

FULL SEARCH STRATEGIES FOR EACH DATABASE

The literature was searched for records including the concepts of *cerebral blood flow, cerebral oxygenation, cerebral perfusion, vasopressors, phenylephrine, ephedrine, epinephrine, noradrenaline, vasopressin, dopamine, randomized control trials, and humans*. The search strategies was created using a combination of keywords and controlled vocabulary in Embase.com 1947- , Ovid Medline 1946- , Scopus 1823- , Cochrane Central Register of Controlled Trials (CENTRAL), and Web of Science 1900- . All search strategies were completed April 14, 2020 with no added database supplied filters or limits to find a total of 2,519 results. 706 duplicate records were deleted after using the de-duplication processes described in “De-duplication of database search results for systematic reviews in EndNote,” (Bramer, Giustini, de Jonge, Holland, & Bekhuis, 2016) resulting in a total of 1,813 unique citations included in the project library. Fully reproducible search strategies for each database can be found in the appendix.

Embase

Date Searched: 4/14/2020

Applied Database Supplied Limits: none

Number of Results: 570

Full Search Strategy:

((('hemodynamics'/de AND 'brain'/de) OR 'brain blood flow'/de OR 'brain perfusion'/de OR 'cerebral perfusion pressure'/de OR 'cerebral oxygen saturation'/de OR 'cerebral autoregulation'/de OR ((brain OR cephalic OR cerebral OR cerebrum OR intracranial) NEAR/3 ('blood flow' OR bloodflow OR 'blood supply')):ti,ab OR ((brain OR cerebral) NEAR/3 perfusion*):ti,ab OR ((Cerebral OR brain) NEAR/3 (oxygenation OR 'oxygen saturation' OR circulation)):ti,ab OR ('cerebral autoregulation' OR 'Cerebrovascular Circulation'):ti,ab OR ('Frontal lobe' NEAR/3 oxygenation):ti,ab) AND ('hypertensive agent'/de OR 'phenylephrine'/de OR 'ephedrine'/de OR 'epinephrine'/de OR 'noradrenalin'/de OR 'vasopressin'/de OR 'dopamine'/de OR ((hypertensive OR antihypotensive OR antihypotonic OR pressor OR vasopressor) NEAR/3 (agent or drug*)):ti,ab OR (adrianol OR 'af-taf' OR 'ak-dilate' OR 'albalon relief' OR 'alconefrin' OR 'almefrin' OR 'biomidrin' OR 'biomydrin' OR 'biorphen phenylephrine' OR 'derizene' OR 'despec-sf' OR 'disneumon pernasal' OR 'dristan nasal mist' OR 'drosin' OR 'efrin-10' OR 'efrisel' OR 'fenylephrine' OR 'idrianol' OR 'isonefrine' OR 'isophrin' OR 'isophrine' OR 'isoptofrin' OR 'isoptofrin' OR 'l meta synephrine' OR 'l phenylefrine' phenylephrine OR lexatol OR 'm synephrine' OR 'mesaton' OR 'meta sympathol' OR 'meta synephrine' OR metaoxedrin OR metaoxedrine OR metasynephrine OR metasymphatol OR mezatol OR 'minims phenylephrine hydrochloride' OR mydrin OR 'nefrin-ofteno' OR 'neo synephrine' OR neofrin OR neooxedrine OR neophryn OR neosynephrin OR neosynephrine OR neosynesis OR neosynesis OR 'ocu-phrin' OR 'oftan-metaoksedrin' OR 'op-isophrin' OR optistin OR phenoptic OR phenylephrine OR phenylephedrine OR prefrin OR 'pupiletto forte' OR rectasol OR 'rhinall 10' OR 'slv 325' OR 'slv325' OR sucraphen OR vazculep OR visadron OR vistafrin OR vistosan):ti,ab OR (ephedrine OR 'alpha hydroxy beta methylaminopropylbenzene' OR biophedrin OR eciphin OR 'efedra orion' OR efedrin OR ephedrine OR efidrin OR eggophedrin OR ephadrosan OR ephalone OR 'ephedra orion' OR ephedral OR ephedrine OR ephedrosan OR ephedrosst OR fedrin OR 'i sedrin' OR kratedyn OR mandrin OR 'neo fedrin' OR Primatene OR sanedrin OR sanedrine OR zephrol):ti,ab OR (epinephrine OR adnephrin OR adnephrine

OR 'adrenal hydrochloride' OR adrenalin OR adrenalina OR adrenaline OR adrenamine OR adrenapax OR adrenazin OR adrenine OR adrin OR adrine OR advaradin OR asthmahaler OR balmadren OR biorenine OR bosmin OR 'bronitin mist' OR 'bronkaid mist' OR chelafrin OR drenamist OR dylephrin OR 'dyspne inhal' OR Epifrin OR epiglauftrin OR epimephrine OR epinefrina OR epinephran OR epinephrine OR epirenamine OR epirenan OR epitrate OR exadrin OR glaucon OR glaucosan OR glaufrin OR 'glin epin' OR glycirenan OR haemostatin OR hemisine OR hemostasin OR hemostatin OR hypernephtrin OR 'isopto epinal' OR levoadrenalin OR levoadrenaline OR levoepinephrine OR levorenin OR levorenine OR Lyophrin OR 'medihaler-epi' OR ethylaminoethanolcatechol OR methylarterenol OR mucidrina OR myosthenine OR 'n methylnoradrenalin' OR nephridine OR nieraline OR paranephtrin OR posumin OR 'primatene mist' OR 'racemic adrenalin' OR renaglandin OR renaglandulin OR renaleptine OR renalina OR renaline OR renoform OR renostypticin OR renostyptin OR scurenaline OR simplene OR soladren OR sphygmogenin OR styptirenal OR supracapsulin OR supranephrane OR supranephtrin OR supranol OR suprarenaline OR suprarenin OR suprarenine OR suprel OR surenine OR surrenine OR 'sus phrine injection' OR 'sus-phrine injection' OR 'sus-phrine sulfite-free' OR susphrine OR symjepi OR 'sympathin I' OR takamina OR tonogen OR trenamist OR vasoconstrictine OR vasodrine OR vasotonin OR weradren):ti,ab OR (noradrenalin OR adrenor OR alginodia OR arterenal OR arterenol OR 'baycain green' OR levarterenol OR levonor OR levophed OR neomelubrin OR noradrec OR noradrenaline OR noradrine OR norepinephrine OR norepinephrine OR norexadrin OR revarterenol OR sympathin):ti,ab OR (ADH OR 'anti diuretic hormone' OR 'antidiuretic hormone' OR 'beta hypophamine' OR pitressin OR pressyn OR tonephin OR vasophysin OR vasopin OR vasopressin OR vasopressine OR vasostrict OR vasopressin):ti,ab OR (dopamine OR cardiopal OR cardiosteril OR catabon OR dihydroxyphenylethylamine OR docard OR dopamex OR dopamin OR dopamine OR dopaminex OR dopaminum OR dopastat OR dopinga OR dopmin OR drynalken OR dynatra OR dynos OR giludop OR hydroxytyramine OR inopan OR inopin OR inotropin OR inovan OR intropin OR levodopamine OR revivan OR tensamin OR uramin):ti,ab) AND (('clinical trial'/de OR 'randomized controlled trial'/de OR 'randomization'/de OR 'single blind procedure'/de OR 'double blind procedure'/de OR 'crossover procedure'/de OR 'placebo'/de OR 'prospective study'/de OR 'randomi?ed controlled' NEXT/1 trial* OR rct OR 'randomly allocated' OR 'allocated randomly' OR 'random allocation' OR allocated NEAR/2 random OR single NEXT/1 blind* OR double NEXT/1 blind* OR (treble OR triple) NEAR/1 blind* OR placebo*)) NOT ('animal'/exp NOT ('human'/exp AND 'animal'/exp))

[Note: RCT filter for Embase is derived from the SIGN filter: The Scottish Intercollegiate Guidelines Network (SIGN) Search Filters Web Page. Available from: <http://www.sign.ac.uk/search-filters.html>]

Ovid Medline

Date Searched: 4/14/2020

Applied Database Supplied Limits: none

Number of Results: 574

Full Search Strategy:

((Hemodynamics/ AND brain/) OR Cerebrovascular Circulation/ OR ((brain OR cephalic OR cerebral OR cerebrum OR intracranial) ADJ3 (blood flow OR bloodflow OR blood supply)).ti,ab. OR ((brain OR

cerebral) ADJ3 perfusion*).ti,ab. OR ((Cerebral OR brain) ADJ3 (oxygenation OR oxygen saturation OR circulation)).ti,ab. OR (cerebral autoregulation OR Cerebrovascular Circulation).ti,ab. OR (Frontal lobe ADJ3 oxygenation).ti,ab.) AND (Vasoconstrictor Agents/ OR Phenylephrine/ OR Ephedrine/ OR Epinephrine/ OR Norepinephrine/ OR Dopamine/ OR ((hypertensive OR antihypotensive OR antihypotonic OR pressor OR vasopressor) ADJ3 (agent or drug*)).ti,ab. OR (adrianol OR af-taf OR ak-dilate OR albalon relief ORalconefrin OR almefrin OR biomidrin OR biomydrin biorphen phenylephrine OR derizene OR despec-sf OR disneumon pernasal OR dristan nasal mist OR drosin OR efrin-10 OR efrisel OR fenylephrine OR idrianol OR isonefrine OR isophrin OR isophrine OR isopto frin OR isoptofrin OR l meta synephrine OR l phenylefrine phenylephrine OR lexatol OR m synephrine OR mesaton OR meta sympathol OR meta synephrine OR metaoxedrin OR metaoxedrine OR metasynephrine OR metasympatol OR mezaton OR minimis phenylephrine hydrochloride OR mydrin OR nefrin-ofeno OR neo synephrine OR neofrin OR neoxedrine OR neophryn OR neosynephrin OR neosynephrine OR neosynesine OR neosynesine OR ocu-phrin OR oftan-metaoksedrin OR op-isophrin OR optistin OR phenoptic OR phenylephrine OR phenylephedrine OR prefrin OR pupiletto forte OR rectasol OR rhinall 10 OR slv 325 OR slv325 OR sucraphen OR vazculep OR visadron OR vistafrin OR vistantin).ti,ab. OR (ephedrine OR alpha hydroxy beta methylaminopropylbenzene OR biophedrin OR eciphin OR efedra orion OR efedrin OR ephedrine OR efidrin OR eggophedrin OR ephadrosan OR ephalone OR ephedra orion OR ephedral OR ephedrine OR ephedrosan OR ephedrosst OR fedrin OR i sedrin OR kratedyn OR mandrin OR neo fedrin OR Primatene OR sanedrin OR sanedrine OR zephrol).ti,ab. OR (epinephrine OR adnephrin OR adnephrine OR adrenal hydrochloride OR adrenalin OR adrenalina OR adrenaline OR adrenamine OR adrenapax OR adrenazin OR adrenine OR adrin OR adrine OR advaradin OR astmahaler OR balmadren OR biorenine OR bosmin OR bronitin mist OR bronkaid mist OR chelafrin OR drenamist OR dylephrin OR dyspne inhal OR Epifrin OR epiglauftrin OR epimephrine OR epinefrina OR epinephran OR epinephrine OR epirenamine OR epirenan OR epitrate OR exadrin OR glaucon OR glaucosan OR glaufrin OR glin epin OR glycirenan OR haemostatin OR hemisine OR hemostasin OR hemostatin OR hypernephrin OR isopto epinal OR levoadrenalin OR levoadrenaline OR levoepinephrine OR levorenin OR levorenine OR Lyophrin OR medihaler-epi OR ethylaminoethanolcatechol OR methylarterenol OR mucidrina OR myosthenine OR n methylnoradrenalin OR nephridine OR nialine OR paranephrin OR posumin OR primatene mist OR racemic adrenalin OR renaglandin OR renaglandulin OR renaleptine OR renalina OR renaline OR renoforn OR renostypticin OR renostyptin OR scurenaline OR simplene OR soladren OR sphygmogenin OR styptirenal OR supracapsulin OR supranephrane OR supranephrin OR supranol OR suprarenaline OR suprarenin OR suprarenine OR suprel OR surenine OR surrenine OR sus phrine injection OR sus-phrine injection OR sus-phrine sulfite-free OR susphrine OR symjepi OR sympathin I OR takamina OR tonogen OR trenamist OR vasoconstrictine OR vasodrine OR vasotonin OR weradren).ti,ab. OR (noradrenalin OR adrenor OR alginodia OR arterenal OR arterenol OR baycain green OR levarterenol OR levonor OR levophed OR neomelubrin OR noradrec OR noradrenaline OR noradrine OR norepinephrine OR norepinephrine OR norexadrin OR revarterenol OR sympathin).ti,ab. OR (ADH OR anti diuretic hormone OR antidiuretic hormone OR beta hypophamine OR pitressin OR pressyn OR tonephrin OR vasophysin OR vasopin OR vasopressin OR vasopressine OR vasostrict OR vasopressin).ti,ab. OR (dopamine OR cardiopal OR cardiosteril OR catabon OR dihydroxyphenylethylamine OR docard OR dopamex OR dopamin OR dopamine OR dopaminex OR dopaminum OR dopastat OR dopinga OR dopmin OR drynalken OR dynatra OR dynos OR giludop OR hydroxytyramine OR inopan OR inopin OR inotropin OR inovan OR intropin OR levodopamine OR revivan OR tensamin OR uramin).ti,ab.) AND (randomized controlled trial.pt. OR

controlled clinical trial.pt. OR randomized.ab. OR placebo.ab. OR drug therapy.fs. OR randomly.ab. OR trial.ab. OR groups.ab.)) NOT (exp Animals/ NOT (exp Animals/ AND exp Humans/))

[Note: RCT filter for Ovid-Medline is derived from: Lefebvre C, Manheimer E, Glanville J. Chapter 6: Searching for studies. In: Higgins J, Green S (editors). Cochrane Handbook for Systematic Reviews of Interventions. Version 5.1.0 (updated March 2011). The Cochrane Collaboration, 2011. Available from www.cochrane-handbook.org]

Scopus

Date Searched: 4/14/2020

Applied Database Supplied Limits: none

Number of Results: 834

Full Search Strategy:

((TITLE-ABS(brain OR cephalic OR cerebral OR cerebrum OR intracranial) W/3 (“blood flow” OR bloodflow OR “blood supply”)) OR (TITLE-ABS(brain OR cerebral) W/3 perfusion*) OR (TITLE-ABS(Cerebral OR brain) W/3 (oxygenation OR “oxygen saturation” OR circulation)) OR (TITLE-ABS(“cerebral autoregulation” OR “Cerebrovascular Circulation”)) OR (TITLE-ABS(“Frontal lobe” W/3 oxygenation))) AND ((TITLE-ABS(hypertensive OR antihypotensive OR antihypotonic OR pressor OR vasopressor) W/3 (agent or drug*)) OR (TITLE-ABS(adrianol OR “af-taf” OR “ak-dilate” OR “albalon relief” OR “alconefrin” OR “almefrin” OR “biomidrin” OR “biomydrin” “biorphen phenylephrine” OR “derizene” OR “despec-sf” OR “disneumon pernasal” OR “dristan nasal mist” OR “drosin” OR “efrin-10” OR “efrisel” OR “fenylephrine” OR “idrianol” OR “isonefrine” OR “isophrin” OR “isophrine” OR “isopto frin” OR “isoptofrin” OR “l meta synephrine” OR “l phenylephrine” phenylephrine OR lexatol OR “m synephrine” OR “mesaton” OR “meta sympathol” OR “meta synephrine” OR metaoxedrin OR metaoxedrine OR metasynephrine OR metasympatol OR mezaton OR “minims phenylephrine hydrochloride” OR mydrin OR “nefrin-ofteno” OR “neo synephrine” OR neofrin OR neooxedrine OR neophryn OR neosynephrin OR neosynephrine OR neosynesine OR neosynesine OR “ocu-phrin” OR “oftan-metaoksedrin” OR “op-isophrin” OR optistin OR phenoptic OR phenylephrine OR phenylephedrine OR prefrin OR “pupiletto forte” OR rectasol OR “rhinal 10” OR “slv 325” OR “slv325” OR sucraphen OR vazculep OR visadron OR vistafrin OR vistosan)) OR (TITLE-ABS(ephedrine OR “alpha hydroxy beta methylaminopropylbenzene” OR biophedrin OR eciphin OR “efedra orion” OR efedrin OR ephedrine OR efidrin OR eggophedrin OR ephadrosan OR ephalone OR “ephedra orion” OR ephedral OR ephedrine OR ephedrosan OR ephedrosst OR fedrin OR “i sedrin” OR kratedyn OR mandrin OR “neo fedrin” OR Primatene OR sanedrin OR sanedrine OR zephrol)) OR (TITLE-ABS(epinephrine OR adnephrin OR adnephrine OR “adrenal hydrochloride” OR adrenalin OR adrenalina OR adrenaline OR adrenamine OR adrenapax OR adrenazin OR adrenine OR adrin OR adrine OR advaradin OR astmahaler OR balmadren OR biorenine OR bosmin OR “bronitin mist” OR “bronkaid mist” OR chelafrin OR drenamist OR dylephrin OR “dyspne inhal” OR Epifrin OR epiglauftrin OR epimephrine OR epinefrina OR epinephran OR epinephrine OR epirenamine OR epirenan OR epitrate OR exadrin OR glaucan OR glucosan OR glaufrin OR “glin epin” OR glycirenane OR haemostatin OR hemisine OR hemostasin OR hemostatin OR hypernephrin OR “isopto epinal” OR levoadrenalin OR levoadrenaline

OR levoepinephrine OR levorenin OR levorenine OR Lyophrin OR “medihaler-epi” OR ethylaminoethanolcatechol OR methylarterenol OR mucidrina OR myosthenine OR “n methylnoradrenalin” OR nephridine OR nieraline OR paranephrin OR posumin OR “primatene mist” OR “racemic adrenalin” OR renaglandin OR renaglandulin OR renaleptine OR renalina OR renaline OR renoform OR renostypticin OR renostyptin OR scurenaline OR simplene OR soladren OR sphymogenin OR styptirenal OR supracapsulin OR supranephrene OR supranephrin OR supranol OR suprarenaline OR suprarenin OR suprarenine OR suprel OR surenine OR surrenine OR “sus phrine injection” OR “sus-phrine injection” OR “sus-phrine sulfite-free” OR susphrine OR symjepi OR “sympathin I” OR takamina OR tonogen OR trenamist OR vasoconstrictine OR vasodrine OR vasotonin OR weradren)) OR (TITLE-ABS(noradrenalin OR adrenor OR alginodia OR arterenal OR arterenol OR “baycain green” OR levarterenol OR levonor OR levophed OR neomelubrin OR noradrec OR noradrenaline OR noradrine OR norepinephrine OR norepinephrine OR norexadrin OR revarterenol OR sympathin)) OR (TITLE-ABS(ADH OR “anti diuretic hormone” OR “antidiuretic hormone” OR “beta hypophamine” OR pitressin OR pressyn OR tonephin OR vasophysin OR vasopin OR vasopressin OR vasopressine OR vasostrict OR vasopressin)) OR (TITLE-ABS(dopamine OR cardiopal OR cardiosteril OR catabon OR dihydroxyphenylethylamine OR docard OR dopamex OR dopamin OR dopamine OR dopaminex OR dopaminum OR dopastat OR dopinga OR dopmin OR drynalken OR dynatra OR dynos OR giludop OR hydroxytyramine OR inopan OR inopin OR inotropin OR inovan OR intropin OR levodopamine OR revivan OR tensamin OR uramin))) AND (((INDEXTERMS ("clinical trials" OR "clinical trials as a topic" OR "randomized controlled trial" OR "Randomized Controlled Trials as Topic" OR "controlled clinical trial" OR "Controlled Clinical Trials" OR "random allocation" OR "Double-Blind Method" OR "Single-Blind Method" OR "Cross-Over Studies" OR "Placebos" OR "multicenter study" OR "double blind procedure" OR "single blind procedure" OR "crossover procedure" OR "clinical trial" OR "controlled study" OR "randomization" OR "placebo")) OR (TITLE-ABS-KEY (("clinical trials" OR "clinical trials as a topic" OR "randomized controlled trial" OR "Randomized Controlled Trials as Topic" OR "controlled clinical trial" OR "Controlled Clinical Trials as Topic" OR "random allocation" OR "randomly allocated" OR "allocated randomly" OR "Double-Blind Method" OR "Single-Blind Method" OR "Cross-Over Studies" OR "Placebos" OR "cross-over trial" OR "single blind" OR "double blind" OR "factorial design" OR "factorial trial"))) OR (TITLE-ABS (clinical AND trial* OR trial* OR rct* OR random* OR blind*))))

[Note: RCT filter for Scopus from the National University of Singapore medical library systematic review guide: <http://libguides.nus.edu.sg/c.php?g=145717&p=2470589>]

CENTRAL

Date Searched: 4/14/2020

Applied Database Supplied Limits: none

Number of Results: 354

Full Search Strategy:

((([mh “Hemodynamics”]) AND ([mh “brain”])) OR ([mh “Cerebrovascular Circulation”]) OR ((brain OR cephalic OR cerebral OR cerebrum OR intracranial) NEAR/3 (“blood flow” OR bloodflow OR

“blood supply”):ti,ab OR ((brain OR cerebral) NEAR/3 perfusion*):ti,ab OR ((Cerebral OR brain) NEAR/3 (oxygenation OR “oxygen saturation” OR circulation)):ti,ab OR (“cerebral autoregulation” OR “Cerebrovascular Circulation”):ti,ab OR (“Frontal lobe” NEAR/3 oxygenation):ti,ab) AND ([mh “Vasoconstrictor Agents”] OR [mh “Phenylephrine”] OR [mh “Ephedrine”] OR [mh “Epinephrine”] OR [mh “Norepinephrine”] OR [mh “Dopamine”] OR ((hypertensive OR antihypotensive OR antihypotonic OR pressor OR vasopressor) NEAR/3 (agent or drug*)):ti,ab OR (adrianol OR “af-taf” OR “ak-dilate” OR “albalon relief” OR “alconefrin” OR “almefrin” OR “biomidrin” OR “biomydrin” “biorphen phenylephrine” OR “derizene” OR “despec-sf” OR “disneumon pernasal” OR “dristan nasal mist” OR “drosin” OR “efrin-10” OR “efrisel” OR “fenylephrine” OR “idrianol” OR “isonefrine” OR “isophrin” OR “isophrine” OR “isopto frin” OR “isoptofrin” OR “l meta synephrine” OR “l phenylephrine” phenylephrine OR lexatol OR “m synephrine” OR “mesaton” OR “meta sympathol” OR “meta synephrine” OR metaoxedrin OR metaoxedrine OR metasynephrine OR metasympatol OR mezaton OR “minims phenylephrine hydrochloride” OR mydftrin OR “nefrin-ofteno” OR “neo synephrine” OR neofrin OR neooxedrine OR neophryn OR neosynephrin OR neosynephrine OR neosynesine OR neosynesine OR “ocu-phrin” OR “oftan-metaoksedrin” OR “op-isophrin” OR optistin OR phenoptic OR phenylephrine OR phenylephedrine OR prefrin OR “pupiletto forte” OR rectasol OR “rhinall 10” OR “slv 325” OR “slv325” OR sucraphen OR vazculep OR visadron OR vistafrin OR vistosan):ti,ab OR (ephedrine OR “alpha hydroxy beta methylaminopropylbenzene” OR biophedrin OR eciphin OR “efedra orion” OR efedrin OR ephedrine OR efidrin OR eggophedrin OR ephadrosan OR ephalone OR “ephedra orion” OR ephedral OR ephedrine OR ephedrosan OR ephedrosst OR fedrin OR “i sedrin” OR kratedyn OR mandrin OR “neo fedrin” OR Primatene OR sanedrin OR sanedrine OR zephrol):ti,ab OR (epinephrine OR adnephtrin OR adnephtrine OR “adrenal hydrochloride” OR adrenalin OR adrenalina OR adrenaline OR adrenamine OR adrenapax OR adrenazin OR adrenine OR adrin OR adrine OR advaradin OR asthmahaler OR balmadren OR biorenine OR bosmin OR “bronitin mist” OR “bronkaid mist” OR chelafrin OR drenamist OR dylephrin OR “dyspne inhal” OR Epifrin OR epiglauftrin OR epimephrine OR epinefrina OR epinephran OR epinephrine OR epirenamine OR epirenan OR epitrate OR exadrin OR glaucan OR glaucosan OR glaufrin OR “glin epin” OR glycirenan OR haemostatin OR hemisine OR hemostasin OR hemostatin OR hypernephrin OR “isopto epinal” OR levoadrenalin OR levoadrenaline OR levoepinephrine OR levorenin OR levorenine OR Lyophrin OR “medihaler-epi” OR ethylaminoethanolcatechol OR methylarterenol OR mucidrina OR myosthenine OR “n methylnoradrenalin” OR nephridine OR nieraline OR paranephrin OR posumin OR “primatene mist” OR “racemic adrenalin” OR renaglandin OR renaglandulin OR renaleptine OR renalina OR renaline OR renoforn OR renostypticin OR renostyptin OR scurenaline OR simplene OR soladren OR sphygmogenin OR styptirenal OR supracapsulin OR supranephrane OR supranephrin OR supranol OR suprarenaline OR suprarenin OR suprarenine OR suprel OR surenine OR surrenine OR “sus phrine injection” OR “sus-phrine injection” OR “sus-phrine sulfite-free” OR susphrine OR symjepi OR “sympathin I” OR takamina OR tonogen OR trenamist OR vasoconstrictine OR vasodrine OR vasotonin OR weradren):ti,ab OR (noradrenalin OR adrenor OR alginodia OR arterenal OR arterenol OR “baycain green” OR levarterenol OR levonor OR levophed OR neomelubrin OR noradrec OR noradrenaline OR noradrine OR norepinephrine OR norepinephrine OR norexadrin OR revarterenol OR sympathin):ti,ab OR (ADH OR “anti diuretic hormone” OR “antidiuretic hormone” OR “beta hypophamine” OR pitressin OR pressyn OR tonephin OR vasophysin OR vasopin OR vasopressin OR vasopressine OR vasostrict OR vasopressin):ti,ab OR (dopamine OR cardiopal OR cardiosteril OR catabon OR dihydroxyphenylethylamine OR docard OR dopamex OR dopamin OR dopamine OR dopaminex OR

dopaminum OR dopastat OR dopinga OR dopmin OR drynalken OR dynatra OR dynos OR giludop OR hydroxytyramine OR inopan OR inopin OR inotropin OR inovan OR intropin OR levodopamine OR revivan OR tensamin OR uramin):ti,ab)

Web of Science

Date Searched: 4/14/2020

Applied Database Supplied Limits: Refined by: DOCUMENT TYPES: (ARTICLE OR RETRACTED PUBLICATION)

Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years

Number of Results: 187

Full Search Strategy:

#1 TS=((brain OR cephalic OR cerebral OR cerebrum OR intracranial) NEAR/3 ("blood flow" OR bloodflow OR "blood supply"))

#2 TS=((brain OR cerebral) NEAR/3 perfusion*)

#3 TS=((Cerebral OR brain) NEAR/3 (oxygenation OR "oxygen saturation" OR circulation))

#4 TS=((Cerebral OR brain) NEAR/3 (oxygenation OR "oxygen saturation" OR circulation))

#5 TS=((cephalic NEAR/3 "blood supply"))

#6 #5 OR #4 OR #3 OR #2 OR #1 (53,127)

#7 TS=((hypertensive OR antihypotensive OR antihypotonic OR pressor OR vasopressor) NEAR/3 (agent OR drug*))

#8 TS=((adrianol OR "af-taf" OR "ak-dilate" OR "albalon relief" OR "alconefrin" OR "almefrin" OR "biomidrin" OR "biomydrin" "biorphen phenylephrine" OR "derizene" OR "despec-sf" OR "disneumon pernasal" OR "dristan nasal mist" OR "drosin" OR "efrin-10" OR "efrisel" OR "fenylephrine" OR "idrianol" OR "isonefrine" OR "isophrin" OR "isophrine" OR "isopto frin" OR "isoptofrin" OR "l meta synephrine" OR "l phenylefrine" phenylephrine OR lexatol OR "m synephrine" OR "mesaton" OR "meta sympathol" OR "meta synephrine" OR metaoxedrin OR metaoxedrine OR metasynephrine OR metasympatol OR mezaton OR "minims phenylephrine hydrochloride" OR mydrin OR "nefrin-ofteno" OR "neo synephrine" OR neofrin OR neooxedrine OR neophryn OR neosynephrin OR neosynephrine OR neosynesin OR neosynesine OR "ocu-phrin" OR "oftan-metaoksedrin" OR "op-isophrin" OR optistin OR phenoptic OR phenylephrine OR phenylephedrine OR prefrin OR "pupiletto forte" OR rectasol OR "rhinall 10" OR "slv 325" OR "slv325" OR sucraphen OR vazculep OR visadron OR vistafrin OR vistosan))

#9 TS=((ephedrine OR "alpha hydroxy beta methylaminopropylbenzene" OR biophedrin OR eciphin OR "efedra orion" OR efedrin OR ephedrine OR efidrin OR eggophedrin OR ephadrosan OR ephalone OR "ephedra orion" OR ephedral OR ephedrine OR ephedrosan OR ephedrosst OR fedrin OR "i sedrin" OR kratedyn OR mandrin OR "neo fedrin" OR Primatene OR sanedrin OR sanedrine OR zephrol))

#10 TS=((epinephrine OR adnephrin OR adnephrine OR "adrenal hydrochloride" OR adrenalin OR adrenalina OR adrenaline OR adrenamine OR adrenapax OR adrenazin OR adrenine OR adrin OR adrine OR advaradin OR astmahaler OR balmadren OR biorenine OR bosmin OR "bronitin mist" OR "bronkaid mist" OR chelafrin OR drenamist OR dylephrin OR "dyspne inhal" OR Epifrin OR epiglauftrin OR epimephrine OR epinefrina OR epinephran OR epinephrine OR epirenamine OR epirenan OR epitrate OR exadrin OR glaucon OR glaucosan OR glaufrin OR "glin epin" OR glycirenan OR haemostatin OR hemisine OR hemostasin OR hemostatin OR hypernephtrin OR "isopto epinal" OR levoadrenalin OR levoadrenaline OR levoepinephrine OR levorenin OR levorenine OR Lyophrin OR "medihaler-epi" OR ethylaminoethanolcatechol OR methylarterenol OR mucidrina OR myosthenine OR "n methylnoradrenalin" OR nephridine OR nieraline OR paranephtrin OR posumin OR "primatene mist" OR "racemic adrenalin" OR renaglandin OR renaglandulin OR renaleptine OR renalina OR renaline OR renoform OR renostypticin OR renostyptin OR scurenaline OR simplene OR soladren OR sphygmogenin OR styptirenal OR supracapsulin OR supranephrane OR supranephtrin OR supranol OR suprarenaline OR suprarenin OR suprarenine OR suprel OR surenine OR surrenine OR "sus phrine injection" OR "sus-phrine injection" OR "sus-phrine sulfite-free" OR susphrine OR symjepi OR "sympathin I" OR takamina OR tonogen OR trenamist OR vasoconstrictine OR vasodrine OR vasotonin OR weradren))

#11 TS=((noradrenalin OR adrenor OR alginodia OR arterenal OR arterenol OR "baycain green" OR levarterenol OR levonor OR levophed OR neomelubrin OR noradrec OR noradrenaline OR noradrine OR norepinephrine OR norepinephrine OR norexadrin OR revarterenol OR sympathin))

#12 TS=((ADH OR "anti diuretic hormone" OR "antidiuretic hormone" OR "beta hypophamine" OR pitressin OR pressyn OR tonephin OR vasophysin OR vasopin OR vasopressin OR vasopressine OR vasostrict OR vasopressin))

#13 TS=((dopamine OR cardiopal OR cardiosteril OR catabon OR dihydroxyphenylethylamine OR docard OR dopamex OR dopamin OR dopamine OR dopaminex OR dopaminum OR dopastat OR dopinga OR dopmin OR drynalken OR dynatra OR dynos OR giludop OR hydroxytyramine OR inopan OR inopin OR inotropin OR inovan OR intropin OR levodopamine OR revivan OR tensamin OR uramin))

#14 (#13 OR #12 OR #11 OR #10 OR #9 OR #8 OR #7) = 265,582

#15 TS=("clinical trials" OR "clinical trials as a topic" OR "randomized controlled trial" OR "Randomized Controlled Trials as Topic" OR "controlled clinical trial" OR "Controlled Clinical Trials as Topic" OR "random allocation" OR "randomly allocated" OR "allocated randomly" OR "Double-Blind Method" OR "Single-Blind Method" OR "Cross-Over Studies" OR "Placebos" OR "cross-over trial" OR "single blind" OR "double blind" OR "factorial design" OR "factorial trial") OR TS=(clinical AND (trial* OR trial* OR rct* OR random* OR blind*))

#16 (#15 AND #14 AND #6) TOTAL 187