

Supplementary Table 3. Characteristics of excluded studies (ordered by study ID)

Study	Journal	Reason for exclusion
Abdelmalek (2010)	Am J Gastroenterol 105:S116	Only an abstract of the study was available
Abel (2009)	Med Sci Monit 15(12):Ms6-11	Inappropriate primary end point (only laboratory data)
Abel (2009)	Orv Hetil 150(21):989-993	Inappropriate primary end point (only laboratory data)
Adams (2004)	Indian J Gastroenterol 23(4):127-128	Review
Adams (2006)	Postgrad Med J 82(967):315-322	Inappropriate intervention
Adams (2015)	Nat Rev Gastroenterol Hepatol 12(3):126-127	Review
Aggarwal (2009)	Hepatology 50:789A	Inappropriate primary end point (no steatosis data)
Ahmed (2006)	Med Hypotheses 66(2):440-441	Review
Ahmed (2006)	Scand J Gastroenterol 41(5):631	Review
Ahmed (2009)	Diabetes ObesMetab 11(3):188-195	Review
Ahmed (2010)	Expert Opin Drug Saf 9(4):511-514	Inappropriate participants
Ahmed (2010)	Drug Discov Today 15(15-16):590-595	Review
Antonopoulos (2006)	Atherosclerosis 184(1):233-234	Review
Arendt (2011)	Am J Gastroenterol 106:78-80	Inappropriate primary end point (no steatosis data)
Athyros (2006)	Curr Med Res Opin 22:873-883	Inappropriate study modality (ultrasonography)
Athyros (2011)	Ann Med 43(3):167-171	Review
Athyros (2013)	Expert Opin Investig Drugs 22(9):1089-1093	Review
Averna (2015)	Atheroscler Suppl 17(C):27-34	Review
Bayard (2006)	Am Fam Physician 73(11):1961-1969	Review
Bays (2014)	J Clin Lipidol 8(3 Suppl):S47-57	Review
Beaton (2012)	Can J Gastroenterol 26(6):353-357	Review
Blais (2015)	Gastroenterology 148(4):S982.	Inappropriate study design (single arm study)
Bril (2013)	Diabetes 62, A164 DOI:10.2337/db13-388-679	Inappropriate primary end point (no steatosis data)
Budoff (2009)	J Am Coll Cardiol 53(10):A276	only an abstract of the study was available
Bugianesi (2004)	Clin Gastroenterol 18(6 SPEC.ISS.):1105-1116	Review
Buscher (2004)	Dtsch Med Wochenschr 129(SUPPL. 2):S60-S62	Review
Calamita (2007)	Expert Opin Ther Targets 11(9):1231-1249	Review
Cao (2012)	Zhonghua Gan Zang Bing Za Zhi 20(4):304-309	Inappropriate study design (rat model)
Carnelutti (2012)	Dig Liver Dis 44:S25-S26	Inappropriate primary end point (no steatosis data)
Chalasani (2005)	Hepatology 41(4):690-695	Review
Chan (2007)	J Gastroenterol Hepatol (Australia) 22(6):801-808	Review
Chan (2009)	Atheroscler Suppl 10(2)	Same study (Chan 2010)
Chan (2010)	Diabetes Care 33:1134-1139 DOI:10.2337/dco9-1765	Inappropriate participants (patients with central obesity)
Chang (2013)	FASEB J 27	Inappropriate study design (rat model)
Chuthan (2013)	Minerva Gastroenterol Dietol 59(1):69-87	Review
Congdon (2006)	J Fam Pract 55(10):905-906	Review
Conjeevaram (2009)	Hepatology (Baltimore, MD) 50:774a	Inappropriate intervention (fenofibrate)
de Alwis (2008)	J Hepatol 48(SUPPL. 1):S104-S112	Review
de Alwis (2010)	Curr Pharm Des 16(17):1958-1962	Review
De Keyser (2013)	Pharmacoepidemiol Drug Saf 22:373	Inappropriate study design (single arm study)
Del Ben (2014)	World J Gastroenterol (26):8341-8350	Review
Delgado (2008)	Eur J Intern Med 19(2):75-82	Review

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Study	Journal	Reason for exclusion
Della Corte (2011)	Expert Opin Pharmacother 12(12):1901-1911	Review
Dima (2012)	Rom J Intern Med 50(1):19-25	Review
Drapkina (2011)	Endocr Pract 17(6):21A-22A	Inappropriate primary end point (only laboratory data)
Drapkina (2011)	Diab Vasc Dis Res 8(1):56-57	Inappropriate primary end point (only laboratory data)
Drapkina (2012)	J Hepatol 56:S507	Inappropriate primary end point (only laboratory data)
Duvnjak (2007)	World J Gastroenterol 13(34):4539-4550	Review
Duvnjak (2009)	J Physiol Pharmacol 60 Suppl 7:57-66	Review
Elsheikh (2014)	Gastroenterology 146(5):S-710	Inappropriate primary end point (only laboratory data)
Enjaji (2010)	Lipids Health Dis 9:29	Inappropriate study modality (ultrasonography)
Eslami (2013)	Cochrane Database Syst Rev 12:Cdoo8623	Review
Farrell (2014)	Clin Gastroenterol Hepatol 12(1):152-155	Review
Federico (2006)	Dig Liver Dis 38(11):789-801	Review
Filippatos (2010)	World J Hepatol 2(4):139-142	Review
Foster (2010)	Gastroenterology 138(5):S803	Same study (Foster 2011)
Foster (2011)	Am J Gastroenterol 106:71-77	Only an abstract of the study was available
Gitto (2015)	Gastroenterol Res Pract 2015	Review
Gomez(2006)	Aliment Pharmacol Ther 23(11):1643-1647	Inappropriate study modality (ultrasonography)
Gossard (2011)	Drugs Today (Barc) 47(12):915-922	Review
Hardwick (2011)	Drug Metab Rev 43:78	Inappropriate study design (rat model)
Harrison (2003)	Drugs 63(22):2379-2394	Review
Harrison (2004)	Clin Liver Dis 8(3):715-728	Review
Harrison (2014)	Hepatology 60:630A	Review
Hatzitolios (2004)	Indian J Gastroenterol 23(4):131-134	Inappropriate study modality (ultrasonography)
Hughes (2006)	Med Hypotheses 67(6):1463-1464	Review
Hyogo (2008)	Metabolism 57:1711-1718	Same study (hyogo 2012)
Hyogo (2012)	Dig Liver Dis 44(6):492-496	Inappropriate study design (single arm study)
Ioannou (2015)	J Lipid Res 56(2):277-285	Inappropriate study design (rat model)
Ivanova (2013)	Eur J PrevCardiol 20(1):S76	Inappropriate study modality (ultrasonography)
Kalaitzakis (2014)	Minerva Gastroenterol Dietol 60(1):15-24	Review
Karagiannis (2014)	Curr Vasc Pharmacol 12:505-511	Inappropriate primary end point (no steatosis data)
Kashi (2008)	Semin Liver Dis 28(4):396-406	Review
Khedmat (2011)	Hepat Mon 11(2):74-85	Review
Kim (2012)	Gastroenterology 142(5):S545	Inappropriate study design (rat model)
Kimura (2010)	J Gastroenterol 45(7):750-757	Inappropriate study design (single arm study)
Koehler (2012)	Hepatology 56:595A-596A	Inappropriate primary end point (only laboratory data)
Kopec (2011)	Nutr Clin Pract 26(5):565-576	Review
Korneeva (2010)	J Hepatol 52:S146	Same study (Korneeva 2012)
Korneeva (2012)	Cardiovasc Res 93:S79-S80	Inappropriate study modality (ultrasonography)
Krawczyk (2010)	Best Pract Res Clin Gastroenterol 24(5):695-708	Review
Lam (2009)	Ann Hepatol 8(SUPPL. 1):S51-S59	Review
Lam (2010)	Therap Adv Gastroenterol 3(2):121-137	Review
Le (2012)	J Clin Exp Hepatol 2(2):156-173	Review

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Study	Journal	Reason for exclusion
Leerapun (2011)	Hepatol Int 5(1):8-9	Review
Lewis (2010)	Dig Dis Sci 55(3):560-578	Review
Liangpunsakul (2003)	Curr Treat Options Gastroenterol 6(6):455-463	Review
Liberopoulos (2006)	Aliment Pharmacol Ther 24(4):698-699	Review
Lomonaco (2013)	Drugs 73(1):1-14	Review
Loomba (2014)	Hepatology (Baltimore, MD) 60:226a DOI:10.1002/hep.27457	Same study (Loomba 2015)
Lowyck (2007)	Acta Gastroenterol Belg 70(4):381-388	Review
Machado (2014)	Expert Rev Gastroenterol Hepatol 8(5):487-500	Review
Malinowski (2013)	Pharmacotherapy 33(2):223-242	Review
Marchesini (2011)	Expert Opin Emerg Drugs 16:121-136	Review
Maroni (2010)	J Hypertens 28:e547	Inappropriate primary end point (only laboratory data)
Maroni (2011)	Am J Med Sci 342(5):383-387	Inappropriate primary end point (only laboratory data)
Marzocchi (2003)	Gastroenterol Int 16(1-2):9-16	Review
Mathur (2012)	J Am Coll Surg 215(3):S25	Inappropriate study design (rat model)
Mazzella (2014)	Clin Liver Dis 18(1):73-89	Review
Mazzella (2015)	Gastroenterology 149(2):274-278	Review
McAvoy (2006)	Br J Diab Vasc Dis 6(6):251-260	Review
Mehta (2010)	Ther Adv Endocrinol Metab 1(3):101-115	Review
Mendez (2007)	Liver Int 27(9):1157-1165	Review
Miao (2014)	Am J Gastroenterol 109:S186	Only an abstract of the study was available
Mihaila (2009)	Hepatogastroenterology 56(93):1117-1121	Inappropriate primary end point (only laboratory data)
Mihaila (2012)	Arch Balkan Med Union 47(3):249-254	Review
Mishra (2007)	Curr Drug Discov Technol 4(2):133-140	Review
Moreno (2005)	Med Clin (Barc) 125(3):108-116	Review
Moscatiello (2008)	Mini Rev Med Chem 8(8):767-775	Review
Moseley (2008)	J Clin Gastroenterol 42(4):332-335	Review
Mouzaki (2012)	Ann Gastroenterol 25(3):207-217	Review
Musso (2010)	Hepatology 52(1):79-104	Review
Musso (2010)	Obes Rev 11(6):430-445	Review
Musso (2010)	Curr Pharm Des 19(29):5297-5313	Review
Musso (2011)	Curr Opin Lipidol 22(6):489-496	Review
Musso (2014)	Diabetologia 57(5):850-855	Review
Nguyen (2012)	J Gastroenterol Hepatol (Australia) 27(SUP-PL.2):58-64	Review
Nikhil (2012)	Natl Med J India 25(2):94-95	Same study (Foster 2011)
Nobili (2012)	J Gastroenterol 47(1):29-36	Review
Nseir (2012)	Dig Dis Sci 57(7):1773-1781	Review
Nseir (2013)	Curr Atheroscler Rep 15:305	Review
Oben (2008)	CPD Bull Clin Biochem 9(2):47-53	Review
Oni (2013)	J Am Coll Cardiol 61(10):E1427	Inappropriate primary end point (only laboratory data)
Onofrei (2008)	Pharmacotherapy 28(4):522-529	Review

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Study	Journal	Reason for exclusion
Paragh (2009)	Orv Hetil 150(26):1205-1212	Review
Park (2010)	Clin Chim Acta 411(21-22):1735-1740	Same study (Park 2011)
Park (2011)	J Gastroenterol 46(1):101-107	Inappropriate study design (single arm study)
Park (2013)	Diabetes Metab J 37(4):240-248	Review
Pastori (2015)	Dig Liver Dis 47(1):4-11	Review
Patel (2009)	Gastroenterology 136(5):A847	Inappropriate primary end point (no steatosis data)
Perlemuter (2007)	Nat Clin Pract Endocrinol Metab 3(6):458-469	Review
Pireau (2013)	Acta Clinica Belgica 68(6):463	Inappropriate primary end point (only laboratory data)
Portincasa (2007)	J Gastrointestin Liver Dis 16(2):167-169	Review
Pramfalk (2011)	Curr Opin Lipidol 22(3):225-230	Review
Preiss (2008)	Clin Sci 115(5-6):141-150	Review
Quercioli (2009)	Cardiovasc Hematol Disord Drug Targets 9(4):261-270	Review
Rallidis (2004)	Atherosclerosis 174(1):193-196	Inappropriate study design (single arm study)
Ratziu (2007)	Gastroenterol Clin Biol 31(3):333-340	Review
Reihner (1991)	Fortschr Med 109(8):189-194	Inappropriate participants (patients with cholecystectomy)
Renno (2012)	Lab Invest 92:465A-466A	Inappropriate study design (rat model)
Riche (2014)	Ann Pharmacother 48(1):137-141	Inappropriate study design (case study)
Riley (2008)	Int J ClinPract 62(3):374-381	Inappropriate primary end point (only laboratory data)
Rizzo (2014)	Expert Opin Pharmacother 15(8):1065-1068	Review
Rizzo (2014)	Curr Vasc Pharmacol 12(5):741-744	Review
Rudovich (2010)	J Hepatol 52(6):952-953	Inappropriate study design (single arm study)
Samy (2011)	Arab J Gastroenterol 12:80-85 DOI:10.1016/j.ajg.2011.04.008	Inappropriate primary end point (only laboratory data)
Schattenberg (2011)	Curr Opin Lipidol 22(6):479-488	Review
Schneier (2015)	Expert Rev Gastroenterol Hepatol 9(5):671-683	Review
Schreuder (2008)	World J Gastroenterol 14(16):2474-2486	Review
Schwenger (2014)	World J Gastroenterol 20(7):1712-1723	Review
Seng (2008)	Curr Opin Lipidol 19(6):592-599	Review
Shiwa (2011)	Nihon Shokakibyō Gakkai Zasshi 108(8):1383-1392	Inappropriate study modality (ultrasonography)
Siebler (2006)	World J Gastroenterol 12(14):2161-2167	Review
Skrypnik (2014)	Lik Sprava (5-6):113-121	Inappropriate participants (patients with heart attack)
Sochman (2006)	Cas Lek Cesk 145(6):443-446; discussion 447-448	Review
Takahashi (2015)	World J Gastroenterol 21(13):3777-3785	Review
Takaki (2014)	Int J Mol Sci 15(5):7352-7379	Review
Takeshita (2011)	J Hepatol 54:S346	Same study (Takeshita 2014)
Takeshita (2011)	Hepatology (Baltimore, MD) 54:1117a	Same study (Takeshita 2014)
Tandra (2009)	Curr Treat Options Cardiovasc Med 11(4):272-278	Review
Targher (2010)	Dig Liver Dis 42(5):331-340	Review
Targher (2013)	Semin Thromb Hemost 39(2):214-228	Review

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Study	Journal	Reason for exclusion
Tilg (2005)	Nat Clin Pract Gastroenterol Hepatol 2(3):148-155	Review
Tolman (2007)	Ther Clin Risk Manag 3(6):1153-1163	Review
Torres (2007)	Curr Treat Options Gastroenterol 10(6):425-434	Review
Torres (2008)	Gastroenterology 134(6):1682-1698	Review
Torres (2012)	Clin Gastroenterol Hepatol 10(8):837-858	Review
Toth (2010)	Clin Lipidol 5(5):655-684	Review
Trovato (2014)	EPMA J 5(1)	Review
Tzefos (2011)	J Clin Lipidol 5(6):450-459	Review
Tziomalos (2014)	World J Hepatol 6(10):738-744	Review
Ushio (2012)	Diabetes 61:A458	Inappropriate study design (rat model)
Vuppalanchi (2009)	Hepatology 49(1):306-317	Review
Wierzbicki (2012)	Curr Opin Lipidol 23(4):345-352	Review
Wilkins (2013)	Am Fam Physician 88(1):35-42	Review
Xiao (2013)	Hepatobiliary Pancreat Dis Int 12(2):125-135	Review
Yamagishi (2006)	Med Hypotheses 66(4):844-846	Review
Yamagishi (2013)	Dig Liver Dis 45(1):82	Same study (Hyogo 2012)
Yoneda (2010)	Hepatol Res 40(6):566-573	Review
Yoneda (2011)	Hepatol Res 41(11):1025-1026	Review
Yoneda (2011)	J Gastroenterol 46(3):415-416; author reply 417	Review
Yoshida (2011)	Curr Vasc Pharmacol 9(1):121-123	Review
Younossi (2014)	Aliment Pharmacol Ther 39(1):3-14	Review
Zvenigorodskaja (2009)	Am J Hypertens 22:10	Inappropriate primary end point (only laboratory data)