Supplementary material

**Exploring trajectories in dietary adequacy of the B vitamins folate, riboflavin, vitamins B6 and B12,with advancing older age: a systematic review**

Nicola Gillies; David Cameron-Smith; Shikha Pundir; Clare R. Wall; Amber M Milan.

**Supplementary Table 1:** Search strategy as applied to Medline **2**

**Supplementary Table 2**: Reference list of studies excluded from full text review **5**

**Supplementary Table 3** Details of funding sources and potential conflict of interest of   
included studies **6**

**References: 7**

**Supplemental Table 1:** Search strategy as applied to Medline

|  |  |  |
| --- | --- | --- |
| Ovid MEDLINE(R) Epub Ahead of Print, In Process & Other Non-Indexed Citations, Ovid MEDLINE (R) Daily, and Ovid MEDLINE (R) 1946-Present | | |
| **#** | **Search Statement** | **Results** |
| 1 | vitamin b complex/ or folic acid/ or riboflavin/ or vitamin b 12/ or vitamin b 6/ | 53160 |
| 2 | vitamin B complex.mp. | 8560 |
| 3 | (folic acid or folate\* or vitamin b9 or vitamin b 9 or folvite\*).mp. | 47327 |
| 4 | (riboflavin or vitamin b2 or vitamin b 2 or vitamin g).mp. | 12721 |
| 5 | (vitamin b6 or vitamin b 6 or pyridoxine).mp. | 14510 |
| 6 | (vitamin b12 or vitamin b 12 or cobalamin\* or cyanocobalamin\* or eritron\*).mp. | 30325 |
| 7 | micronutrient\*.mp. | 14353 |
| 8 | or/1-7 | 104313 |
| 9 | Energy Intake/ | 37738 |
| 10 | ((energy or vitamin) adj intake\*).mp. | 48407 |
| 11 | (diet\* adj (intake\* or status)).mp. | 25199 |
| 12 | Nutritional Status/ | 38720 |
| 13 | ((nutrient or nutrition\*) adj (intake\* or status or assess\*)).mp. | 73621 |
| 14 | Nutrition Assessment/ | 13274 |
| 15 | (diet\* adj (adequacy or adequate or inadequacy or inadequate or deficien\* or sufficien\*)).mp. | 2789 |
| 16 | (nutrition\* adj (adequacy or adequate or inadequacy or inadequate or deficien\* or sufficien\*)).mp. | 5994 |
| 17 | (nutrient\* adj (adequacy or adequate or inadequacy or inadequate or deficien\* or sufficien\*)).mp. | 2176 |
| 18 | or/9-17 | 137750 |
| 19 | AGED/ or "AGED, 80 AND OVER"/ | 2826085 |
| 20 | (elderly or geriatric\*).mp. | 294260 |
| 21 | AGING/ | 215327 |
| 22 | (aging or ageing).mp. | 337560 |
| 23 | ((aged or ages or over) adj2 ("65" or sixty five or "80" or eighty)).mp. | 839043 |
| 24 | older.ti. | 76512 |
| 25 | advanced age\*.ti,ab. | 14769 |
| 26 | or/19-25 | 3156164 |
| 27 | cohort studies/ or follow-up studies/ or longitudinal studies/ or prospective studies/ | 1237147 |
| 28 | observational study/ | 49518 |
| 29 | (cohort or longitudinal or observation\*).mp. | 1474309 |
| 30 | (followup or follow-up or prospective).tw. | 1248042 |
| 31 | or/27-30 | 2820523 |
| 32 | 8 and 18 and 26 and 31 | 730 |
| 33 | limit 32 to yr="1990 -Current" | 701 |

**Supplemental Table 2.** Reference list of studies excluded from full text review

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Author, date | Reason for exclusion | | | | | |
| Age of participants at follow-up | Full text not available | Full text not available in English | Nutrient intake not reported at follow-up | Nutrients of interest not reported | Presentation of nutrient intake data |
| Amorim Cruz *et al*, 1996(1) |  | ✓ |  |  |  |  |
| Bailey *et al*, 1997(2) |  |  |  |  | ✓ |  |
| Beydoun *et al*, 2018(3) |  |  |  |  | ✓ |  |
| Decarli *et al*, 1998(4) |  | ✓ |  |  |  |  |
| del Pozo *et al*, 2003(5) |  |  | ✓ |  |  |  |
| Fidanza *et al*, 1991(6) |  | ✓ |  |  |  |  |
| Flynn *et al*, 1992(7) |  |  |  |  | ✓ |  |
| Forman *et al,* 2005(8) | ✓ |  |  |  |  | ✓ |
| Fung *et al*, 2003(9) |  |  |  |  |  | ✓ |
| Gose *et al*, 2016(10) | ✓ |  |  |  |  |  |
| Hughes *et al,* 2017(11) |  |  |  | ✓ |  |  |
| Jacques *et al*, 2005(12) |  |  |  |  |  | ✓ |
| Kang *et al*, 2014(13) |  |  |  |  |  | ✓ |
| La Rue *et al*, 1997(14) |  |  |  |  |  | ✓ |
| Larsson *et al*, 2005(15) |  |  |  |  |  | ✓ |
| Lee *et al*, 2011(16) |  |  |  |  |  | ✓ |
| Michaud *et al*, 2000(17) |  |  |  |  |  | ✓ |
| Mori *et al*, 2008(18) |  | ✓ |  |  |  |  |
| Nicolas *et al*, 2000(19) |  | ✓ |  |  |  |  |
| Skarupski *et al*, 2010(20) |  |  |  |  |  | ✓ |
| Taylor *et al*, 2002(21) |  |  |  |  |  | ✓ |
| Voorripes *et al*, 2000(22) |  |  |  | ✓ |  |  |
| Winkvist *et al*, 2017(23) |  |  |  |  | ✓ |  |
| Yoo *et al*, 2009(24) |  | ✓ |  |  |  |  |
| Yoon *et al*, 2016(25) |  |  |  |  |  | ✓ |
| Zhang *et al*, 2002(26) | ✓ |  |  |  |  |  |

**Supplemental Table 3.** Details of funding sources and potential conflict of interest of included studies

|  |  |  |
| --- | --- | --- |
| **Author, year and country of publication** | **Funding Source** | **Conflict of interest** |
| Chapman *et al.* (1996)  USA(27) | Not available | Not available |
| Fernyhough *et al*. (1999)  New Zealand(28) | 1. Health Research Council of New Zealand.  2. University of Otago Medical School | Not available |
| Flood *et al.* (2010)  Australia(29) | 1. Australian National Health & Medical Research Council 2. Meat and Livestock Australia | No conflict of interest to declare |
| Kromhout *et al.* (1990)  The Netherlands(30) | 1. Prevention Foundation 2. Netherlands Nutrition Council | Not available |
| Sjogren *et al*. (1994)  Sweden(31) | Not available | Not available |
| Toffanello *et al*. (2011)  Italy(32) | Not supported by any grants | No conflict of interest to declare |
| Yukawa *et al*. (2003)  Japan(33) | Not available | Not available |
| Zhu *et al.*  (2010)  Australia(34) | 1. Healthway Health Promotion Foundation of Western Australia 2. Australian Menopause Society 3. Australian National Health And Medical Research Council | Not available |

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