

SUPPLEMENTAL DIGITAL CONTENT
APPENDIX A. LITERATURE SEARCH STRATEGY

ACOG CLINICAL PRACTICE GUIDELINE NUMBER 3
HEADACHES IN PREGNANCY AND POSTPARTUM

Database: Ovid MEDLINE(R) <1946 to May Week 4 2021> (table created June 2, 2021)

- All searches were limited to human and English
- Primary headache searches were limited to 2000-present; however, results from 2019 and later were saved separately.
- Secondary headache searches were limited to 2000-present.

Primary and secondary headaches – general search

Line	Search	Results
1	Headache/ or Headache disorders/	30675
2	Migraine disorders/ or Alice in wonderland syndrome/ or Migraine with aura/ or Migraine without aura/ or migraine\$.ti.	28464
3	Tension-type headache/ or (tension\$ adj3 headache\$.ti.	2410
4	Trigeminal autonomic cephalalgias/ or Cluster headache/ or Paroxysmal hemicrania/ or SUNCT syndrome/	3043
5	(headache\$ adj3 (migraine or aura or tension or cluster or primary)).ti,ab.	13621
6	Headache disorders, primary/	852
7	2 or 3 or 4 or 5 or 6	36360
8	Headache disorders, secondary/ or Post-dural puncture headache/ or Post-traumatic headache/ or Vascular headaches/	3003
9	brain neoplasms/ or hypertension/ or exp Cerebrovascular Disorders/ or exp Stroke/ or Sinus Thrombosis, Intracranial/ or exp Hypertension, Pregnancy-Induced/ or Posterior Leukoencephalopathy Syndrome/	748942
10	1 and 9	5515
11	(headache\$ adj3 (infect\$ or malignan\$ or cancer\$ or neoplas\$ or cerebrovascular or cerebro-vascular or stroke\$ or venous sinus thrombosis or preeclamp\$ or pre-eclamp\$ or eclamp\$ or hellp\$ or hemolysis elevated liver or pres or posterior reversible encephalopathy syndrome)).ti,ab.	948
12	(headache\$ adj3 (secondary or vascular or postdural or post dural or posttraumatic or post traumatic or post-dural or post-traumatic)).ti,ab.	2969
13	8 or 10 or 11 or 12	10603
14	preconception care/ or pregnancy/ or exp pregnancy complications/ or exp Postpartum Period/ or postnatal care/ or exp puerperal disorders/ or prenatal care/ or perinatal care/ or breast feeding/ or Lactation/ or Fertilization/ or Gestational age/ or Maternal behavior/ or Maternal exposure/ or Maternal-fetal exchange/ or Pregnancy trimesters/ or Polycystic ovary syndrome/ or Fertilization in vitro/	1056113
15	(pregnan\$ or prenatal\$ or postpart\$ or postnat\$ or preconcept\$ or perinat\$ or obstet\$ or fetal growth or gestational age or trimester or polycystic ovary syndrome or ivf or in vitro fertilization or insemination or pcos or breastfeed\$ or breastfed or breast feed\$ or breast fed or lactat\$.ti.	429771
16	14 or 15	1113314
17	1 or 7	60656
18	16 and 17	1670
19	limit 18 to (english language and humans)	1403
20	limit 19 to yr="2019 -Current"	89
21	limit 19 to yr="2000 - 2018"	758
22	1 or 13	34301

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23	16 and 22	1484
24	limit 23 to (english language and humans)	1244
25	limit 24 to yr="2000 -Current"	790

Primary and secondary headaches – prevention

Line	Search	Results
26	(prevent\$ or prophyl\$).ti.	319743
27	antidepressive agents, tricyclic/ or amitriptyline/ or nortriptyline/ or imipramine/ or ((antidepress\$ or anti-depress\$) adj3 tricyclic).ti,ab. or (amitriptyline or nortriptyline or imipramine).ti,ab.	32309
28	mirtazapine/ or mirtazapine.ti,ab. or ((antidepress\$ or anti-depress\$) adj3 tetracyclic).ti,ab.	2373
29	exp adrenergic beta-antagonists/ or metoprolol/ or propranolol/ or nadolol/ or atenolol/ or timolol/ or nebivolol/ or (adrenergic beta-antagonist\$ or beta block\$ or metoprolol or propranolol or nadolol or atenolol or timolol or nebivolol).ti,ab.	109905
30	calcium channel blockers/ or verapamil/ or nimodipine/ or nifedipine/ or nicardipine/ or (calcium channel block\$ or calcium channel antagonist\$ or verapamil or nimodipine or nifedipine or nicardipine).ti,ab.	78025
31	antihypertensive agents/ or lisinopril/ or clonidine/ or (antihypertens\$ or anti-hypertens\$ or lisinopril or candesartan or clonidine).ti,ab.	111421
32	anticonvulsants/ or valproic acid/ or topiramate/ or carbamazepine/ or lamotrigine/ or gabapentin/ or (anticonvulsant\$ or anti-convulsant\$ or antiepileptic\$ or anti-epileptic\$ or divalproex or valproate or topiramate or carbamazepine or lamotrigine or gabapentin).ti,ab.	91528
33	"serotonin and noradrenaline reuptake inhibitors"/ or venlafaxine hydrochloride/ or duloxetine hydrochloride/ or (serotonin adj3 (noradrenaline or norepinephrine) adj3 (reuptake inhibitor\$ or uptake inhibitor\$)).ti,ab. or (ssri\$ or ssri\$ or venlafaxine or duloxetine).ti,ab.	14196
34	exp benzodiazepines/ or clonazepam/ or (benzodiazepine\$ or clonazepam).ti,ab.	79478
35	memantine/ or memantine.ti,ab. or ((n-methyl-d-aspartate or nmda) adj3 receptor\$ adj3 (inhibitor\$ or antagonist\$)).ti,ab.	13705
36	calcitonin gene-related peptide receptor antagonists/ or (erenumab or fremanezumab or galcanezumab).ti,ab. or ((calcitonin gene-related peptide or cgrp) adj3 (inhibitor\$ or antagonist\$)).ti,ab.	1827
37	cyproheptadine/ or cyproheptadine.ti,ab.	3111
38	26 or 27 or 28 or 29 or 30 or 31 or 32 or 33 or 34 or 35 or 36 or 37	787882
39	exp preventive health services/ or preventive medicine/ or (prevent\$ or prophyla\$).ti,ab. or pc.fs.	2688941
40	histamine antagonists/ or (antihistamine\$ or anti-histamine\$ or histamine antagonist\$).ti,ab.	15581
41	antimanic agents/ or lithium carbonate/ or (antimanic or anti-manic or lithium).ti,ab.	32387
42	adrenal cortex hormones/ or glucocorticoids/ or prednisolone/ or exp methylprednisolone/ or exp dexamethasone/ or exp betamethasone/ or exp triamcinolone/ or prednisone/ or (corticosteroid\$ or cortico-steroid\$ or glucocorticoid\$ or prednisolone or methylprednisolone or dexamethasone or betamethasone or triamcinolone or prednisone).ti,ab.	354169
43	40 or 41 or 42	398971

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44	39 and 43	47124
45	38 or 44	825724
46	20 and 45	13
47	21 and 45	94
48	25 and 45	73

Primary and secondary headaches – evaluation

Line	Search	Results
49	"Surveys and questionnaires"/ or Medication adherence/ or magnetic resonance angiography/ or evaluat\$.ti,ab. or (symptom\$ adj3 (assess\$ or evaluat\$)).ti,ab. or (Neurologic adj3 symptom\$).ti,ab. or (medicat\$ adj3 (past or present or current) adj3 (use\$ or usage or overus\$)).ti,ab. or ((validat\$ or evaluat\$ or assess\$ or symptom\$) adj3 (score\$ or survey\$ or questionnaire\$)).ti,ab. or (magnetic resonance adj3 (angiograph\$ or venograph\$)).ti,ab.	3654479
50	telemedicine/ or (telemedicine or telehealth or tele-medicine or tele-health or mobile health or ehealth or mhealth).ti,ab.	33452
51	(evaluat\$ or assess\$ or consult\$ or diagnos\$).ti,ab.	6667468
52	50 and 51	15862
53	49 or 52	3661309
54	20 and 53	20
55	21 and 53	193
56	25 and 53	172

Primary and secondary headaches – nonpharmacologic treatment

Line	Search	Results
57	acupuncture/ or acupuncture therapy/ or dietary supplements/ or electric stimulation therapy/ or magnetic field therapy/ or biofeedback psychology/ or relaxation therapy/ or chemodenervation/ or nerve block/	133615
58	(Single-Pulse Transcranial Magnetic Stimulation or Single Pulse Transcranial or Magnetic Stimulation or sTMS).ti.	5834
59	(non-pharmacologic\$ or nonpharmacologic\$ or Neuromodulation or Nutraceuticals or Transcranial Direct Current Stimulation or tDCS or acupuncture therap\$ or dietary supplements or electric stimulation therap\$ or magnetic field therap\$ or biofeedback\$ or relaxation therapy or chemodenervation or nerve block or peripheral nerve block or Trigger-point injections).ti,ab.	48759
60	(Non-Invasive Vagus Nerve Stimulation or Noninvasive Vagus Nerve Stimulation or non-invasive neuromodulation or noninvasive neuromodulation or nVN or hydrat\$ or physical therap\$ or behavioral therap\$ or complementary therap\$).mp.	163609
61	57 or 58 or 59 or 60	326101
62	61 not pharmacologic\$.ti,ab.	308895
63	20 and 62	5
64	21 and 62	36
65	25 and 62	39

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Primary and secondary headaches – pharmacologic treatment

Line	Search	Results
66	Acetaminophen/ or Antipyretics/ or (Acetaminophen or Paracetamol or Tylenol).ti,ab. or (Analgesic\$ or Antipyretic\$ or Anti-pyretic\$).ti.	45242
67	Anti-Inflammatory Agents, Non-Steroidal/ or Ibuprofen/ or Naproxen/ or Aspirin/ or Celecoxib/ or Ketorolac/ or Indomethacin/ or Ketoprofen/ or Diclofenac/ or mefenamic acid/ or (NSAID\$ or Excedrin or Ibuprofen or Naproxen or Aspirin or Celecoxib or Ketorolac or Indomethacin or Ketoprofen or Diclofenac or mefenamic acid or Midrin or isometheptene or dichloralphenazone).ti,ab. or (Nonsteroidal adj3 (antiinflammatory or anti-inflammatory)).ti,ab.	189964
68	Antiemetics/ or Metoclopramide/ or Promethazine/ or Prochlorperazine/ or Droperidol/ or Chlorpromazine/ or Ondansetron/ or (Antiemetic\$ or Anti-emetic\$ or Metoclopramide or metoclopramide or Promethazine or Prochlorperazine or Droperidol or Dehydrobenzperidol or Dehydrobenzperidol or Chlorpromazine or 5HT3 antagonist\$ or Zofran or Ondansetron).ti,ab.	45548
69	exp Histamine Antagonists/ or Meclizine/ or Diphenhydramine/ or Dimenhydrinate/ or (Antihistamine\$ or anti-histamine\$ or Histamine antagonist\$ or Meclizine or Dimenhydrinate or diphenhydramine).ti,ab.	67805
70	Caffeine/ or Caffeine.ti,ab. or ((Central Nervous System or CNS) adj3 Stimulant\$).ti,ab.	33085
71	Muscle Relaxants, Central/ or Baclofen/ or Carisoprodol/ or (Muscle relaxant\$ or Baclofen or Tizanidine or metaxalone or carisoprodol or cyclobenzaprine).ti,ab.	20955
72	Adrenal cortex hormones/ or Glucocorticoids/ or Prednisolone/ or exp methylprednisolone/ or exp dexamethasone/ or exp betamethasone/ or exp triamcinolone/ or Prednisone/ or (Corticosteroid\$ or cortico-steroid\$ or Glucocorticoid\$ or Prednisolone or Methylprednisolone or Dexamethasone or betamethasone or triamcinolone or prednisone).ti,ab.	354169
73	Tryptamines/ or Serotonin Receptor Agonists/ or Sumatriptan/ or (Triptan\$ or Sumatriptan or Frovatriptan or Naratriptan or Rizatriptan or Almotriptan or Eletriptan or Zolmitriptan).ti,ab.	15397
74	Narcotics/ or Analgesics, opioid/ or exp Codeine/ or Morphine derivatives/ or Morphine/ or exp Meperidine/ or Tramadol/ or Butorphanol/ or Nalbuphine/ or (Narcotic\$ or Opioid\$ or Codeine or Hydrocodone or Oxycodone or Percocet or Morphine or Meperidine or promedol or Tramadol or Butorphanol or Nalbuphine).ti,ab.	159496
75	(Butalbital or Fioricet or Fiorinal).ti,ab.	143
76	Ergotamines/ or Ergotamine/ or Dihydroergotamine/ or (dihydroergotamine or ergotamine\$).ti,ab.	4691
77	Sympathomimetics/ or (Sympathomimetic amine\$ or Isometheptene).ti,ab.	9605
78	Anesthetics, local/ or Administration, Topical/ or exp Lidocaine/ or exp bupivacaine/ or (lidocaine or bupivacaine or prilocaine).ti,ab. or ((anesthet\$ or anaesthet\$) adj3 topical\$).ti,ab.	99577
79	Antipsychotic agents/ or Antimanic agents/ or Chlorpromazine/ or Droperidol/ or Olanzapine/ or Lithium carbonate/ or (Antipsychotic\$ or anti-psychotic\$ or chlorpromazine or droperidol or olanzapine or antimanic or anti-manic or lithium).ti,ab.	115842

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80	Octreotide/ or Somatostatin/ad or (octreotide or somatostatin or Sandostatin\$.ti,ab.	33198
81	Magnesium/ or Magnesium sulfate/ or Magnesium.ti,ab.	95174
82	pharmacologic\$.ti.	51783
83	66 or 67 or 68 or 69 or 70 or 71 or 72 or 73 or 74 or 75 or 76 or 77 or 78 or 79 or 80 or 81 or 82	1194750
84	20 and 83	22
85	21 and 83	146
86	(primary or migrain\$ or tension or trigeminal autonomic cephalalgia\$ or cluster or paroxysmal hemicrania or sunct).ti.	348297
87	25 not 86	769
88	83 and 87	132

(migraine[tiab] OR headache[tiab]) OR (tension[tiab] OR cluster[tiab] OR "alice in wonderland syndrome"[tiab] OR Paroxysmal hemicrania[tiab] OR sunct[tiab] OR Trigeminal autonomic cephalalgia*[tiab]) AND headache[tiab]) OR (headache[tiab] AND (primary[tiab] OR secondary[tiab])) OR ((puncture[tiab] OR post-traumatic[tiab] OR vascular[tiab]) AND headache[tiab])

(pregnan*[ti] OR preconception*[tiab] OR pregnancy complication*[tiab] OR postpart*[tiab] OR postnat*[tiab] OR puerpar*[tiab] OR Obstet*[tiab] OR prenatal*[tiab] OR perinat*[tiab] OR breastfeed*[tiab] OR breast fed[tiab] OR lactat*[tiab] OR fetal growth[tiab] OR fertiliz*[tiab] OR ivf[tiab] OR In vitro fertiliz*[tiab] OR gestational age[tiab] OR gestation*[tiab] OR maternal behav*[tiab] OR maternal exposure*[tiab] OR maternal-fetal exchange[tiab] OR trimester*[tiab] OR perinat*[tiab] OR pregnan*[tiab] OR polycystic ovary syndrome[tiab] OR pcos[tiab]) AND english [la] AND (publisher [sb] OR inprocess [sb])

Headaches in Pregnancy – General search

Database(s): Embase 1996 to 2020 Week 27 (searched July 7, 2020, table created June 2021)

Line	Search	Results
1	exp headache/	188612
2	exp "headache and facial pain"	264349
3	headache\$.ti	24658
4	1 or 2 or 3	265022
5	exp primary headache/	2612
6	exp migraine/ or exp migraine aura/ or exp migraine with aura/ or exp migraine without aura/	54594
7	exp Alice in Wonderland syndrome/	169
8	migraine\$.ti.	25533
9	6 or 7 or 8	55272
10	exp tension headache/ or exp chronic tension headache/ or exp episodic tension headache/	6941
11	(tension\$ adj3 headache\$.ti.	1749
12	10 or 11	7018
13	exp trigeminal autonomic cephalalgia/	5337
14	exp cluster headache/	4677
15	exp paroxysmal hemicrania/	429
16	exp SUNCT syndrome/	520

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17	13 or 14 or 15 or 16	5337
18	(headache\$ adj3 (migraine or aura or tension or cluster or primary)).ti.	7051
19	4 or 9 or 12 or 17 or 18	265455
20	limit 19 to (human and english language)	237559
21	limit 20 to exclude medline journals	32157
22	exp secondary headache/	1200
23	exp postdural puncture headache/	1968
24	exp posttraumatic headache/	702
25	exp vascular headache/	226
26	exp brain tumor/	133741
27	exp hypertension/	607202
28	exp cerebrovascular disease/	562350
29	exp cerebrovascular accident/	204238
30	exp cerebral sinus thrombosis/	8103
31	exp maternal hypertension/	17327
32	exp posterior reversible encephalopathy syndrome/	4364
33	(headache\$ adj3 (infect\$ or malignan\$ or cancer\$ or neoplas\$ or tumor\$ or Tumour\$ or cerebrovascular or cerebro-vascular or strok\$ or venous sinus thrombosis or preeclamp\$ or pre-eclamp\$ or eclamp\$ or hellp\$ or hemolysis elevated liver or pres or posterior leukoencephalopathy syndrome)).ti.	210
34	(headache\$ adj3 (secondary or vascular or postdural or post dural or posttraumatic or post traumatic or post-traumatic or post-dural)).ti.	1415
35	22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32	1211260
36	4 and 35	67555
37	33 or 34 or 36	67957
38	limit 37 to (human and english language)	62237
39	limit 38 to exclude medline journals	9615
40	exp prepregnancy care/	1750
41	exp pregnancy/	429819
42	exp pregnancy complication/	94435
43	exp puerperal disorder/	34399
44	exp prenatal care/	115208
45	exp perinatal care/	53288
46	exp postnatal care/	96996
47	exp puerperium/	54054
48	(pregnan\$ or prenat\$ or postpart\$ or postnat\$ or preconcept\$ or perinat\$ or peurper\$ or obstet\$).ti.	293315
49	exp breast feeding/	43153
50	exp lactation/	35346
51	(breastfeed\$ or breastfed or breast feed\$ or breast fed or lactat\$).ti.	40138
52	exp fertilization/	25791
53	exp gestational age/	123349
54	exp maternal behavior/	10389
55	exp maternal exposure/	2421
56	exp fetomaternal transfusion/	3011
57	exp first trimester pregnancy/ or exp third trimester pregnancy/ or exp second trimester pregnancy/	68812
58	exp ovary polycystic disease/	24338
59	exp in vitro fertilization/	61334

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60	(fetal growth or gestational age or trimester or polycystic ovary syndrome or pcos or ivf or in vitro fertilization or insemination or maternal fetal exchange).ti.	55784
61	or/40-60	892626
62	limit 61 to (human and english language)	658906
63	limit 62 to exclude medline journals	59757
64	21 and 63	1510
65	limit 64 to yr="2019 -Current"	201
66	limit 64 to yr="2000-2018"	1287
67	39 and 63	601
68	limit 67 to yr="2000-current"	593

Cochrane search – Headaches and Pregnancy (BDS)

Search Name: Headaches and pregnancy

Last Saved: 08/07/2020 15:52:46

Comment:

- | ID | Search |
|-----|--|
| #1 | pregnan*:ti |
| #2 | obstetric*:ti |
| #3 | prenat*:ti |
| #4 | postnat*:ti |
| #5 | MeSH descriptor: [Pregnancy] this term only |
| #6 | MeSH descriptor: [Prenatal Care] this term only |
| #7 | MeSH descriptor: [Perinatal Care] this term only |
| #8 | MeSH descriptor: [Pregnancy Complications] explode all trees |
| #9 | MeSH descriptor: [Postpartum Period] explode all trees |
| #10 | breast feeding:ti |
| #11 | MeSH descriptor: [Breast Feeding] this term only |
| #12 | "fetal growth":ti |
| #13 | trimester:ti |
| #14 | lactation:ti |
| #15 | polycystic ovary syndrome:ti |
| #16 | IVF:ti |
| #17 | "In Vitro Fertilization":ti |
| #18 | insemination:ti |
| #19 | #1 or #2 or #3 or #4 or #5 or #6 or #7 or #8 or #9 #10 or #11 or #12 or #13 or #14 or #15 or #16 or #17 or #18 |
| #20 | migraine*:ti |
| #21 | MeSH descriptor: [Migraine Disorders] this term only |
| #22 | MeSH descriptor: [Tension-Type Headache] this term only |
| #23 | MeSH descriptor: [Cluster Headache] this term only |
| #24 | headache:ti |
| #25 | MeSH descriptor: [Headache] this term only |
| #26 | MeSH descriptor: [Headache Disorders, Primary] this term only |
| #27 | MeSH descriptor: [Headache Disorders, Secondary] this term only |
| #28 | MeSH descriptor: [Alice in Wonderland Syndrome] this term only |
| #29 | MeSH descriptor: [Trigeminal Autonomic Cephalalgias] this term only |
| #30 | MeSH descriptor: [SUNCT Syndrome] this term only |
| #31 | MeSH descriptor: [Post-Traumatic Headache] this term only |

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#32 #20 or #21 or #22 or #23 or #24 or #25 or #26 or #27 or #28 or #29 or #30 or #31
#33 # 19 and #32
#34 "tricyclic antidepressants"
#35 amitriptyline
#36 nortriptyline
#37 imipramine
#38 "beta blockers"
#39 metoprolol
#40 propranolol
#41 nadolol
#42 atenolol
#43 timolol
#44 nebivolol
#45 "calcium channel blockers"
#46 verapamil
#47 nimodipine
#48 nifedipine
#49 nicardipine
#50 lisinopril
#51 candesartan
#52 antiepileptic*
#53 "divalproex sodium"
#54 "valproic acid"
#55 "sodium valproate"
#56 topiramate
#57 carbamazepine
#58 lamotrigine
#59 gabapentin
#60 venlafaxine
#61 duloxetine
#62 serotonin
#63 norepinephrine
#64 #62 or #63
#65 "reuptake inhibitor"
#66 #64 and #65
#67 benzodiazepines
#68 clonazepam
#69 NMDA
#70 receptor
#71 #69 or #70
#72 inhibitor
#73 antagonist
#74 #72 or #73
#75 #71 or #74
#76 memantine
#77 CGRP
#78 inhibitor
#79 antagonist
#80 #78 or #79
#81 #77 and #80
#82 erenumab
#83 fremanezumab

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- #84 galcanezumab
- #85 riboflavin
- #86 "coenzyme Q10"
- #87 melatonin
- #88 feverfew
- #89 "herbal supplement"
- #90 butterbur
- #91 frankincense
- #92 cannabidiol
- #93 cyproheptadine
- #94 acetaminophen
- #95 paracetamol
- #96 nonsteroidal
- #97 antiinflammatory
- #98 anti-inflammatory
- #99 #97 or #98
- #100 #96 and #99
- #101 NSAID
- #102 Excedrine
- #103 ibuprofen
- #104 naproxen
- #105 aspirin
- #106 celecoxib
- #107 ketorolac
- #108 indomethacin
- #109 ketoprofen
- #110 diclofenac
- #111 "mefenamic acid"
- #112 midrin
- #113 isometheptene
- #114 dichloralphenazone
- #115 Antimetics
- #116 metolopramide
- #117 Antihistamines
- #118 meclizine
- #119 dimenhydrinate
- #120 diphenhydramine
- #121 promethazine
- #122 prochlorperazine
- #123 CNS
- #124 "central nervous system"
- #125 #123 or #124
- #126 stimulant
- #127 #125 and #126
- #128 caffeine
- #129 "muscle relaxant"
- #130 baclofen
- #131 cyclobenzaprine
- #132 tizanidine
- #133 metaxolone
- #134 carisoprodol
- #135 "neuromuscular block"

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#136 onabotulinumtoxinA
#137 botox
#138 AbobotulinumtoxinA
#139 dysport
#140 magnesium
#141 corticosteroids
#142 methylprednisolone
#143 triamcinolone
#144 prednisolone
#145 prednisone
#146 prednisone
#147 triptans
#148 sumatriptan
#149 frovatriptan
#150 naratriptan
#151 rizatriptan
#152 almotriptan
#153 eletriptan
#154 zolmitriptan
#155 narcotics
#156 opioids
#157 codeine
#158 nalbuphine
#159 butorphanol
#160 hydrocodone
#161 oxycodone
#162 morphine
#163 meperidine
#164 tramadol
#165 fioricet
#166 fiorinal
#167 butalbital
#168 dihydroergotamine
#169 ergotamine
#170 5HT3
#171 inhibitor
#172 antagonist
#173 #171 or #172
#174 #170 and #173
#175 ondansetron
#176 "sympathomimetic amine"
#177 isometheptene
#178 "topical anesthetics"
#179 lidocaine
#180 bupivacaine
#181 antipsychotics
#182 chlorpromazine
#183 droperidol
#184 olanzapine
#185 antimanic
#186 lithium
#187 "tetracyclic antidepressant"

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- #188 mirtazapine
- #189 "somatostatin analog"
- #190 octreotide
- #191 #34 or #35 or 1#16 or #37 or #38 0 1 2 3 4 5 6 7 8 9 or #49 or #50 or #51 or #52 or #53 or #54 or #55 or #56 or #57 or #58 or #59 or #60 or #61 or #66 or #67 or #68 or #69 or #70 or #71 or #72 or #73 or #74 or #75 or #76 or #77 or #81 or #82 or #83 or #84 or #85 or #86 or #87 or #88 or 7#90 or #91 or #92 or #93 or #94 or #95 or #100 or #101 or #102 or #103 or #104 or #105 or #106 or #107 or #108 or #109 or #110 or #111 or #112 or #113 or #114 or #115 or #116 or #117 or #118 or #119 or #120 or #121 or #122 or #127 or #128 or #129 or #130 or #131 or #132 or #133 or #134 or #135 or #136 or #137 or #138 or #139 or #140 or #141 or #142 or #143 or #144 or #145 or #146 or 18 or #148 or #149 or #150 or #151 or #152 or #153 or #154 or #155 or #156 or #157 or #158 or #159 or #160 or #161 or #162 or #163 or #164 or #165 or #166 or 1#67 or #168 or #169 or #174 or #175 or #176 or #177 or #178 or #179 or #180 or #181 or #182 or #183 or #184 or #185 or #186 or #187 or #188 or #189
- #192 birth defect
- #193 congenital abnormality
- #194 pharmacokinetic*
- #195 pharmacodynamic*
- #196 "breast milk"
- #197 "human milk"
- #198 "fetal blood"
- #199 "cord blood"
- #200 "amniotic fluid"
- #201 (adverse or undesirable or harm or harms or harmful or toxic or injurious or serious or fetal)
- #202 (effect* or reaction* or event* or outcome* or incident*)
- #203 #201 and #202
- #204 #187 or #188 or #189 or #190 or 1#91 or #192 or #193 or #194 or #195 or #198 or #199 or #200 or #203
- #205 "fetal growth"
- #206 "gestational age"
- #207 postpartum
- #208 pregnancy
- #209 pregnant
- #210 trimester
- #211 lactation
- #212 #205 or #206 or #207 or #208 or #209 or #210 or #211
- #213 #191 and #204 and #212
- #214 #32 and #213
- #215 #33 or #214

CPG Headache in Pregnancy Bridge Search 2020-2021 December 2021

Ovid MEDLINE(R) <1946 to November Week 4 2021>

1	Headache/ or Headache disorders/	31457
2	Migraine disorders/ or Alice in wonderland syndrome/ or Migraine with aura/ or Migraine without aura/ or migraine\$.ti.	29483
3	Tension-type headache/ or (tension\$ adj3 headache\$.ti.	2467
4	Trigeminal autonomic cephalalgias/ or Cluster headache/ or Paroxysmal hemicrania/ or SUNCT syndrome/	3124
5	(headache\$ adj3 (migraine or aura or tension or cluster or primary)).ti,ab.	14124
6	Headache disorders, primary/	893
7	2 or 3 or 4 or 5 or 6	37647

SUPPLEMENTAL DIGITAL CONTENT
APPENDIX A. LITERATURE SEARCH STRATEGY

ACOG CLINICAL PRACTICE GUIDELINE NUMBER 3
 HEADACHES IN PREGNANCY AND POSTPARTUM

8	Headache disorders, secondary/ or Post-dural puncture headache/ or Post-traumatic headache/ or Vascular headaches/	3159
9	brain neoplasms/ or hypertension/ or exp Cerebrovascular Disorders/ or exp Stroke/ or Sinus Thrombosis, Intracranial/ or exp Hypertension, Pregnancy-Induced/ or Posterior Leukoencephalopathy Syndrome/	770812
10	1 and 9	5622
11	(headache\$ adj3 (infect\$ or malignan\$ or cancer\$ or neoplas\$ or cerebrovascular or cerebro-vascular or stroke\$ or venous sinus thrombosis or preeclamp\$ or pre-eclamp\$ or eclamp\$ or hellp\$ or hemolysis elevated liver or pres or posterior reversible encephalopathy syndrome)).ti,ab.	998
12	(headache\$ adj3 (secondary or vascular or postdural or post dural or posttraumatic or post traumatic or post-dural or post-traumatic)).ti,ab.	3124
13	8 or 10 or 11 or 12	10962
14	preconception care/ or pregnancy/ or exp pregnancy complications/ or exp Postpartum Period/ or postnatal care/ or exp puerperal disorders/ or prenatal care/ or perinatal care/ or breast feeding/ or Lactation/ or Fertilization/ or Gestational age/ or Maternal behavior/ or Maternal exposure/ or Maternal-fetal exchange/ or Pregnancy trimesters/ or Polycystic ovary syndrome/ or Fertilization in vitro/	1085368
15	(pregnan\$ or prenat\$ or postpart\$ or postnat\$ or preconcept\$ or perinat\$ or obstet\$ or fetal growth or gestational age or trimester or polycystic ovary syndrome or ivf or in vitro fertilization or insemination or pcos or breastfeed\$ or breastfed or breast feed\$ or breast fed or lactat\$).ti.	443633
16	14 or 15	1143722
17	1 or 7 or 13	64768
18	16 and 17	2055
19	limit 18 to (english language and humans)	1737
20	limit 19 to yr="2020 -Current"	117

Butalbital in non-pregnant people

Database: Ovid MEDLINE(R) <1946 to January Week 4 2022> (searched February 3, 2022)

1	Headache/ or Headache disorders/	31754
2	Migraine disorders/ or Alice in wonderland syndrome/ or Migraine with aura/ or Migraine without aura/ or migraine\$.ti.	29948
3	Tension-type headache/ or (tension\$ adj3 headache\$).ti.	2493
4	Trigeminal autonomic cephalalgias/ or Cluster headache/ or Paroxysmal hemicrania/ or SUNCT syndrome/	3161
5	(headache\$ adj3 (migraine or aura or tension or cluster or primary)).ti,ab.	14379
6	Headache disorders, primary/	922
7	2 or 3 or 4 or 5 or 6	38234
8	Headache disorders, secondary/ or Post-dural puncture headache/ or Post-traumatic headache/ or Vascular headaches/	3219
9	brain neoplasms/ or hypertension/ or exp Cerebrovascular Disorders/ or exp Stroke/ or Sinus Thrombosis, Intracranial/ or exp Hypertension, Pregnancy-Induced/ or Posterior Leukoencephalopathy Syndrome/	778880
10	1 and 9	5652
11	(headache\$ adj3 (infect\$ or malignan\$ or cancer\$ or neoplas\$ or cerebrovascular or cerebro-vascular or stroke\$ or venous sinus thrombosis or preeclamp\$ or pre-eclamp\$ or eclamp\$ or hellp\$ or hemolysis elevated liver or pres or posterior reversible encephalopathy syndrome)).ti,ab.	1013

SUPPLEMENTAL DIGITAL CONTENT
APPENDIX A. LITERATURE SEARCH STRATEGY

ACOG CLINICAL PRACTICE GUIDELINE NUMBER 3
 HEADACHES IN PREGNANCY AND POSTPARTUM

12	(headache\$ adj3 (secondary or vascular or postdural or post dural or posttraumatic or post traumatic or post-dural or post-traumatic)).ti,ab.	3192
13	8 or 10 or 11 or 12	11086
14	7 or 13	46347
15	limit 14 to (english language and humans)	38226
16	butalbital\$.mp.	156
17	(Alagesic or Americet or Anolor or Anoquan or Arcet or Axocet or Axotal or Bucet or Bupap or Cafergot-PB or Cephadyn or Dolgic or Dolmar or Endolor or Esgic\$ or Ezol or Farbital or Femcet or Fioricet\$ or Fiorpap or Fiorinal\$ or Fiormor or Fiortal or Fortabs or Ide-cet or Idenal or Isocet or Isollyl or Laniroif or Lanorinal or Margesic or Medigesic or Minotal or Mygracet or Nonbac or Orbivan or Pacaps or Pharmagesic or Phrenilin or Quala-Cet or Repan or Sedapap or Tenake or Tencet or Two-Dyne or Zebutal).mp.	168
18	16 or 17	308
19	15 and 18	74
20	((Acetaminophen or paracetamol) and Butalbital and Caffeine) or (Aspirin and Butalbital and Caffeine)).ti,ab.	24
21	butalbital\$.ti.	42
22	19 or 20 or 21	105
23	(pregnan\$ or prenat\$ or postpart\$ or postnat\$ or preconcept\$ or perinat\$ or obstet\$ or fetal growth or gestational age or trimester or breastfeed\$ or breastfed or breast feed\$ or breast fed or lactat\$ or matern\$).ti.	488915
24	22 not 23	98
25	limit 24 to (english language and humans)	88
26	limit 25 to yr="2000 -Current"	58

Butalbital

Database: PubMed (searched February 3, 2022)

Line	Search	Results
1	(migraine*[tiab] OR headache*[tiab]) AND butalbital*[tiab]	75
2	butalbital*[ti]	44
3	#1 OR #2	101
4	english[la] AND (publisher[sb] OR inprocess[sb] OR pubmednotmedline[sb] OR (pubstatusnihms AND publisher[sb]) OR (pubstatuspmcsd AND publisher[sb]))	4,604,768
5	#3 AND #4	6

Headaches in Pregnancy search update (systematic reviews, meta-analyses, and RCTs only)

Database: Ovid MEDLINE(R) <1946 to January Week 4 2022> (searched February 3, 2022)

Line	Search	Results
1	Headache/ or Headache disorders/	31754
2	Migraine disorders/ or Alice in wonderland syndrome/ or Migraine with aura/ or Migraine without aura/ or migraine\$.ti.	29948
3	Tension-type headache/ or (tension\$ adj3 headache\$).ti.	2493
4	Trigeminal autonomic cephalalgias/ or Cluster headache/ or Paroxysmal hemicrania/ or SUNCT syndrome/	3161

SUPPLEMENTAL DIGITAL CONTENT
APPENDIX A. LITERATURE SEARCH STRATEGY

ACOG CLINICAL PRACTICE GUIDELINE NUMBER 3
HEADACHES IN PREGNANCY AND POSTPARTUM

5	(headache\$ adj3 (migraine or aura or tension or cluster or primary)).ti,ab.	14379
6	Headache disorders, primary/	922
7	2 or 3 or 4 or 5 or 6	38234
8	Headache disorders, secondary/ or Post-dural puncture headache/ or Post-traumatic headache/ or Vascular headaches/	3219
9	brain neoplasms/ or hypertension/ or exp Cerebrovascular Disorders/ or exp Stroke/ or Sinus Thrombosis, Intracranial/ or exp Hypertension, Pregnancy-Induced/ or Posterior Leukoencephalopathy Syndrome/	778880
10	1 and 9	5652
11	(headache\$ adj3 (infect\$ or malignan\$ or cancer\$ or neoplas\$ or cerebrovascular or cerebro-vascular or stroke\$ or venous sinus thrombosis or preeclamp\$ or pre-eclamp\$ or eclamp\$ or hellp\$ or hemolysis elevated liver or pres or posterior reversible encephalopathy syndrome)).ti,ab.	1013
12	(headache\$ adj3 (secondary or vascular or postdural or post dural or posttraumatic or post traumatic or post-dural or post-traumatic)).ti,ab.	3192
13	8 or 10 or 11 or 12	11086
14	preconception care/ or pregnancy/ or exp pregnancy complications/ or exp Postpartum Period/ or postnatal care/ or exp puerperal disorders/ or prenatal care/ or perinatal care/ or breast feeding/ or Lactation/ or Fertilization/ or Gestational age/ or Maternal behavior/ or Maternal exposure/ or Maternal-fetal exchange/ or Pregnancy trimesters/ or Polycystic ovary syndrome/ or Fertilization in vitro/	1095657
15	(pregnan\$ or prenat\$ or postpart\$ or postnat\$ or preconcept\$ or perinat\$ or obstet\$ or fetal growth or gestational age or trimester or polycystic ovary syndrome or ivf or in vitro fertilization or insemination or pcos or breastfeed\$ or breastfed or breast feed\$ or breast fed or lactat\$).ti.	448496
16	14 or 15	1154408
17	1 or 7 or 13	65542
18	16 and 17	2088
19	limit 18 to (english language and humans)	1764
20	limit 19 to yr="2021 -Current"	84
21	(meta analys\$3 or metaanalys\$3 or systematic review\$1).mp.	324080
22	(meta-analysis or metaanalysis or "meta analysis" or systematic review\$1 or systematic overview or collaborative review or collaborative overview or quantitative review or quantitative overview or quantitative synthesis).ti.	200147
23	meta analysis as topic/	20729
24	(meta analysis or systematic review).pt.	252666
25	21 or 22 or 23 or 24	324379
26	Randomized controlled trials/ or exp clinical trials as topic/ or Cross-over studies/ or double-blind method/ or Matched-pair analysis/ or Random allocation/ or placebos/ or Pragmatic Clinical Trials as Topic/	650110
27	(randomized controlled trial or clinical trial or pragmatic clinical trial).pt.	875629
28	(randomi\$ or research integration or research overview or meta-regression or metaregression or mega-regression or megaregression or integrative review or integrative overview).ti.	211461
29	((controlled adj20 trial\$) or (clinical adj20 trial\$)).ti,ab.	617662
30	(placebo\$1 or random allocat\$ or cross-over studies or matched-pair\$1).mp.	375269
31	((singl\$ or doubl\$ or treb\$ or tripl\$) adj20 (blind\$ or mask\$)).mp.	243816
32	26 or 27 or 28 or 29 or 30 or 31	1594620
33	32 not ("non-randomized controlled trials as topic"/ or non-randomi\$.ti.)	1592375
34	33 not 25	1473854

SUPPLEMENTAL DIGITAL CONTENT
APPENDIX A. LITERATURE SEARCH STRATEGY

ACOG CLINICAL PRACTICE GUIDELINE NUMBER 3
 HEADACHES IN PREGNANCY AND POSTPARTUM

35	20 and 25	7
36	20 and 34	6
1	Headache/ or Headache disorders/	31754
2	Migraine disorders/ or Alice in wonderland syndrome/ or Migraine with aura/ or Migraine without aura/ or migraine\$.ti.	29948
3	Tension-type headache/ or (tension\$ adj3 headache\$.ti.	2493
4	Trigeminal autonomic cephalalgias/ or Cluster headache/ or Paroxysmal hemicrania/ or SUNCT syndrome/	3161
5	(headache\$ adj3 (migraine or aura or tension or cluster or primary)).ti,ab.	14379
6	Headache disorders, primary/	922
7	2 or 3 or 4 or 5 or 6	38234
8	Headache disorders, secondary/ or Post-dural puncture headache/ or Post-traumatic headache/ or Vascular headaches/	3219
9	brain neoplasms/ or hypertension/ or exp Cerebrovascular Disorders/ or exp Stroke/ or Sinus Thrombosis, Intracranial/ or exp Hypertension, Pregnancy-Induced/ or Posterior Leukoencephalopathy Syndrome/	778880
10	1 and 9	5652
11	(headache\$ adj3 (infect\$ or malignan\$ or cancer\$ or neoplas\$ or cerebrovascular or cerebro-vascular or stroke\$ or venous sinus thrombosis or preeclamp\$ or pre-eclamp\$ or eclamp\$ or hellp\$ or hemolysis elevated liver or pres or posterior reversible encephalopathy syndrome)).ti,ab.	1013
12	(headache\$ adj3 (secondary or vascular or postdural or post dural or posttraumatic or post traumatic or post-dural or post-traumatic)).ti,ab.	3192
13	8 or 10 or 11 or 12	11086
14	preconception care/ or pregnancy/ or exp pregnancy complications/ or exp Postpartum Period/ or postnatal care/ or exp puerperal disorders/ or prenatal care/ or perinatal care/ or breast feeding/ or Lactation/ or Fertilization/ or Gestational age/ or Maternal behavior/ or Maternal exposure/ or Maternal-fetal exchange/ or Pregnancy trimesters/ or Polycystic ovary syndrome/ or Fertilization in vitro/	1095657
15	(pregnan\$ or prenatal\$ or postpart\$ or postnat\$ or preconcept\$ or perinat\$ or obstet\$ or fetal growth or gestational age or trimester or polycystic ovary syndrome or ivf or in vitro fertilization or insemination or pcos or breastfeed\$ or breastfed or breast feed\$ or breast fed or lactat\$.ti.	448496
16	14 or 15	1154408
17	1 or 7 or 13	65542
18	16 and 17	2088
19	limit 18 to (english language and humans)	1764
20	limit 19 to yr="2021 -Current"	84
21	(meta analys\$3 or metaanalysis\$3 or systematic review\$1).mp.	324080
22	(meta-analysis or metaanalysis or "meta analysis" or systematic review\$1 or systematic overview or collaborative review or collaborative overview or quantitative review or quantitative overview or quantitative synthesis).ti.	200147
23	meta analysis as topic/	20729
24	(meta analysis or systematic review).pt.	252666
25	21 or 22 or 23 or 24	324379
26	Randomized controlled trials/ or exp clinical trials as topic/ or Cross-over studies/ or double-blind method/ or Matched-pair analysis/ or Random allocation/ or placebos/ or Pragmatic Clinical Trials as Topic/	650110
27	(randomized controlled trial or clinical trial or pragmatic clinical trial).pt.	875629

SUPPLEMENTAL DIGITAL CONTENT
APPENDIX A. LITERATURE SEARCH STRATEGY

ACOG CLINICAL PRACTICE GUIDELINE NUMBER 3
 HEADACHES IN PREGNANCY AND POSTPARTUM

28	(randomi\$ or research integration or research overview or meta-regression or metaregression or mega-regression or megaregression or integrative review or integrative overview).ti.	211461
29	((controlled adj20 trial\$) or (clinical adj20 trial\$)).ti,ab.	617662
30	(placebo\$1 or random allocat\$ or cross-over studies or matched-pair\$1).mp.	375269
31	((singl\$ or doubl\$ or treb\$ or tripl\$) adj20 (blind\$ or mask\$)).mp.	243816
32	26 or 27 or 28 or 29 or 30 or 31	1594620
33	32 not ("non-randomized controlled trials as topic"/ or non-randomi\$.ti.)	1592375
34	33 not 25	1473854
35	20 and 25	7
36	20 and 34	6

Headaches in Pregnancy – update

Database: PubMed (searched February 3, 2022)

Line	Search	Results
1	(migraine*[ti] OR headache*[ti]) OR ((tension[tiab] OR cluster[tiab] OR "alice in wonderland syndrome"[tiab] OR Paroxysmal hemicrania[tiab] OR sunct[tiab] OR Trigeminal autonomic cephalalgia*[tiab]) AND headache[tiab]) OR (headache[tiab] AND (primary[tiab] OR secondary[tiab])) OR ((puncture[tiab] OR post-traumatic[tiab] OR vascular[tiab]) AND headache[tiab])	58,436
2	breast fed[tiab] OR breastfeed*[tiab] OR fetal growth[tiab] OR gestation*[tiab] OR gestational age[tiab] OR In vitro fertili*[tiab] OR ivf[tiab] OR lactat*[tiab] OR matern*[ti] OR maternal behav*[tiab] OR maternal exposure*[tiab] OR maternal-fetal exchange[tiab] OR Obstet*[tiab] OR pcos[tiab] OR perinat*[tiab] OR polycystic ovar*[tiab] OR postnat*[tiab] OR postpart*[tiab] OR preconcept*[tiab] OR pregnan*[ti] OR pregnancy complication*[tiab] OR prenatal*[tiab] OR puerper*[tiab] OR trimester*[tiab]	1,046,697
3	#1 AND #2	1,371
4	english[la] AND (publisher[sb] OR inprocess[sb] OR pubmednotmedline[sb] OR (pubstatusnihms AND publisher[sb]) OR (pubstatuspmcsd AND publisher[sb]))	4,604,768
5	#3 AND #4	188
6	#3 AND #4 from 2021 – 2022	46
7	meta analysis[tiab] OR meta-analysis[tiab] OR systematic review[tiab] OR quantitative review[tiab] OR quantitative overview[tiab] OR randomized controlled[tiab] OR randomized control[tiab] OR randomised controlled[tiab] OR randomised control[tiab] OR clinical trial[tiab]	668,883
8	#6 AND #7	3