

# ALS Canada Clinical Practice Guideline

## Literature Search: Search Strategies

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### A. Background

The following topic-specific search strategies have been developed using relevant keywords and database-specific subject headings in Ovid MEDLINE to address the key questions identified by ALS Canada.

Each search strategy listed below will ultimately be combined with the “ALS Terms” search in section 1 to return relevant results for each topic. For ease of reference, key questions as provided by ALS Canada appear italicized with original numbering and source under the overarching search topic heading.

For topics where quantitative evidence exists, we recommend limiting the MEDLINE search results to studies (e.g. observational studies, longitudinal studies, case series, controlled trials, etc.). This limit will help focus the number of results to be reviewed, and will exclude qualitative sources such as letters to the editor or comments. The full “Study Filter” search strategy is listed for reference in section 2.

Once confirmed, these search strategies will be customized to match the unique subject headings and syntax in the other relevant databases.

### B. Search Strategies by Topic

#### 1. ALS Terms

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- 1 Amyotrophic Lateral Sclerosis/ (13491)
- 2 "amyotrophic lateral sclerosis".tw. (13627)
- 3 ALS.tw. (14368)
- 4 "lou gehrig's disease".tw. (75)
- 5 "lou gehrig disease".tw. (6)
- 6 Motor Neuron Disease/ (3638)
- 7 exp Motor Neurons/ (35564)
- 8 Neuromuscular Diseases/ (9022)
- 9 "motor neuron disease\$".tw. (3596)
- 10 or/1-9 (64738)

#### 2. Study Filter

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- 1 Randomized controlled trial.pt. (391530)
- 2 randomized.mp. (598157)
- 3 placebo.mp. (166260)
- 4 Controlled Clinical Trial/ (89178)

- 5 (observational\$ adj3 stud\$).tw. (66049)
- 6 (observational\$ adj3 design).tw. (13820)
- 7 (observational\$ adj3 analys?s).tw. (2575)
- 8 quasirandom\$.tw. (95)
- 9 quasi-random\$.tw. (3378)
- 10 quasiexperimental.tw. (392)
- 11 quasi-experimental.tw. (6344)
- 12 exp Cohort Studies/ (1420010)
- 13 cohort\$.tw. (309507)
- 14 (follow-up adj stud\$).tw. (38940)
- 15 (followup adj stud\$).tw. (709)
- 16 longitudinal.tw. (152685)
- 17 Cross-Sectional Studies/ (190723)
- 18 (cross adj sectional).tw. (189680)
- 19 exp Case-Control Studies/ (707159)
- 20 (case\$ adj3 control\$).tw. (113433)
- 21 (case\$ and series).tw. (129669)
- 22 (control\$ adj3 stud\$).tw. (204162)
- 23 before-after.tw. (3112)
- 24 "before and after".tw. (196757)
- 25 (before adj after).tw. (3112)
- 26 (time adj series).tw. (17325)
- 27 Evaluation Studies/ (201898)
- 28 Comparative Study/ (1700566)
- 29 Intervention Studies/ (7544)
- 30 Multicenter Study/ (183947)
- 31 Pilot Projects/ (86444)
- 32 Program Evaluation/ (47835)
- 33 Validation Studies/ (71452)
- 34 (comparative adj stud\$).tw. (78531)
- 35 (evaluation adj stud\$).tw. (3738)
- 36 (multicenter adj stud\$).tw. (18421)
- 37 (multi-center adj stud\$).tw. (1404)
- 38 (multicenter adj stud\$).tw. (18421)
- 39 (multi-center adj stud\$).tw. (1404)
- 40 or/1-39 (4386792)

### 3. Communication – Diagnosis

1. AAN- How should a physician tell patients that they have ALS?

Terms to Add or Remove	Limit to Studies? (Y/N)	Recommended Search Date	Add PsycINFO database? (Y/N)
None	N	2007-present	N

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- 1 Communication/ (63946)
- 2 exp Truth Disclosure/ (12918)
- 3 exp Professional-Patient Relations/ (121032)
- 4 Counseling/ (28363)
- 5 communicat\$.tw. (164087)
- 6 disclosure.tw. (11532)
- 7 counsel\$.tw. (67031)
- 8 or/1-7 (385901)
- 9 news.tw. (8874)
- 10 diagnos?s.tw. (1053267)
- 11 or/9-10 (1061676)
- 12 8 and 11 (27690)
- 13 (communicat\$ adj3 diagnos?s).tw. (578)
- 14 (advise adj3 diagnos?s).tw. (17)
- 15 (advice adj3 diagnos?s).tw. (165)
- 16 (counsel\$ adj3 diagnos?s).tw. (1695)
- 17 (disclos\$ adj3 diagnos?s).tw. (648)
- 18 (educat\$ adj3 diagnos?s).tw. (906)
- 19 (discuss\$ adj3 diagnos?s).tw. (6990)
- 20 (inform\$ adj3 diagnos?s).tw. (4245)
- 21 (tell\$ adj3 diagnos?s).tw. (77)
- 22 (break\$ adj3 diagnos?s).tw. (139)
- 23 (communicat\$ adj3 news).tw. (161)
- 24 (advise adj3 news).tw. (0)
- 25 (advice adj3 news).tw. (8)
- 26 (counsel\$ adj3 news).tw. (3)
- 27 (disclos\$ adj3 news).tw. (38)
- 28 (educat\$ adj3 news).tw. (37)
- 29 (discuss\$ adj3 news).tw. (113)
- 30 (inform\$ adj3 news).tw. (177)
- 31 (tell\$ adj3 news).tw. (31)
- 32 (break\$ adj3 news).tw. (502)
- 33 or/13-32 (16129)
- 34 12 or 33 (39657)

#### 4. ALS - Treatment – Riluzole [COMPLETE]

3. AAN - *What is the effect of riluzole on slowing the disease process or prolonging survival in ALS?*

40. AAN - *Riluzole safety labs statement*

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- 1 Riluzole/ (808)
- 2 riluzole.tw. (953)
- 3 rilutek.tw. (16)
- 4 or/1-3 (1100)

## 5. ALS – Respiratory Management [COMPLETE]

4. AAN - *What pulmonary tests should used to detect and monitor respiratory insufficiency?*
5. New - *How frequently should respiratory function be assessed?*
6. New - *When should NIV be initiated? (plus statement about wait times)*
7. EFNS - *How are bronchial secretions best treated in ALS?*
8. New - *Oxygen statement (is best practice to avoid oxygen in patients with ALS)*
9. New - *What are the indications for LVR in ALS? How often should it be used?*
10. New - *When could tracheostomy be considered?*
45. New - *How should respiratory insufficiency be managed in patients with ALS (added after discussion on April 23 2015)*

- 
- 1 exp Respiratory Insufficiency/ (51944)
  - 2 Respiration, Artificial/ (39015)
  - 3 exp Respiratory Function Tests/ (198562)
  - 4 Chest Wall Oscillation/ (213)
  - 5 Noninvasive Ventilation/ (421)
  - 6 Oxygen/ (138610)
  - 7 Tracheostomy/ (5395)
  - 8 Tracheotomy/ (7439)
  - 9 exp Intubation, Intratracheal/ (32201)
  - 10 exp Ventilators, Mechanical/ (8213)
  - 11 (respiratory adj insufficiency).tw. (6485)
  - 12 (respiratory adj function\$.tw. (9401)
  - 13 "chest wall oscillation".tw. (62)
  - 14 (non-invasive adj2 ventilation).tw. (1327)
  - 15 (noninvasive adj2 ventilation).tw. (1590)
  - 16 NIV.tw. (1415)
  - 17 oxygen.tw. (293817)
  - 18 tracheostomy.tw. (8726)
  - 19 (mechanical adj ventilator\$.tw. (1668)
  - 20 IMV.tw. (736)
  - 21 (artificial adj1 respiration).tw. (1502)
  - 22 (positive adj pressure\$.tw. (7099)
  - 23 positivepressure\$.tw. (2)
  - 24 tracheotomy.tw. (4182)
  - 25 intubation.tw. (31484)
  - 26 "bilateral positive airway pressure".tw. (1)
  - 27 bipap.tw. (457)
  - 28 "lung volume recruitment".tw. (47)
  - 29 LVR.tw. (288)
  - 30 or/1-29 (646411)

## 6. Treatment – Nutrition Management

11. AAN - *When is enteral nutrition indicated in ALS? (How is nutrition monitored, percentage of weight loss, aspiration, respiratory status)*
12. New - *What is the maximum amount of time that a patient should have to wait for REG/RIG insertion, after it has been clinically recommended? (consensus statement attached to one)*
13. New - *When should feeding tube insertion be discussed with ALS patients?*
14. New - *What is the recommended procedure for feeding tube insertion (endoscopic/fluoroscopic/inpatient etc)*
15. New - *What type of supplements/enteral feeds should be suggested? (TPN comment?)*
16. New - *Hyperalimentation statement.*

Terms to Add or Remove	Limit to Studies? (Y/N)	Recommended Search Date	Add PsycINFO database? (Y/N)
Add Gastrojejunostomy as major search term, Nutrition, malnutrition as major search terms, Also weight loss, and dysphagia should also likely be included in these searches. Add total parenteral nutrition (TPN), add vitamin B12 Remove Nasogastric	N	1998-present	N

- 
- 1 Gastrostomy/ (6663)
  - 2 Enteral Nutrition/ (16168)
  - 3 Nutritional Support/ (4843)
  - 4 Intubation, Gastrointestinal/ (8458)
  - 5 Parenteral Nutrition, Total/ (9631)
  - 6 Creatine/ (8210)
  - 7 Glutamates/ (22942)
  - 8 Zinc/ (50379)
  - 9 Folic Acid/ (21215)
  - 10 Vitamin B 6/ (1884)
  - 11 Vitamin B 12/ (17860)
  - 12 Vitamin E/ (23745)
  - 13 Glutathione/ (46936)
  - 14 5-Hydroxytryptophan/ (3888)
  - 15 NAD/ (25734)
  - 16 Niacin/ (5752)
  - 17 Melatonin/ (15743)
  - 18 Genistein/ (5808)
  - 19 gastrostom\$.tw. (6492)
  - 20 (enteral adj nutrition).tw. (5374)
  - 21 (enteral adj feeding).tw. (3739)
  - 22 (enteric adj feeding).tw. (67)
  - 23 (tube adj1 feeding).tw. (4146)
  - 24 (nutrition adj support).tw. (1717)
  - 25 (nasogastric adj tube).tw. (3140)

- 26 "digestive tract intubation".tw. (1)
- 27 (gastrointestinal adj intubation).tw. (27)
- 28 "digestive tract intubation".tw. (1)
- 29 hyperalimentation.tw. (1808)
- 30 (parenteral adj nutrition).tw. (15452)
- 31 creatine.tw. (31659)
- 32 glutamat\*.tw. (87093)
- 33 zinc.tw. (75392)
- 34 (folic adj acid).tw. (13935)
- 35 folate.tw. (18964)
- 36 folacin.tw. (206)
- 37 (vitamin adj B6).tw. (4048)
- 38 (vitamin adj B12).tw. (12038)
- 39 cobalamin.tw. (3259)
- 40 (vitamin adj E).tw. (21673)
- 41 (coenzyme adj Q10).tw. (2129)
- 42 "arginine alpha ketoglutarate".tw. (9)
- 43 AAKG.tw. (10)
- 44 glutathione.tw. (89547)
- 45 5-hydroxytryptophan.tw. (2970)
- 46 niacin.tw. (3542)
- 47 "nicotinamide-adenine dinucleotide".tw. (8124)
- 48 melatonin.tw. (17165)
- 49 genistein/ (5808)
- 50 (coconut adj oil).tw. (1335)
- 51 (PEG adj insertion).tw. (187)
- 52 (RIG adj insertion).tw. (2)
- 53 or/1-52 (514085)

## 7. Dysarthria

### 17. AAN - What treatments for dysarthria optimize communication in ALS?

Terms to Add or Remove	Limit to Studies? (Y/N)	Recommended Search Date	Add PsycINFO database? (Y/N)
Communication devices Augmentative communication Assisted communication	N	2007-present	N

- 
- 1 Dysarthria/rh, th [rehabilitation, therapy] (300)
  - 2 Articulation Disorders/rh, th [rehabilitation, therapy] (391)
  - 3 Speech Disorders/rh, th [rehabilitation, therapy] (2269)
  - 4 Voice Disorders/rh, th [rehabilitation, therapy] (1083)
  - 5 Communication disorders/rh, th [Rehabilitation, Therapy] (722)
  - 6 (speech adj3 disorder\$).tw. (2653)
  - 7 (articulat\$ adj3 disorder\$).tw. (325)

- 8 (voice adj3 disorder\$.tw. (1359)
- 9 (vocal adj3 disorder\$.tw. (252)
- 10 (communicat\$ adj3 disorder\$.tw. (1720)
- 11 (speech adj3 impairment\$.tw. (989)
- 12 (articulat\$ adj3 impairment\$.tw. (66)
- 13 (voice adj3 impairment\$.tw. (109)
- 14 (vocal adj3 impairment\$.tw. (112)
- 15 (communicat\$ adj3 impairment\$.tw. (734)
- 16 (speech adj3 difficult\$.tw. (1051)
- 17 (articulat\$ adj3 difficult\$.tw. (163)
- 18 (voice adj3 difficult\$.tw. (86)
- 19 (vocal adj3 difficult\$.tw. (53)
- 20 (communicat\$ adj3 difficult\$.tw. (1845)
- 21 (speech adj3 problem\$.tw. (946)
- 22 (articulat\$ adj3 problem\$.tw. (231)
- 23 (voice adj3 problem\$.tw. (427)
- 24 (vocal adj3 problem\$.tw. (105)
- 25 (communicat\$ adj3 problem\$.tw. (2335)
- 26 or/1-25 (17133)

## 8. Symptom Management - Pharma

19. AAN - *What pharmacologic measures reduce pseudobulbar affect?*
23. AAN - *What pharmacologic interventions reduce anxiety?*
24. AAN - *What pharmacologic interventions reduce insomnia?*
25. AAN - *What pharmacologic interventions reduce fatigue?*
22. AAN - *What pharmacologic interventions reduce depression (interactions with riluzole)?*

[**Note:** We strongly recommend providing the drug names of interest for depression, anxiety, insomnia, and fatigue to help reduce the number of results to a manageable level]

Terms to Add or Remove	Limit to Studies? (Y/N)	Recommended Search Date	Add PsycINFO database? (Y/N)
Need pseudobulbar affect as term. See email about my question about need to limit to certain drugs.	Y	2007-present	N

- 
- 1 exp Antidepressive Agents, Tricyclic/ [ Symptom Mgmt - Pharma ] (29138)
  - 2 (tricyclic adj1 antidepress\$.tw. (8297)
  - 3 amitriptyline.tw. (5547)
  - 4 desipramine.tw. (5177)
  - 5 doxepine.tw. (75)
  - 6 clomipramine.tw. (2633)
  - 7 levomepromazine.tw. (416)
  - 8 haloperidol.tw. (16194)
  - 9 carbamazepine.tw. (11398)

- 10 gabapentin.tw. (3858)
- 11 exp Anti-Anxiety Agents/ [ Anxiety Terms ] (57722)
- 12 (anti-anxiety adj agent\$).tw. (80)
- 13 (anti-anxiety adj drug\$).tw. (130)
- 14 (antianxiety adj agent\$).tw. (176)
- 15 (antianxiety adj drug\$).tw. (170)
- 16 Baclofen/ [ Spasticity Terms ] (4950)
- 17 baclofen.tw. (5618)
- 18 clofen.tw. (0)
- 19 genpharm.tw. (2)
- 20 tizanidine.tw. (382)
- 21 zanaflex.tw. (7)
- 22 sirdalud.tw. (23)
- 23 or/1-22 (124834)

## 9. Symptom Management - General

[**Note:** search strategy for the topics where "pharma" was not specifically stated as the focus will capture both pharmacological and non-pharmacological interventions]

18. AAN - *What are the most effective treatments for sialorrhea?*
20. AAN - *What interventions reduce spasticity? (exercise included)*
21. AAN - *What interventions reduce cramps?*
27. New - *What are the most effective treatments for fasciculations?*
26. New - *What is the prevalence and type of pain in ALS patients?*

Terms to Add or Remove	Limit to Studies? (Y/N)	Recommended Search Date	Add PsycINFO database? (Y/N)
Remove contraction Can we divide the searches into new searches for questions that are "NEW" and search 1998 forward and old searches and search 2007 forward for these symptoms? I would suspect that we can omit "ache" as a search term.	Y	1998-present	N

- 
- 1 Sialorrhea/ (964)
  - 2 sialorrhea.tw. (372)
  - 3 drool\$.tw. (868)
  - 4 hypersalivat\$.tw. (421)
  - 5 saliva\$.tw. (69753)
  - 6 Saliva/ (33003)
  - 7 Salivation/ (3572)
  - 8 Deglutition Disorders/ (15368)
  - 9 dysphagia.tw. (16822)
  - 10 (deglutition adj disorder\$).tw. (200)
  - 11 (swallow\$ adj1 difficult\$).tw. (1105)



- 12 pseudobulbar.tw. (576)
- 13 Muscle Spasticity/ [ Spasticity + Cramps Terms ] (6900)
- 14 (muscle adj spasm).tw. (753)
- 15 (spastic adj muscle\$.tw. (240)
- 16 (muscular adj spasm?).tw. (150)
- 17 spasticity.tw. (7329)
- 18 Muscle Cramp/ [ Cramps Terms ] (1939)
- 19 Spasm/ (6169)
- 20 Muscle Contraction/ (88246)
- 21 cramp\$.tw. (5513)
- 22 contraction\$.tw. (114965)
- 23 Fasciculation/ (591)
- 24 fasciculation\$.tw. (2115)
- 25 exp Pain/ (314568)
- 26 pain.tw. (382271)
- 27 ache?.tw. (11830)
- 28 or/1-27 (814537)

## 10. Palliative Care

2. New - What is the best timing for discussions around life sustaining therapies and goals of care?

28. AAN - What treatments reduce dyspnea in the terminal phase of ALS?

29. AAN - Do hospice care, spiritual interventions, or advance directive improve quality of life in the terminal phase of ALS?

30. AAN - What is the optimal method of withdrawing both non-invasive and invasive ventilation in ALS?

31. New - When should palliative care be invited to participate in the care of ALS patients?

Terms to Add or Remove	Limit to Studies? (Y/N)	Recommended Search Date	Add PsycINFO database? (Y/N)
	N	1998-present	Yes

- 
- 1 Palliative Care/ (41331)
  - 2 exp Terminal Care/ (41549)
  - 3 exp Terminally Ill/ (5473)
  - 4 (palliative adj care).tw. (13801)
  - 5 (palliative adj treatment\$.tw. (5016)
  - 6 (palliative adj medicine).tw. (1133)
  - 7 (terminal adj care).tw. (1355)
  - 8 (terminal\$ adj ill\$.tw. (5315)
  - 9 "end of life".tw. (11343)
  - 10 or/1-9 (85065)
  - 11 exp Hospice Care/ [ Hospice, Spirituality, Dyspnea, Advance Directives Terms ] (4738)
  - 12 exp Advance Directives/ (6039)
  - 13 Spirituality/ (5124)
  - 14 (hospice adj care).tw. (1927)
  - 15 Dyspnea/ (15705)

- 16 (short\$ adj3 breath\$.tw. (4984)
- 17 breathlessness\$.tw. (2960)
- 18 (advance adj directive\$.tw. (2496)
- 19 "power of attorney".tw. (299)
- 20 spirituality.tw. (3667)
- 21 or/11-20 (40458)
- 22 10 and 21 (10403)

## 11. Bereavement

32. *New - What grief counseling should be offered to caregivers of deceased patients with ALS?*

Terms to Add or Remove	Limit to Studies? (Y/N)	Recommended Search Date	Add PsycINFO database? (Y/N)
	N	1998-present	Yes

- 
- 1 exp Bereavement/ (10828)
  - 2 bereavement.tw. (3501)
  - 3 grief.tw. (4307)
  - 4 or/1-3 (12717)
  - 5 Caregivers/ (22489)
  - 6 exp Family/ (240399)
  - 7 carer\$.tw. (7701)
  - 8 caregiv\$.tw. (32703)
  - 9 (care adj giv\$.tw. (3944)
  - 10 family.tw. (530264)
  - 11 families.tw. (160216)
  - 12 parent\$2.tw. (225141)
  - 13 mother?.tw. (145008)
  - 14 father?.tw. (27682)
  - 15 friend?.tw. (24540)
  - 16 relative?.tw. (579648)
  - 17 spous\$2.tw. (13249)
  - 18 partner?.tw. (83117)
  - 19 husband?.tw. (8747)
  - 20 wife.tw. (4256)
  - 21 wives.tw. (4075)
  - 22 son?.tw. (16188)
  - 23 daughter?.tw. (18336)
  - 24 offspring?.tw. (46549)
  - 25 sibling?.tw. (36916)
  - 26 brother?.tw. (10941)
  - 27 sister?.tw. (27719)
  - 28 or/5-27 (1721904)
  - 29 Social Support/ (52925)
  - 30 exp Social Work/ (15399)

- 31 exp Psychotherapy/ (152874)
- 32 exp Counselling/ (0)
- 33 exp "Religion and Psychology"/ (12670)
- 34 Self Help Groups/ (7911)
- 35 Counseling/ (28363)
- 36 support\$.tw. (923485)
- 37 counsel\$.tw. (67031)
- 38 therap\$.tw. (1766273)
- 39 cbt.tw. (4787)
- 40 psychotherap\$.tw. (30519)
- 41 pastoral.tw. (1795)
- 42 spiritual\$.tw. (10210)
- 43 religio\$.tw. (21666)
- 44 (self adj help).tw. (4401)
- 45 counsel\$.tw. (67031)
- 46 or/29-45 (2799061)
- 47 4 and 28 and 46 (3922)

## 12. Multidisciplinary Care

- 33. AAN - Does multidisciplinary management improve outcomes?
- 34. New - What measures (spirometry (including what exactly), oximetry, bloodwork, ALS-FRS-R, weight, etc) should be routinely monitored, and how often?
- 35. New - How frequently should patients be seen in the multidisciplinary ALS clinic?

Terms to Add or Remove	Limit to Studies? (Y/N)	Recommended Search Date	Add PsycINFO database? (Y/N)
Search would be well covered under multidisciplinary care. We can also limit to 2007, since the initial significant search was done for the AAN guidelines (with only site variance in the questions)	N	2007	N

[**Note:** Question 34 was organized by ALS Canada under the heading of “Multidisciplinary Care”. Please confirm that the intent is to capture these elements only as measured by a multidisciplinary care team. If so, the search below is sufficient without adding these specific measure terms, as any instances of these measures being addressed specifically by members of a multidisciplinary care team will be captured by the search as it currently stands. If not, please advise, as a new search for these specific terms will need to be developed.]

- 
- 1 Combined Modality Therapy/ (144671)
  - 2 "Delivery of Health Care, Integrated"/ (8758)
  - 3 exp Patient Care Team/ (55933)
  - 4 exp Interdisciplinary Communication/ (11504)
  - 5 Palliative care/ (41331)
  - 6 Ambulatory Care/ (36425)
  - 7 exp Hospitalization/ (165928)
  - 8 exp Rehabilitation/ (153528)

- 9 exp Physical Therapy Modalities/ (128036)
- 10 Home Care Services, Hospital-Based/ (1658)
- 11 Home Care Services/ (28050)
- 12 Inpatients/ (13700)
- 13 Outpatients/ (9383)
- 14 Behavior Therapy/ (23672)
- 15 Cognitive Therapy/ (16619)
- 16 Social Work/ (12906)
- 17 Counseling/ (28363)
- 18 Dietetics/ (5225)
- 19 exp Dietary Services/ (6650)
- 20 "combined modalit\$ therap\$" .tw. (1664)
- 21 (integrat\$ adj4 care).tw. (8631)
- 22 interdisciplinary.tw. (19932)
- 23 (palliative adj care).tw. (13801)
- 24 (ambulatory adj care).tw. (6552)
- 25 hospitalization.tw. (71059)
- 26 rehabilitation.tw. (96723)
- 27 (physical adj therap\$).tw. (12765)
- 28 (home adj care).tw. (13536)
- 29 inpatient\$1.tw. (62434)
- 30 outpatient\$1.tw. (106904)
- 31 (behavior adj therap\$).tw. (3060)
- 32 (behaviour adj therap\$).tw. (1560)
- 33 (cognitive adj therap\$).tw. (1848)
- 34 (social adj work).tw. (4594)
- 35 counseling.tw. (41227)
- 36 dietetics.tw. (1918)
- 37 multidisciplinary.tw. (42232)
- 38 interprofessional.tw. (2992)
- 39 or/1-38 (1043187)

### 13. Cognitive Impairment

36. AAN - How is cognitive or behavioral impairment in ALS diagnosed?

37. AAN - What treatments are effective for cognitive or behavioral impairment in ALS?

Terms to Add or Remove	Limit to Studies? (Y/N)	Recommended Search Date	Add PsycINFO database? (Y/N)
Add Frontotemporal/frontal temporal AND neuropsychiatric AND FTD	Y	2007-present	N

- 
- 1 Dementia/ (37815)
  - 2 Cognition Disorders/ (52230)
  - 3 dementia.tw. (63726)
  - 4 (cognitive adj impair\$).tw. (30336)

- 5 (cognitive adj change\$.tw. (2444)
- 6 (behav\$ adj impair\$.tw. (1679)
- 7 (behav\$ adj change\$.tw. (18954)
- 8 or/1-7 (149417)

## 14. DVT [COMPLETE]

38. EFNS - What is the risk of DVT in patients with ALS?

39. EFNS - Should DVT prophylaxis be considered in patients with ALS? (Surveillance only)

- 
- 1 exp Venous Thrombosis/ (45278)
  - 2 DVT.tw. (6296)
  - 3 "deep vein thrombos?s".tw. (10566)
  - 4 (venous adj thrombos?s).tw. (19866)
  - 5 or/1-4 (57558)

## 15. Health Promotion – Exercise

41. New - What level and type of physical exercise is recommended in patients with ALS?

Terms to Add or Remove	Limit to Studies? (Y/N)	Recommended Search Date	Add PsycINFO database? (Y/N)
Remove sport ADD strength training	Y	1998-present	N

- 
- 1 exp Exercise/ [ Health Promotion - Exercise ] (123971)
  - 2 exercis\$.tw. (191277)
  - 3 train\$.tw. (308485)
  - 4 (physical adj activit\$.tw. (55764)
  - 5 sport\$.tw. (39379)
  - 6 (exercise adj2 grading).tw. (6)
  - 7 (exercise adj pac\$.tw. (56)
  - 8 or/1-7 (573415)

## 16. Medication Alignment

42. New - Should medication reviews occur regularly to ensure unnecessary medications have been discontinued?

43. New - Statement about statins

Terms to Add or Remove	Limit to Studies? (Y/N)	Recommended Search Date	Add PsycINFO database? (Y/N)
	Y	1998-present	N

- 
- 1 Medication Reconciliation/ (404)
  - 2 (medication adj review\$.tw. (516)
  - 3 (drug adj2 review\$.tw. (1792)
  - 4 (medicine adj review\$.tw. (288)
  - 5 (medication adj reconciliation).tw. (483)
  - 6 (drug adj2 reconciliation).tw. (9)
  - 7 (medicine adj review\$.tw. (288)
  - 8 Hydroxymethylglutaryl-CoA Reductase Inhibitors/ (21511)
  - 9 (HMG adj CoA\$.tw. (6993)
  - 10 HMG-CoA\$.tw. (6993)
  - 11 statin\$.tw. (25347)
  - 12 atorvastatin.tw. (5224)
  - 13 baycol.tw. (12)
  - 14 cerivastatin.tw. (581)
  - 15 crestor.tw. (49)
  - 16 compactin.tw. (300)
  - 17 dalvastatin.tw. (2)
  - 18 fluvastatin.tw. (1474)
  - 19 fluindostatin.tw. (4)
  - 20 lipitor.tw. (136)
  - 21 lovastatin.tw. (3091)
  - 22 lescol.tw. (72)
  - 23 mevacor.tw. (44)
  - 24 mevastatin.tw. (241)
  - 25 mevinolin.tw. (378)
  - 26 monacolin.tw. (119)
  - 27 meglutol.tw. (2)
  - 28 pitavastatin.tw. (489)
  - 29 pravachol.tw. (24)
  - 30 pravastatin.tw. (3282)
  - 31 rosuvastatin.tw. (1812)
  - 32 simvastatin.tw. (6412)
  - 33 zocor.tw. (96)
  - 34 or/1-33 (45824)

## 17. Caregiver Support

44. EFNS - What is the burden of care for ALS caregivers? (Impact/caregiver burnout/respite/monitoring)

Terms to Add or Remove	Limit to Studies? (Y/N)	Recommended Search Date	Add PsycINFO database? (Y/N)
Add burnout and respite AND informal caregiver	N	2007-present	Y

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- 1 Caregivers/ (22489)
- 2 exp Family/ (240399)
- 3 carer\$.tw. (7701)
- 4 caregiv\$.tw. (32703)
- 5 (care adj giv\$.tw. (3944)
- 6 family.tw. (530264)
- 7 families.tw. (160216)
- 8 parent\$.tw. (225141)
- 9 mother?.tw. (145008)
- 10 father?.tw. (27682)
- 11 friend?.tw. (24540)
- 12 relative?.tw. (579648)
- 13 spous\$.tw. (13249)
- 14 partner?.tw. (83117)
- 15 husband?.tw. (8747)
- 16 wife.tw. (4256)
- 17 wives.tw. (4075)
- 18 son?.tw. (16188)
- 19 daughter?.tw. (18336)
- 20 offspring?.tw. (46549)
- 21 sibling?.tw. (36916)
- 22 brother?.tw. (10941)
- 23 sister?.tw. (27719)
- 24 or/1-23 (1721904)
- 25 burden.tw. (87914)
- 26 strain\$.tw. (499904)
- 27 or/25-26 (584973)
- 28 24 and 27 (77771)