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Supplementary Data

B-Vitamins and Fatty Acids in the Prevention and Treatment of Alzheimer's Disease and Dementia: A Systematic Review

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Supplemental Table 1

Search terms for systematic review on B-vitamins and fatty acids in the prevention and treatment of Alzheimer's disease and dementia (Medline search strategy)

#	Search History	Results
1	exp Alzheimer Disease/pc, dh, th [Prevention and Control, Diet Therapy, Therapy]	3236
2	exp Dementia, Vascular/dh, pc, th [Diet Therapy, Prevention and Control, Therapy]	249
3	(cognit$ or memory or mental).ab,tw,ti,kw.	266305
4	(declin$ or impair$ or los$ or deteriorat$).ab,tw,ti,kw.	854072
5	3 and 4	59638
6	(alzheimer$ or dementia).ab,tw,ti,kw.	71154
7	(choline or lecithin or phosphatidylcholine).ab,tw,ti,kw.	48510
8	(pyridoxal or pyridoxamine or pyridoxine or B6 or B 6).mp. or B-6.ab,tw,ti,kw. [mp=title, original title, abstract, name of substance word, subject heading word]	22866
9	(pyridoxal or pyridoxamine or pyridoxine or B6 or B 6 or B-6).ab,tw,ti,kw.	18111
10	(B1 or B 1 or B-1 or biotin).ab,tw,ti,kw.	37435
11	(B12 or B 12 or B-12 or B-complex or B complex or cyanocobalamin).ab,tw,ti,kw.	16513
12	(B7 or B 7 or B-7).ab,tw,ti,kw.	5433
13	(B1 or B 1 or B-1 or thiamin$).ab,tw,ti,kw.	29171

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Supplemental Table 1, continued

#	Search History	Results
14	(B5 or B 5 or B-5 or pantothenic acid).ab,tw,ti,kw.	7467
15	(B-vitamins or B vitamins).ab,tw,ti,kw.	789
16	(B2 or B 2 or B-2 or riboflavin).ab,tw,ti,kw.	25121
17	(B9 or B 9 or B-9 or folic or folate$ or folinic or leucovorin or methyltetrahydrofolate).ab,tw,ti,kw.	24759
18	(niacin or nicotinic acid or B3 or B-3 or B 3).ab,tw,ti,kw.	11250
19	(vitamin E or vitamin-E or alpha-tocopherol or alpha tocopherol).ab,tw,ti,kw.	23156
20	(ascorbic acid or vitamin C or vitamin-C).ab,tw,ti,kw.	25257
21	(antioxidant$ or vitamin$ or retinol or selenium or anti-oxidant$).ab,tw,ti,kw.	164104
22	(zinc or magnesium or manganese).ab,tw,ti,kw.	88808
23	(caroten$ or beta-caroten$ or betacaroten$).ab,tw,ti,kw.	13265
24	(flavonoids or lycopene).ab,tw,ti,kw.	7568
25	(coenzyme Q10 or co enzyme Q10 or co-enzyme Q10).ab,tw,ti,kw.	1232
26	(fatty acids or omega-3 or omega 3 or fish oils or eicosanoic acids or eicosapentaenoic$ or docosahexaenoic$ or EPA or DHA or PUFA or polyunsaturated fatty acid$).ab,tw,ti,kw.	71695
27	(micronutrient or dietary supplement or dietary or mediterranean diet).ab,tw,ti,kw.	106631
28	1 or 2 or 5 or 6	119021
29	7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27	562074
30	exp Vitamin B Complex/tu, th [Therapeutic Use, Therapy]	16599
31	Phosphatidylcholines/tu, th [Therapeutic Use, Therapy]	710
32	Vitamin E/tu, th [Therapeutic Use, Therapy]	4062
33	Antioxidants/ or Vitamin A/ or Ascorbic Acid/ or Vitamin D/	90779
34	Vitamin A/tu, th [Therapeutic Use, Therapy]	2348
35	Ascorbic Acid/tu, th [Therapeutic Use, Therapy]	3604
36	Flavonoids/tu, th [Therapeutic Use, Therapy]	1699
37	Ubiquinone/tu [Therapeutic Use]	598
38	Vitamin D/tu, th [Therapeutic Use, Therapy]	3266
39	Antioxidants/tu, th [Therapeutic Use, Therapy]	6420
40	Fatty Acids/tu, th [Therapeutic Use, Therapy]	420
41	Fatty Acids, Omega-3/tu [Therapeutic Use]	946
42	Fatty Acids, Unsaturated/tu [Therapeutic Use]	549
43	Dietary Fats/tu [Therapeutic Use]	512
44	Fish Oils/tu, th [Therapeutic Use, Therapy]	874
45	Eicosapentaenoic Acid/tu [Therapeutic Use]	341
46	Docosahexaenoic Acids/tu [Therapeutic Use]	227
47	Dietary Supplements/	12710
48	Diet, Mediterranean/	375
49	30 or 31 or 32 or 33 or 34 or 35 or 36 or 37 or 38 or 39 or 40 or 41 or 42 or 43 or 44 or 45 or 46 or 47 or 48	124320
50	29 or 49	597454
51	28 and 50	6374
52	limit 51 to humans	4708
53	exp cohort studies/ or exp clinical trials/	789475
54	exp Randomized Controlled Trials/	49100
55	exp Random Allocation/	58128
56	exp Evaluation Studies/	600333
57	exp research design/ or exp double-blind method/	220512
58	Comparative Study/	0
59	exp single-blind method/	11012
60	randomized controlled trial.pt.	236595
61	randomized controlled trial.pt.	236595
62	controlled clinical trial.pt.	75124
63	clinical trial.pt.	436676
64	exp “Clinical Trial [Publication Type]”/	503479
65	(clin$ adj trial).ti,ab.	40421
66	((singl$ or doubl$ or trebl$ or tripl$) adj3 (blind$ or mask$)).ti,ab.	88998
67	(cohort or longitudinal or prospectiv$ or follow$up or random$).ti,ab.	689125
68	53 or 54 or 55 or 56 or 57 or 58 or 60 or 61 or 62 or 63 or 64 or 65 or 66 or 67	1816210
69	52 and 68	1064

Supplemental Table 2
Excluded studies ($n = 110$)

Author	Year	Reason for exclusion
Aaron	2005	Study type
Abalan	1985	Study type
Abyad	2002	Study type
Agbayewa	1992	Study type
Aisen	2003	Study type
Basun	1994	Study type
Behrens	2003	Study type
Bernard	1998	Study type
Berr	2004	No relevant outcomes
Bragin	2005	Not relevant intervention
Brattstrom	1990	Ineligible patients
Bunce	2005	Study type
Carmel	1995	Study type
Carver	1995	No relevant outcomes
Charlton	2004	Study type
Cherubini	2005	Study type
Clark	2005	Ineligible patients
Coudray	1997	No relevant outcomes
Cunha	1995	Study type
Deijen	2003	Study type
Deschamps	2002	No relevant outcomes
Dunn	2007	Study type
Eastley	2000	Study type
Eisinger	1994	No relevant outcomes
Elias	2005	Study type
Emsley	2000	Study type
Enk	1980	Study type
Essama-Tjani	2000	Ineligible patients
Eussen	2002	No relevant outcomes
Faxen-Irving	2005	No relevant outcomes
Feillet-Coudray	2006	No relevant outcomes
Francis	1983	No relevant outcomes
Gadoth	2006	Study type
Gale	1996	No relevant outcomes
Gilbert	1997	Study type
Goebels	2000	Study type
Gold	1995	Study type
Gomes Trolin	1995	No relevant outcomes
Gomes Trolin	1996	No relevant outcomes
Growdon	1984	No relevant outcomes
Hancock	1985	Study type
Healton	1981	Study type
Helmer	2003	Study type
Hughes	1970	No relevant outcomes
Hvas	2001	No relevant outcomes
Ito	2001	Study type
Jama	1996	Study type
Johnson	2006	Study type
Johnston	1997	Study type
Kipen	1995	No relevant outcomes
Kushnir	1987	Study type
Kwok	1998	Ineligible patients
La Rue	1997	Study type
LaBrecque	1967	Not relevant intervention
Leblhuber	2001	Study type
Lehmann	2003	Study type
Lerner	2002	Study type

Supplemental Table 2, continued

Author	Year	Reason for exclusion
Levin	1984	Study type
Levitt	1992	Study type
Litchford	1987	No relevant outcomes
Martin	1988	No relevant outcomes
Masaki	2000	No relevant outcomes
Meador	1993	Study type
Meertens	2005	Ineligible patients
Mendelsohn	1998	Study type
Miller	2002	Study type
Mimori	1996	Study type
Mizrahi	2003	Study type
Mooijaart	2005	Ineligible patients
Moretti	2001	Study type
Moretti	2004	Study type
Nagga	1998	Study type
Nes	1988	Study type
Nilsson	2001	Study type
Nilsson	2000	Study type
Osimani	2005	Study type
Passeri	1993	Not relevant intervention
Pathansali	2006	No relevant outcomes
Peers	1990	Study type
Petot	2004	Study type
Polidori	2004	Study type
Potocnik	1997	Study type
Pradignac	1995	Study type
Quadri	2004	Study type
Regland	1992	No relevant outcomes
Rinaldi	2003	Study type
Riviere	1998	Study type
Rodriguez	2006	Study type
Roos	1997	Study type
Rudman	1989	Study type
Sandman	1987	No relevant outcomes
Saracaceanu	1997	Study type
Sato	1998	No relevant outcomes
Scarmeas	2006	Study type
Schreinzer	2003	Study type
Shaw	1984	No relevant outcomes
Shinnar	1984	Study type
Snowdon	2000	No relevant outcomes
Srikanth	2005	Study type
Stojsavljevic	1997	Study type
Tabet	2001	Study type
Tilvis	1987	Study type
Tripathi	2001	Study type
Tucker	1990	Ineligible patients
Uney	1992	No relevant outcomes
Verbanck	1991	Study type
Whyte	2002	Study type
Young	2005	Not relevant intervention
Yukawa	2001	Study type
Zafrilla	2006	Study type

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