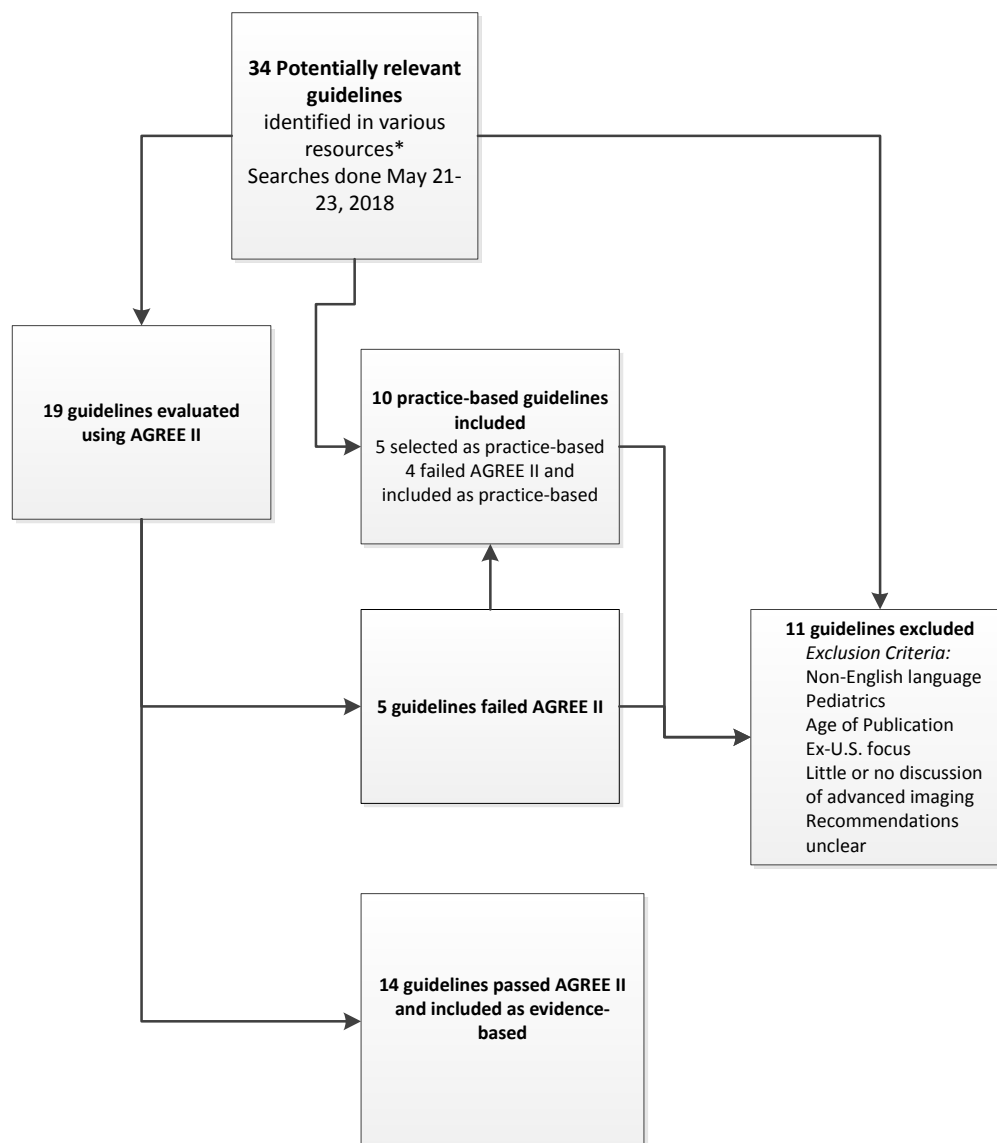


Evidence Process for MS Guideline Research

7/10/2018

Guideline Review using ADAPTE method and AGREE II instrument



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*Information Resources:

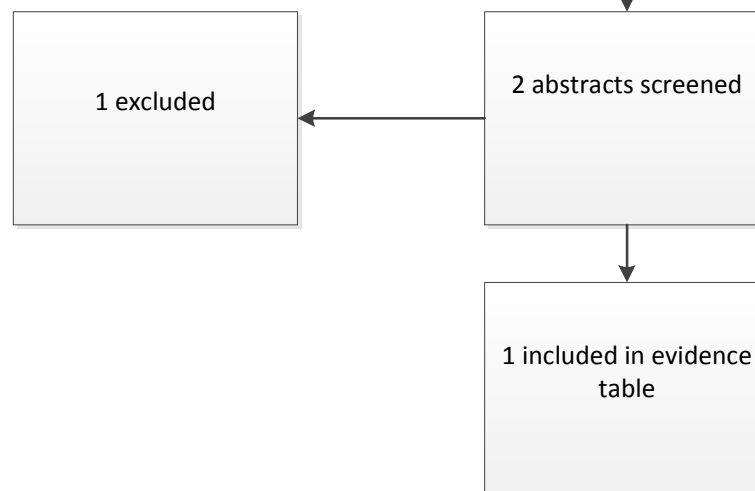
Ovid Medline, NCBI PubMed, National Guideline Clearinghouse, Guidelines International Network, TRIP Database, Choosing Wisely, Cochrane Database, Agency for Healthcare Research and Quality, and numerous specialty society websites
Additional Internet and bibliographic searches were performed for all phases of research

Evidence Process for MS Guideline Research

7/10/2018

6/12/2018 Ovid Medline Search 1 – Clinically Isolated Syndrome

1. ("clinically isolated syndrome" or "clinically isolated syndromes").mp.
2. (demyelination or "clinically isolated cns demyelinating syndrome" or "clinically isolated syndrome, cns demyelinating" or "demyelinating disease" or "demyelinating diseases" or "demyelinating disorder" or "demyelinating disorders" or "demyelination" or "demyelinations").mp. or exp demyelinating diseases/
3. optic neuritis.mp. or exp Optic Neuritis/ or ("anterior optic neuritides" or "anterior optic neuritis" or "neuritides, anterior optic" or "neuritides, optic" or "neuritides, posterior optic" or "neuritides, retrobulbar" or "neuritis, anterior optic" or "neuritis, optic" or "neuritis, posterior optic" or "neuritis, retrobulbar" or "neuropapillitis" or "neuropapillitis" or "optic neuritides" or "optic neuritides, anterior" or "optic neuritides, posterior" or "optic neuritis" or "optic neuritis, anterior" or "optic neuritis, posterior" or "posterior optic neuritides" or "posterior optic neuritis" or "retrobulbar neuritides" or "retrobulbar neuritis" or ("devic disease" or "devic neuromyelitis optica" or "devic neuromyelitis opticas" or "devic syndrome" or "devic's disease" or "devic's neuromyelitis optica" or "devic's syndrome" or "devics disease" or "devics neuromyelitis optica" or "devics syndrome" or "disease, devic" or "disease, devic's" or "nmo spectrum disorder" or "nmo spectrum disorders" or "neuromyelitis optica" or "neuromyelitis optica (nmo) spectrum disorder" or "neuromyelitis optica (nmo) spectrum disorders" or "neuromyelitis optica, devic" or "neuromyelitis optica, devic's" or "neuromyelitis optica spectrum disorder" or "neuromyelitis optica spectrum disorders" or "neuromyelitis opticas, devic" or "syndrome, devic" or "syndrome, devic's").mp.
4. (myelopath* and (symptom* or sign or manifestation or indication)).mp. or exp Spinal Cord Diseases/ or ("myelopathies" or "myelopathy" or "spinal cord disease" or "spinal cord diseases" or "spinal cord disorder" or "spinal cord disorders").mp.
5. (("brain stem" or "brain stems" or "brainstem" or "brainstems" or "cerebri, truncus" or "cerebrus, truncus" or "truncus cerebri" or "truncus cerebrus") and (symptoms or manifestations or signs or indications)).mp.
6. (systemati* review or (meta analysis or metaanalysis or meta-analysis)).mp.
7. exp Diagnostic Imaging/ or Nuclear Medicine/ or Tomography, X-Ray Computed/ or Magnetic Resonance Imaging/ or (compute* tomography or CTA or MRI or MRA or magnetic resonance or imaging or neuroimaging or scintigraphy or HDP or MDP or 99mTc or SPECT or nuclear medicine or Ga-67 or Tc-99m or CT or DECT or PET).mp.
8. (1 or 2 or 3 or 4 or 5) and 6 and 7
9. limit 8 to (english language and humans and yr="2014 -Current")
10. remove duplicates from 9
- 110 results



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*Information Resources:

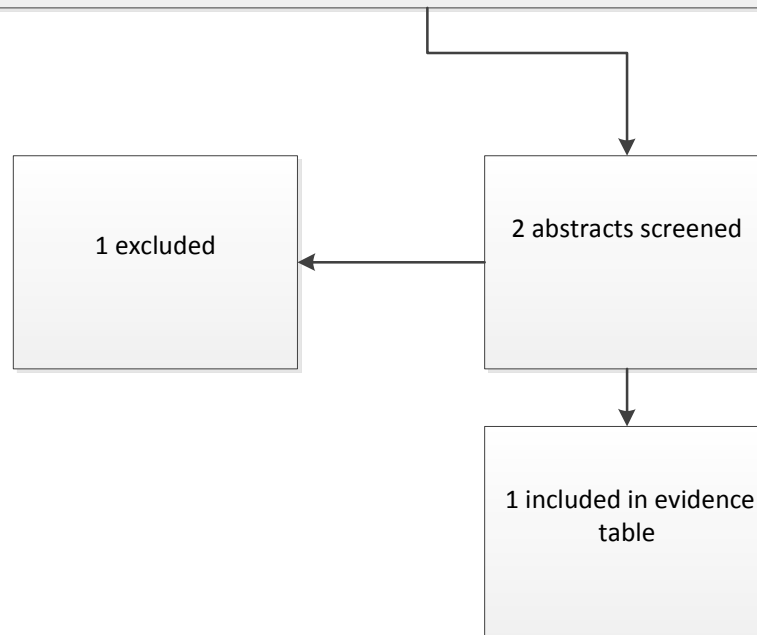
Ovid Medline, NCBI PubMed, National Guideline Clearinghouse, Guidelines International Network, TRIP Database, Choosing Wisely, Cochrane Database, Agency for Healthcare Research and Quality, and numerous specialty society websites
Additional Internet and bibliographic searches were performed for all phases of research

Evidence Process for MS Guideline Research

7/10/2018

6/13/2018 Search 2 – Surveillance of suspected MS not meeting radiological criteria

1. exp Multiple Sclerosis/dg or ("disseminated sclerosis" or "ms (multiple sclerosis)" or "multiple sclerosis" or "multiple sclerosis, acute fulminating" or "sclerosis, disseminated" or "sclerosis, multiple" or "clinically isolated syndrome" or "clinically isolated syndromes").mp.
 2. ("diagnostic surveillance" or diagnos* or surveil* or detect* or "patient monitoring" or "disease progression").mp.
 3. (systemati* review or (meta analysis or metaanalysis or meta-analysis)).mp.
 4. 1 and 2 and 3
 5. limit 4 to (english language and humans and yr="2014 -Current")
 6. remove duplicates from 5
- 155 results, 119 when duplicates from previous search results removed



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*Information Resources:

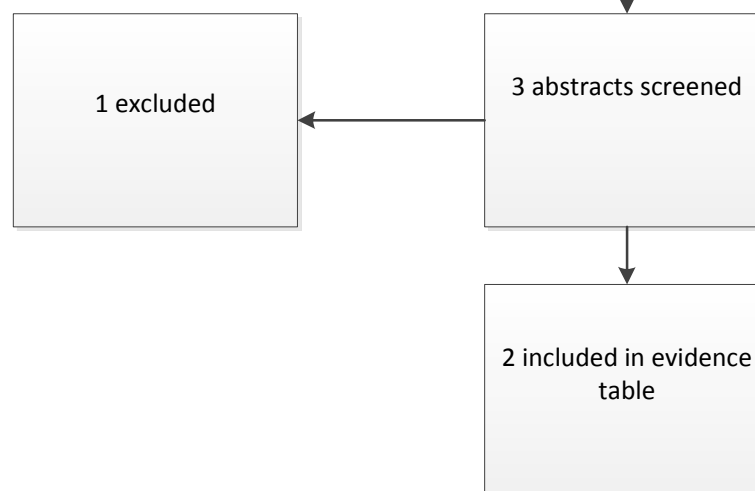
Ovid Medline, NCBI PubMed, National Guideline Clearinghouse, Guidelines International Network, TRIP Database, Choosing Wisely, Cochrane Database, Agency for Healthcare Research and Quality, and numerous specialty society websites
Additional Internet and bibliographic searches were performed for all phases of research

Evidence Process for MS Guideline Research

7/10/2018

6/13/2018 Search 3 – Known MS or NMO with new or recurrent neurological symptoms (MS flare)

1. ("neuromyelitis optica" or "NMOSD" or "NMO" or "devic disease" or "devic neuromyelitis optica" or "devic neuromyelitis opticas" or "devic syndrome" or "devic's disease" or "devic's neuromyelitis optica" or "devic's syndrome" or "devic's disease" or "devic's neuromyelitis optica" or "devic's syndrome" or "disease, devic" or "disease, devic's" or "nmo spectrum disorder" or "nmo spectrum disorders" or "neuromyelitis optica (nmo) spectrum disorder" or "neuromyelitis optica (nmo) spectrum disorders" or "neuromyelitis optica, devic" or "neuromyelitis optica, devic's" or "neuromyelitis optica spectrum disorder" or "neuromyelitis optica spectrum disorders" or "neuromyelitis opticas, devic" or "syndrome, devic" or "syndrome, devic's").mp.
 2. exp Multiple Sclerosis/dg or ("disseminated sclerosis" or "ms (multiple sclerosis)" or "multiple sclerosis" or "multiple sclerosis, acute fulminating" or "sclerosis, disseminated" or "sclerosis, multiple").mp.
 3. ("flare" or "flares" or "flare-up" or "flare-ups" or "attack" or "attacks" or "exacerbation" or "exacerbations" or "recrudescence" or "recrudescences" or "recurrence" or "recurrences" or "relapse" or "relapses" or "acute symptom flare" or "acute symptom flares" or "flare, acute symptom" or "flare up, symptom" or "flare ups, symptom" or "flare-up, symptom" or "flare-ups, symptom" or "flares, acute symptom" or "flareup, symptom" or "flareups, symptom" or "flaring up, symptom" or "flaring ups, symptom" or "symptom flare, acute" or "symptom flare up" or "symptom flare ups" or "symptom flare-up" or "symptom flare-ups" or "symptom flares, acute" or "symptom flareup" or "symptom flareups" or "symptom flaring up" or "symptom flaring ups").mp.
 4. (systemati* review or (meta analysis or metaanalysis or meta-analysis)).mp.
 5. (1 or 2) and 3 and 4
 6. limit 5 to (english language and humans and yr="2014 -Current")
 7. remove duplicates from 6
- 66 results, 30 results after duplicates from earlier searches removed



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*Information Resources:

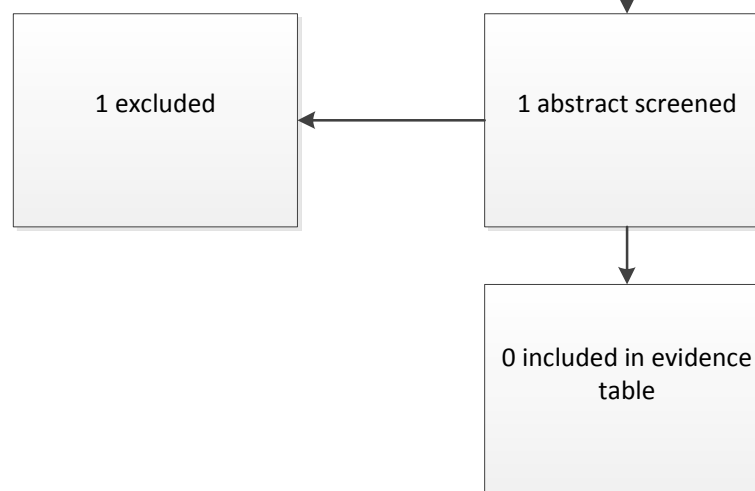
Ovid Medline, NCBI PubMed, National Guideline Clearinghouse, Guidelines International Network, TRIP Database, Choosing Wisely, Cochrane Database, Agency for Healthcare Research and Quality, and numerous specialty society websites
Additional Internet and bibliographic searches were performed for all phases of research

Evidence Process for MS Guideline Research

7/10/2018

6/13/2018 Search 4 – Monitoring of response to treatment in patients with known MS

1. exp Multiple Sclerosis/ or ("disseminated sclerosis" or "ms (multiple sclerosis)" or "multiple sclerosis" or "multiple sclerosis, acute fulminating" or "sclerosis, disseminated" or "sclerosis, multiple").mp.
 2. (treatment* or therapeut* or therap* or pharmacotherap* or drug or "DMT").mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
 3. (response* or respond* or effect* or efficacy or effective* or outcome).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
 4. (monitor* or measur* or surveil* or evaluat* or detect*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
 5. exp Diagnostic Imaging/ or Nuclear Medicine/ or Tomography, X-Ray Computed/ or Magnetic Resonance Imaging/ or (compute* tomography or CTA or MRI or MRA or magnetic resonance or imaging or neuroimaging or scintigraphy or HDP or MDP or 99mTc or SPECT or nuclear medicine or Ga-67 or Tc-99m or CT or DECT or PET).mp.
 6. (systemati* review or (meta analysis or metaanalysis or meta-analysis)).mp.
 7. 1 and ((2 and 3 and 4) or 5) and 6
 8. limit 7 to (english language and humans and yr="2014 -Current")
 9. remove duplicates from 8
- 153 results, 54 results after duplicates from earlier searches removed



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*Information Resources:

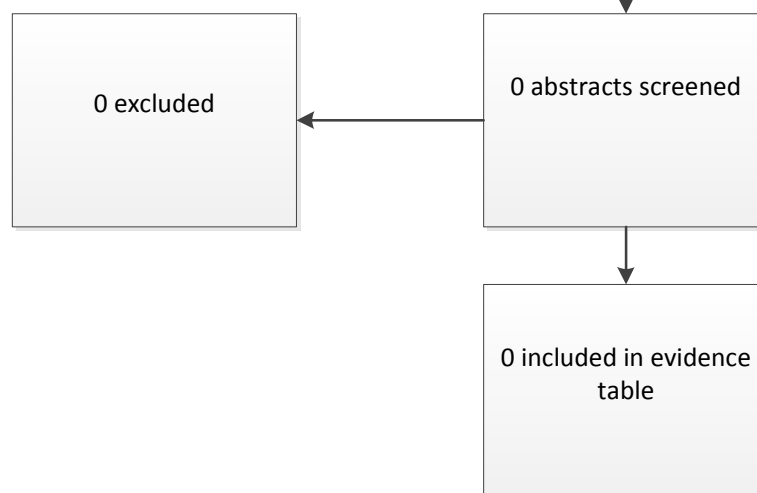
Ovid Medline, NCBI PubMed, National Guideline Clearinghouse, Guidelines International Network, TRIP Database, Choosing Wisely, Cochrane Database, Agency for Healthcare Research and Quality, and numerous specialty society websites
Additional Internet and bibliographic searches were performed for all phases of research

Evidence Process for MS Guideline Research

7/10/2018

6/13/2017 Search 5 - Monitoring of response to treatment in patients with known NMO

1. ("neuromyelitis optica" or "NMOSD" or "NMO" or "devic disease" or "devic neuromyelitis optica" or "devic neuromyelitis opticas" or "devic syndrome" or "devic's disease" or "devic's neuromyelitis optica" or "devic's syndrome" or "d evics disease" or "devics neuromyelitis optica" or "devics syndrome" or "disease, devic" or "disease, devic's" or "nmo spectrum disorder" or "nmo spectrum disorders" or "neuromyelitis optica (nmo) spectrum disorder" or "neuromyelitis optica (nmo) spectrum disorders" or "neuromyelitis optica, devic" or "neuromyelitis optica, devic's" or "neuromyelitis optica spectrum disorder" or "neuromyelitis optica spectrum disorders" or "neuromyelitis opticas, devic" or "syndrome, devic" or "syndrome, devic's").mp.
 2. (treatment* or therapeut* or therap* or pharmacotherap* or drug or "DMT").mp.
 3. (response* or respond* or effect* or efficacy or effective* or outcome).mp.
 4. (monitor* or measur* or surveil* or evaluat* or detect*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
 5. exp Diagnostic Imaging/ or Nuclear Medicine/ or Tomography, X-Ray Computed/ or Magnetic Resonance Imaging/ or (compute* tomography or CTA or MRI or MRA or magnetic resonance or imaging or neuroimaging or scintigraphy or HDP or MDP or 99mTc or SPECT or nuclear medicine or Ga-67 or Tc-99m or CT or DECT or PET).mp.
 6. (systemati* review or (meta analysis or metaanalysis or meta-analysis)).mp.
 7. 1 and ((2 and 3 and 4) or 5) and 6
 8. limit 7 to (english language and humans and yr="2014 -Current")
 9. remove duplicates from 8
- 6 results, 0 results after duplicates from previous searches removed



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*Information Resources:

Ovid Medline, NCBI PubMed, National Guideline Clearinghouse, Guidelines International Network, TRIP Database, Choosing Wisely, Cochrane Database, Agency for Healthcare Research and Quality, and numerous specialty society websites
Additional Internet and bibliographic searches were performed for all phases of research

Evidence Process for MS Guideline Research

7/10/2018

6/18/2018 – Search 6 - MS and imaging

1. exp Diagnostic Imaging/ or Nuclear Medicine/ or Tomography, X-Ray Computed/ or Magnetic Resonance Imaging/ or (compute* tomography or CTA or MRI or MRA or magnetic resonance or imaging or neuroimaging or scintigraphy or HDP or MDP or 99mTc or SPECT or nuclear medicine or Ga-67 or Tc-99m or CT or DECT or PET).mp.

2. exp Multiple Sclerosis/ or ("disseminated sclerosis" or "ms (multiple sclerosis)" or "multiple sclerosis" or "multiple sclerosis, acute fulminating" or "sclerosis, disseminated" or "sclerosis, multiple").mp.

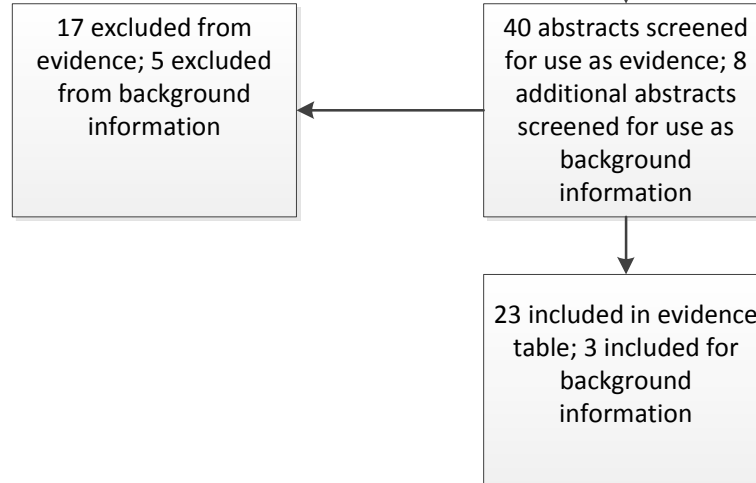
3. (case adj2 (report or reports or study or studies)).mp.

4. (1 and 2) not 3

5. limit 4 to (english language and humans and yr="2014 -Current" and "all adult (19 plus years)")

6. remove duplicates from 5

1420 results, 1409 results after duplicates from previous searches removed



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*Information Resources:

Ovid Medline, NCBI PubMed, National Guideline Clearinghouse, Guidelines International Network, TRIP Database, Choosing Wisely, Cochrane Database, Agency for Healthcare Research and Quality, and numerous specialty society websites
Additional Internet and bibliographic searches were performed for all phases of research

Evidence Process for MS Guideline Research

7/10/2018

6/18/2018 Search 7 - NMO and imaging

1. exp Diagnostic Imaging/ or Nuclear Medicine/ or Tomography, X-Ray Computed/ or Magnetic Resonance Imaging/ or (compute* tomography or CTA or MRI or MRA or magnetic resonance or imaging or neuroimaging or scintigraphy or HDP or MDP or 99mTc or SPECT or nuclear medicine or Ga-67 or Tc-99m or CT or DECT or PET).mp.

2. ("neuromyelitis optica" or "NMOSD" or "NMO" or "devic disease" or "devic neuromyelitis optica" or "devic neuromyelitis opticas" or "devic syndrome" or "devic's disease" or "devic's neuromyelitis optica" or "devic's syndrome" or "d evics disease" or "devics neuromyelitis optica" or "devics syndrome" or "disease, devic" or "disease, devic's" or "nmo spectrum disorder" or "nmo spectrum disorders" or "neuromyelitis optica (nmo) spectrum disorder" or "neuromyelitis optica (nmo) spectrum disorders" or "neuromyelitis optica, devic" or "neuromyelitis optica, devic's" or "neuromyelitis optica spectrum disorder" or "neuromyelitis optica spectrum disorders" or "neuromyelitis opticas, devic" or "syndrome, devic" or "syndrome, devic's").mp.

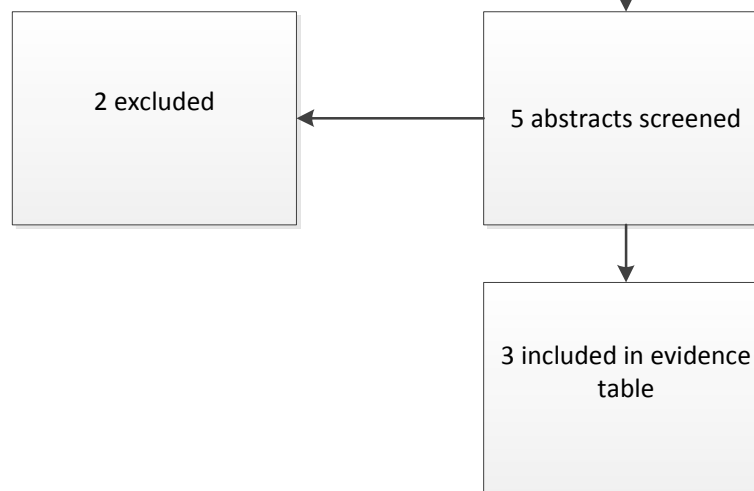
3. (case adj2 (report or reports or study or studies)).mp.

4. (1 and 2) not 3

5. limit 4 to (english language and humans and yr="2014 -Current" and "all adult (19 plus years)")

6. remove duplicates from 5

173 results, 69 results when duplicates from previous searches removed



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*Information Resources:

Ovid Medline, NCBI PubMed, National Guideline Clearinghouse, Guidelines International Network, TRIP Database, Choosing Wisely, Cochrane Database, Agency for Healthcare Research and Quality, and numerous specialty society websites
Additional Internet and bibliographic searches were performed for all phases of research