

Bijlage Zoekverantwoording

Onderzoeksvraag 1

Onderzoeksvraag module 'Toediening van vocht'

Patients/Patiënten	Patiënten (≥ 18 jaar) met dehydratie in de palliatieve fase (met een levensverwachting van < 1 jaar en > 1 week)
Intervention/Interventie	Rehydratie gedefinieerd als 'artificiële rehydratie' (sonde, subcutaan, rectoclyse, hypodermoclyse, IV, artificial hydration)
Comparison/Vergelijking	Geen interventie
Outcome(s)/Uitkomst(en)	Kritisch: kwaliteit van leven, levensduur, complicaties, mate van rehydratie, dorstgevoel

Zoekstrategie

Ovid MEDLINE(R) <1946 to March 03, 2023>

- 1 Palliative Care/ (62273)
- 2 "Hospice and Palliative Care Nursing"/ (2197)
- 3 exp Palliative Medicine/ (508)
- 4 exp Terminal Care/ (56555)
- 5 Terminally Ill/ (6796)
- 6 palliat*.mp. (101222)
- 7 ((terminal* or advance*) adj6 (care or caring or ill* or sick* or stage*)).mp. (127867)
- 8 (terminal-stage* or (terminal adj1 stage*) or dying or (close adj6 death)).mp. (40302)
- 9 (end adj3 life).mp. (28010)
- 10 hospice*.mp. (19382)
- 11 ((end-stage* or (end adj1 stage*)) adj6 (disease* or ill* or care or caring)).mp. (55944)
- 12 ((incurable or advanced) adj6 (ill* or disease*)).mp. (59268)
- 13 (reduced adj1 life adj2 expectanc*).mp. (936)
- 14 or/1-13 (354684)
- 15 fluid therapy/ (21760)
- 16 dehydration/ (14532)
- 17 (hydrat* or dehydrat* or rehydrat* or (fluid* adj6 therap*) or (fluid* adj6 balance*) or (fluid* adj6 manag*) or hypodermoclys* or rectodermoclys*).tw. (112949)
- 18 or/15-17 (131611)
- 19 randomized controlled trial.pt. (587870)
- 20 controlled clinical trial.pt. (95188)
- 21 randomized.ab. (520861)
- 22 placebo.ab. (216334)
- 23 clinical trials as topic.sh. (200896)
- 24 randomly.ab. (341962)
- 25 trial.ti. (246580)
- 26 19 or 20 or 21 or 22 or 23 or 24 or 25 (1359821)
- 27 exp animals/ not humans.sh. (5099066)
- 28 26 not 27 (1239550)
- 29 meta-analysis.mp.pt. or review.pt. or search:.tw. (3205240)
- 30 28 or 29 (4229075)
- 31 14 and 18 and 30 (761)

Ovid MEDLINE(R) Epub Ahead of Print <March 03, 2023>, Ovid MEDLINE(R) Daily Update <March 03, 2023>

- 1 Palliative Care/ (90)
- 2 "Hospice and Palliative Care Nursing"/ (18)
- 3 exp Palliative Medicine/ (1)

- 4 exp Terminal Care/ (57)
- 5 Terminally Ill/ (1)
- 6 palliat*.mp. (2005)
- 7 ((terminal* or advance*) adj6 (care or caring or ill* or sick* or stage*)).mp. (2061)
- 8 (terminal-stage* or (terminal adj1 stage*) or dying or (close adj6 death)).mp. (747)
- 9 (end adj3 life).mp. (1066)
- 10 hospice*.mp. (480)
- 11 ((end-stage* or (end adj1 stage*)) adj6 (disease* or ill* or care or caring)).mp. (909)
- 12 ((incurable or advanced) adj6 (ill* or disease*)).mp. (1026)
- 13 (reduced adj1 life adj2 expectanc*).mp. (32)
- 14 or/1-13 (6155)
- 15 fluid therapy/ (14)
- 16 dehydration/ (12)
- 17 (hydrat* or dehydrat* or rehydrat* or (fluid* adj6 therap*) or (fluid* adj6 balance*) or (fluid* adj6 manag*) or hypodermoclys* or rectodermoclys*).tw. (1492)
- 18 or/15-17 (1500)
- 19 randomized controlled trial.pt. (1119)
- 20 controlled clinical trial.pt. (16)
- 21 randomized.ab. (10157)
- 22 placebo.ab. (2680)
- 23 clinical trials as topic.sh. (36)
- 24 randomly.ab. (5060)
- 25 trial.ti. (5005)
- 26 19 or 20 or 21 or 22 or 23 or 24 or 25 (17256)
- 27 exp animals/ not humans.sh. (4460)
- 28 26 not 27 (17088)
- 29 meta-analysis.mp.pt. or review.pt. or search:.tw. (54927)
- 30 28 or 29 (68209)
- 31 14 and 18 and 30 (23)

Cochrane Library

- | | | | |
|-----|--|-------|--|
| #1 | MeSH descriptor: [Palliative Care] explode all trees | 2241 | |
| #2 | palliat*:ti,ab,kw | 9433 | |
| #3 | MeSH descriptor: [Hospice and Palliative Care Nursing] explode all trees | 73 | |
| #4 | MeSH descriptor: [Palliative Medicine] explode all trees | 4 | |
| #5 | MeSH descriptor: [Terminally Ill] this term only | 111 | |
| #6 | MeSH descriptor: [Terminal Care] explode all trees | 635 | |
| #7 | ((terminal* or advance*) near/6 (disease* or care or caring or ill* or sick* or stage*)):ti,ab,kw | 16606 | |
| #8 | (terminal-stage* or (terminal near/1 stage*) or dying or (close near/6 death)):ti,ab,kw | 1656 | |
| #9 | ((end-stage* or (end near/1 stage*)) near/6 (disease* or ill* or care or caring)):ti,ab,kw | 6690 | |
| #10 | hospice*:ti,ab,kw | 1050 | |
| #11 | (end near/3 life):ti,ab,kw | 2060 | |
| #12 | (incurable near/6 (ill* or disease*)):ti,ab,kw | 314 | |
| #13 | (reduced near/1 life near/2 expectanc*):ti,ab,kw | 120 | |
| #14 | {or #1-#13} | 33101 | |
| #15 | MeSH descriptor: [Fluid Therapy] this term only | 1977 | |
| #16 | MeSH descriptor: [Dehydration] this term only | 651 | |
| #17 | (hydrat* or dehydrat* or rehydrat* or (fluid* near/6 therap*) or (fluid* near/6 balance*) or (fluid* near/6 manag*) or hypodermoclys* or rectodermoclys*):ti,ab,kw | 15589 | |
| #18 | {or #15-#17} | 15589 | |
| #19 | #14 AND #18 | 421 | |

Embase

#1. 'palliative therapy'/exp	138172
#2. 'terminal care'/exp	83642
#3. 'terminally ill patient'/exp	9479
#4. palliat*:ti,ab	143408
#5. (terminal* NEAR/6 (care OR caring OR ill*)):ti,ab	14478
#6. (end NEAR/3 life):ti,ab	45037
#7. hospice*:ti,ab	26186
#8. 'terminal stage*':ti,ab	4769
#9. dying:ti,ab	52411
#10. (close NEAR/6 death):ti,ab	1611
#11. ((incurable OR advanced) NEAR/6 (ill* OR disease*)):ti,ab	110664
#12. #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11	415581
#13. 'fluid therapy'/exp	109533
#14. 'dehydration'/exp	50167
#15. hydrat*:ti,ab OR dehydrat*:ti,ab OR rehydrat*:ti,ab OR ((fluid* NEAR/6 therap*):ti,ab) OR ((fluid* NEAR/6 balance*):ti,ab) OR ((fluid* NEAR/6 manag*):ti,ab) OR hypodermoclys*:ti,ab OR rectodermoclys*:ti,ab	176521
#16. #13 OR #14 OR #15	290566
#17. #12 AND #16	5745
#18. #12 AND #16 AND ([cochrane review]/lim OR [systematic review]/lim OR [meta analysis]/lim OR [randomized controlled trial]/lim) AND ([article]/lim OR [article in press]/lim OR [review]/lim) AND ([dutch]/lim OR [english]/lim OR [french]/lim OR [german]/lim) AND [embase]/lim	217

Tabel 3. Resultaten van zoekactie van onderzoeksvraag 1

Database	Aantal
Medline	761
PreMedline	23
Embase	217
CDSR	16
CENTRAL	405
Totaal aantal resultaten	1422
Aantal geëxcludeerd (dubbelen en foute taal en jaartal)	224
Totaal aantal unieke resultaten	1198

Tabel 4. Overzicht van geëxcludeerde studies gebaseerd op beoordeling van de volledige tekst van onderzoeksvraag 1

Referentie	Reden voor exclusie
Boland E, Johnson M, Boland J. Artificial hydration in the terminally ill patient. British Journal of Hospital Medicine. 2013;74(7):397-401.	Narrative review
Bruera E, Anderson K, Palmer J, Cohen M, Coldman B, Roberts L, et al. A randomized, controlled trial of parenteral hydration in patients with advanced cancer. J Clin Oncol [Internet]. 2010; 28(15). Available from: https://www.cochranelibrary.com/central/doi/10.1002/central/CN-01767446/full .	Abstract
Bruera E, Sala R, Rico M, Moyano J, Centeno C, Willey J, et al. A randomized, placebo-controlled trial of parental hydration in terminally ill cancer patients. Annual meeting proceedings of the american society of clinical oncology [Internet]. 2004; 22:[727 p.]. Available from: https://www.cochranelibrary.com/central/doi/10.1002/central/CN-00580610/full .	Abstract

Burge FI. Dehydration and provision of fluids in palliative care. What is the evidence? Can Fam Physician. 1996;42:2383-8.	Geen kwaliteitsbeoordeling van de geïnccludeerde studies
Caccialanza R, Constans T, Cotogni P, Zaloga GP, Pontes-Arruda A. Subcutaneous Infusion of Fluids for Hydration or Nutrition: A Review. JPEN J Parenter Enteral Nutr. 2018;42(2):296-307.	Narrative review
Chanthong P, Siri wattanakul S, Srion C. Comparison of feasibility between hypodermoclysis and intravenous hydration among palliative care patients in Thailand. Int J Palliat Nurs. 2022;28(7):308-12.	Controlegroep wordt ook behandeld met hydratatie
Cohen MZ, Torres-Vigil I, Burbach BE, de la Rosa A, Bruera E. The meaning of parenteral hydration to family caregivers and patients with advanced cancer receiving hospice care. J Pain Symptom Manage. 2012;43(5):855-65.	Kwalitatief luik van RCT
Dalal S, Hui D, Isabel T-V, Palmer J, Allo J, Susan F-H, et al. Parenteral hydration (PH) in advanced cancer patients: a multi-center, double-blind, placebo-controlled randomized trial. J Clin Oncol [Internet]. 2012; 30(15). Available from: https://www.cochranelibrary.com/central/doi/10.1002/central/CN-01008195/full .	Abstract
Davies A, Waghorn M, Boyle J, Gallagher A, Johnsen S. Alternative forms of hydration in patients with cancer in the last days of life: study protocol for a randomised controlled trial. Trials. 2015;16:464.	Studie protocol
Davies A, Waghorn M, Johnsen S. A cluster randomised trial of clinically assisted hydration at the end of life. BMJ supportive and palliative care [Internet]. 2017; 7:[A2-pp.]. Available from: https://www.cochranelibrary.com/central/doi/10.1002/central/CN-02461972/full	Abstract
Davies A, Waghorn M, Roberts M, Gage H, Skene SS. Clinically assisted hydration in patients in the last days of life ('CHELsea II' trial): a cluster randomised trial. BMJ Open. 2022;12(11):e068846.	Studie protocol
Good P, Cavenagh J, Mather M, Ravenscroft P. Medically assisted hydration for palliative care patients. Cochrane Database Syst Rev. 2006(4).	Updated
Good P, Cavenagh J, Mather M, Ravenscroft P. Medically assisted hydration for palliative care patients. Cochrane Database Syst Rev. 2008(2):CD006273.	Updated
Higashiguchi T, Ikegaki J, Sobue K, Tamura Y, Nakajima N, Futamura A, et al. Guidelines for parenteral fluid management for terminal cancer patients. Japanese Journal of Clinical Oncology. 2016;46(11):986-92.	Methodologie van search onvoldoende beschreven
Morita T, Bito S, Koyama H, Uchitomi Y, Adachi I. Development of a national clinical guideline for artificial hydration therapy for terminally ill patients with cancer. J Palliat Med. 2007;10(3):770-80.	Methodologie van search onvoldoende beschreven
Nakajima N, Satake N, Nakaho T. Indications and practice of artificial hydration for terminally ill cancer patients. Curr. 2014;8(4):358-63.	Narrative review
Rajmakers NJH, van Zuylen L, Costantini M, Caraceni A, Clark J, Lundquist G, et al. Artificial nutrition and hydration in the last week of life in cancer patients. A systematic literature review of practices and effects. Ann Oncol. 2011;22(7):1478-86.	Geen kwaliteitsbeoordeling van de geïnccludeerde studies
Reitschuler-Cross E, Arnold B. 2012 - Parenteral hydration did not improve dehydration or quality of life in advanced cancer. ACP journal club [Internet]. 2013; 158(6):[1- pp.]. Available from: https://www.cochranelibrary.com/central/doi/10.1002/central/CN-02419580/full .	Bespreking van Bruera 2013
Suchner U, Reudelsterz C, Gog C. How to manage terminal dehydration. Anaesthesist. 2019;68(Suppl 1):63-75.	Narrative review

Onderzoeksvraag 2

Onderzoeksvraag module 'Wijze van vochttoediening'

Patients/Patiënten	Patiënten (≥ 18 jaar) met dehydratie in de palliatieve fase (met een levensverwachting van < 1 jaar)
Intervention/Interventie	Hypodermoclyse; rectoclyse
Comparison/Vergelijking	(Par)enterale vochttoediening
Outcome(s)/Uitkomst(en)	Cruciaal: Kwaliteit van leven, levensduur, complicaties, mate van rehydratie, dorstgevoel

Zoekstrategie

Ovid MEDLINE(R) <1946 to March 03, 2023>

- 1 Palliative Care/ (62273)
- 2 "Hospice and Palliative Care Nursing"/ (2197)
- 3 exp Palliative Medicine/ (508)
- 4 exp Terminal Care/ (56555)
- 5 Terminally Ill/ (6796)
- 6 palliat*.mp. (101222)
- 7 ((terminal* or advance*) adj6 (care or caring or ill* or sick* or stage*)).mp. (127867)
- 8 (terminal-stage* or (terminal adj1 stage*) or dying or (close adj6 death)).mp. (40302)
- 9 (end adj3 life).mp. (28010)
- 10 hospice*.mp. (19382)
- 11 ((end-stage* or (end adj1 stage*)) adj6 (disease* or ill* or care or caring)).mp. (55944)
- 12 ((incurable or advanced) adj6 (ill* or disease*)).mp. (59268)
- 13 (reduced adj1 life adj2 expectanc*).mp. (936)
- 14 or/1-13 (354684)
- 15 (hypodermoclys* or rectoclys* or proctoclys*).mp. (242)
- 16 exp Hypodermoclysis/ (146)
- 17 ((rectal or rectum) adj3 hydration).mp. (21)
- 18 (subcutaneous* adj3 (fluid* or hydration)).mp. (626)
- 19 15 or 16 or 17 or 18 (834)

Ovid MEDLINE(R) Epub Ahead of Print <March 03, 2023>, Ovid MEDLINE(R) Daily Update <March 03, 2023>

- 1 Palliative Care/ (90)
- 2 "Hospice and Palliative Care Nursing"/ (18)
- 3 exp Palliative Medicine/ (1)
- 4 exp Terminal Care/ (57)
- 5 Terminally Ill/ (1)
- 6 palliat*.mp. (2005)
- 7 ((terminal* or advance*) adj6 (care or caring or ill* or sick* or stage*)).mp. (2061)
- 8 (terminal-stage* or (terminal adj1 stage*) or dying or (close adj6 death)).mp. (747)
- 9 (end adj3 life).mp. (1066)
- 10 hospice*.mp. (480)
- 11 ((end-stage* or (end adj1 stage*)) adj6 (disease* or ill* or care or caring)).mp. (909)
- 12 ((incurable or advanced) adj6 (ill* or disease*)).mp. (1026)
- 13 (reduced adj1 life adj2 expectanc*).mp. (32)
- 14 or/1-13 (6155)
- 15 (hypodermoclys* or rectoclys* or proctoclys*).mp. (3)
- 16 exp Hypodermoclysis/ (1)
- 17 ((rectal or rectum) adj3 hydration).mp. (0)
- 18 (subcutaneous* adj3 (fluid* or hydration)).mp. (10)
- 19 15 or 16 or 17 or 18 (12)

Cochrane Library

#1	MeSH descriptor: [Palliative Care] explode all trees	2241	
#2	palliat*:ti,ab,kw	9433	
#3	MeSH descriptor: [Hospice and Palliative Care Nursing] explode all trees		73
#4	MeSH descriptor: [Palliative Medicine] explode all trees	4	
#5	MeSH descriptor: [Terminally Ill] this term only	111	
#6	MeSH descriptor: [Terminal Care] explode all trees	635	
#7	((terminal* or advance*) near/6 (disease* or care or caring or ill* or sick* or stage*)):ti,ab,kw		16606
#8	(terminal-stage* or (terminal near/1 stage*) or dying or (close near/6 death)):ti,ab,kw		1656
#9	((end-stage* or (end near/1 stage*)) near/6 (disease* or ill* or care or caring)):ti,ab,kw		6690
#10	hospice*:ti,ab,kw	1050	
#11	(end near/3 life):ti,ab,kw	2060	
#12	(incurable near/6 (ill* or disease*)):ti,ab,kw	314	
#13	(reduced near/1 life near/2 expectanc*):ti,ab,kw	120	
#14	{or #1-#13}	33101	
#15	(hypodermoclys* or rectoclys* or proctoclys*):ti,ab,kw	44	
#16	((rectal or rectum) near/3 hydration):ti,ab,kw	11	
#17	MeSH descriptor: [Hypodermoclysis] explode all trees		20
#18	(subcutaneous* near/3 (fluid* or hydration)):ti,ab,kw	80	
#19	{or #15-#18}	123	
#20	#14 AND #19	15	

Embase

#1.	'palliative therapy'/exp	138172	
#2.	'terminal care'/exp	83642	
#3.	'terminally ill patient'/exp	9479	
#4.	palliat*:ti,ab	143408	
#5.	(terminal* NEAR/6 (care OR caring OR ill*)):ti,ab	14478	
#6.	(end NEAR/3 life):ti,ab	45037	
#7.	hospice*:ti,ab	26186	
#8.	'terminal stage*':ti,ab	4769	
#9.	dying:ti,ab	52411	
#10.	(close NEAR/6 death):ti,ab	1611	
#11.	((incurable OR advanced) NEAR/6 (ill* OR disease*)):ti,ab	110664	
#12.	#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11		415581
#13.	hypodermoclys*:ti,ab OR rectoclys*:ti,ab OR proctoclys*:ti,ab	184	
#14.	((rectal OR rectum) NEAR/3 hydration):ti,ab	40	
#15.	(subcutaneous* NEAR/3 (fluid* OR hydration)):ti,ab	986	
#16.	'hypodermoclysis'/exp	180	
#17.	'rectal drug administration'/exp	8619	
#18.	#13 OR #14 OR #15 OR #16 OR #17	9839	
#19.	#12 AND #18	255	
#20.	#12 AND #18 AND ([article]/lim OR [article in press]/lim OR [review]/lim) AND ([dutch]/lim OR [english]/lim OR [french]/lim OR [german]/lim) AND [embase]/lim	85	

Tabel 3. Resultaten van zoekactie van onderzoeksvraag 2

Database	Aantal
Medline	834
PreMedline	12
Embase	85
CDSR	0
CENTRAL	15

Totaal aantal resultaten	946
Aantal geëxcludeerd (dubbelen en foute taal en jaartal)	93
Totaal aantal unieke resultaten	853

Tabel 4. Overzicht van geëxcludeerde studies gebaseerd op beoordeling van de volledige tekst van onderzoeksvraag 2

Referentie	Reden voor exclusie
Agar MR, Chang S, Amgarth-Duff I, Garcia MV, Hunt J, Phillips JL, et al. Investigating the benefits and harms of hypodermoclysis of patients in palliative care: A consecutive cohort study. <i>Palliat Med.</i> 2022;36(5):830-40.	Geen controlegroep
Arinzon Z, Feldman J, Fidelman Z, Gepstein R, Berner YN. Hypodermoclysis (subcutaneous infusion) effective mode of treatment of dehydration in long-term care patients. <i>Arch Gerontol Geriatr.</i> 2004;38(2):167-73.	Geen controlegroep
Bruera E, Anderson K, Palmer J, Cohen M, Coldman B, Roberts L, et al. A randomized, controlled trial of parenteral hydration in patients with advanced cancer. <i>Journal of clinical oncology</i> [Internet]. 2010; 28(15). Available from: https://www.cochranelibrary.com/central/doi/10.1002/central/CN-01767446/full .	Abstract
Bruera E, Belzile M, Watanabe S, Fainsinger RL. Volume of hydration in terminal cancer patients. <i>Support Care Cancer.</i> 1996;4(2):147-50.	Geen controlegroep
Bruera E, Pruvost M, Schoeller T, Montejo G, Watanabe S. Proctoclysis for hydration of terminally ill cancer patients. <i>J Pain Symptom Manage.</i> 1998;15(4):216-9.	Geen controlegroep
Bruno VG. Hypodermoclysis: a literature review to assist in clinical practice. <i>Einstein.</i> 2015;13(1):122-8.	Geen kwaliteitsbeoordeling van geïnccludeerde studies
Cerchietti L, Navigante A, Sauri A, Palazzo F. Hypodermoclysis for control of dehydration in terminal-stage cancer. <i>Int J Palliat Nurs.</i> 2000;6(8):370-4.	Controlegroep kreeg geen hydratatie
Coelho TA, Wainstein AJA, Drummond-Lage AP. Hypodermoclysis as a Strategy for Patients With End-of-Life Cancer in Home Care Settings. <i>Am J Hosp Palliat Care.</i> 2020;37(9):675-82.	Controlegroep kreeg geen hydratatie
Dasgupta M, Binns MA, Rochon PA. Subcutaneous fluid infusion in a long-term care setting. <i>J Am Geriatr Soc.</i> 2000;48(7):795-9.	Geen zuivere vergelijking tussen hypodermoclysis en IV vochttoediening
de Souza RE, Quispe Mendoza IY, Reis AMM, Tavares JPA, Guimaraes GL, Simino GPR, et al. Factors Associated With the Occurrence of Adverse Effects Resulting From Hypodermoclysis in Older Adults in Palliative Care: A Cohort Study. <i>J Infus Nurs.</i> 2023;46(2):107-15.	Geen controlegroep
Fainsinger RL, MacEachern T, Miller MJ, Bruera E, Spachynski K, Kuehn N, et al. The use of hypodermoclysis for rehydration in terminally ill cancer patients. <i>J Pain Symptom Manage.</i> 1994;9(5):298-302.	Controlegroep kreeg geen hydratatie
Hussain NA, Warshaw G. Utility of clysis for hydration in nursing home residents. <i>J Am Geriatr Soc.</i> 1996;44(8):969-73.	Geen controlegroep
Kreuzinger J, Zeeh J. [Dehydration and subcutaneous infusion (hypodermoclysis) in the elderly]. <i>MMW Fortschr Med.</i> 2014;156(4):45-7.	Narrative review
Remington R, Hultman T. Hypodermoclysis to treat dehydration: a review of the evidence. <i>J Am Geriatr Soc.</i> 2007;55(12):2051-5.	Geen kwaliteitsbeoordeling

	van geïnccludeerde studies
Rochon PA, Gill SS, Litner J, Fischbach M, Goodison AJ, Gordon M. A systematic review of the evidence for hypodermoclysis to treat dehydration in older people. <i>J Gerontol A Biol Sci Med Sci.</i> 1997;52(3):M169-76.	Geen kwaliteitsbeoordeling van geïnccludeerde studies
Yap LK, Tan SH, Koo WH. Hypodermoclysis or subcutaneous infusion revisited. <i>Singapore Med J.</i> 2001;42(11):526-9.	Geen controlegroep
Ying I. Artificial nutrition and hydration in advanced dementia. <i>Can Fam Physician.</i> 2015;61(3):245-8, e125-8.	Narrative review

Onderzoeksvraag 3

Onderzoeksvraag module 'Staken van kunstmatige vochttoediening in de stervensfase'

Patients/Patiënten	Patiënten (≥ 18 jaar) in de stervensfase, die behandeld worden met rehydratie en waar wordt overwogen om de behandeling te stoppen
Intervention/Interventie	Staken van (par)enterale vochttoediening
Comparison/Vergelijking	Doorzetten van (par)enterale vochttoediening
Outcome(s)/Uitkomst(en)	Cruciaal: kwaliteit van leven, levensduur, complicaties, mate van rehydratie, dorstgevoel, tevredenheid van naasten

Zoekstrategie

Ovid MEDLINE(R) <1946 to March 17, 2023>

- 1 Palliative Care/ (62324)
- 2 "Hospice and Palliative Care Nursing"/ (2209)
- 3 exp Palliative Medicine/ (509)
- 4 exp Terminal Care/ (56583)
- 5 Terminally Ill/ (6798)
- 6 palliat*.mp. (101332)
- 7 ((terminal* or advance*) adj6 (care or caring or ill* or sick* or stage*)).mp. (128074)
- 8 (terminal-stage* or (terminal adj1 stage*) or dying or (close adj6 death)).mp. (40342)
- 9 (end adj3 life).mp. (28060)
- 10 hospice*.mp. (19413)
- 11 ((end-stage* or (end adj1 stage*)) adj6 (disease* or ill* or care or caring)).mp. (56027)
- 12 ((incurable or advanced) adj6 (ill* or disease*)).mp. (59377)
- 13 (reduced adj1 life adj2 expectanc*).mp. (941)
- 14 or/1-13 (355199)
- 15 fluid therapy/ (21770)
- 16 dehydration/ (14550)
- 17 (hydrat* or dehydrat* or rehydrat* or (fluid* adj6 therap*) or (fluid* adj6 balance*) or (fluid* adj6 manag*) or hypodermoclys* or rectoclys* or proctoclys*).tw. (113138)
- 18 or/15-17 (131808)
- 19 14 and 18 (2492)

Ovid MEDLINE(R) Epub Ahead of Print <March 17, 2023>, Ovid MEDLINE(R) Daily Update <March 17, 2023>

- 1 Palliative Care/ (65)
- 2 "Hospice and Palliative Care Nursing"/ (11)
- 3 exp Palliative Medicine/ (1)
- 4 exp Terminal Care/ (41)
- 5 Terminally Ill/ (1)
- 6 palliat*.mp. (1909)
- 7 ((terminal* or advance*) adj6 (care or caring or ill* or sick* or stage*)).mp. (2031)
- 8 (terminal-stage* or (terminal adj1 stage*) or dying or (close adj6 death)).mp. (733)
- 9 (end adj3 life).mp. (1029)
- 10 hospice*.mp. (452)
- 11 ((end-stage* or (end adj1 stage*)) adj6 (disease* or ill* or care or caring)).mp. (892)
- 12 ((incurable or advanced) adj6 (ill* or disease*)).mp. (1012)
- 13 (reduced adj1 life adj2 expectanc*).mp. (32)
- 14 or/1-13 (6008)
- 15 fluid therapy/ (9)
- 16 dehydration/ (11)

- 17 (hydrat* or dehydrat* or rehydrat* or (fluid* adj6 therap*) or (fluid* adj6 balance*) or (fluid* adj6 manag*) or hypodermoclys* or rectoclys* or proctoclys*).tw. (1488)
 18 or/15-17 (1495)
 19 14 and 18 (44)

Cochrane Library

- #1 MeSH descriptor: [Palliative Care] explode all trees 2241
 #2 palliat*:ti,ab,kw 9433
 #3 MeSH descriptor: [Hospice and Palliative Care Nursing] explode all trees 73
 #4 MeSH descriptor: [Palliative Medicine] explode all trees 4
 #5 MeSH descriptor: [Terminally Ill] this term only 111
 #6 MeSH descriptor: [Terminal Care] explode all trees 635
 #7 ((terminal* or advance*) near/6 (disease* or care or caring or ill* or sick* or stage*)):ti,ab,kw 16606
 #8 (terminal-stage* or (terminal near/1 stage*) or dying or (close near/6 death)):ti,ab,kw 1658
 #9 ((end-stage* or (end near/1 stage*)) near/6 (disease* or ill* or care or caring)):ti,ab,kw 6690
 #10 hospice*:ti,ab,kw 1050
 #11 (end near/3 life):ti,ab,kw 2060
 #12 (incurable near/6 (ill* or disease*)):ti,ab,kw 314
 #13 (reduced near/1 life near/2 expectanc*):ti,ab,kw 120
 #14 {or #1-#13} 33103
 #15 MeSH descriptor: [Fluid Therapy] this term only 1977
 #16 MeSH descriptor: [Dehydration] this term only 651
 #17 (hydrat* or dehydrat* or rehydrat* or (fluid* near/6 therap*) or (fluid* near/6 balance*) or (fluid* near/6 manag*) or hypodermoclys* or rectodermoclys*):ti,ab,kw 15589
 #18 {or #15-#17} 15589
 #19 #14 AND #18 421

Embase

- #1. 'palliative therapy'/exp 138501
 #2. 'terminal care'/exp 83825
 #3. 'terminally ill patient'/exp 9490
 #4. palliat*:ti,ab 143710
 #5. (terminal* NEAR/6 (care OR caring OR ill*)):ti,ab 14499
 #6. (end NEAR/3 life):ti,ab 45160
 #7. hospice*:ti,ab 26249
 #8. 'terminal stage*':ti,ab 4777
 #9. dying:ti,ab 52476
 #10. (close NEAR/6 death):ti,ab 1614
 #11. ((incurable OR advanced) NEAR/6 (ill* OR disease*)):ti,ab 110882
 #12. #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 416431
 #13. 'fluid therapy'/exp 109752
 #14. 'dehydration'/exp 50256
 #15. hydrat*:ti,ab OR dehydrat*:ti,ab OR rehydrat*:ti,ab OR ((fluid* NEAR/6 therap*):ti,ab) OR ((fluid* NEAR/6 balance*):ti,ab) OR ((fluid* NEAR/6 manag*):ti,ab) OR hypodermoclys*:ti,ab OR rectodermoclys*:ti,ab 176856
 #16. #13 OR #14 OR #15 291140
 #17. #12 AND #16 5760
 #18. #12 AND #16 AND ([article]/lim OR [article in press]/lim OR [review]/lim) AND ([dutch]/lim OR [english]/lim OR [french]/lim OR [german]/lim) AND [embase]/lim 3013

Tabel 1. Resultaten van zoekactie van onderzoeksvraag 3

Database	Aantal
Medline	2492

PreMedline	44
Embase	3013
CDSR	16
CENTRAL	405
Totaal aantal resultaten	5970
Aantal geëxcludeerd (dubbelen en foute taal en jaartal)	1045
Totaal aantal unieke resultaten	4925

Tabel 2. Overzicht van geëxcludeerde studies gebaseerd op beoordeling van de volledige tekst van onderzoeksvraag 3

Referentie	Reden voor exclusie
Asch DA, Faber-Langendoen K, Shea JA, Christakis NA. The sequence of withdrawing life-sustaining treatment from patients. <i>Am J Med.</i> 1999;107(2):153-6.	Geen vergelijking tussen stoppen of verderzetten van hydratatie
Bosshard G, Faisst K, Fischer S, Minder R, Zellweger U, Tschopp A, et al. [Forgoing life-sustaining measures in patients at the end of life in the German-speaking part of Switzerland: results of a death certificate study]. <i>Dtsch Med Wochenschr.</i> 2005;130(50):2887-92.	Levensverkorting vermeld, maar niet vergelijkend; stoppen van hydratatie niet af te zonderen van nutritie
Bosshard G, Nilstun T, Bilsen J, Norup M, Miccinesi G, Van Delden JJM, et al. Forgoing treatment at the end of life in 6 European countries. <i>Arch Intern Med.</i> 2005;165(4):401-7.	Enkel korte vermelding van levensverkorting, maar niet echt als vergelijking
Buiting HM, van Delden JJ, Rietjens JA, Onwuteaka-Philipsen BD, Bilsen J, Fischer S, et al. Forgoing artificial nutrition or hydration in patients nearing death in six European countries. <i>J Pain Symptom Manage.</i> 2007;34(3):305-14.	Levensverkorting vermeld, maar niet vergelijkend; stoppen van hydratatie niet af te zonderen van nutritie
Cantor NL. The straight route to withholding hand-feeding and hydration. <i>Am J Bioeth.</i> 2009;9(4):57-8.	Narrative review
Derse AR. Limitation of treatment at the end-of-life: withholding and withdrawal. <i>Clin Geriatr Med.</i> 2005;21(1):223-38, xi.	Narrative review
Devoght A, Menten J, Evers G. Fluid administration in terminal patients of palliative care units. <i>Tijdschrift voor Geneeskunde.</i> 2005;61(3):185-91.	Geen full-text
Donati E, Plotton C, Mainaud N, Gocko X. [Discontinuation of artificial hydration in patients at the end of life: A systematic review of the literature]. <i>Bull Cancer.</i> 2022;109(10):1073-81.	Enkel search in PubMed
Ellershaw JE, Sutcliffe JM, Saunders CM. Dehydration and the dying patient. <i>J Pain Symptom Manage.</i> 1995;10(3):192-7.	Geen vergelijking tussen stoppen of verderzetten van hydratatie
Gigli GL, Valente M. The withdrawal of nutrition and hydration in the vegetative state patient: societal dimension and issues at stake for the medical profession. <i>NeuroRehabilitation.</i> 2004;19(4):315-28.	Narrative review
Groenewoud JH, Van Der Heide A, Kester JGC, De Graaff CLM, Van Der Wal G, Van Der Maas PJ. A nationwide study of decisions to forego life-prolonging treatment in Dutch medical practice. <i>Arch Intern Med.</i> 2000;160(3):357-63.	Levensverkorting vermeld, maar niet vergelijkend

Harvey J, Hamel R. On withdrawing medically administered nutrition and hydration. <i>Origins</i> . 2004;33(43):748-51.	Case reports
Mayers T, Kashiwagi S, Mathis BJ, Kawabe M, Gallagher J, Morales Aliaga ML, et al. International review of national-level guidelines on end-of-life care with focus on the withholding and withdrawing of artificial nutrition and hydration. <i>Geriatr Gerontol Int</i> . 2019;19(9):847-53.	Methodologie onvoldoende toegelicht
Morita T, Bito S, Koyama H, Uchitomi Y, Adachi I. Development of a national clinical guideline for artificial hydration therapy for terminally ill patients with cancer. <i>J Palliat Med</i> . 2007;10(3):770-80.	Enkel PubMed search; geen kwaliteitsbeoordeling van geïnccludeerde studies
Morita T, Hyodo I, Yoshimi T, Ikenaga M, Tamura Y, Yoshizawa A, et al. Artificial hydration therapy, laboratory findings, and fluid balance in terminally ill patients with abdominal malignancies. <i>J Pain Symptom Manage</i> . 2006;31(2):130-9.	Geen vergelijking tussen stoppen of verderzetten van hydratie
Morita T, Hyodo I, Yoshimi T, Ikenaga M, Tamura Y, Yoshizawa A, et al. Association between hydration volume and symptoms in terminally ill cancer patients with abdominal malignancies. <i>Ann Oncol</i> . 2005;16(4):640-7.	Geen vergelijking tussen stoppen of verderzetten van hydratie
Norberg A, Asplund K, Waxman H. Withdrawing feeding and withholding artificial nutrition from severely demented patients. Interviews with caregivers. <i>West J Nurs Res</i> . 1987;9(3):348-56.	Geen vergelijking tussen stoppen of verderzetten van hydratie
Oh DY, Kim JH, Lee SH, Kim DW, Im SA, Kim TY, et al. Artificial nutrition and hydration in terminal cancer patients: the real and the ideal. <i>Support Care Cancer</i> . 2007;15(6):631-6.	Geen vergelijking tussen stoppen of verderzetten van hydratie
Pasman HR, Onwuteaka-Philipsen BD, Kriegsman DM, Ooms ME, Ribbe MW, Van der Wal G. [Degree of discomfort following the decision to discontinue artificial nutrition and hydration in institutionalised psychogeriatric patients with severe dementia who no longer or scarcely eat or drink]. <i>Ned Tijdschr Geneesk</i> . 2006;150(5):243-8.	Geen vergelijking tussen stoppen of verderzetten van hydratie
Pasman HRW, Onwuteaka-Philipsen BD, Ooms ME, Van Wigcheren PT, Van Der Wal G, Ribbe MW. Forgoing artificial nutrition and hydration in nursing home patients with dementia: Patients, decision making, and participants. <i>Alzheimer Disease and Associated Disorders</i> . 2004;18(3):154-62.	Geen vergelijking tussen stoppen of verderzetten van hydratie
Pawlikowski J, Muszala A, Gajewski P, Krajnik M. Discontinuation of hydration and nutrition in vegetative or minimally conscious state: Position statement of the Polish Association for Spiritual Care in Medicine 2020. <i>Pol Arch Intern Med</i> . 2021;131(1):111-3.	Position statement
Rietjens JAC, Van Der Heide A, Vrakking AM, Onwuteaka-Philipsen BD, Van Der Maas PJ, Van Der Wal G. Physician reports of terminal sedation without hydration or nutrition for patients nearing death in the Netherlands. <i>Ann Intern Med</i> . 2004;141(3):178-85+I-22.	Geen vergelijking tussen stoppen of verderzetten van hydratie
Somers E, Grey C, Satkoske V. Withholding versus withdrawing treatment: artificial nutrition and hydration as a model. <i>Curr</i> . 2016;10(3):208-13.	Narrative review
The AM, Pasman R, Onwuteaka-Philipsen B, Ribbe M, van der Wal G. Withholding the artificial administration of fluids and food from elderly patients with dementia: ethnographic study. <i>Bmj</i> . 2002;325(7376):1326.	Geen vergelijking tussen stoppen of verderzetten van hydratie

van der Heide A, Muller MT, Kester JG, Groenewoud JH, van der Wal G, van der Maas PJ. [Frequency of decisions to forgo (artificial) administration of food and fluids at life's end]. Ned Tijdschr Geneesk. 1997;141(40):1918-24.	Geen vergelijking tussen stoppen of verderzetten van hydratatie
Viola RA, Wells GA, Peterson J. The effects of fluid status and fluid therapy on the dying: a systematic review. J Palliat Care. 1997;13(4):41-52.	Geen studies over stoppen van rehydratie
White KS, Hall JC. Ethical dilemmas in artificial nutrition and hydration: initiation vs. withholding. Nurs Case Manag. 1999;4(2):85-9.	Narrative review