

SUPPLEMENT 1**Search Strategy – 2023, August 17st****Cochrane Central Register of Controlled Trials (CENTRAL)****n = 538**

((Polycystic Ovary Syndrome OR Ovary Syndrome, Polycystic OR Syndrome, Polycystic Ovary OR Stein-Leventhal Syndrome OR Stein Leventhal Syndrome OR Syndrome, Stein-Leventhal OR Sclerocystic Ovarian Degeneration OR Ovarian Degeneration, Sclerocystic OR Sclerocystic Ovary Syndrome OR Polycystic Ovarian Syndrome OR Ovarian Syndrome, Polycystic OR Polycystic Ovary Syndrome 1 OR Sclerocystic Ovaries OR Ovary, Sclerocystic OR Sclerocystic Ovary) AND (Metformin Dimethylbiguanidine OR Dimethylguanylguanidine OR Glucophage OR Metformin) Hydrochloride OR Hydrochloride, Metformin OR Metformin HCl OR HCl, Metformin AND (Abortion, Spontaneous Abortions, Spontaneous OR Spontaneous Abortions OR Spontaneous Abortion OR Early Pregnancy Loss OR Early Pregnancy Losses OR Loss, Early Pregnancy OR Losses, Early Pregnancy OR Pregnancy Loss, Early OR Pregnancy Losses, Early OR Miscarriage OR Miscarriages OR Abortion, Tubal OR Abortions, Tubal OR Tubal Abortion OR Tubal Abortions)) or ((Polycystic Ovary Syndrome OR Ovary Syndrome, Polycystic OR Syndrome, Polycystic Ovary OR Stein-Leventhal Syndrome OR Stein Leventhal Syndrome OR Syndrome, Stein-Leventhal OR Sclerocystic Ovarian Degeneration OR Ovarian Degeneration, Sclerocystic OR Sclerocystic Ovary Syndrome OR Polycystic Ovarian Syndrome OR Ovarian Syndrome, Polycystic OR Polycystic Ovary Syndrome 1 OR Sclerocystic Ovaries OR Ovary, Sclerocystic OR Sclerocystic Ovary AND Metformin Dimethylbiguanidine OR Dimethylguanylguanidine OR Glucophage OR Metformin Hydrochloride OR Hydrochloride, Metformin OR Metformin HCl OR HCl, Metformin AND Diabetes, Gestational OR Diabetes, Pregnancy-Induced OR Diabetes, Pregnancy Induced OR Pregnancy-Induced Diabetes OR Gestational Diabetes OR Diabetes Mellitus, Gestational OR Gestational Diabetes Mellitus))

PubMed [MEDLINE] (1966-2022)**n = 39**

(((((Polycystic Ovary Syndrome[Mesh] OR (Ovary Syndrome, Polycystic) OR (Syndrome, Polycystic Ovary) OR (Stein-Leventhal Syndrome) OR (Stein Leventhal Syndrome) OR (Syndrome, Stein-Leventhal) OR (Sclerocystic Ovarian Degeneration) OR (Ovarian Degeneration, Sclerocystic) OR (Sclerocystic Ovary Syndrome) OR (Polycystic Ovarian Syndrome) OR (Ovarian Syndrome, Polycystic) OR (Polycystic Ovary Syndrome 1) OR (Sclerocystic Ovaries) OR (Ovary, Sclerocystic) OR (Sclerocystic Ovary)) AND (Metformin[Mesh] (Dimethylbiguanidine) OR (Dimethylguanylguanidine) OR (Glucophage) OR (Metformin Hydrochloride) OR (Hydrochloride, Metformin) OR (Metformin HCl) OR (HCl, Metformin)))) AND (Abortion, Spontaneous[Mesh] (Abortions, Spontaneous) OR (Spontaneous Abortions) OR (Spontaneous Abortion) OR (Early Pregnancy Loss) OR (Early Pregnancy Losses) OR (Loss, Early Pregnancy) OR (Losses, Early Pregnancy) OR (Pregnancy Loss, Early) OR (Pregnancy Losses, Early) OR (Miscarriage) OR (Miscarriages) OR (Abortion, Tubal) OR (Abortions, Tubal) OR (Tubal Abortion) OR (Tubal Abortions))) AND ((Systematic Review [Publication Type]) OR Systematic Reviews as Topic[Mesh])) OR (((Polycystic Ovary Syndrome[Mesh] OR (Ovary Syndrome, Polycystic) OR (Syndrome, Polycystic Ovary) OR (Stein-Leventhal Syndrome) OR (Stein Leventhal Syndrome) OR (Syndrome, Stein-Leventhal) OR (Sclerocystic Ovarian Degeneration) OR (Ovarian Degeneration, Sclerocystic) OR (Sclerocystic Ovary Syndrome) OR (Polycystic Ovarian Syndrome) OR (Ovarian Syndrome, Polycystic) OR (Polycystic Ovary Syndrome 1) OR (Sclerocystic Ovaries) OR (Ovary, Sclerocystic) OR (Sclerocystic Ovary)) AND (Metformin[Mesh] (Dimethylbiguanidine) OR (Dimethylguanylguanidine) OR (Glucophage) OR (Metformin Hydrochloride) OR (Hydrochloride, Metformin) OR (Metformin HCl) OR (HCl, Metformin)))) AND (Diabetes, Gestational[Mesh] OR (Diabetes, Pregnancy-Induced) OR (Diabetes, Pregnancy Induced) OR (Pregnancy-Induced Diabetes) OR (Gestational Diabetes) OR (Diabetes Mellitus, Gestational) OR (Gestational Diabetes Mellitus)))) AND ((Systematic Review [Publication Type]) OR Systematic Reviews as Topic[Mesh]))

Embase [Elsevier] (1980-2022)**n = 73**

((('polycystic ovary syndrome'/exp OR 'polycystic ovary syndrome' OR 'ovary syndrome, polycystic' OR 'syndrome, polycystic ovary' OR 'stein-leventhal syndrome'/exp OR 'stein-leventhal syndrome' OR 'stein

leventhal syndrome'/exp OR 'stein leventhal syndrome' OR 'syndrome, stein-leventhal'/exp OR 'syndrome, stein-leventhal' OR 'sclerocystic ovarian degeneration' OR 'ovarian degeneration, sclerocystic' OR 'sclerocystic ovary syndrome' OR 'polycystic ovarian syndrome' OR 'ovarian syndrome, polycystic' OR 'polycystic ovary syndrome 1' OR 'sclerocystic ovaries' OR 'ovary, sclerocystic' OR 'sclerocystic ovary'/exp OR 'sclerocystic ovary') AND (('metformin'/exp OR metformin) AND dimethylbiguanidine OR dimethylguanylguanidine OR 'glucophage'/exp OR glucophage OR 'metformin hydrochloride'/exp OR 'metformin hydrochloride' OR 'hydrochloride, metformin' OR 'metformin hcl' OR 'hcl, metformin') AND (('abortion, spontaneous'/exp OR 'abortion, spontaneous') AND 'abortions, spontaneous' OR 'spontaneous abortions' OR 'spontaneous abortion'/exp OR 'spontaneous abortion' OR 'early pregnancy loss'/exp OR 'early pregnancy loss' OR 'early pregnancy losses' OR 'loss, early pregnancy' OR 'losses, early pregnancy' OR 'pregnancy loss, early' OR 'pregnancy losses, early' OR 'miscarriage'/exp OR miscarriage OR miscarriages OR 'abortion, tubal' OR 'abortions, tubal' OR 'tubal abortion' OR 'tubal abortions')) AND 'systematic review'/exp

SCOPUS

n = 38

((INDEXTERMS("Polycystic Ovary Syndrome") OR ("Ovary Syndrome, Polycystic") OR ("Syndrome, Polycystic Ovary") OR ("Stein-Leventhal Syndrome") OR ("Stein Leventhal Syndrome") OR ("Syndrome, Stein-Leventhal") OR ("Sclerocystic Ovarian Degeneration") OR ("Ovarian Degeneration, Sclerocystic") OR ("Sclerocystic Ovary Syndrome") OR ("Polycystic Ovarian Syndrome") OR ("Ovarian Syndrome, Polycystic") OR ("Polycystic Ovary Syndrome 1") OR ("Sclerocystic Ovaries") OR ("Ovary, Sclerocystic") OR ("Sclerocystic Ovary"))) AND (INDEXTERMS("Metformin") ("Dimethylbiguanidine") OR ("Dimethylguanylguanidine") OR ("Glucophage") OR ("Metformin Hydrochloride") OR ("Hydrochloride, Metformin") OR ("Metformin HCl") OR ("HCl, Metformin")))) AND (INDEXTERMS("Abortion, Spontaneous") ("Abortions, Spontaneous") OR ("Spontaneous Abortions") OR ("Spontaneous Abortion") OR ("Early Pregnancy Loss") OR ("Early Pregnancy Losses") OR ("Loss, Early Pregnancy") OR ("Losses, Early Pregnancy") OR ("Pregnancy Loss, Early") OR ("Pregnancy Losses, Early") OR ("Miscarriage") OR ("Miscarriages") OR ("Abortion, Tubal") OR ("Abortions, Tubal") OR ("Tubal Abortion") OR ("Tubal Abortions")) AND ("systematic review")

((INDEXTERMS("Polycystic Ovary Syndrome") OR ("Ovary Syndrome, Polycystic") OR ("Syndrome, Polycystic Ovary") OR ("Stein-Leventhal Syndrome") OR ("Stein Leventhal Syndrome") OR ("Syndrome, Stein-Leventhal") OR ("Sclerocystic Ovarian Degeneration") OR ("Ovarian Degeneration, Sclerocystic") OR ("Sclerocystic Ovary Syndrome") OR ("Polycystic Ovarian Syndrome") OR ("Ovarian Syndrome, Polycystic") OR ("Polycystic Ovary Syndrome 1") OR ("Sclerocystic Ovaries") OR ("Ovary, Sclerocystic") OR ("Sclerocystic Ovary"))) AND (INDEXTERMS(Metformin) (Dimethylbiguanidine) OR (Dimethylguanylguanidine) OR (Glucophage) OR ("Metformin Hydrochloride") OR ("Hydrochloride, Metformin") OR ("Metformin HCl") OR ("HCl, Metformin")))) AND (INDEXTERMS("Diabetes, Gestational") OR ("Diabetes, Pregnancy-Induced") OR ("Diabetes, Pregnancy Induced") OR ("Pregnancy-Induced Diabetes") OR ("Gestational Diabetes") OR ("Diabetes Mellitus, Gestational") OR ("Gestational Diabetes Mellitus")) AND ("systematic review")

Trip Database

n = 1

polycystic ovary syndrome, metformin, abortion or miscarriage

polycystic ovary syndrome, metformin, gestational diabetes

CINAHL

n = 6

((((MH "Polycystic Ovary Syndrome+") OR ("Ovary Syndrome, Polycystic") OR ("Syndrome, Polycystic Ovary") OR ("Stein-Leventhal Syndrome") OR ("Stein Leventhal Syndrome") OR ("Syndrome, Stein-Leventhal") OR ("Sclerocystic Ovarian Degeneration") OR ("Ovarian Degeneration, Sclerocystic") OR ("Sclerocystic Ovary Syndrome") OR ("Polycystic Ovarian Syndrome") OR ("Ovarian Syndrome, Polycystic") OR ("Polycystic Ovary Syndrome 1") OR ("Sclerocystic Ovaries") OR ("Ovary, Sclerocystic") OR ("Sclerocystic Ovary"))) AND ((MH Metformin+) (Dimethylbiguanidine) OR (Dimethylguanylguanidine) OR (Glucophage) OR ("Metformin Hydrochloride") OR ("Hydrochloride, Metformin") OR ("Metformin HCl") OR ("HCl, Metformin")))) AND ((MH "Abortion, Spontaneous+")

("Abortions, Spontaneous") OR ("Spontaneous Abortions") OR ("Spontaneous Abortion") OR ("Early Pregnancy Loss") OR ("Early Pregnancy Losses") OR ("Loss, Early Pregnancy") OR ("Losses, Early Pregnancy") OR ("Pregnancy Loss, Early") OR ("Pregnancy Losses, Early") OR (Miscarriage) OR (Miscarriages) OR ("Abortion, Tubal") OR ("Abortions, Tubal") OR ("Tubal Abortion") OR ("Tubal Abortions")) AND (systematic review or meta-analysis)

((((MH "Polycystic Ovary Syndrome+") OR ("Ovary Syndrome, Polycystic") OR ("Syndrome, Polycystic Ovary") OR ("Stein-Leventhal Syndrome") OR ("Stein Leventhal Syndrome") OR ("Syndrome, Stein-Leventhal") OR ("Sclerocystic Ovarian Degeneration") OR ("Ovarian Degeneration, Sclerocystic") OR ("Sclerocystic Ovary Syndrome") OR ("Polycystic Ovarian Syndrome") OR ("Ovarian Syndrome, Polycystic") OR ("Polycystic Ovary Syndrome 1") OR ("Sclerocystic Ovaries") OR ("Ovary, Sclerocystic") OR ("Sclerocystic Ovary")) AND ((MH Metformin+) (Dimethylbiguanidine) OR (Dimethylguanylguanidine) OR (Glucophage) OR ("Metformin Hydrochloride") OR ("Hydrochloride, Metformin") OR ("Metformin HCl") OR ("HCl, Metformin"))) AND ((MH "Diabetes, Gestational+") OR ("Diabetes, Pregnancy-Induced") OR ("Diabetes, Pregnancy Induced") OR ("Pregnancy-Induced Diabetes") OR ("Gestational Diabetes") OR ("Diabetes Mellitus, Gestational") OR ("Gestational Diabetes Mellitus"))) AND (systematic review or meta-analysis)

Web of Science

n = 62

((Polycystic Ovary Syndrome) OR (Ovary Syndrome, Polycystic) OR (Syndrome, Polycystic Ovary) OR (Stein-Leventhal Syndrome) OR (Stein Leventhal Syndrome) OR (Syndrome, Stein-Leventhal) OR (sclerocystis Ovarian Degeneration) OR (Ovarian Degeneration, sclerocystis) OR (sclerocystis Ovary Syndrome) OR (Polycystic Ovarian Syndrome) OR (Ovarian Syndrome, Polycystic) OR (Polycystic Ovary Syndrome 1) OR (sclerocystis Ovaries) OR (Ovary, sclerocystis) OR (sclerocystis Ovary)) and ((Metformin) or (dimethylbiguanidium) OR (Dimethylguanylguanidine) OR (glucophage) OR (Metformin Hydrochloride) OR (Hydrochloride, Metformin) OR (Metformin HCl) OR (HCl, Metformin)) and ((Abortion, Spontaneous) OR (Abortions, Spontaneous) OR (Spontaneous Abortions) OR (Spontaneous Abortion) OR (Early Pregnancy Loss) OR (Early Pregnancy Losses) OR (Loss, Early Pregnancy) OR (Losses, Early Pregnancy) OR (Pregnancy Loss, Early) OR (Pregnancy Losses, Early) OR (Miscarriage) OR (Miscarriages) OR (Abortion, Tubal) OR (Abortions, Tubal) OR (Tubal Abortion) OR (Tubal Abortions)) and (systematic review)

((Polycystic Ovary Syndrome) OR (Ovary Syndrome, Polycystic) OR (Syndrome, Polycystic Ovary) OR (Stein-Leventhal Syndrome) OR (Stein Leventhal Syndrome) OR (Syndrome, Stein-Leventhal) OR (sclerocystis Ovarian Degeneration) OR (Ovarian Degeneration, sclerocystis) OR (sclerocystis Ovary Syndrome) OR (Polycystic Ovarian Syndrome) OR (Ovarian Syndrome, Polycystic) OR (Polycystic Ovary Syndrome 1) OR (sclerocystis Ovaries) OR (Ovary, sclerocystis) OR (sclerocystis Ovary)) and ((Metformin) or (dimethylbiguanidium) OR (Dimethylguanylguanidine) OR (Glucophage) OR (Metformin Hydrochloride) OR (Hydrochloride, Metformin) OR (Metformin HCl) OR (HCl, Metformin)) and ((Diabetes, Gestational) OR (Diabetes, Pregnancy-Induced) OR (Diabetes, Pregnancy Induced) OR (Pregnancy-Induced Diabetes) OR (Gestational Diabetes) OR (Diabetes Mellitus, Gestational) OR (Gestational Diabetes Mellitus)) and (systematic review) (Todos os campos)

Virtual Health Library (LILACS, 1982-2022)

n = 31

((((Síndrome do Ovário Policístico) or (Polycystic Ovary Syndrome) or (Síndrome del Ovario Poliquístico) or (Syndrome des ovaires polykystiques)) AND (metformina or metformin or metformine or (Dimetil Guanil Guanidina)) and ((Diabetes Gestacional) OR (Diabetes, Gestational) OR (Diabète gestationnel) OR (Diabetes Induzida pela Gravidez) OR (Diabetes Induzida por Gravidez) OR (Diabetes Mellitus Gestacional))) AND ((Revisão Sistemática) OR (Systematic Review) OR (Revisión Sistemática) OR (Revue systématique)))

((((Síndrome do Ovário Policístico) or (Polycystic Ovary Syndrome) or (Síndrome del Ovario Poliquístico) or (Syndrome des ovaires polykystiques)) AND (metformina or metformin or metformine or (Dimetil Guanil Guanidina)) and ((Aborto) OR (Abortamento) OR (Abortion) OR (Avortement) OR (Miscarriage))) AND ((Revisão Sistemática) OR (Systematic Review) OR (Revisión Sistemática) OR (Revue systématique)))

*Epistemonikos**n* = 109

(title:(title:(Polycystic Ovary Syndrome) OR abstract:(Polycystic Ovary Syndrome)) AND (title:(Metformin) OR abstract:(Metformin)) AND (title:(abortion OR miscarriage) OR (gestational diabetes mellitus)) OR abstract:(abortion OR miscarriage) OR (gestational diabetes mellitus))) OR abstract:(title:(Polycystic Ovary Syndrome) OR abstract:(Polycystic Ovary Syndrome)) AND (title:(Metformin) OR abstract:(Metformin)) AND (title:(abortion OR miscarriage) OR (gestational diabetes mellitus)) OR abstract:(abortion OR miscarriage) OR (gestational diabetes mellitus)))