinacor or mevinolin or "mk 0803" or "mk 803" or mk0803 or mk803 or "monacolin K" or "monakolin k" or "msd 803" or neolipid or nergadan or ovasta or rodatin or rovacor or taucor).mp.	21007
10	exp Atorvastatin Calcium/	34761
11	(atorvastatin or atovarol or cardyl or "ci 981" or ci981 or "ci-981" or glustar or lipibec or lipitor or liprimar or liptonorm or lowlipen or sortis or storvas or tahor or	40892

torvast or totalip or xarator or "ym 548" or ym548 or zarator).mp.	
12 exp fluindostatin/ (canef or cranoc or fluindostatin or fluvastatin or "fractal lp" or lescol or "lescol lp" 13 or "lescol xl" or leucol or lochol or locol or "sri 62320" or sri62320 or vastin or "xu 62320" or xu62320).mp.	8167 10752
14 exp Rosuvastatin Calcium/ 15 (crestor or rosuvas or rosuvastatin or "s 4522" or s4522 or "zd 4522" or zd4522).mp.	12846 15153
16 or/1-15	180389
17 Chronic Disease/ and Liver Diseases/ 18 (chronic* adj3 (liver or hepatic) adj3 disease*).mp.	6115 45740
19 exp liver cirrhosis/ 20 (cirrheses or cirrhosis or ((fibrosis or fibroses) and (liver or hepatic))).mp.	182120 284733
21 exp Hepatitis B/ 22 ("hepatitis B" or "serum hepatitis" or "hippie hepatitis" or "injection hepatitis" or "hepatitis type B").mp.	124564 202140
23 exp Hepatitis C/ 24 ("hepatitis c" or "parenterally transmitted non a non b hepatitis" or "pt-nanbh").mp.	143961 198352
25 exp Liver Diseases, Alcoholic/ 26 (alcohol* adj3 (liver or hepatic* or hepatit* or cirrhos*)).mp.	30740 64857
27 Fatty Liver/ 28 exp nonalcoholic fatty liver/ 29 ("fatty liver" or steatohepatitis or ((NAFLD or NASH) and (liver* or hepat*)) or steatohepatitides or (liver adj2 steatos*) or "visceral steatos*).mp.	44712 26933 80399
30 or/17-29	647158
31 16 and 30	4182
32 exp evidence based medicine/ 33 exp meta analysis/ 34 exp Meta-Analysis as Topic/ 35 exp "systematic review"/ 36 exp controlled study/ 37 exp Randomized Controlled Trial/ 38 exp triple blind procedure/ 39 exp Double-Blind Method/ 40 exp Single-Blind Method/ 41 exp latin square design/ 42 exp Placebos/ 43 exp Placebo Effect/ 44 exp comparative study/	909803 185121 43698 111422 5178428 825901 134 376320 59991 331 302774 9084 2634347

45 exp intervention studies/	28789
46 exp Cohort Studies/	1949868
47 exp longitudinal study/	304816
48 exp retrospective study/	1075748
49 exp prospective study/	841241
50 exp population research/	76861
51 exp observational study/	118830
52 exp clinical trial/	1809867
53 clinical study/	75663
54 exp Evaluation Studies/	257219
55 exp Evaluation Studies as Topic/	985788
56 exp correlational study/	19782
57 exp case-control studies/	932912
58 exp confidence interval/	144338
59 exp proportional hazards model/ ((evidence adj based) or (meta adj analys*) or (systematic* adj3 review*) or (control* adj3 study) or (control* adj3 trial) or (randomized adj3 study) or (randomized adj3 trial) or (randomised adj3 study) or (randomised adj3 trial) or "pragmatic clinical trial" or (doubl* adj blind*) or (doubl* adj mask*) or (singl* adj blind*) or (singl* adj mask*) or (tripl* adj blind*) or (tripl* adj mask*) or (trebl* adj blind*) or (trebl* adj mask*) or "latin square" or placebo* or nocebo* or "comparative study" or "comparative survey" or "comparative analysis" or (intervention* adj2 study) or (intervention* adj2 trial) or cohort* or "longitudinal study" or "longitudinal survey" or "longitudinal analysis" or "longitudinal evaluation" or longitudinal* or ((retrospective or "ex post facto") adj3 (study or survey or analysis or design)) or retrospectiv* or "prospective study" or "prospective survey" or "prospective analysis" or prospectiv* or (population adj3 stud* or survey* or analys* or research)) or ("follow-up" or followup) adj (stud* or survey or analysis)) or ((observation or observational) adj (study or survey or analysis)) or "clinical study" or "clinical trial" or "evaluation study" or "evaluation survey" or "evaluation analysis" or ((correlation* adj2 study) or (correlation* adj2 analys*)) or "case control study" or "case base study" or "case referent study" or "case referent study" or "case referent study" or "case compeer study" or "case comparison study" or "matched case control" or "confidence interval" or (hazard* adj (model* or analys* or regression or ratio or ratios)) or "Cox model" or "Cox multivariate analyses" or "Cox multivariate analysis" or "Cox regression" or "Cox survival analyses" or "Cox survival analysis" or "Cox survival model").mp.pt.	125372
60	14070838
61 or/32-60	14928775
62 31 and 61	2293
63 (exp animals/ or exp nonhuman/) not exp humans/	8529098
64 ((alpaca or alpacas or amphibian or amphibians or animal or animals or antelope or armadillo or armadillos or avian or baboon or baboons or beagle or beagles or bee	7479056

or bees or bird or birds or bison or bovine or buffalo or buffaloes or buffalos or "c elegans" or "Caenorhabditis elegans" or camel or camels or canine or canines or carp or cats or cattle or chick or chicken or chickens or chicks or chimp or chimpanze or chimpanzees or chimps or cow or cows or "D melanogaster" or "dairy calf" or "dairy calves" or deer or dog or dogs or donkey or donkeys or drosophila or "Drosophila melanogaster" or duck or duckling or ducklings or ducks or equid or equids or equine or equines or feline or felines or ferret or ferrets or finch or finches or fish or flatworm or flatworms or fox or foxes or frog or frogs or "fruit flies" or "fruit fly" or "G mellonella" or "Galleria mellonella" or geese or gerbil or gerbils or goat or goats or goose or gorilla or gorillas or hamster or hamsters or hare or hares or heifer or heifers or horse or horses or insect or insects or jellyfish or kangaroo or kangaroos or kitten or kittens or lagomorph or lagomorphs or lamb or lambs or llama or llamas or macaque or macaques or macaw or macaws or marmoset or marmosets or mice or minipig or minipigs or mink or minks or monkey or monkeys or mouse or mule or mules or nematode or nematodes or octopus or octopuses or orangutan or "orang-utan" or orangutans or "orang-utans" or oxen or parrot or parrots or pig or pigeon or pigeons or piglet or piglets or pigs or porcine or primate or primates or quail or rabbit or rabbits or rat or rats or reptile or reptiles or rodent or rodents or ruminant or ruminants or salmon or sheep or shrimp or slug or slugs or swine or tamarin or tamarins or toad or toads or trout or urchin or urchins or vole or voles or waxworm or waxworms or worm or worms or xenopus or "zebra fish" or zebrafish) not (human or humans)).mp.

65 62 not (63 or 64)	2142
limit 65 to (editorial or erratum or letter or note or addresses or autobiography or bibliography or biography or blogs or comment or dictionary or directory or interactive tutorial or interview or lectures or legal cases or legislation or news or newspaper article or overall or patient education handout or periodical index or portraits or published erratum or video-audio media or webcasts) [Limit not valid in Embase,Ovid MEDLINE(R),Ovid MEDLINE(R) In-Process,CCTR,CDSR; records were retained]	158
67 from 66 keep 1-136	136
68 65 not 67	2006
69 remove duplicates from 68	1709

Scopus

- 1 TITLE-ABS-KEY("6 methylcompactin" OR altocor OR altoprev OR artein OR astin OR atorvastatin OR atovarol OR avastinee OR belvas OR birotin OR bristacol OR canef OR cardyl OR cholespar OR cholestat OR cholestra OR "ci 981" OR ci981 OR "ci-981" OR clinfar OR colastatina OR colestricon OR covastin OR cranoc OR crestor OR "cs 514" OR cs514 OR "cs-514" OR cysin OR denan OR elisor OR ellanco OR elstatin OR epatostantin OR epistatin OR eptastatin OR eptastatine OR esvat OR ethicol OR eucor OR fluindostatin OR fluvastatin OR "fractal lp" OR glustar OR "HMG CoA reductase inhibitor*" OR "hmg coenzyme a reductase inhibitor*" OR "hydroxymethylglutaryl coa reductase inhibitor*" OR "hydroxymethylglutaryl coenzyme A reductase inhibitor*" OR "hydroxymethylglutaryl-coa inhibitor*" OR "hydroxymethylglutaryl-coenzyme a inhibitor*" OR ifistatin OR kavelor OR kenstatin OR klonastin OR kolestevan OR "l 644128" OR "l 654969" OR l644128 OR lescol OR "lescol lp" OR "lescol xl" OR leucol OR lipdip OR lipecor OR lipemol OR lipex OR lipibec OR lipidal OR lipinorm OR lipitor OR lipivas OR liplat OR liponorm OR lipostat OR lipovas OR liprevil OR liprimar OR liptonorm OR lochol OR locol OR lodales OR lofacol OR lomar OR lostatin OR lovacel OR lovacol OR lovalip OR lovalord OR lovastan OR lovastatin OR lovasterol OR lovastin OR lovatadin OR lowachol OR lowlipen OR lozutin OR medipo OR medostatin OR mersivas OR mevacor OR mevalotin OR meverstin OR mevinacor OR mevinolin OR "mk 0803" OR "mk 733" OR "mk 803" OR mk0803 OR mk733 OR mk803 OR "monacolin K" OR "monakolin k" OR "msd 803" OR neolipid OR nergadan OR normofat OR "nor-vastina" OR novales OR orovas OR ovasta OR prareduct OR prascolend OR prastan OR prava OR pravachol OR pravacol OR pravaselect OR pravasin OR pravasine OR pravastatin OR pravator OR pravyl OR rechol OR "rms 431" OR rms431 OR "rms-431" OR rodatin OR rosuvas OR rosuvastatin OR rovacor OR "s 4522" OR s4522 OR sanaprav OR selektine OR selipran OR simbado OR simcard OR simchol OR simovil OR simtin OR simvacor OR simvahex OR simvalord OR simvostar OR simvastatin OR simvata OR simvatin OR simvor OR simvotin OR sinvacor OR sinvastatin OR sinvinolin OR sivastin OR sortis OR "sq 31000" OR sq31000 OR "sri 62320" OR sri62320 OR stanidine OR starzoco OR statin OR statins OR storvas OR synvinolin OR tahor OR taucor OR torio OR torvast OR totalip OR valemia OR vasilip OR vasopran OR vasotenal OR vastatin* OR vasten OR vastin OR vazim OR vidastat OR xarator OR xipral OR "xu 62320" OR xu62320 OR "ym 548" OR ym548 OR zarator OR "zd 4522" OR zd4522 OR zimmex OR zocor OR "zocor forte" OR zocord OR zovast)
- 2 TITLE-ABS-KEY(((fibrosis or fibroses) and (liver or hepatic)) OR ((NAFLD or NASH) and (liver* or hepat*))) OR (alcohol* W/3 (liver or hepatic* or hepatit* or cirrhos*)) OR (chronic* W/3 (liver or hepatic) W/3 disease*) OR (liver W/2 steatos*) OR cirrhoses OR cirrhosis OR "fatty liver" OR "hepatitis B" OR "hepatitis c" OR "hepatitis type B" OR "hippie hepatitis" OR "injection hepatitis" OR "parenterally transmitted non a non b hepatitis" OR "pt-nanbh" OR "serum hepatitis" OR steatohepatitides OR steatohepatitis OR "visceral steatos*")
- 3 TITLE-ABS-KEY((evidence W/1 based) OR (meta W/1 analys*) OR (systematic* W/3 review*) OR (control* W/3 study) OR (control* W/3 trial) OR (randomized W/3 study) OR (randomized W/3 trial) OR (randomised W/3 study) OR (randomised W/3 trial) OR

"pragmatic clinical trial" OR (doubl* W/1 blind*) OR (doubl* W/1 mask*) OR (singl* W/1 blind*) OR (singl* W/1 mask*) OR (tripl* W/1 blind*) OR (tripl* W/1 mask*) OR (trebl* W/1 blind*) OR (trebl* W/1 mask*) OR "latin square" OR placebo* OR nocebo* OR "comparative study" OR "comparative survey" OR "comparative analysis" OR (intervention* W/2 study) OR (intervention* W/2 trial) OR cohort* OR "longitudinal study" OR "longitudinal survey" OR "longitudinal analysis" OR "longitudinal evaluation" OR longitudinal* OR ((retrospective OR "ex post facto") W/3 (study OR survey OR analysis OR design)) OR retrospectiv* OR "prospective study" OR "prospective survey" OR "prospective analysis" OR prospectiv* OR (population W/3 (stud* or survey* or analys* or research)) OR ("follow-up" or followup) W/1 (stud* or survey or analysis) OR ((observation or observational) W/1 (study or survey or analysis)) OR "clinical study" OR "clinical trial" OR "evaluation study" OR "evaluation survey" OR "evaluation analysis" OR ((correlation* W/2 study) OR (correlation* W/2 analys*)) OR "case control study" OR "case base study" OR "case referent study" OR "case referent study" OR "case compeer study" OR "case comparison study" OR "matched case control" OR "confidence interval" OR (hazard* W/1 (model* OR analys* OR regression or ratio or ratios)) OR "Cox model" OR "Cox multivariate analyses" OR "Cox multivariate analysis" OR "Cox regression" OR "Cox survival analyses" OR "Cox survival analysis" OR "Cox survival model")

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5 TITLE-ABS-KEY((alpaca OR alpacas OR amphibian OR amphibians OR animal OR animals OR antelope OR armadillo OR armadillos OR avian OR baboon OR baboons OR beagle OR beagles OR bee OR bees OR bird OR birds OR bison OR bovine OR buffalo OR buffaloes OR buffalos OR "c elegans" OR "Caenorhabditis elegans" OR camel OR camels OR canine OR canines OR carp OR cats OR cattle OR chick OR chicken OR chickens OR chicks OR chimp OR chimpanze OR chimpanzees OR chimps OR cow OR cows OR "D melanogaster" OR "dairy calf" OR "dairy calves" OR deer OR dog OR dogs OR donkey OR donkeys OR drosophila OR "Drosophila melanogaster" OR duck OR duckling OR ducklings OR ducks OR equid OR equids OR equine OR equines OR feline OR felines OR ferret OR ferrets OR finch OR finches OR fish OR flatworm OR flatworms OR fox OR foxes OR frog OR frogs OR "fruit flies" OR "fruit fly" OR "G mellonella" OR "Galleria mellonella" OR geese OR gerbil OR gerbils OR goat OR goats OR goose OR gorilla OR gorillas OR hamster OR hamsters OR hare OR hares OR heifer OR heifers OR horse OR horses OR insect OR insects OR jellyfish OR kangaroo OR kangaroos OR kitten OR kittens OR lagomorph OR lagomorphs OR lamb OR lambs OR llama OR llamas OR macaque OR macaques OR macaw OR macaws OR marmoset OR marmosets OR mice OR minipig OR minipigs OR mink OR minks OR monkey OR monkeys OR mouse OR mule OR mules OR nematode OR nematodes OR octopus OR octopuses OR orangutan OR "orangutan" OR orangutans OR "orang-utans" OR oxen OR parrot OR parrots OR pig OR pigeon OR pigeons OR piglet OR piglets OR pigs OR porcine OR primate OR primates OR quail OR rabbit OR rabbits OR rat OR rats OR reptile OR reptiles OR rodent OR rodents OR ruminant OR ruminants OR salmon OR sheep OR shrimp OR slug OR slugs OR swine OR tamarin OR tamarins OR toad OR toads OR trout OR urchin OR urchins OR vole OR voles OR waxworm

- OR waxworms OR worm OR worms OR xenopus OR "zebra fish" OR zebrafish) AND NOT
(human OR humans))
- 6 4 and not 5
- 7 DOCTYPE(le) OR DOCTYPE(ed) OR DOCTYPE(bk) OR DOCTYPE(er) OR DOCTYPE(no) OR
DOCTYPE(sh)
- 8 6 and not 7
- 9 PMID(0*) OR PMID(1*) OR PMID(2*) OR PMID(3*) OR PMID(4*) OR PMID(5*) OR PMID(6*)
OR PMID(7*) OR PMID(8*) OR PMID(9*)
- 10 8 and not 9

Web of Science

- 1 **TOPIC:** (("6 methylcompactin" OR altocor OR altoprev OR artein OR astin OR atorvastatin OR atovarol OR avastinee OR belvas OR birotin OR bristacol OR canef OR cardyl OR cholepar OR cholestat OR cholestra OR "ci 981" OR ci981 OR "ci-981" OR clinfar OR colastatina OR colestricon OR covastin OR cranoc OR crestor OR "cs 514" OR cs514 OR "cs-514" OR cysin OR denan OR elisor OR ellanco OR elstatin OR epatostantin OR epistatin OR eptastatin OR eptastatine OR esvat OR ethicol OR eucor OR fluindostatin OR fluvastatin OR "fractal lp" OR glustar OR "HMG CoA reductase inhibitor*" OR "hmg coenzyme a reductase inhibitor*" OR "hydroxymethylglutaryl coa reductase inhibitor*" OR "hydroxymethylglutaryl coenzyme A reductase inhibitor*" OR "hydroxymethylglutaryl-coa inhibitor*" OR "hydroxymethylglutaryl-coenzyme a inhibitor*" OR ifistatin OR kavelor OR kenstatin OR klonastin OR kolestevan OR "l 644128" OR "l 654969" OR l644128 OR lescol OR "lescol lp" OR "lescol xl" OR leucol OR lipdip OR lipecor OR lipemol OR lipex OR lipibec OR lipidal OR lipinorm OR lipitor OR lipivas OR liplat OR liponorm OR lipostat OR lipovas OR liprevil OR liprimar OR liptonorm OR lochol OR locol OR lodales OR lofacol OR lomar OR lostatin OR lovacel OR lovacol OR lovalip OR lovalord OR lovastan OR lovastatin OR lovasterol OR lovastin OR lovatadin OR lowachol OR lowlipen OR lozutin OR medipo OR medostatin OR mersivas OR mevacor OR mevalotin OR meverstin OR mevinacor OR mevinolin OR "mk 0803" OR "mk 733" OR "mk 803" OR mk0803 OR mk733 OR mk803 OR "monacolin K" OR "monakolin k" OR "msd 803" OR neolipid OR nergadan OR normofat OR "nor-vastina" OR novales OR orovas OR ovasta OR prareduct OR prascolend OR prastan OR prava OR pravachol OR pravacol OR pravaselect OR pravasin OR pravasine OR pravastatin OR pravator OR pravyl OR rechol OR "rms 431" OR rms431 OR "rms-431" OR rodatin OR rosuvas OR rosuvastatin OR rovacor OR "s 4522" OR s4522 OR sanaprav OR selektine OR selipran OR simbado OR simcard OR simchol OR simovil OR simtin OR simvacor OR simvahex OR simvalord OR simvastar OR simvastatin OR simvata OR simvatin OR simvor OR simvotin OR sinvacor OR sinvastatin OR sinvinolin OR sivastin OR sortis OR "sq 31000" OR sq31000 OR "sri 62320" OR sri62320 OR stanidine OR starzoco OR statin OR statins OR storvas OR synvinolin OR tahor OR taucor OR torio OR torvast OR totalip OR valemia OR vasilip OR vasopran OR vasotenal OR vastatin* OR vasten OR vastin OR vazim OR vidastat OR xarator OR xipral OR "xu 62320" OR xu62320 OR "ym 548" OR ym548 OR zarator OR "zd 4522" OR zd4522 OR zimmex OR zocor OR "zocor forte" OR zocord OR zovast)) **AND TOPIC:** (((fibrosis or fibroses) and (liver or hepatic)) OR ((NAFLD or NASH) and (liver* or hepat*)) OR (alcohol* NEAR/3 (liver or hepatic* or hepatit* or cirrhos*)) OR (chronic* NEAR/3 (liver or hepatic) NEAR/3 disease*) OR (liver NEAR/2 steatos*) OR cirrhoses OR cirrhosis OR "fatty liver" OR "hepatitis B" OR "hepatitis c" OR "hepatitis type B" OR

"hippie hepatitis" OR "injection hepatitis" OR "parenterally transmitted non a non b hepatitis" OR "pt-nanbh" OR "serum hepatitis" OR steatohepatitides OR steatohepatitis OR "visceral steatos*") AND **TOPIC:** (((evidence NEAR/1 based) OR (meta NEAR/1 analys*) OR (systematic* NEAR/3 review*) OR (control* NEAR/3 study) OR (control* NEAR/3 trial) OR (randomized NEAR/3 study) OR (randomized NEAR/3 trial) OR (randomised NEAR/3 study) OR (randomised NEAR/3 trial) OR "pragmatic clinical trial" OR (doubl* NEAR/1 blind*) OR (doubl* NEAR/1 mask*) OR (singl* NEAR/1 blind*) OR (singl* NEAR/1 mask*) OR (tripl* NEAR/1 blind*) OR (tripl* NEAR/1 mask*) OR (trebl* NEAR/1 blind*) OR (trebl* NEAR/1 mask*) OR "latin square" OR placebo* OR nocebo* OR "comparative study" OR "comparative survey" OR "comparative analysis" OR (intervention* NEAR/2 study) OR (intervention* NEAR/2 trial) OR cohort* OR "longitudinal study" OR "longitudinal survey" OR "longitudinal analysis" OR "longitudinal evaluation" OR longitudinal* OR ((retrospective OR "ex post facto") NEAR/3 (study OR survey OR analysis OR design)) OR retrospectiv* OR "prospective study" OR "prospective survey" OR "prospective analysis" OR prospectiv* OR (population NEAR/3 (stud* or survey* or analys* or research)) OR (("follow-up" or followup) NEAR/1 (stud* or survey or analysis)) OR ((observation or observational) NEAR/1 (study or survey or analysis)) OR "clinical study" OR "clinical trial" OR "evaluation study" OR "evaluation survey" OR "evaluation analysis" OR ((correlation* NEAR/2 study) OR (correlation* NEAR/2 analys*)) OR "case control study" OR "case base study" OR "case referent study" OR "case referent study" OR "case referent study" OR "case compeer study" OR "case comparison study" OR "matched case control" OR "confidence interval" OR (hazard* NEAR/1 (model* OR analys* OR regression or ratio or ratios)) OR "Cox model" OR "Cox multivariate analyses" OR "Cox multivariate analysis" OR "Cox regression" OR "Cox survival analyses" OR "Cox survival analysis" OR "Cox survival model")) AND **DOCUMENT TYPES:** (Article OR Abstract of Published Item OR Meeting Abstract OR Proceedings Paper OR Review) Indexes=SCI-EXPANDED Timespan=All years

- 2 TS=((alpaca OR alpacas OR amphibian OR amphibians OR animal OR animals OR antelope OR armadillo OR armadillos OR avian OR baboon OR baboons OR beagle OR beagles OR bee OR bees OR bird OR birds OR bison OR bovine OR buffalo OR buffaloes OR buffalos OR "c elegans" OR "Caenorhabditis elegans" OR camel OR camels OR canine OR canines OR carp OR cats OR cattle OR chick OR chicken OR chickens OR chicks OR chimp OR chimpanze OR chimpanzees OR chimps OR cow OR cows OR "D melanogaster" OR "dairy calf" OR "dairy calves" OR deer OR dog OR dogs OR donkey OR donkeys OR drosophila OR "Drosophila melanogaster" OR duck OR duckling OR ducklings OR ducks OR equid OR equids OR equine OR equines OR feline OR felines OR ferret OR ferrets OR finch OR finches OR fish OR flatworm OR flatworms OR fox OR foxes OR frog OR frogs OR "fruit flies" OR "fruit fly" OR "G mellonella" OR "Galleria mellonella" OR geese OR gerbil OR gerbils OR goat OR goats OR goose OR gorilla OR gorillas OR hamster OR hamsters

OR hare OR hares OR heifer OR heifers OR horse OR horses OR insect OR insects
OR jellyfish OR kangaroo OR kangaroos OR kitten OR kittens OR lagomorph OR
lagomorphs OR lamb OR lambs OR llama OR llamas OR macaque OR macaques OR
macaw OR macaws OR marmoset OR marmosets OR mice OR minipig OR minipigs
OR mink OR minks OR monkey OR monkeys OR mouse OR mule OR mules OR
nematode OR nematodes OR octopus OR octopuses OR orangutan OR "orang-utan"
OR orangutans OR "orang-utans" OR oxen OR parrot OR parrots OR pig OR pigeon
OR pigeons OR piglet OR piglets OR pigs OR porcine OR primate OR primates OR
quail OR rabbit OR rabbits OR rat OR rats OR reptile OR reptiles OR rodent OR
rodents OR ruminant OR ruminants OR salmon OR sheep OR shrimp OR slug OR
slugs OR swine OR tamarin OR tamarins OR toad OR toads OR trout OR urchin OR
urchins OR vole OR voles OR waxworm OR waxworms OR worm OR worms OR
xenopus OR "zebra fish" OR zebrafish) NOT (human OR humans)) Indexes=SCI-
EXPANDED Timespan=All years

3 1 NOT 2

4 PMID=(0* or 1* or 2* or 3* or 4* or 5* or 6* or 7* or 8* or 9*)

5 3 NOT 4

	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
Abraldes 2009	+	+	+	+	+	+	+
Abraldes 2016	+	?	+	+	+	+	+
Pollo-Flores 2015	+	?	?	+	+	+	+