

Table e-1. Literature Search Terms, Strategies, and Results

This appendix provides a summary of literature search strategies that the International Panel for Neuromyelitis Optica Diagnosis (INPD) used to develop the evidence base for revised diagnostic criteria.

We searched Ovid MEDLINE from 1946 through the month of January 2012. Other databases searched were EMBASE, Cochrane and PubMed. The terms in each summary strategy are Medical Subject Headings (.mh.) and textwords (.mp.). Slight variations of the terms were necessary for different databases. The only limitation imposed on the search was “human”; there were no language restrictions.

Although separate searches were carried out for NMO, myelitis, and optic neuritis-related terms, we have collapsed these in the summary for simplicity. Repeat searches were executed quarterly up to January, 2014.

Summary of Citation Number Organized by Working Group

Subgroup	Original Search		Updated Searches (Jan 2012-Jan 2014)	
	Medline	Medline and EMBASE	Medline	Medline and EMBASE
Clinical Presentation	1051	1634	425	1673
Serology	450	1057	226	449
Neuroimaging	523	1027	69	380
Autoimmune	653	2504	46	255
Pediatric	218	342	40	61
OSMS	147	212	6	34

Search 1: NMO/NMOSD Clinical Presentation

1. Neuromyelitis Optica.mh. OR neuromyelitis optica.mp.
2. (neuromyelitis optica spectrum disorder OR neuromyelitis optica spectrum disease).mp.
3. (devic disease OR devics disease OR devic syndrome OR devics syndrome OR devic).mp.
4. #1 OR #2 OR #3
5. Myelitis, Transverse.mh. OR Exp Myelitis.mh.
6. longitudinally extensive transverse myelitis.mp.
7. Exp Optic Neuritis.mh. OR optic neuritis.mp.
8. (opticospinal OR optic-spinal).mp.
9. #5 OR #6 OR #7 OR #8
10. NMO-IgG.mp OR neuromyelitis optica immunoglobulin G.mp.
11. aquaporin 4.mp.
12. aquaporin 4.mh. OR aqp4.mp.
13. #10 OR #11 OR #12
14. #9 AND #13
15. #4 OR #14 and limited to humans

Search 2: Clinical Course (Monophasic or Relapsing)

1. Neuromyelitis Optica.mh. OR neuromyelitis optica.mp.
2. (neuromyelitis optica spectrum disorder OR neuromyelitis optica spectrum disease).mp.
3. (devic disease OR devics disease OR devic syndrome OR devics syndrome OR devic).mp.
4. longitudinally extensive transverse myelitis.mp.
5. (opticospinal OR optic-spinal).mp.

6. #1 OR #2 OR #3 OR #4 OR #5
7. Myelitis, Transverse.mh. OR Exp Myelitis.mh.
8. Exp Optic Neuritis.mh. OR optic neuritis.mp.
9. (relaps: OR monophasic).mp.
10. Recurrence.mh.
11. #9 OR #10
12. #6 AND #11 limited to humans
13. #7 AND #11 limited to humans
14. #8 AND #11 limited to humans

Search 3: Aquaporin-4 Antibody/NMO-IgG Testing

1. Neuromyelitis Optica.mh. OR neuromyelitis optica.mp.
2. (neuromyelitis optica spectrum disorder OR neuromyelitis optica spectrum disease).mp.
3. (devic disease OR devics disease OR devic syndrome OR devics syndrome OR devic).mp.
4. longitudinally extensive transverse myelitis.mp.
5. (opticospinal OR optic-spinal).mp.
6. #1 OR #2 OR #3 OR #4 OR #5
7. Myelitis, Transverse.mh. OR Exp Myelitis.mh.
8. Exp Optic Neuritis.mh. OR optic neuritis.mp.
9. NMO-IgG.mp.
10. Exp Immunoglobulin G.mh.
11. neuromyelitis optica immunoglobulin G.mp.
12. aquaporin 4.mp.
13. Exp Autoantibodies.mh. OR autoantibod:.mp.
14. Aquaporin 4.mh. OR aqp4.mp.
15. #9 OR #10 OR #11 OR #12 OR #13 OR #14
16. #6 AND #15 limited to humans
17. #7 AND #15 limited to humans
18. #8 AND #15 limited to humans

Search 4: Assays (Serum and Cerebrospinal Fluid)

1. Neuromyelitis Optica.mh. OR neuromyelitis optica.mp.
2. (neuromyelitis optica spectrum disorder OR neuromyelitis optica spectrum disease).mp.
3. (devic disease OR devics disease OR devic syndrome OR devics syndrome OR devic).mp.
4. longitudinally extensive transverse myelitis.mp.
5. (opticospinal OR optic-spinal).mp.
6. #1 OR #2 OR #3 OR #4 OR #5
7. Myelitis, Transverse.mh. OR Exp Myelitis.mh.
8. Exp Optic Neuritis.mh. OR optic neuritis.mp.
9. Exp Biological Assay.mh.
10. Fluorescent Antibody Technique, Indirect.mh.
11. (indirect fluorescent antibody technique OR indirect immunofluorescence).mp.
12. Exp Enzyme-Linked Immunosorbent Assay.mh. OR enzyme linked immunosorbent assay.mp.
13. Radioimmunoprecipitation Assay.mh. OR radioimmunoprecipitation assay.mp.
13. cell-based assay.mp.
14. Cerebrospinal Fluid.mh. OR (cerebrospinal fluid OR csf).mp.
15. #9 OR #10 OR #11 OR #12 OR #13 OR #14
16. # 6 AND #15 limited to humans
17. #7 AND #15 limited to humans
18. #8 AND #15 limited to humans

Search 5: Neuroimaging and Optic Nerve Diagnostic Studies

1. Neuromyelitis Optica.mh. OR neuromyelitis optica.mp.
2. (neuromyelitis optica spectrum disorder OR neuromyelitis optica spectrum disease).mp.
3. (devic disease OR devics disease OR devic syndrome OR devics syndrome OR devic).mp.
4. longitudinally extensive transverse myelitis.mp.

5. (opticospinal OR optic-spinal).mp.
6. #1 OR #2 OR #3 OR #4 OR #5
7. Myelitis, Transverse.mh. OR Exp Myelitis.mh.
8. Exp Optic Neuritis.mh. OR optic neuritis.mp.
9. Exp Magnetic Resonance Imaging.mh. OR Tomography, Optical Coherence.mh.
10. optical coherence tomography.mp.
11. visual evoked potentials.mp. OR Evoked Potentials, Visual.mh.
12. #9 OR #10 OR #11
13. #6 AND #12 limited to humans
14. #7 AND #12 limited to humans
15. #8 AND #12 limited to humans

Search 6: Autoimmunity and Autoantibodies

1. Neuromyelitis Optica.mh. OR neuromyelitis optica.mp.
2. (neuromyelitis optica spectrum disorder OR neuromyelitis optica spectrum disease).mp.
3. (devic disease OR devics disease OR devic syndrome OR devics syndrome OR devic).mp.
4. longitudinally extensive transverse myelitis.mp.
5. (opticospinal OR optic-spinal).mp.
6. #1 OR #2 OR #3 OR #4 OR #5
7. Myelitis, Transverse.mh. OR Exp Myelitis.mh.
8. Exp Optic Neuritis.mh. OR optic neuritis.mp.
9. Exp Lupus Erythematosus, Systemic.mh. OR systemic lupus erythematosus.mp.
10. Sjogren's Syndrome.mh. OR sjogrens.mp.
11. Exp Connective Tissue Diseases.mh.
12. Antibodies, Antinuclear.mh. OR antinuclear antibody:.mp.
13. Exp Antigens, Nuclear.mh.
14. extractable nuclear antigens.mp.
15. Exp Autoimmunity.mh. OR autoimmunity.mp.
16. #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15
17. #6 and #16 limited to humans
18. #7 AND #16 limited to humans
19. #8 AND #16 limited to humans

Search 7: Pediatric Disease

1. Neuromyelitis Optica.mh. OR neuromyelitis optica.mp.
2. (neuromyelitis optica spectrum disorder OR neuromyelitis optica spectrum disease).mp.
3. (devic disease OR devics disease OR devic syndrome OR devics syndrome OR devic).mp.
4. longitudinally extensive transverse myelitis.mp.
5. (opticospinal OR optic-spinal).mp.
6. #1 OR #2 OR #3 OR #4 OR #5
7. Myelitis, Transverse.mh. OR Exp Myelitis.mh.
8. Exp Optic Neuritis.mh. OR optic neuritis.mp.
9. Exp Child.mh.
10. Exp Pediatrics.mh. OR (childhood OR children OR pediatrics OR juvenile).mp.
11. #9 OR #10
12. #6 AND #11 limited to humans
13. #7 AND # 11 limited to humans and child or children in the title
14. #8 AND #11 limited to humans

Search 8: Opticospinal MS

1. (opticospinal.mp. or optic-spinal.mp.)