Supplemental file 2

Search strategy

**embase.com**

('beta adrenergic receptor blocking agent'/exp OR (((beta* OR β OR β1 OR β2 OR β3) NEAR/3 (block* OR antagonist*))) OR adalrol* OR aflurol* OR alprenolol* OR bucuranolol* OR bufuralol* OR bunitrolol* OR bunolol* OR butanolol* OR butrolol* OR carazolol* OR carpinolol* OR carteolol* OR carvedilol* OR cloranolol* OR deacteylmetipranolol* OR dexpropranolol* OR diacetolol* OR dichlorisoprenaline* OR dihydroalprenolol* OR dimevalol* OR diprafenone* OR dertentilide* OR exprolol* OR flarintolol* OR fiestolol* OR hydroxybenzylpindolol* OR indenolol* OR iodopindolol* OR iprocolol* OR isamoltane* OR isaproxanolol* OR labetalol* OR levobunolol* OR levomeprolol* OR lesepindolol* OR mercuderamide* OR metipranolol* OR moprolol* OR nadothol* OR nifenalol* OR obadrolol* OR oxprenolol* OR pafenolol* OR pamilol* OR penbutolol* OR pindolol* OR primidolol* OR prizidolol* OR prucinolol* OR prunetolol* OR propranolol* OR proxodolol* OR ridazolol* OR soquinolol* OR sotalol* OR spirendolol* OR tazolol* OR tertatolol* OR tienoxolol* OR tilisolol* OR timolol* OR tolomolol* OR topilolol* OR trasitensin* OR tresserp* OR tribendilol* OR xibenolol* OR xofedolol* OR acebutolol* OR alpha-hydroxymetoprolol* OR atenolol* OR bendacalol* OR betaxolol* OR bevantolol* OR bisoprolol* OR celiprolol* OR cyanopindolol* OR cyanopindolol* OR dramedilol* OR epanolol* OR flusoxolol* OR landiolol* OR metoprolol* OR nebivolol* OR practolol* OR ritodrine* OR salcardol* OR sandoz-204545* OR talinolol* OR vortioxetine* OR bendacalol* OR butoxamine* OR cicloprolol* OR arctinolol*):ab,ti) AND (pregnancy/exp OR 'pregnant woman'/de OR 'prenatal exposure'/de OR 'breast feeding'/exp OR 'breast milk'/de OR lactation/de OR 'maternal exposure'/de OR 'maternal treatment'/de OR 'prenatal drug exposure'/de OR 'prenatal period'/de OR 'maternal hypertension'/de OR 'intrauterine growth retardation'/de OR 'pregnancy disorder'/de OR 'pregnancy outcome'/exp OR 'drug milk level'/de OR 'placental transfer'/de OR 'perinatal drug exposure'/de OR (pregnan* OR prenatal* OR (breast NEXT/1 (feed* OR fed OR milk)) OR human-milk OR lactat* OR intra-uterin* OR intrauterin* OR foetus* OR fetal* OR foetal*) NEAR/3 expos*) OR mother OR maternal OR placenta* OR perinal* OR peri-natal*):ab,ti) AND (bradycardia/exp OR 'adverse event'/de OR 'side effect'/de OR 'intrauterine growth retardation'/de OR 'low birth weight'/exp OR hypoglycemia/de OR 'pregnancy outcome'/de OR 'pregnancy outcome'/de OR 'low birth weight'/exp OR hypoglycemia/de OR 'pregnancy outcome'/de OR 'birth weight'/de OR 'stillbirth'/exp OR 'Apgar score'/de OR 'birth weight'/de OR 'hemodynamics'/de OR 'toxicity and intoxication'/exp OR complication/de OR 'birth weight'/de OR prematurity/exp OR 'adverse event'/de OR bradycardia*/exp OR effect* OR ((inutrauterin* OR intra-uterin*) NEAR/3 (growth)) OR birth-weight* OR birthweight* OR (small NEXT/2 (date OR gestation*)) OR hypoglycemia* OR hypoglycaemia OR ((pregnan* OR deliver* OR obstetric* OR childbirth OR labour OR labor) NEAR/3 outcome*) OR stillbirth OR stillborn OR still-born OR Apgar OR harm* OR toxic* OR intoxic* OR hemodynamic* OR haemodynamic* OR complication* OR (prematur* OR (NEAR/3 (birth)) OR prematurity):ab,ti) AND (newborn/exp OR 'low birth weight'/exp OR stillbirth/exp OR 'Apgar score'/de OR 'birth weight'/de OR (newborn* OR new-born* OR neonat* OR postnatal* OR birth-weight* OR birthweight* OR (small NEXT/2 (date OR gestation*)):OR stillbirth OR stillborn OR still-born OR Apgar):ab,ti) NOT [(animals)/lim NOT [humans]/lim) NOT [(conference abstract)/lim AND [2000-2018]/py) AND [english]/lim
Medline ALL Ovid

(exp Adrenergic beta-Antagonists/ OR (((beta*) ADJ3 (block* OR antagonist*)) OR adaprolol* OR afurolol* OR alpenolol* OR befunolol* OR bfe-S5* OR bopindolol* OR bornaprolol* OR bromoacetylnaprenolol-methane* OR bucinodol* OR bucumolol* OR bufetolol* OR bufuralol* OR bunitrolol* OR bunolol* OR bupranolol* OR butofiolo* OR carazolol* OR carpindolol* OR carteolol* OR carvedilol* OR cloranolol* OR deacetylmetipranolol* OR dexpropranolol* OR diacetolol* OR dichlorisoprenaline* OR dihydroalprenolol* OR dilevalol* OR diprafenone* OR ersentilide* OR exaprolol* OR falintolol* OR flestolol* OR hydroxybenzylpindolol* OR indenolol* OR iodopindolol* OR iprocrolol* OR isamaltane* OR isoxaprolol* OR labetalol* OR levobunolol* OR levomoprolol* OR mepindolol* OR mercureramide* OR metipranolol* OR moprolol* OR nadolol* OR nifenalol* OR oberadilol* OR oxprenolol* OR pafenolol* OR pamatolol* OR penbutolol* OR pindolol* OR primidolol* OR prizidilol* OR procinolol* OR propranolol* OR propranolol* OR proxodolol* OR ridazolol* OR soquinolol* OR sotalol* OR spirendolol* OR tazolol* OR tertatolol* OR tienoxolol* OR tilisolol* OR timolol* OR tolamolol* OR toliraprolol* OR trasitensin* OR trepress* OR tribendilol* OR viskaldix* OR xibenolol* OR zoleprodlol* OR acebutolol* OR alpha-hydroxymetoprolol* OR atenolol* OR bendacalol* OR betaxolol* OR bevantolol* OR bisoprolol* OR celiprolol* OR cetamolol* OR cyanoidopindolol* OR cyanopindolol* OR dramedilol* OR epanolol* OR esmolol* OR flusoxolol* OR landiolol* OR metoprolol* OR nebivolol* OR pratolol* OR ritodrine* OR salcardolol* OR sandoz-204545* OR talinolol* OR vortioxetine* OR bendacalol* OR butoxamine* OR cicloprolol* OR arctinolol*).ab,ti.) AND (exp Pregnancy/ OR Pregnant Women/ OR Breast Feeding/ OR Milk, Human/ OR Lactation/ OR Maternal Exposure/ OR Maternal-Fetal Exchange/ OR Prenatal Exposure Delayed Effects/ OR Fetal Growth Retardation/ OR exp Pregnancy Outcome/ OR (pregnan* OR prenatal* OR (breast ADJ (feed* OR fed OR milk)) OR human-milk OR lactat* OR intra-uterin* OR intrauterin* OR ((fetus* OR foetus* OR fetal* OR foetal*) ADJ3 expos*) OR mother OR maternal OR placenta* OR perinatal* OR peri-natal*).ab,ti.) AND (Bradycardia/ OR Drug-Related Side Effects and Adverse Reactions/ OR Fetal Growth Retardation/ OR Infant, Low Birth Weight/ OR Hypoglycemia/ OR Pregnancy Outcome/ OR Stillbirth/ OR Apgar Score/ OR Hemodynamics/ OR toxicity.xs. OR complication.xs. OR exp Birth Weight/ OR exp Infant, Premature/ OR (adverse OR bradycard*) OR effect* OR ((intrauterin* OR intra-uterin*) ADJ3 expos*) OR mother OR maternal OR placenta* OR perinatal* OR peri-natal*).ab,ti.) AND (Infant, Newborn/ OR Infant, Low Birth Weight/ OR Stillbirth/ OR Apgar Score/ OR exp Birth Weight/ OR (newborn* OR new-born* OR neonat* OR postnatal* OR birth-weight* OR birthweight* OR (small ADJ2 (date OR gestation*)) OR stillbirth OR still-born OR still-birth OR still-born OR Apgar).ab,ti.) NOT (exp animals/ NOT humans/) AND english.la.
Web of Science SCI-EXPANDED & SSCI

TS=((((beta* OR β OR β1 OR β2 OR β3) NEAR/2 (block* OR antagonist*)) OR adaprolol* OR afurolol* OR alprenolol* OR befunolol* OR bfe-55* OR bopindolol* OR bornaprolol* OR bromoacetyleprenololmenthane* OR bucindolol* OR bucumolol* OR bufetolol* OR bufuralol* OR bunitrolol* OR bunolol* OR buspanolol* OR butofirolol* OR carazolol* OR carpindolol* OR carteolol* OR carvedilol* OR cloranolol* OR deacetylmetipranolol* OR dexpropranolol* OR diacetolol* OR dichlorisoprenaline* OR dihydroalprenolol* OR dilevalol* OR diprafenone* OR ersentiide* OR exaprolol* OR falintolol* OR flestolol* OR hydroxybenzylpindolol* OR indenolol* OR iodopindolol* OR iprocrrolol* OR isamaltane* OR isoxaprolol* OR labetalol* OR levobunolol* OR levomoprocol* OR mepinindolol* OR mercederamide* OR metipranolol* OR moprocol* OR nadolol* OR nifenadol* OR oberadilol* OR oxprenolol* OR pafenolol* OR pamatolol* OR penbutolol* OR pindolol* OR primidolol* OR prizidilol* OR procinolol* OR pronetalol* OR propranolol* OR proxodolol* OR ridazolol* OR soquinolol* OR sotalol* OR spirendolol* OR tazolol* OR tertatolol* OR tienoxolol* OR tilisolol* OR timolol* OR tolomolol* OR toliprolol* OR trasitensin* OR trepress* OR tribendilol* OR visalkdix* OR xibenolol* OR zoleprodolol* OR acebutolol* OR alpha-hydroxyprololol* OR atenolol* OR bendacalol* OR betaxolol* OR bevantolol* OR bisoprolol* OR celliprolol* OR cetamolol* OR cyanoidopindolol* OR cyanopindolol* OR dramedilol* OR epanolol* OR esmolol* OR flusoxolol* OR landiolol* OR metoprolol* OR nebivolol* OR practolol* OR ritodrine* OR salcardolol* OR sandoz-204545* OR talinolol* OR vortioxetin* OR bendacalol* OR butoxamine* OR clociprolol* OR artoinolol*)) AND ((pregnan* OR prenatal* OR (breast NEAR/1 (feed* OR fed OR milk)) OR human-milk OR lactat* OR intra-uterin* OR intrautererin* OR ((fetus* OR foetus* OR fetal* OR foetal*) NEAR/2 expos*) OR mother OR maternal OR placenta* OR perinatal* OR peri-natal*)) AND ((adverse* OR bradycard* OR effect* OR ((intrauterin* OR intra-uterin*) NEAR/2 growth) OR birth-weight* OR birthweight* OR (small NEAR/2 (date OR gestation*)) OR hypoglycemi* OR hypoglycaemia OR ((pregnan* OR deliver* OR obstetr* OR childbirth OR labour OR labor) NEAR/2 outcome*) OR stillbirth OR stillborn OR still-birth OR still-born OR Apgar OR harm* OR toxic* OR intox* OR hemodynamic* OR haemodynamic* OR complication* OR (prematur* NEAR/2 (birth)) OR prematurity)) AND ((newborn* OR new-born* OR neonat* OR postnatal* OR birth-weight* OR birthweight* OR (small NEAR/2 (date OR gestation*)) OR stillbirth OR stillborn OR still-birth OR still-born OR Apgar))) AND DT=(article) AND LA=(english)
**Cochrane CENTRAL register of trials**

(((beta* OR β OR β1 OR β2 OR β3) NEAR/3 (block* OR antagonist*)) OR adaprolol* OR afurolol* OR alprenolol* OR befunolol* OR bfe NEXT 55* OR bopindolol* OR bornaprolol* OR bromoacetyladprenolololmthane* OR bucindolol* OR bucumolol* OR bufetolol* OR bufuralol* OR bunitrolol* OR bunolol* OR bupanolol* OR butoiolol* OR carazolol* OR carteolol* OR carvediolol* OR cloranolol* OR deacetylmetipranolol* OR dexpropranolol* OR diepropranolol* OR dichlorisoprenaline* OR dihydroalprenolol* OR dilevalol* OR diprafenone* OR ersentilide* OR exaprolol* OR falintolol* OR flestolol* OR hydroxybenzylpindolol* OR indenolol* OR iodipindolol* OR iprocrrolol* OR isamoltane* OR isoxaprolol* OR labetalol* OR levobunolol* OR levomoproprolool* OR meipindolol* OR mercureramide* OR metipranolol* OR moprolol* OR nadolol* OR nifenalol* OR oberadiol* OR oxprenolol* OR pafenolol* OR pamatolol* OR penbutolol* OR pindolol* OR primidolol* OR prizidiolol* OR prcinoiolol* OR pronetolol* OR propranoloel* OR proxdolol* OR ridazolol* OR soquinoiolol* OR soatalol* OR spirendolol* OR tazolol* OR tetrodolol* OR tenisxolol* OR tilisolol* OR timolol* OR tolamolol* OR toliprolol* OR trasitensin* OR trepres* OR tribendiolol* OR viskaldix* OR xibenolol* OR zoleprosdolol* OR acebutolol* OR alpha NEXT hydroxyometiprolol* OR atenolol* OR bendacalol* OR betaxolol* OR bevantoelol* OR bisoprolol* OR celiprolol* OR cetamolol* OR cyanoidopindolol* OR cyanopindolol* OR dramedilol* OR epanolol* OR esmolol* OR flusoxolol* OR landiolol* OR metopropolol* OR nebivolol* OR pratdolol* OR ritodrine* OR salcardolol* OR sandoz NEXT 204545* OR talinolol* OR voroxetine* OR bendacalol* OR butoxamine* OR cicloprolol* OR arotinolol*):Ab,ti) AND ((pregnan* OR prenatal* OR (breast NEXT 1 (feed* OR fed OR milk)) OR human NEXT milk OR lactat* OR intra NEXT uterin* OR intrauterin* OR (fetus* OR foetus* OR fetal* OR foetal*):NEAR/3 expos*) OR mother OR maternal OR placenta* OR perinatal* OR peri NEXT natal*):Ab,ti) AND ((adverse* OR bradycard* OR effect* OR ((intrauterin* OR intra NEXT uterin*) NEAR/3 growth) OR birth NEXT weight* OR birthweight* OR (small NEXT 2 (date OR gestation*)) OR hypoglycemi* OR hypoglycaemia OR ((pregnan* OR deliver* OR obstetr* OR childbirth OR labour OR labor) NEAR/3 outcome*) OR stillbirth OR stillborn OR still NEXT birth OR still NEXT born OR Apgar OR harm* OR toxic* OR intesx* OR hemodynamic* OR haemodynamic* OR complication* OR (prematur* NEAR/3 (birth)) OR prematurity):ab,ti) AND ((newborn* OR new NEXT born* OR neonat* OR postnatal* OR birth NEXT weight* OR birthweight* OR (small NEXT 2 (date OR gestation*)) OR stillbirth OR stillborn OR still NEXT birth OR still NEXT born OR Apgar):ab,ti)