

Supplementary Information

Gallstone Disease and the Risk of Cardiovascular Disease

Systematic Review and Meta-analysis of Observational Studies

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Supplementary Table S1. Search Strategies

Database	Time Span	Search Strategy
MEDLINE (OVID SP)	1946 to October 2017	<p>#1 exp Gallstones/ #2 exp Cholecystectomy/ #3 exp Cholecystectomy, Laparoscopic/ #4 (gallstone* or gallbladder-calcul* or gallbladder-stone* or gall-bladder-stone* or gall- bladder-calcul or cholelith* or choledocholith* or cholesterol-stone*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] #5 1 or 2 or 3 or 4 #6 exp Myocardial Ischemia/ #7 exp Myocardial Infarction/ #8 exp Coronary Disease/ #9 exp Stroke/ #10 exp Diabetes Mellitus, Type 2/ #11 exp Diabetes Mellitus/ #12 exp Metabolic Syndrome/ #13 exp Insulin Resistance/ #14 exp Peripheral Vascular Diseases/ #15 (myocardial-ischem* or myocardial-ischaem* or ischaemic-heart* or ischemic-heart* or myocardial-infarct* or angin* or acute-coronary* or ACS* or cardiac-infarct* or coronary-heart* or coronary-disease* or stroke* or cerebrovascular- disease* or cerebral-ischaem* or cerebral-ischem* or blood-gluc* or blood-sug* or serum-gluc* or serum-sug* or metabolic-syndro* or insulin-resist* or peripheral-vasc* or arterial-ulg* or peripheral- arter* or PAD* or PVD*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol</p>

		<p>supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]</p> <p>#16 Cohort Studies/ #17 Case-Control Studies / #18 Cross-Sectional Studies/ #19 Longitudinal Studies/ #20 Retrospective Studies/ #21 Prospective Studies/ #22 Follow-up Studies/ #23 Incidence/ #24 Meta-analysis/ #25 ((retrospective* adj3 (cohort* or stud* or cross* or case* or longitudin* or follow* or review* or meta-analys*)) or (prospective* adj3 (cohort* or stud* or cross* or case* or longitudin* or follow* or review* or meta-analys*)) or cohort* or case-control* or cross-section* or longitudinal* or follow-up-stud* or review* or meta-analys* or incidence*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]</p>
EMBASE and EMBASE CLASSIC (OVID SP)	1947 to October 2017	<p>#1 exp Gallstones/ #2 exp Cholecystectomy/ #3 exp Cholecystectomy, Laparoscopic/ #4 (gallstone* or gallbladder-calcul* or gallbladder-stone* or gall-bladder-stone* or gallbladder-calcul or cholelith* or choledocholith* or cholesterol-stone*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] #5 1 or 2 or 3 or 4 #6 exp Myocardial Ischemia/ #7 exp Myocardial Infarction/</p>

	<p>#8 exp Coronary Disease/ #9 exp Stroke/ #10 exp Diabetes Mellitus, Type 2/ #11 exp Diabetes Mellitus/ #12 exp Metabolic Syndrome/ #13 exp Insulin Resistance/ #14 exp Peripheral Vascular Diseases/ #15 (myocardial-ischem* or myocardial-ischaem* or ischaemic-heart* or ischemic-heart* or myocardial-infarct* or angin* or acute-coronary* or ACS* or cardiac-infarct* or coronary-heart* or coronary-disease* or stroke* or cerebrovascular-disease* or cerebral-ischaem* or cerebral-ischem* or blood-gluc* or blood-sug* or serum-gluc* or serum-sug* or metabolic-syndro* or insulin-resist* or peripheral-vasc* or arterial-ulc* or peripheral-arter* or PAD* or PVD*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] #16 Cohort Studies/ #17 Case-Control Studies / #18 Cross-Sectional Studies/ #19 Longitudinal Studies/ #20 Retrospective Studies/ #21 Prospective Studies/ #22 Follow-up Studies/ #23 Incidence/ #24 Meta-analysis/ #25 ((retrospective* adj3 (cohort* or stud* or cross* or case* or longitudin* or follow* or review* or meta-analys*)) or (prospective* adj3 (cohort* or stud* or cross* or case* or longitudin* or follow* or review* or meta-analys*)) or cohort* or case-control* or cross-section* or longitudinal* or follow-up-stud* or review* or meta-analys* or incidence*).mp. [mp=title, abstract, subject</p>
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		headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]
Science Citation Index EXPANDED and Social Sciences Index	1900 to October 2017	<p>#4 TS=#3 AND #2 AND #1</p> <p>#3 TS=((retrospective* adj3 (cohort* or stud* or cross* or case* or longitudin* or follow* or review* or meta-analys*)) or (prospective* adj3 (cohort* or stud* or cross* or case* or longitudin* or follow* or review* or meta-analys*)) or cohort* or case-control* or cross-section* or longitudinal* or follow-up-stud* or review* or meta-analys* or incidence*)</p> <p>#2 TS=(myocardial-ischem* or myocardial- ischaem* or ischaemic-heart* or ischemic-heart* or myocardial-infarct* or angin* or acute- coronary* or ACS* or cardiac-infarct* or coronary- heart* or coronary-disease* or stroke* or cerebrovascular-disease* or cerebral-ischaem* or cerebral-ischem* or blood-gluc* or blood-sug* or serum-gluc* or serum-sug* or metabolic-syndro* or insulin-resist* or peripheral-vasc* or arterial- ulc* or peripheral-arter* or PAD* or PVD*)</p> <p>#1 TS=(gallstone* or gallbladder-calcul* or gallbladder-stone* or gall-bladder-stone* or gall- bladder-calcul or cholelith* or choledocholith* or cholesterol-stone*)</p>
Literatura Latino Americana e do Caribe em Ciências da Saúde (LILACS)	Bireme; 1982 to October 2017	<p>(gallstone\$ or gallbladder-calcul\$ or gallbladder- stone\$ or gall-bladder-stone\$ or gall-bladder- calcul or cholelith\$ or choledocholith\$ or cholesterol-stone\$) [words] and (myocardial- ischem\$ or myocardial-ischaem\$ or ischaemic- heart\$ or ischemic-heart\$ or myocardial-infarct\$ or angin\$ or acute-coronary\$ or ACS\$ or cardiac- infarct\$ or coronary-heart\$ or coronary-disease\$ or stroke\$ or cerebrovascular-disease\$ or cerebral- ischaem\$ or cerebral-ischem\$ or blood-gluc\$ or blood-sug\$ or serum-gluc\$ or serum-sug\$ or</p>

		metabolic-syndro\$ or insulin-resist\$ or peripheral-vasc\$ or arterial-ulg\$ or peripheral-arter\$ or PAD\$ or PVD\$) [words] and (retrospective\$ or prospective\$ or cohort\$ or case-control\$ or cross-section\$ or longitudinal\$ or follow-up-stud\$ or review\$ or meta-analys\$ or incidence\$)
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