

Effectiveness of external factors to reduce the risk of dehydration in older people living in residential care: a Systematic Review

Research Question: Among elderly people living in residential care, what interventions or environmental factors have been shown to reduce dehydration prevalence as compared to those not exposed?

Search Strategy for: MEDLINE OVID

Database: Ovid MEDLINE(R) <1946 to August Week 3 2012>

Search Strategy:

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- 1 Dehydration/ (9762)
 - 2 Hypovolemia/ (957)
 - 3 Drinking/ (11845)
 - 4 Drinking Water/ (551)
 - 5 beverage/ (9073)
 - 6 drinking behavior/ (5676)
 - 7 fluid therapy/ (13205)
 - 8 Hyponatremia/ (1958)
 - 9 (hydrate or hydration or hydrating or hydrated).tw. (29529)
 - 10 (dehydrate or dehydration or dehydrating or dehydrated).tw. (22101)
 - 11 (de adj (hydrate or hydration or hydrating or hydrated)).tw. (12)
 - 12 (rehydrate or rehydration or rehydrating or rehydrated).tw. (6055)
 - 13 (re adj (hydrate or hydration or hydrating or hydrated)).tw. (79)
 - 14 euhydrat*.tw. (376)
 - 15 (eu adj hydrat*).tw. (0)
 - 16 hypohydrat*.tw. (274)
 - 17 (hypo adj hydrat*).tw. (2)
 - 18 hypovol?em*.tw. (6597)
 - 19 (hypo adj vol?em*).tw. (8)
 - 20 ((fluid* or water*) adj5 (volum* or intake* or balance* or imbalance* or measur* or monitor* or replac* or replenish*)).tw. (64093)
 - 21 (fluid* adj5 (therapy or therapies)).tw. (3685)
 - 22 "fluid deficit".tw. (122)
 - 23 hypernatr?em*.tw. (2031)
 - 24 (hyper adj natr?em*).tw. (2)
 - 25 ((fluid* or liquid* or water*) adj3 manag*).tw. (4029)
 - 26 drink*.tw. (81175)
 - 27 Beverage*.tw. (11566)
 - 28 (liquid* adj5 (volum* or intake* or measur* or monitor* or replac* or replenish*)).tw. (11340)

- 29 or/1-28 (241979)
- 30 exp Aged/ (2136445)
- 31 exp Dementia/ (108267)
- 32 geriatrics/ (25768)
- 33 aged.tw. (302670)
- 34 ag?ing.tw. (112784)
- 35 ((old or older) adj (resident* or age* or adult* or person* or people or wom?n or female* or m?n or male* or patient*)).tw. (356398)
- 36 alzheim*.tw. (74385)
- 37 dement*.tw. (58462)
- 38 elder*.tw. (153935)
- 39 geriatr*.tw. (28216)
- 40 (senior adj citizen*).tw. (1015)
- 41 or/30-40 (2697112)
- 42 exp Hospitals/ (187119)
- 43 exp housing for the elderly/ (1378)
- 44 exp health services for the aged/ (14107)
- 45 exp residential facilities/ (40602)
- 46 exp long term care/ (20484)
- 47 Geriatric nursing/ (11762)
- 48 (assist* adj living adj (facility or facilities)).tw. (389)
- 49 (resident* adj5 (care or caring or facility or facilities or home* or hous* or institution* or living)).tw. (17483)
- 50 ((care or caring) adj5 (facility or facilities or home* or hous* or institution* or living* or nurs*)).tw. (92371)
- 51 (nursing adj home*).tw. (19400)
- 52 (longterm adj5 (care or caring)).tw. (102)
- 53 (long adj term adj5 (care or caring)).tw. (15786)
- 54 (longterm adj5 (home* or hous*)).tw. (17)
- 55 (long adj term adj5 (home* or hous*)).tw. (2409)
- 56 (community adj dwelling*).tw. (8908)
- 57 or/42-56 (356214)
- 58 29 and 41 and 57 (1316)
- 59 (animals not (humans and animals)).sh. (3678890)
- 60 58 not 59 (1315)
- 61 Randomized controlled trials as topic/ (82478)
- 62 randomized controlled trial/ (334518)
- 63 random allocation/ (75491)
- 64 double blind method/ (116539)
- 65 single blind method/ (16574)
- 66 clinical trial/ (472615)
- 67 clinical trial, phase i.pt. (12472)

- 68 clinical trial, phase ii.pt. (19900)
- 69 clinical trial, phase iii.pt. (7260)
- 70 clinical trial, phase iv.pt. (735)
- 71 controlled clinical trial.pt. (84887)
- 72 randomized controlled trial.pt. (334518)
- 73 multicentre study.pt. (0)
- 74 clinical trial.pt. (472615)
- 75 exp clinical trials as topic/ (259720)
- 76 or/61-75 (856336)
- 77 (clinical adj trial*).tw. (173533)
- 78 ((singl* or doubl* or trebl* or tripl*) adj (blind\$3 or mask\$3)).tw. (114166)
- 79 placebos/ (31226)
- 80 placebo\$.tw. (138395)
- 81 randomly allocated.tw. (13907)
- 82 (allocated adj2 random\$).tw. (16236)
- 83 or/77-82 (355283)
- 84 76 or 83 (963659)
- 85 case report.tw. (168396)
- 86 letter/ (757175)
- 87 historical article/ (285656)
- 88 or/85-87 (1200732)
- 89 84 not 88 (936734)
- 90 epidemiologic studies/ (5473)
- 91 exp case control studies/ (568507)
- 92 exp cohort studies/ (1201978)
- 93 case control.tw. (62035)
- 94 (cohort adj (study or studies)).tw. (62980)
- 95 cohort analy\$.tw. (2801)
- 96 (follow up adj (study or studies)).tw. (33310)
- 97 (observational adj (study or studies)).tw. (31705)
- 98 longitudinal.tw. (111946)
- 99 retrospective.tw. (217012)
- 100 cross sectional.tw. (126381)
- 101 cross-sectional studies/ (145483)
- 102 or/90-101 (1609864)
- 103 exp intervention studies/ (5473)
- 104 Comparative Study/ (1598341)
- 105 exp control groups/ (1360)
- 106 trial*.tw. (509732)

- 107 (((nonequivalent or non equivalent) adj3 control*) or posttest* or post test* or pretest* or pre test* or quasi experiment* or quasiexperiment* or time series or timeseries).tw. (31465)
- 108 epidemiologic research design/ or control groups/ or cross-over studies/ (33374)
- 109 "cross over study".tw. (5331)
- 110 "crossover study".tw. (11891)
- 111 "cross over studies".tw. (287)
- 112 "crossover studies".tw. (686)
- 113 ((comparative or cluster) adj (study or studies)).tw. (65680)
- 114 (experiment* adj (study or studies)).tw. (62601)
- 115 (prospective adj (study or studies)).tw. (99923)
- 116 rct*.tw. (11773)
- 117 89 or 102 or 103 or 104 or 105 or 106 or 107 or 108 or 109 or 110 or 111 or 112 or 113 or 114 or 115 or 116 (3743653)
- 118 60 and 117 (673)
- 119 alcohol*.ti. (91532)
- 120 118 not 119 (576)