

Zoekverantwoording

- **Onderzoeksvraag 1**

| | |
|--------------------------|---|
| Patients/Patiënten | Patiënten (≥ 18 jaar) in de palliatieve fase met diarree |
| Intervention/Interventie | Laboratoriumonderzoek (glucose, CRP), faeces kweek, endoscopie |
| Comparison/Vergelijking | Geen aanvullend onderzoek, care as usual |
| Outcome(s)/Uitkomst(en) | Diarree/symptoomverlichting, kwaliteit van leven, patiënttevredenheid |

- Zoekstrategie: originele search

Ovid MEDLINE(R) <1946 to April Week 4 2023>

- 1 diarrh*.ti,ab. (110180)
- 2 exp Diarrhea/ (57406)
- 3 1 or 2 (125062)
- 4 Palliative Care/ (62664)
- 5 "Hospice and Palliative Care Nursing"/ (2279)
- 6 exp Palliative Medicine/ (519)
- 7 exp Terminal Care/ (56787)
- 8 Terminally Ill/ (6806)
- 9 palliat*.mp. (101995)
- 10 ((terminal* or advance*) adj6 (care or caring or ill* or sick* or stage*)).mp. (128951)
- 11 (terminal-stage* or (terminal adj1 stage*) or dying or (close adj6 death)).mp. (40556)
- 12 (end adj3 life).mp. (28358)
- 13 hospice*.mp. (19591)
- 14 ((end-stage* or (end adj1 stage*)) adj6 (disease* or ill* or care or caring)).mp. (56434)
- 15 ((incurable or advanced) adj6 (ill* or disease*)).mp. (59751)
- 16 (reduced adj1 life adj2 expectanc*).mp. (948)
- 17 or/4-16 (357489)
- 18 3 and 17 (2069)

Ovid MEDLINE(R) Epub Ahead of Print <May 05, 2023>, Ovid MEDLINE(R) Daily Update <May 05, 2023>

- 1 diarrh*.ti,ab. (1348)
- 2 exp Diarrhea/ (84)
- 3 1 or 2 (1350)
- 4 Palliative Care/ (91)
- 5 "Hospice and Palliative Care Nursing"/ (26)
- 6 exp Palliative Medicine/ (2)
- 7 exp Terminal Care/ (60)
- 8 Terminally Ill/ (3)
- 9 palliat*.mp. (2011)
- 10 ((terminal* or advance*) adj6 (care or caring or ill* or sick* or stage*)).mp. (2113)
- 11 (terminal-stage* or (terminal adj1 stage*) or dying or (close adj6 death)).mp. (750)
- 12 (end adj3 life).mp. (1063)
- 13 hospice*.mp. (484)
- 14 ((end-stage* or (end adj1 stage*)) adj6 (disease* or ill* or care or caring)).mp. (897)
- 15 ((incurable or advanced) adj6 (ill* or disease*)).mp. (1017)
- 16 (reduced adj1 life adj2 expectanc*).mp. (31)
- 17 or/4-16 (6180)
- 18 3 and 17 (44)

Cochrane Library

- #1 MeSH descriptor: [Palliative Care] explode all trees 2256
- #2 MeSH descriptor: [Terminal Care] explode all trees 694

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|-----|---|-------|
| #3 | MeSH descriptor: [Palliative Medicine] explode all trees | 4 |
| #4 | MeSH descriptor: [Hospice and Palliative Care Nursing] explode all trees | 73 |
| #5 | MeSH descriptor: [Terminally Ill] explode all trees | 111 |
| #6 | palliat*:ti,ab | 7828 |
| #7 | ((terminal* or advance*) NEAR/6 (care or caring or ill* or sick* or stage*)):ti,ab | 9503 |
| #8 | (terminal-stage* or (terminal NEAR/1 stage*) or dying or (close NEAR/6 death)):ti,ab | 1645 |
| #9 | (end NEAR/3 life):ti,ab | 2072 |
| #10 | hospice*:ti,ab | 904 |
| #11 | ((end-stage* or (end NEAR/1 stage*)) NEAR/6 (disease* or ill* or care or caring)):ti,ab | 5835 |
| #12 | ((incurable or advanced) NEAR/6 (ill* or disease*)):ti,ab | 7729 |
| #13 | (reduced NEAR/1 life NEAR/2 expectanc*):ti,ab | 121 |
| #14 | {or #1-#13} | 30744 |
| #15 | diarrh*:ti,ab | 21331 |
| #16 | MeSH descriptor: [Diarrhea] explode all trees | 7218 |
| #17 | #15 or #16 | 23047 |
| #18 | #14 and #17 | 689 |

Embase

| | | |
|------|--|--------|
| #1. | diarrh*:ti,ab | 189233 |
| #2. | 'diarrhea'/exp | 312921 |
| #3. | #1 OR #2 | 362291 |
| #4. | 'palliative therapy'/exp | 140075 |
| #5. | 'terminal care'/exp | 84553 |
| #6. | 'terminally ill patient'/exp | 9534 |
| #7. | palliat*:ti,ab | 145080 |
| #8. | (terminal* NEAR/6 (care OR caring OR ill*)):ti,ab | 14558 |
| #9. | (end NEAR/3 life):ti,ab | 45681 |
| #10. | hospice*:ti,ab | 26539 |
| #11. | 'terminal stage*':ti,ab | 4792 |
| #12. | dying:ti,ab | 52874 |
| #13. | (close NEAR/6 death):ti,ab | 1629 |
| #14. | ((incurable OR advanced) NEAR/6 (ill* OR disease*)):ti,ab | 111948 |
| #15. | #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 | 420259 |
| #16. | #3 AND #15 | 9275 |
| #17. | #3 AND #15 AND ([article]/lim OR [article in press]/lim OR [review]/lim) AND ([dutch]/lim OR [english]/lim) AND [embase]/lim | 6433 |

Tabel 1. Resultaten van originele zoekactie van onderzoeksvraag 1

| Database | Aantal |
|---|-------------|
| Medline | 2069 |
| PreMedline | 44 |
| Embase | 6433 |
| CDSR | 31 |
| CENTRAL | 658 |
| Totaal aantal resultaten | 9235 |
| Aantal geëxcludeerd (dubbelen en foute taal en jaartal) | 1500 |
| Totaal aantal unieke resultaten | 7735 |

Tabel 2. Overzicht van geëxcludeerde studies gebaseerd op beoordeling van de volledige tekst van onderzoeksvraag 1: originele search

| Referentie | Reden voor exclusie |
|------------|---------------------|
|------------|---------------------|

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|--|---------------------------------------|
| Abella E, Gimenez T, Gimeno J, Cervera M, Pedro C, Gimeno E, et al. Diarrheic syndrome as a clinical sign of intestinal infiltration in progressive B-cell chronic lymphocytic leukemia. <i>Leuk Res.</i> 2009;33(1):159-61. | Geen vergelijkende studie |
| Abernethy AP, Wheeler JL, Zafar SY. Detailing of gastrointestinal symptoms in cancer patients with advanced disease: new methodologies, new insights, and a proposed approach. <i>Curr.</i> 2009;3(1):41-9. | Narrative review |
| Alderman J. Diarrhea in palliative care. <i>J Palliat Med.</i> 2005;8(2):449-50. | Narrative review |
| Andreou L, Burrows T, Surjan Y. The effect of nutritional interventions involving dietary counselling on gastrointestinal toxicities in adults receiving pelvic radiotherapy – A systematic review. <i>Journal of Medical Radiation Sciences.</i> 2021;68(4):453-64. | Geen diagnostische interventie |
| Aretin MB. Obstipation and diarrhoea in palliative care—a pharmacist’s view. <i>Memo - Magazine of European Medical Oncology.</i> 2021;14(1):44-7. | Narrative review |
| Beckwith MC, Lipman AG. Diarrhea in palliative care patients. <i>Journal of Pharmaceutical Care in Pain and Symptom Control.</i> 2000;7(4):91-108. | Narrative review |
| Bossi P, Antonuzzo A, Cherny NI, Rosengarten O, Pernot S, Trippa F, et al. Diarrhoea in adult cancer patients: ESMO Clinical Practice Guidelines. <i>Ann Oncol.</i> 2018;29(Suppl 4):iv126-iv42. | Geen systematisch literatuuroverzicht |
| Brearley S, Alex M, Mark S, Olive C, Ric S, Karen L. A randomised controlled trial of a home care nursing programme versus standard care in the management of symptoms in colorectal and breast cancer patients receiving oral chemotherapy. <i>Support Care Cancer</i> [Internet]. 2009; 17(7):[945-6 pp.]. Available from: https://www.cochranelibrary.com/central/doi/10.1002/central/CN-01739037/full | Geen diagnostische interventie |
| Cherny NI. Evaluation and management of treatment-related diarrhea in patients with advanced cancer: a review. <i>J Pain Symptom Manage.</i> 2008;36(4):413-23. | Narrative review |
| Cherny NI. Taking care of the terminally ill cancer patient: Management of gastrointestinal symptoms in patients with advanced cancer. <i>Ann Oncol.</i> 2004;15(SUPPL. 4):iv205-iv13. | Narrative review |
| Fallon M, O'Neill B. ABC of palliative care. Constipation and diarrhoea. <i>Bmj.</i> 1997;315(7118):1293-6. | Narrative review |
| Gattuso JM, Kamm MA. Adverse effects of drugs used in the management of constipation and diarrhoea. <i>Drug Saf.</i> 1994;10(1):47-65. | Narrative review |
| Giridhar V, Kumar S, Chethan K, Seetharam P. Successful palliation of diarrhea owing to malignant duodenocolic fistula by octreotide. <i>Can J Surg.</i> 2009;52(6):E306-8. | Case report |
| Hagmann C, Cramer A, Kestenbaum A, Durazo C, Downey A, Russell M, et al. Evidence-based Palliative Care Approaches to Non-pain Physical Symptom Management in Cancer Patients. <i>Semin Oncol Nurs.</i> 2018;34(3):227-40. | Narrative review |
| Iannitti T, Palmieri B. Therapeutical use of probiotic formulations in clinical practice. <i>Clinical Nutrition.</i> 2010;29(6):701-25. | Narrative review |
| Jaffe G. A comparison of lomotil and imodium in acute non specific diarrhoea. <i>J Int Med Res.</i> 1977;5(3):195-8. | Geen diagnostische interventie |
| Johanson JF. Diagnosis and management of AIDS-related diarrhea. <i>Canadian Journal of Gastroenterology.</i> 1996;10(7):461-8. | Narrative review |
| Kelly P. HIV-related diarrhoea. <i>AIDS Action.</i> 1998(39):7. | Narrative review |
| Kotlinska-Lemieszek A, Klepstad P, Haugen DF. Clinically Significant Drug-Drug Interactions Involving Medications Used for Symptom Control in Patients With Advanced Malignant Disease: A Systematic Review. <i>Journal of Pain and Symptom Management.</i> 2019;57(5):989-98.e1. | Geen diagnostische interventie |
| Levy MH, Catalano RB. Control of common physical symptoms other than pain in patients with terminal disease. <i>Semin Oncol.</i> 1985;12(4):411-30. | Narrative review |

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| Lin DC. Probiotics As Functional Foods. <i>Nutr Clin Pract.</i> 2003;18(6):497-506. | Narrative review |
| Mercadante S, Fulfaro F, Casuccio A. The impact of home palliative care on symptoms in advanced cancer patients. <i>Support Care Cancer.</i> 2000;8(4):307-10. | Geen vergelijkende studie; slechts minderheid had diarree |
| Mercadante S. Diarrhea in terminally ill patients: pathophysiology and treatment. <i>J Pain Symptom Manage.</i> 1995;10(4):298-309. | Narrative review |
| Mochamat, Cuhls H, Marinova M, Kaasa S, Stieber C, Conrad R, et al. A systematic review on the role of vitamins, minerals, proteins, and other supplements for the treatment of cachexia in cancer: a European Palliative Care Research Centre cachexia project. <i>Journal of Cachexia, Sarcopenia and Muscle.</i> 2017;8(1):25-39. | Geen diagnostische interventie |
| Molassiotis A, Brearley S, Saunders M, Craven O, Wardley A, Farrell C, et al. Effectiveness of a home care nursing program in the symptom management of patients with colorectal and breast cancer receiving oral chemotherapy: a randomized, controlled trial. <i>J Clin Oncol.</i> 2009;27(36):6191-8. | Geen diagnostische interventie |
| Prommer E. Role of codeine in palliative care. <i>J Opioid Manag.</i> 2011;7(5):401-6. | Geen diagnostische interventie |
| Prommer EE. Established and potential therapeutic applications of octreotide in palliative care. <i>Support Care Cancer.</i> 2008;16(10):1117-23. | Narrative review; interventie niet vermeld in PICO |
| Rangwala F, Zafar SY, Abernethy AP. Gastrointestinal symptoms in cancer patients with advanced disease: new methodologies, insights, and a proposed approach. <i>Curr.</i> 2012;6(1):69-76. | Narrative review |
| Regnard C, Twycross R, Mihalyo M, Wilcock A. Loperamide. <i>Journal of Pain and Symptom Management.</i> 2011;42(2):319-23. | Narrative review |
| Ripamonti C, Grosso MI. Palliative medical management. <i>European Journal of Cancer, Supplement.</i> 2005;3(3):203-19. | Narrative review |
| Schiller LR. Management of diarrhea in clinical practice: Strategies for primary care physicians. <i>Rev Gastroenterol Disord.</i> 2007;7(SUPPL. 3):S27-S38. | Narrative review |
| Senderovich H, Vierhout MJ. Is there a role for charcoal in palliative diarrhea management? <i>Curr Med Res Opin.</i> 2018;34(7):1253-9. | Geen diagnostische interventie |
| Shah U, Morrison T. A review of the symptomatic management of malignant gliomas in adults. <i>J.</i> 2013;11(4):424-9. | Gaat niet over diarree |
| Suhag V. Palliative therapy in cancer patients: An overview. <i>JK Science.</i> 2005;7(2):67-72. | Narrative review |

- Zoekstrategie: aanvullende search

Ovid MEDLINE(R) <1946 to June 16, 2023>

- 1 diarrh*.ti,ab. (110573)
- 2 exp Diarrhea/ (57530)
- 3 1 or 2 (125461)
- 4 meta-analysis.mp,pt. or review.pt. or search:.tw. (3247023)
- 5 exp Neoplasms/ (3843088)
- 6 Neoplasm Staging/ (192683)
- 7 cancer\$.ti,ab. (1879944)
- 8 tumor\$.ti,ab. (1494166)
- 9 tumour\$.ti,ab. (275311)
- 10 carcinoma\$.ti,ab. (662496)
- 11 neoplas\$.ti,ab. (261186)
- 12 lymphoma.ti,ab. (161588)
- 13 melanoma.ti,ab. (115915)

14 staging.ti,ab. (80630)
15 metastas\$.ti,ab. (366859)
16 metastatic.ti,ab. (232683)
17 exp Neoplasm Metastasis/ (221398)
18 exp neoplastic processes/ (514619)
19 neoplastic process\$.ti,ab. (2907)
20 non small cell.ti,ab. (66099)
21 adenocarcinoma\$.ti,ab. (149675)
22 squamous cell.ti,ab. (109774)
23 nsclc.ti,ab. (45680)
24 osteosarcoma\$.ti,ab. (24111)
25 phyllodes.ti,ab. (1941)
26 cystosarcoma\$.ti,ab. (569)
27 fibroadenoma\$.ti,ab. (3606)
28 (non adj small adj cell).ti,ab. (66099)
29 (non adj2 small adj2 cell).ti,ab. (66344)
30 (nonsmall adj2 cell).ti,ab. (3117)
31 plasmacytoma\$.ti,ab. (6264)
32 myeloma.ti,ab. (53290)
33 multiple myeloma.ti,ab. (38715)
34 lymphoblastoma\$.ti,ab. (346)
35 lymphocytoma\$.ti,ab. (337)
36 lymphosarcoma\$.ti,ab. (4077)
37 immunocytoma.ti,ab. (404)
38 sarcoma\$.ti,ab. (95164)
39 hodgkin\$.ti,ab. (64437)
40 (nonhodgkin\$ or non hodgkin\$).ti,ab. (37235)
41 malignan\$.ti,ab. (582687)
42 exp Paraneoplastic Syndromes/ (34224)
43 or/5-42 (4584434)
44 3 and 4 and 43 (3313)

Ovid MEDLINE(R) Epub Ahead of Print <June 16, 2023>, Ovid MEDLINE(R) Daily Update <June 16, 2023>

1 diarrh*.ti,ab. (1317)
2 exp Diarrhea/ (39)
3 1 or 2 (1318)
4 meta-analysis.mp,pt. or review.pt. or search:.tw. (53792)
5 exp Neoplasms/ (5204)
6 Neoplasm Staging/ (123)
7 cancer\$.ti,ab. (30228)
8 tumor\$.ti,ab. (18733)
9 tumour\$.ti,ab. (2544)
10 carcinoma\$.ti,ab. (7020)
11 neoplas\$.ti,ab. (3129)
12 lymphoma.ti,ab. (1898)
13 melanoma.ti,ab. (1424)
14 staging.ti,ab. (1213)
15 metastas\$.ti,ab. (5163)
16 metastatic.ti,ab. (3364)
17 exp Neoplasm Metastasis/ (98)
18 exp neoplastic processes/ (465)
19 neoplastic process\$.ti,ab. (22)
20 non small cell.ti,ab. (1301)
21 adenocarcinoma\$.ti,ab. (1937)
22 squamous cell.ti,ab. (1554)
23 nsclc.ti,ab. (937)

- 24 osteosarcoma\$.ti,ab. (259)
- 25 phyllodes.ti,ab. (15)
- 26 cystosarcoma\$.ti,ab. (2)
- 27 fibroadenoma\$.ti,ab. (74)
- 28 (non adj small adj cell).ti,ab. (1301)
- 29 (non adj2 small adj2 cell).ti,ab. (1304)
- 30 (nonsmall adj2 cell).ti,ab. (44)
- 31 plasmacytoma\$.ti,ab. (45)
- 32 myeloma.ti,ab. (575)
- 33 multiple myeloma.ti,ab. (518)
- 34 lymphoblastoma\$.ti,ab. (0)
- 35 lymphocytoma\$.ti,ab. (4)
- 36 lymphosarcoma\$.ti,ab. (1)
- 37 immunocytoma.ti,ab. (1)
- 38 sarcoma\$.ti,ab. (938)
- 39 hodgkin\$.ti,ab. (529)
- 40 (nonhodgkin\$ or non hodgkin\$).ti,ab. (306)
- 41 malignan\$.ti,ab. (7626)
- 42 exp Paraneoplastic Syndromes/ (41)
- 43 or/5-42 (48788)
- 44 3 and 4 and 43 (76)

Cochrane Library

- #1 diarrh*.ti,ab 21416
- #2 MeSH descriptor: [Diarrhea] explode all trees 7235
- #3 #1 or #2 23133
- #4 MeSH descriptor: [Neoplasms] explode all trees 111266
- #5 MeSH descriptor: [Neoplasm Staging] explode all trees 8446
- #6 cancer*.ti,ab 172616
- #7 tumor*.ti,ab 63836
- #8 tumour*.ti,ab 14216
- #9 carcinoma*.ti,ab 34472
- #10 neoplasm*.ti,ab 8124
- #11 lymphoma:ti,ab 10422
- #12 melanoma:ti,ab 5854
- #13 staging:ti,ab 5966
- #14 metastas*.ti,ab 20801
- #15 metastatic:ti,ab 32408
- #16 MeSH descriptor: [Neoplasm Metastasis] explode all trees 6537
- #17 MeSH descriptor: [Neoplastic Processes] explode all trees 13073
- #18 neoplastic process*.ti,ab 200
- #19 (non NEAR small NEAR cell):ti,ab 13231
- #20 adenocarcinoma*.ti,ab 9478
- #21 (squamous NEAR cell):ti,ab 8352
- #22 nslc:ti,ab 11197
- #23 osteosarcoma*.ti,ab 481
- #24 phyllodes:ti,ab 4
- #25 cystosarcoma*.ti,ab 0
- #26 fibroadenoma*.ti,ab 94
- #27 (non NEAR/2 small NEAR/2 cell):ti,ab 13204
- #28 (nonsmall NEAR/2 cell):ti,ab 10427
- #29 plasmacytoma*.ti,ab 113
- #30 myeloma:ti,ab 6060
- #31 (multiple NEAR myeloma):ti,ab 5493
- #32 lymphoblastoma*.ti,ab 0
- #33 lymphocytoma*.ti,ab 1

#34 lymphosarcoma*:ti,ab 23
 #35 immunocytoma:ti,ab 16
 #36 sarcoma*:ti,ab 2700
 #37 hodgkin*:ti,ab 5608
 #38 (nonhodgkin* or (non NEAR hodgkin*)):ti,ab 3392
 #39 malignan*:ti,ab 28880
 #40 MeSH descriptor: [Paraneoplastic Syndromes] explode all trees 413
 #41 {or #4-#40} 268618
 #42 #3 and #41 7314

Embase

#1. 'neoplasm'/exp 5999257
 #2. 'cancer staging'/exp 445506
 #3. cancer*:ti,ab 3147220
 #4. tumor*:ti,ab 2375524
 #5. tumour*:ti,ab 432350
 #6. carcinoma*:ti,ab 1035837
 #7. lymphoma:ti,ab 273835
 #8. melanoma:ti,ab 188165
 #9. staging:ti,ab 153036
 #10. metastatic:ti,ab 438438
 #11. 'metastasis'/exp 814154
 #12. 'oncogenesis and malignant transformation'/exp 1233831
 #13. neoplastic AND process*:ti,ab 18061
 #14. (non NEAR/1 small NEAR/1 cell):ti,ab 131262
 #15. adenocarcinoma*:ti,ab 268199
 #16. (squamous NEAR/1 cell):ti,ab 179932
 #17. nsclc:ti,ab 107544
 #18. osteosarcoma*:ti,ab 36309
 #19. phyllodes:ti,ab 3080
 #20. cystosarcoma*:ti,ab 686
 #21. fibroadenoma*:ti,ab 5577
 #22. (non NEAR/2 small NEAR/2 cell):ti,ab 131511
 #23. (nonsmall NEAR/2 cell):ti,ab 109703
 #24. plasmacytoma*:ti,ab 8910
 #25. myeloma:ti,ab 100399
 #26. (multiple NEAR/1 myeloma):ti,ab 79403
 #27. lymphoblastoma*:ti,ab 347
 #28. lymphocytoma*:ti,ab 447
 #29. lymphosarcoma*:ti,ab 4591
 #30. immunocytoma:ti,ab 472
 #31. sarcoma*:ti,ab 140351
 #32. hodgkin*:ti,ab 105926
 #33. nonhodgkin*:ti,ab OR ((non NEAR/1 hodgkin*):ti,ab) 63099
 #34. malignan*:ti,ab 982855
 #35. 'paraneoplastic syndrome'/exp 50652
 #36. #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #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 OR #28
 OR #29 OR #30 OR #31 OR #32 OR #33 OR #34 OR #35 7141528
 #37. diarrh*:ti,ab 190830
 #38. 'diarrhea'/exp 315563
 #39. #37 OR #38 365156
 #40. #36 AND #39 122323
 #41. #36 AND #39 AND ([cochrane review]/lim OR [systematic review]/lim OR [meta analysis]/lim) AND ([article]/lim
 OR [article in press]/lim OR [review]/lim) AND ([dutch]/lim OR [english]/lim) AND [embase]/lim 3618

Tabel 3. Resultaten van aanvullende zoekactie van onderzoeksvraag 1

| Database | Aantal |
|---|---------------|
| Medline | 3313 |
| PreMedline | 76 |
| Embase | 3618 |
| CDSR | 82 |
| Totaal aantal resultaten | 7089 |
| Aantal geëxcludeerd (dubbelen en foute taal en jaartal) | 1057 |
| Totaal aantal unieke resultaten | 6032 |

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

| Referentie | Reden voor exclusie |
|---|---|
| Alexandraki KI, Angelousi A, Chatzellis E, Chrisoulidou A, Kalogeris N, Kanakis G, et al. The Role of Somatostatin Analogues in the Control of Diarrhea and Flushing as Markers of Carcinoid Syndrome: A Systematic Review and Meta-Analysis. <i>Journal of Personalized Medicine</i> . 2023;13(2). | Geen diagnostische interventie |
| Amiri Khosroshahi R, Zeraattalab-Motlagh S, Sarsangi P, Nielsen SM, Mohammadi H. Effect of probiotic supplementation on chemotherapy- and radiotherapy-related diarrhoea in patients with cancer: an umbrella review of systematic reviews and meta-analyses. <i>Br J Nutr</i> . 2023:1-12. | Geen diagnostische interventie |
| Andreyev J, Ross P, Donnellan C, Lennan E, Leonard P, Waters C, et al. Guidance on the management of diarrhoea during cancer chemotherapy. <i>Lancet Oncol</i> . 2014;15(10):e447-60. | Geen methodologie van literatuuronderzoek |
| Anthony L. New strategies for the prevention and reduction of cancer treatment-induced diarrhea. <i>Semin Oncol Nurs</i> . 2003;19(4 Suppl 3):17-21. | Narrative review |
| Benson AB, 3rd, Ajani JA, Catalano RB, Engelking C, Kornblau SM, Martenson JA, Jr., et al. Recommended guidelines for the treatment of cancer treatment-induced diarrhea. <i>J Clin Oncol</i> . 2004;22(14):2918-26. | Geen methodologie van literatuuronderzoek |
| Bhattacharya S, Vijayasekar C, Worlding J, Mathew G. Octreotide in chemotherapy induced diarrhoea in colorectal cancer: a review article. <i>Acta Gastroenterol Belg</i> . 2009;72(3):289-95. | Geen diagnostische interventie |
| Chen Y, Qi A, Teng D, Li S, Yan Y, Hu S, et al. Probiotics and synbiotics for preventing postoperative infectious complications in colorectal cancer patients: a systematic review and meta-analysis. <i>Tech Coloproctol</i> . 2022;26(6):425-36. | Geen diagnostische interventie |
| Cherny NI. Taking care of the terminally ill cancer patient: Management of gastrointestinal symptoms in patients with advanced cancer. <i>Ann Oncol</i> . 2004;15(SUPPL. 4):iv205-iv13. | Narrative review |
| Cherwin C, Nakad L, Albashayreh A. Systematic Review of Nonpharmacologic Approaches for the Management of Gastrointestinal Symptoms. <i>Oncol Nurs Forum</i> . 2019;46(1):E1-E21. | Geen diagnostische interventie |
| Cogo E, Elsayed M, Liang V, Cooley K, Guerin C, Psihogios A, et al. Probiotics evaluation in oncological surgery: A systematic review of 36 randomized controlled trials assessing 21 diverse formulations. <i>Curr</i> . 2021;28(6):5192-214. | Geen diagnostische interventie |
| Collins M, Soularue E, Marthey L, Carbonnel F. Management of Patients With Immune Checkpoint Inhibitor-Induced Enterocolitis: A Systematic Review. <i>Clinical Gastroenterology and Hepatology</i> . 2020;18(6):1393-403.e1. | Enkel PubMed, geen kwaliteitsbeoordeling van geïnccludeerde studies |

| | |
|---|---|
| Danis R, Mego M, Antonova M, Stepanova R, Svobodnik A, Hejnova R, et al. Orally Administered Probiotics in the Prevention of Chemotherapy (± Radiotherapy)-Induced Gastrointestinal Toxicity: A Systematic Review With Meta-Analysis of Randomized Trials. <i>Integ Cancer Ther.</i> 2022;21. | Geen diagnostische interventie |
| Deleemans JM, Gajtani Z, Baydoun M, Reimer RA, Piedalue KA, Carlson LE. The Use of Prebiotic and Probiotic Interventions for Treating Gastrointestinal and Psychosocial Health Symptoms in Cancer Patients and Survivors: A Systematic Review. <i>Integ Cancer Ther.</i> 2021;20:15347354211061733. | Geen diagnostische interventie |
| Devaraj NK, Suppiah S, Veettil SK, Ching SM, Lee KW, Menon RK, et al. The Effects of Probiotic Supplementation on the Incidence of Diarrhea in Cancer Patients Receiving Radiation Therapy: A Systematic Review with Meta-Analysis and Trial Sequential Analysis of Randomized Controlled Trials. <i>Nutrients.</i> 2019;11(12):27. | Geen diagnostische interventie |
| Ding M, Zhang X, Wang J, Gao F, Zheng X, Yuan J, et al. Treatment and outcomes of immune checkpoint inhibitors-associated colitis/diarrhea: A systematic review and meta-analysis. <i>Dig Liver Dis.</i> 2023;07:07. | Geen diagnostische interventie |
| Faiman B. Diarrhea in Multiple Myeloma: A Review of the Literature. <i>Clin J Oncol Nurs.</i> 2016;20(4):E100-5. | Narrative review |
| Fragkos KC, Zárata-Lopez N, Frangos CC. What about clonidine for diarrhoea? A systematic review and meta-analysis of its effect in humans. <i>Therapeutic Advances in Gastroenterology.</i> 2015;9(3):282-301. | Geen diagnostische interventie |
| Fuccio L, Guido A, Eusebi LH, Laterza L, Grilli D, Cennamo V, et al. Effects of probiotics for the prevention and treatment of radiation-induced diarrhea. <i>J Clin Gastroenterol.</i> 2009;43(6):506-13. | Geen diagnostische interventie |
| Garczyk A, Kaliciak I, Drogowski K, Horwat P, Kopeć S, Staręga Z, et al. Influence of Probiotics in Prevention and Treatment of Patients Who Undergo Chemotherapy or/and Radiotherapy and Suffer from Mucositis, Diarrhoea, Constipation, Nausea and Vomiting. <i>Journal of Clinical Medicine.</i> 2022;11(12). | Geen diagnostische interventie |
| Gwede CK. Overview of radiation- and chemoradiation-induced diarrhea. <i>Semin Oncol Nurs.</i> 2003;19(4 Suppl 3):6-10. | Narrative review |
| Haas S, Mikkelsen AH, Kronborg CJS, Oggesen BT, Møller PF, Fassov J, et al. Management of treatment-related sequelae following colorectal cancer. <i>Colorectal Dis.</i> 2023;25(3):458-88. | Gaat niet over behandeling van diarree |
| Hamad A, Fragkos KC, Forbes A. A systematic review and meta-analysis of probiotics for the management of radiation induced bowel disease. <i>Clin Nutr.</i> 2013;32(3):353-60. | Geen diagnostische interventie |
| Hassan H, Rompola M, Glaser AW, Kinsey SE, Phillips RS. Systematic review and meta-analysis investigating the efficacy and safety of probiotics in people with cancer. <i>Support Care Cancer.</i> 2018;26(8):2503-9. | Geen diagnostische interventie |
| Henson CC, Burden S, Davidson SE, Lal S. Nutritional interventions for reducing gastrointestinal toxicity in adults undergoing radical pelvic radiotherapy. <i>Cochrane Database Syst Rev.</i> 2013(11):CD009896. | Geen diagnostische interventie |
| Holm MO, Bye A, Falkmer U, Tobberup R, Rasmussen HH, Lauridsen C, et al. The effect of nutritional interventions in acute radiation-induced diarrhoea in patients with primary pelvic cancer: A systematic review. <i>Crit Rev Oncol Hematol.</i> 2023;188:104038. | Geen diagnostische interventie |
| Jolfaie NR, Mirzaie S, Ghiasvand R, Askari G, Miraghajani M. The effect of glutamine intake on complications of colorectal and colon cancer treatment: A systematic review. <i>Journal of Research in Medical Sciences.</i> 2015;20(9):910-8. | Geen diagnostische interventie |
| Jordan K, Feyer P, Holler U, Link H, Wormann B, Jahn F. Supportive Treatments for Patients with Cancer. <i>Dtsch.</i> 2017;114(27-28):481-7. | Geen methodologie van literatuuronderzoek |
| Khosroshahi RA, Zeraattalab-Motlagh S, Sarsangi P, Nielsen SM, Mohammadi H. Effect of probiotic supplementation on chemotherapy and radiotherapy-related diarrhea in | Double |

| | |
|---|--------------------------------|
| patients with cancer: An umbrella review of systematic reviews and meta-analyses. <i>Br J Nutr.</i> 2023. | |
| Lin S, Shen Y. The efficacy and safety of probiotics for prevention of chemoradiotherapy-induced diarrhea in people with abdominal and pelvic cancer: A systematic review and meta-analysis based on 23 randomized studies. <i>Int J Surg.</i> 2020;84:69-77. | Geen diagnostische interventie |
| Liu MM, Li ST, Shu Y, Zhan HQ. Probiotics for prevention of radiation-induced diarrhea: A meta-analysis of randomized controlled trials. <i>PLoS ONE.</i> 2017;12(6):e0178870. | Geen diagnostische interventie |
| Lotfi-Jam K, Carey M, Jefford M, Schofield P, Charleson C, Aranda S. Nonpharmacologic strategies for managing common chemotherapy adverse effects: a systematic review. <i>J Clin Oncol.</i> 2008;26(34):5618-29. | Geen diagnostische interventie |
| Lu D, Yan J, Liu F, Ding P, Chen B, Lu Y, et al. Probiotics in preventing and treating chemotherapy-induced diarrhea: a meta-analysis. <i>Asia Pac J Clin Nutr.</i> 2019;28(4):701-10. | Geen diagnostische interventie |
| Lu Y, Luo X, Yang D, Li Y, Gong T, Li B, et al. Effects of probiotic supplementation on related side effects after chemoradiotherapy in cancer patients. <i>Frontiers in Oncology.</i> 2022;12. | Geen diagnostische interventie |
| Ma C, MacDonald JK, Nguyen TM, Vande Casteele N, Linggi B, Lefevre P, et al. Pharmacological Interventions for the Prevention and Treatment of Immune Checkpoint Inhibitor-Associated Enterocolitis: A Systematic Review. <i>Digestive Diseases and Sciences.</i> 2022;67(4):1128-55. | Geen diagnostische interventie |
| Ma DJ, Li ZJ, Wang XY, Zhu XJ, Sun YL. Octreotide treatment of cancer chemoradiotherapy-induced diarrhoea: A meta-analysis of randomized controlled trials. <i>Translational Cancer Research.</i> 2019;8(6):2284-94. | Geen diagnostische interventie |
| Major P, Figueredo A, Tandan V, Bramwell V, Charette M, Oliver T. Role of octreotide in the management of patients with cancer. <i>Curr.</i> 2003;10(3):161-79. | Geen diagnostische interventie |
| Nielsen DL, Juhl CB, Chen IM, Kellermann L, Nielsen OH. Immune checkpoint Inhibitor-Induced diarrhea and Colitis: Incidence and Management. A systematic review and Meta-analysis. <i>Cancer Treat Rev.</i> 2022;109:102440. | Geen diagnostische interventie |
| Qiu G, Yu Y, Wang Y, Wang X. The significance of probiotics in preventing radiotherapy-induced diarrhea in patients with cervical cancer: A systematic review and meta-analysis. <i>Int J Surg.</i> 2019;65:61-9. | Geen diagnostische interventie |
| Redman MG, Ward EJ, Phillips RS. The efficacy and safety of probiotics in people with cancer: a systematic review. <i>Ann Oncol.</i> 2014;25(10):1919-29. | Geen diagnostische interventie |
| Richardson G, Dobish R. Chemotherapy induced diarrhea. <i>J Oncol Pharm Pract.</i> 2007;13(4):181-98. | Geen full-text |
| Senderovich H, Vierhout MJ. Is there a role for charcoal in palliative diarrhea management? <i>Curr Med Res Opin.</i> 2018;34(7):1253-9. | Geen diagnostische interventie |
| Stern J, Ippoliti C. Management of acute cancer treatment-induced diarrhea. <i>Semin Oncol Nurs.</i> 2003;19(4 Suppl 3):11-6. | Narrative review |
| Suadoni MT. Are probiotics more efficacious than placebo at preventing radiotherapy-induced diarrhoea in adults with cancer. <i>Journal of Radiotherapy in Practice.</i> 2014;13(2):226-35. | Geen diagnostische interventie |
| Sun J, Wang H, Hu H. Glutamine for chemotherapy induced diarrhea: a meta-analysis. <i>Asia Pac J Clin Nutr.</i> 2012;21(3):380-5. | Geen diagnostische interventie |
| van de Wetering FT, Heus P, Verleye L, van Tienhoven G, Scholten RJPM. Probiotics for the prevention or treatment of chemotherapy or radiotherapy related diarrhoea in cancer patients. <i>Cochrane Database Syst Rev.</i> 2013;2013(12). | Protocol |
| van de Wetering FT, Verleye L, Andreyev HJ, Maher J, Vlayen J, Pieters BR, et al. Non-surgical interventions for late rectal problems (proctopathy) of radiotherapy in people who | Geen diagnostische interventie |

have received radiotherapy to the pelvis. Cochrane Database Syst Rev. 2016;4:CD003455.

Vehreschild MJ, Vehreschild JJ, Hubel K, Hentrich M, Schmidt-Hieber M, Christopeit M, et al. Diagnosis and management of gastrointestinal complications in adult cancer patients: evidence-based guidelines of the Infectious Diseases Working Party (AGIHO) of the German Society of Hematology and Oncology (DGHO). *Ann Oncol.* 2013;24(5):1189-202.

Geen methodologie van literatuuronderzoek

Wadler S, Benson AB, 3rd, Engelking C, Catalano R, Field M, Kornblau SM, et al. Recommended guidelines for the treatment of chemotherapy-induced diarrhea. *J Clin Oncol.* 1998;16(9):3169-78.

Geen methodologie van literatuuronderzoek

Wang YH, Yao N, Wei KK, Jiang L, Hanif S, Wang ZX, et al. The efficacy and safety of probiotics for prevention of chemoradiotherapy-induced diarrhea in people with abdominal and pelvic cancer: a systematic review and meta-analysis. *Eur J Clin Nutr.* 2016;70(11):1246-53.

Geen diagnostische interventie

Wei D, Heus P, van de Wetering FT, van Tienhoven G, Verleye L, Scholten RJ. Probiotics for the prevention or treatment of chemotherapy- or radiotherapy-related diarrhoea in people with cancer. *Cochrane Database Syst Rev.* 2018;8:CD008831.

Geen diagnostische interventie

Zimmerer T, Bocker U, Wenz F, Singer MV. Medical prevention and treatment of acute and chronic radiation induced enteritis--is there any proven therapy? a short review. *Z Gastroenterol.* 2008;46(5):441-8.

Geen diagnostische interventie

- **Onderzoeksvraag 2**

| | |
|--------------------------|---|
| Patients/Patiënten | Patiënten (≥ 18 jaar) in de palliatieve fase met diarree |
| Intervention/Interventie | Voeding, vocht, vezels, zouten, elektrolyten, probiotica |
| Comparison/Vergelijking | Geen interventie, ten opzichte van elkaar |
| Outcome(s)/Uitkomst(en) | Diarree/symptoomverlichting, kwaliteit van leven, patiënttevredenheid, bijwerkingen |

- Zoekstrategie: originele search

Ovid MEDLINE(R) <1946 to April Week 4 2023>

- 1 diarrh*.ti,ab. (110180)
- 2 exp Diarrhea/ (57406)
- 3 1 or 2 (125062)
- 4 Palliative Care/ (62664)
- 5 "Hospice and Palliative Care Nursing"/ (2279)
- 6 exp Palliative Medicine/ (519)
- 7 exp Terminal Care/ (56787)
- 8 Terminally Ill/ (6806)
- 9 palliat*.mp. (101995)
- 10 ((terminal* or advance*) adj6 (care or caring or ill* or sick* or stage*)).mp. (128951)
- 11 (terminal-stage* or (terminal adj1 stage*) or dying or (close adj6 death)).mp. (40556)
- 12 (end adj3 life).mp. (28358)
- 13 hospice*.mp. (19591)
- 14 ((end-stage* or (end adj1 stage*)) adj6 (disease* or ill* or care or caring)).mp. (56434)
- 15 ((incurable or advanced) adj6 (ill* or disease*)).mp. (59751)
- 16 (reduced adj1 life adj2 expectanc*).mp. (948)
- 17 or/4-16 (357489)
- 18 3 and 17 (2069)

Ovid MEDLINE(R) Epub Ahead of Print <May 05, 2023>, Ovid MEDLINE(R) Daily Update <May 05, 2023>

- 1 diarrh*.ti,ab. (1348)
- 2 exp Diarrhea/ (84)
- 3 1 or 2 (1350)
- 4 Palliative Care/ (91)
- 5 "Hospice and Palliative Care Nursing"/ (26)
- 6 exp Palliative Medicine/ (2)
- 7 exp Terminal Care/ (60)
- 8 Terminally Ill/ (3)
- 9 palliat*.mp. (2011)
- 10 ((terminal* or advance*) adj6 (care or caring or ill* or sick* or stage*)).mp. (2113)
- 11 (terminal-stage* or (terminal adj1 stage*) or dying or (close adj6 death)).mp. (750)
- 12 (end adj3 life).mp. (1063)
- 13 hospice*.mp. (484)
- 14 ((end-stage* or (end adj1 stage*)) adj6 (disease* or ill* or care or caring)).mp. (897)
- 15 ((incurable or advanced) adj6 (ill* or disease*)).mp. (1017)
- 16 (reduced adj1 life adj2 expectanc*).mp. (31)
- 17 or/4-16 (6180)
- 18 3 and 17 (44)

Cochrane Library

- | | | | |
|----|--|------|----|
| #1 | MeSH descriptor: [Palliative Care] explode all trees | 2256 | |
| #2 | MeSH descriptor: [Terminal Care] explode all trees | 694 | |
| #3 | MeSH descriptor: [Palliative Medicine] explode all trees | 4 | |
| #4 | MeSH descriptor: [Hospice and Palliative Care Nursing] explode all trees | | 73 |
| #5 | MeSH descriptor: [Terminally Ill] explode all trees | 111 | |

| | | |
|-----|---|-------|
| #6 | palliat*:ti,ab | 7828 |
| #7 | ((terminal* or advance*) NEAR/6 (care or caring or ill* or sick* or stage*)):ti,ab | 9503 |
| #8 | (terminal-stage* or (terminal NEAR/1 stage*) or dying or (close NEAR/6 death)):ti,ab | 1645 |
| #9 | (end NEAR/3 life):ti,ab | 2072 |
| #10 | hospice*:ti,ab | 904 |
| #11 | ((end-stage* or (end NEAR/1 stage*)) NEAR/6 (disease* or ill* or care or caring)):ti,ab | 5835 |
| #12 | ((incurable or advanced) NEAR/6 (ill* or disease*)):ti,ab | 7729 |
| #13 | (reduced NEAR/1 life NEAR/2 expectanc*):ti,ab | 121 |
| #14 | {or #1-#13} | 30744 |
| #15 | diarrh*:ti,ab | 21331 |
| #16 | MeSH descriptor: [Diarrhea] explode all trees | 7218 |
| #17 | #15 or #16 | 23047 |
| #18 | #14 and #17 | 689 |

Embase

| | | |
|------|--|--------|
| #1. | diarrh*:ti,ab | 189233 |
| #2. | 'diarrhea'/exp | 312921 |
| #3. | #1 OR #2 | 362291 |
| #4. | 'palliative therapy'/exp | 140075 |
| #5. | 'terminal care'/exp | 84553 |
| #6. | 'terminally ill patient'/exp | 9534 |
| #7. | palliat*:ti,ab | 145080 |
| #8. | (terminal* NEAR/6 (care OR caring OR ill*)):ti,ab | 14558 |
| #9. | (end NEAR/3 life):ti,ab | 45681 |
| #10. | hospice*:ti,ab | 26539 |
| #11. | 'terminal stage*':ti,ab | 4792 |
| #12. | dying:ti,ab | 52874 |
| #13. | (close NEAR/6 death):ti,ab | 1629 |
| #14. | ((incurable OR advanced) NEAR/6 (ill* OR disease*)):ti,ab | 111948 |
| #15. | #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 | 420259 |
| #16. | #3 AND #15 | 9275 |
| #17. | #3 AND #15 AND ([article]/lim OR [article in press]/lim OR [review]/lim) AND ([dutch]/lim OR [english]/lim) AND [embase]/lim | 6433 |

Tabel 3. Resultaten van originele zoekactie van onderzoeksvraag 2

| Database | Aantal |
|---|-------------|
| Medline | 2069 |
| PreMedline | 44 |
| Embase | 6433 |
| CDSR | 31 |
| CENTRAL | 658 |
| Totaal aantal resultaten | 9235 |
| Aantal geëxcludeerd (dubbelen en foute taal en jaartal) | 1500 |
| Totaal aantal unieke resultaten | 7735 |

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

| Referentie | Reden voor exclusie |
|---|---------------------------|
| Abella E, Gimenez T, Gimeno J, Cervera M, Pedro C, Gimeno E, et al. Diarrheic syndrome as a clinical sign of intestinal infiltration in progressive B-cell chronic lymphocytic leukemia. Leuk Res. 2009;33(1):159-61. | Geen vergelijkende studie |

| | |
|---|---|
| Abernethy AP, Wheeler JL, Zafar SY. Detailing of gastrointestinal symptoms in cancer patients with advanced disease: new methodologies, new insights, and a proposed approach. <i>Curr. 2009</i> ;3(1):41-9. | Narrative review |
| Alderman J. Diarrhea in palliative care. <i>J Palliat Med. 2005</i> ;8(2):449-50. | Narrative review |
| Aretin MB. Obstipation and diarrhoea in palliative care—a pharmacist's view. <i>Memo - Magazine of European Medical Oncology. 2021</i> ;14(1):44-7. | Narrative review |
| Beckwith MC, Lipman AG. Diarrhea in palliative care patients. <i>Journal of Pharmaceutical Care in Pain and Symptom Control. 2000</i> ;7(4):91-108. | Narrative review |
| Bossi P, Antonuzzo A, Cherny NI, Rosengarten O, Pernot S, Trippa F, et al. Diarrhoea in adult cancer patients: ESMO Clinical Practice Guidelines. <i>Ann Oncol. 2018</i> ;29(Suppl 4):iv126-iv42. | Geen systematisch literatuuroverzicht |
| Brearley S, Alex M, Mark S, Olive C, Ric S, Karen L. A randomised controlled trial of a home care nursing programme versus standard care in the management of symptoms in colorectal and breast cancer patients receiving oral chemotherapy. <i>Support Care Cancer [Internet]. 2009</i> ; 17(7):[945-6 pp.]. Available from: https://www.cochranelibrary.com/central/doi/10.1002/central/CN-01739037/full | Geen interventie van de PICO |
| Cherny NI. Evaluation and management of treatment-related diarrhea in patients with advanced cancer: a review. <i>J Pain Symptom Manage. 2008</i> ;36(4):413-23. | Narrative review |
| Cherny NI. Taking care of the terminally ill cancer patient: Management of gastrointestinal symptoms in patients with advanced cancer. <i>Ann Oncol. 2004</i> ;15(SUPPL. 4):iv205-iv13. | Narrative review |
| Fallon M, O'Neill B. ABC of palliative care. Constipation and diarrhoea. <i>Bmj. 1997</i> ;315(7118):1293-6. | Narrative review |
| Gattuso JM, Kamm MA. Adverse effects of drugs used in the management of constipation and diarrhoea. <i>Drug Saf. 1994</i> ;10(1):47-65. | Narrative review |
| Giridhar V, Kumar S, Chethan K, Seetharam P. Successful palliation of diarrhea owing to malignant duodenocolic fistula by octreotide. <i>Can J Surg. 2009</i> ;52(6):E306-8. | Case report |
| Hagmann C, Cramer A, Kestenbaum A, Durazo C, Downey A, Russell M, et al. Evidence-based Palliative Care Approaches to Non-pain Physical Symptom Management in Cancer Patients. <i>Semin Oncol Nurs. 2018</i> ;34(3):227-40. | Narrative review |
| Iannitti T, Palmieri B. Therapeutical use of probiotic formulations in clinical practice. <i>Clinical Nutrition. 2010</i> ;29(6):701-25. | Narrative review |
| Jaffe G. A comparison of lomotil and imodium in acute non specific diarrhoea. <i>J Int Med Res. 1977</i> ;5(3):195-8. | Geen palliatieve populatie; wel RCT |
| Johanson JF. Diagnosis and management of AIDS-related diarrhea. <i>Canadian Journal of Gastroenterology. 1996</i> ;10(7):461-8. | Narrative review |
| Kelly P. HIV-related diarrhoea. <i>AIDS Action. 1998</i> (39):7. | Narrative review |
| Kotlinska-Lemieszek A, Klepstad P, Haugen DF. Clinically Significant Drug-Drug Interactions Involving Medications Used for Symptom Control in Patients With Advanced Malignant Disease: A Systematic Review. <i>Journal of Pain and Symptom Management. 2019</i> ;57(5):989-98.e1. | Gaat niet over behandeling van diarree |
| Levy MH, Catalano RB. Control of common physical symptoms other than pain in patients with terminal disease. <i>Semin Oncol. 1985</i> ;12(4):411-30. | Narrative review |
| Lin DC. Probiotics As Functional Foods. <i>Nutr Clin Pract. 2003</i> ;18(6):497-506. | Narrative review |
| Mercadante S, Fulfaro F, Casuccio A. The impact of home palliative care on symptoms in advanced cancer patients. <i>Support Care Cancer. 2000</i> ;8(4):307-10. | Geen vergelijkende studie; slechts minderheid had diarree |
| Mercadante S. Diarrhea in terminally ill patients: pathophysiology and treatment. <i>J Pain Symptom Manage. 1995</i> ;10(4):298-309. | Narrative review |

| | |
|---|---|
| Mochamat, Cuhls H, Marinova M, Kaasa S, Stieber C, Conrad R, et al. A systematic review on the role of vitamins, minerals, proteins, and other supplements for the treatment of cachexia in cancer: a European Palliative Care Research Centre cachexia project. <i>Journal of Cachexia, Sarcopenia and Muscle</i> . 2017;8(1):25-39. | Geen behandeling van diarree |
| Molassiotis A, Brearley S, Saunders M, Craven O, Wardley A, Farrell C, et al. Effectiveness of a home care nursing program in the symptom management of patients with colorectal and breast cancer receiving oral chemotherapy: a randomized, controlled trial. <i>J Clin Oncol</i> . 2009;27(36):6191-8. | Interventie niet vermeld in PICO |
| Prommer E. Role of codeine in palliative care. <i>J Opioid Manag</i> . 2011;7(5):401-6. | Enkel PubMed, geen kwaliteitsbeoordeling (narrative review) |
| Prommer EE. Established and potential therapeutic applications of octreotide in palliative care. <i>Support Care Cancer</i> . 2008;16(10):1117-23. | Narrative review; interventie niet vermeld in PICO |
| Rangwala F, Zafar SY, Abernethy AP. Gastrointestinal symptoms in cancer patients with advanced disease: new methodologies, insights, and a proposed approach. <i>Curr</i> . 2012;6(1):69-76. | Narrative review |
| Regnard C, Twycross R, Mihalyo M, Wilcock A. Loperamide. <i>Journal of Pain and Symptom Management</i> . 2011;42(2):319-23. | Narrative review |
| Ripamonti C, Grosso MI. Palliative medical management. <i>European Journal of Cancer, Supplement</i> . 2005;3(3):203-19. | Narrative review |
| Schiller LR. Management of diarrhea in clinical practice: Strategies for primary care physicians. <i>Rev Gastroenterol Disord</i> . 2007;7(SUPPL. 3):S27-S38. | Narrative review |
| Senderovich H, Vierhout MJ. Is there a role for charcoal in palliative diarrhea management? <i>Curr Med Res Opin</i> . 2018;34(7):1253-9. | Geen kwaliteitsbeoordeling van geïnccludeerde studies; interventie staat niet vermeld in PICO |
| Shah U, Morrison T. A review of the symptomatic management of malignant gliomas in adults. <i>J</i> . 2013;11(4):424-9. | Gaat niet over diarree |
| Suhag V. Palliative therapy in cancer patients: An overview. <i>JK Science</i> . 2005;7(2):67-72. | Narrative review |

- Zoekstrategie: aanvullende search

Ovid MEDLINE(R) <1946 to June 16, 2023>

- 1 diarrh*.ti,ab. (110573)
- 2 exp Diarrhea/ (57530)
- 3 1 or 2 (125461)
- 4 meta-analysis.mp,pt. or review.pt. or search:.tw. (3247023)
- 5 exp Neoplasms/ (3843088)
- 6 Neoplasm Staging/ (192683)
- 7 cancer\$.ti,ab. (1879944)
- 8 tumor\$.ti,ab. (1494166)
- 9 tumour\$.ti,ab. (275311)
- 10 carcinoma\$.ti,ab. (662496)
- 11 neoplas\$.ti,ab. (261186)
- 12 lymphoma.ti,ab. (161588)
- 13 melanoma.ti,ab. (115915)
- 14 staging.ti,ab. (80630)
- 15 metastas\$.ti,ab. (366859)

16 metastatic.ti,ab. (232683)
17 exp Neoplasm Metastasis/ (221398)
18 exp neoplastic processes/ (514619)
19 neoplastic process\$.ti,ab. (2907)
20 non small cell.ti,ab. (66099)
21 adenocarcinoma\$.ti,ab. (149675)
22 squamous cell.ti,ab. (109774)
23 nsclc.ti,ab. (45680)
24 osteosarcoma\$.ti,ab. (24111)
25 phyllodes.ti,ab. (1941)
26 cystosarcoma\$.ti,ab. (569)
27 fibroadenoma\$.ti,ab. (3606)
28 (non adj small adj cell).ti,ab. (66099)
29 (non adj2 small adj2 cell).ti,ab. (66344)
30 (nonsmall adj2 cell).ti,ab. (3117)
31 plasmacytoma\$.ti,ab. (6264)
32 myeloma.ti,ab. (53290)
33 multiple myeloma.ti,ab. (38715)
34 lymphoblastoma\$.ti,ab. (346)
35 lymphocytoma\$.ti,ab. (337)
36 lymphosarcoma\$.ti,ab. (4077)
37 immunocytoma.ti,ab. (404)
38 sarcoma\$.ti,ab. (95164)
39 hodgkin\$.ti,ab. (64437)
40 (nonhodgkin\$ or non hodgkin\$).ti,ab. (37235)
41 malignan\$.ti,ab. (582687)
42 exp Paraneoplastic Syndromes/ (34224)
43 or/5-42 (4584434)
44 3 and 4 and 43 (3313)

Ovid MEDLINE(R) Epub Ahead of Print <June 16, 2023>, Ovid MEDLINE(R) Daily Update <June 16, 2023>

1 diarrh*.ti,ab. (1317)
2 exp Diarrhea/ (39)
3 1 or 2 (1318)
4 meta-analysis.mp,pt. or review.pt. or search:.tw. (53792)
5 exp Neoplasms/ (5204)
6 Neoplasm Staging/ (123)
7 cancer\$.ti,ab. (30228)
8 tumor\$.ti,ab. (18733)
9 tumour\$.ti,ab. (2544)
10 carcinoma\$.ti,ab. (7020)
11 neoplas\$.ti,ab. (3129)
12 lymphoma.ti,ab. (1898)
13 melanoma.ti,ab. (1424)
14 staging.ti,ab. (1213)
15 metastas\$.ti,ab. (5163)
16 metastatic.ti,ab. (3364)
17 exp Neoplasm Metastasis/ (98)
18 exp neoplastic processes/ (465)
19 neoplastic process\$.ti,ab. (22)
20 non small cell.ti,ab. (1301)
21 adenocarcinoma\$.ti,ab. (1937)
22 squamous cell.ti,ab. (1554)
23 nsclc.ti,ab. (937)
24 osteosarcoma\$.ti,ab. (259)
25 phyllodes.ti,ab. (15)

- 26 cystosarcoma\$.ti,ab. (2)
- 27 fibroadenoma\$.ti,ab. (74)
- 28 (non adj small adj cell).ti,ab. (1301)
- 29 (non adj2 small adj2 cell).ti,ab. (1304)
- 30 (nonsmall adj2 cell).ti,ab. (44)
- 31 plasmacytoma\$.ti,ab. (45)
- 32 myeloma.ti,ab. (575)
- 33 multiple myeloma.ti,ab. (518)
- 34 lymphoblastoma\$.ti,ab. (0)
- 35 lymphocytoma\$.ti,ab. (4)
- 36 lymphosarcoma\$.ti,ab. (1)
- 37 immunocytoma.ti,ab. (1)
- 38 sarcoma\$.ti,ab. (938)
- 39 hodgkin\$.ti,ab. (529)
- 40 (nonhodgkin\$ or non hodgkin\$).ti,ab. (306)
- 41 malignan\$.ti,ab. (7626)
- 42 exp Paraneoplastic Syndromes/ (41)
- 43 or/5-42 (48788)
- 44 3 and 4 and 43 (76)

Cochrane Library

- #1 diarrh*.ti,ab 21416
- #2 MeSH descriptor: [Diarrhea] explode all trees 7235
- #3 #1 or #2 23133
- #4 MeSH descriptor: [Neoplasms] explode all trees 111266
- #5 MeSH descriptor: [Neoplasm Staging] explode all trees 8446
- #6 cancer*.ti,ab 172616
- #7 tumor*.ti,ab 63836
- #8 tumour*.ti,ab 14216
- #9 carcinoma*.ti,ab 34472
- #10 neoplasm*.ti,ab 8124
- #11 lymphoma:ti,ab 10422
- #12 melanoma:ti,ab 5854
- #13 staging:ti,ab 5966
- #14 metastas*.ti,ab 20801
- #15 metastatic:ti,ab 32408
- #16 MeSH descriptor: [Neoplasm Metastasis] explode all trees 6537
- #17 MeSH descriptor: [Neoplastic Processes] explode all trees 13073
- #18 neoplastic process*.ti,ab 200
- #19 (non NEAR small NEAR cell):ti,ab 13231
- #20 adenocarcinoma*.ti,ab 9478
- #21 (squamous NEAR cell):ti,ab 8352
- #22 nsclc:ti,ab 11197
- #23 osteosarcoma*.ti,ab 481
- #24 phyllodes:ti,ab 4
- #25 cystosarcoma*.ti,ab 0
- #26 fibroadenoma*.ti,ab 94
- #27 (non NEAR/2 small NEAR/2 cell):ti,ab 13204
- #28 (nonsmall NEAR/2 cell):ti,ab 10427
- #29 plasmacytoma*.ti,ab 113
- #30 myeloma:ti,ab 6060
- #31 (multiple NEAR myeloma):ti,ab 5493
- #32 lymphoblastoma*.ti,ab 0
- #33 lymphocytoma*.ti,ab 1
- #34 lymphosarcoma*.ti,ab 23
- #35 immunocytoma:ti,ab 16

| | | | |
|-----|---|--------|-----|
| #36 | sarcoma*:ti,ab | 2700 | |
| #37 | hodgkin*:ti,ab | 5608 | |
| #38 | (nonhodgkin* or (non NEAR hodgkin*)):ti,ab | 3392 | |
| #39 | malignan*:ti,ab | 28880 | |
| #40 | MeSH descriptor: [Paraneoplastic Syndromes] explode all trees | | 413 |
| #41 | {or #4-#40} | 268618 | |
| #42 | #3 and #41 | 7314 | |

Embase

| | | | |
|------|--|---------|--|
| #1. | 'neoplasm'/exp | 5999257 | |
| #2. | 'cancer staging'/exp | 445506 | |
| #3. | cancer*:ti,ab | 3147220 | |
| #4. | tumor*:ti,ab | 2375524 | |
| #5. | tumour*:ti,ab | 432350 | |
| #6. | carcinoma*:ti,ab | 1035837 | |
| #7. | lymphoma:ti,ab | 273835 | |
| #8. | melanoma:ti,ab | 188165 | |
| #9. | staging:ti,ab | 153036 | |
| #10. | metastatic:ti,ab | 438438 | |
| #11. | 'metastasis'/exp | 814154 | |
| #12. | 'oncogenesis and malignant transformation'/exp | 1233831 | |
| #13. | neoplastic AND process*:ti,ab | 18061 | |
| #14. | (non NEAR/1 small NEAR/1 cell):ti,ab | 131262 | |
| #15. | adenocarcinoma*:ti,ab | 268199 | |
| #16. | (squamous NEAR/1 cell):ti,ab | 179932 | |
| #17. | nsclc:ti,ab | 107544 | |
| #18. | osteosarcoma*:ti,ab | 36309 | |
| #19. | phyllodes:ti,ab | 3080 | |
| #20. | cystosarcoma*:ti,ab | 686 | |
| #21. | fibroadenoma*:ti,ab | 5577 | |
| #22. | (non NEAR/2 small NEAR/2 cell):ti,ab | 131511 | |
| #23. | (nonsmall NEAR/2 cell):ti,ab | 109703 | |
| #24. | plasmacytoma*:ti,ab | 8910 | |
| #25. | myeloma:ti,ab | 100399 | |
| #26. | (multiple NEAR/1 myeloma):ti,ab | 79403 | |
| #27. | lymphoblastoma*:ti,ab | 347 | |
| #28. | lymphocytoma*:ti,ab | 447 | |
| #29. | lymphosarcoma*:ti,ab | 4591 | |
| #30. | immunocytoma:ti,ab | 472 | |
| #31. | sarcoma*:ti,ab | 140351 | |
| #32. | hodgkin*:ti,ab | 105926 | |
| #33. | nonhodgkin*:ti,ab OR ((non NEAR/1 hodgkin*):ti,ab) | 63099 | |
| #34. | malignan*:ti,ab | 982855 | |
| #35. | 'paraneoplastic syndrome'/exp | 50652 | |
| #36. | #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #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 OR #28 OR #29 OR #30 OR #31 OR #32 OR #33 OR #34 OR #35 | 7141528 | |
| #37. | diarrh*:ti,ab | 190830 | |
| #38. | 'diarrhea'/exp | 315563 | |
| #39. | #37 OR #38 | 365156 | |
| #40. | #36 AND #39 | 122323 | |
| #41. | #36 AND #39 AND ([cochrane review]/lim OR [systematic review]/lim OR [meta analysis]/lim) AND ([article]/lim OR [article in press]/lim OR [review]/lim) AND ([dutch]/lim OR [english]/lim) AND [embase]/lim | 3618 | |

Tabel 5. Resultaten van aanvullende zoekactie van onderzoeksvraag 2

| Database | Aantal |
|---|---------------|
| Medline | 3313 |
| PreMedline | 76 |
| Embase | 3618 |
| CDSR | 82 |
| Totaal aantal resultaten | 7089 |
| Aantal geëxcludeerd (dubbelen en foute taal en jaartal) | 1057 |
| Totaal aantal unieke resultaten | 6032 |

Tabel 6. Overzicht van geëxcludeerde studies gebaseerd op beoordeling van de volledige tekst van onderzoeksvraag 2: aanvullende search

| Referentie | Reden voor exclusie |
|---|---|
| Alexandraki KI, Angelousi A, Chatzellis E, Chrisoulidou A, Kalogeris N, Kanakis G, et al. The Role of Somatostatin Analogues in the Control of Diarrhea and Flushing as Markers of Carcinoid Syndrome: A Systematic Review and Meta-Analysis. <i>Journal of Personalized Medicine</i> . 2023;13(2). | Geen nutritionele interventie |
| Andreyev J, Ross P, Donnellan C, Lennan E, Leonard P, Waters C, et al. Guidance on the management of diarrhoea during cancer chemotherapy. <i>Lancet Oncol</i> . 2014;15(10):e447-60. | Geen methodologie van literatuuronderzoek |
| Anthony L. New strategies for the prevention and reduction of cancer treatment-induced diarrhea. <i>Semin Oncol Nurs</i> . 2003;19(4 Suppl 3):17-21. | Narrative review |
| Benson AB, 3rd, Ajani JA, Catalano RB, Engelking C, Kornblau SM, Martenson JA, Jr., et al. Recommended guidelines for the treatment of cancer treatment-induced diarrhea. <i>J Clin Oncol</i> . 2004;22(14):2918-26. | Geen methodologie van literatuuronderzoek |
| Bhattacharya S, Vijayasekar C, Worthing J, Mathew G. Octreotide in chemotherapy induced diarrhoea in colorectal cancer: a review article. <i>Acta Gastroenterol Belg</i> . 2009;72(3):289-95. | Geen nutritionele interventie |
| Chen Y, Qi A, Teng D, Li S, Yan Y, Hu S, et al. Probiotics and synbiotics for preventing postoperative infectious complications in colorectal cancer patients: a systematic review and meta-analysis. <i>Tech Coloproctol</i> . 2022;26(6):425-36. | Preventie van diarree, geen behandeling |
| Cherny NI. Taking care of the terminally ill cancer patient: Management of gastrointestinal symptoms in patients with advanced cancer. <i>Ann Oncol</i> . 2004;15(SUPPL. 4):iv205-iv13. | Narrative review |
| Cherwin C, Nakad L, Albashayreh A. Systematic Review of Nonpharmacologic Approaches for the Management of Gastrointestinal Symptoms. <i>Oncol Nurs Forum</i> . 2019;46(1):E1-E21. | Geen interventie in de PICO |
| Cogo E, Elsayed M, Liang V, Cooley K, Guerin C, Psihogios A, et al. Probiotics evaluation in oncological surgery: A systematic review of 36 randomized controlled trials assessing 21 diverse formulations. <i>Curr</i> . 2021;28(6):5192-214. | Preventie van diarree, geen behandeling |
| Collins M, Soularue E, Marthey L, Carbonnel F. Management of Patients With Immune Checkpoint Inhibitor-Induced Enterocolitis: A Systematic Review. <i>Clinical Gastroenterology and Hepatology</i> . 2020;18(6):1393-403.e1. | Enkel PubMed, geen kwaliteitsbeoordeling van geïnccludeerde studies |
| Danis R, Mego M, Antonova M, Stepanova R, Svobodnik A, Hejnova R, et al. Orally Administered Probiotics in the Prevention of Chemotherapy (± Radiotherapy)-Induced Gastrointestinal Toxicity: A Systematic Review With Meta-Analysis of Randomized Trials. <i>Integ Cancer Ther</i> . 2022;21. | Preventie van diarree, geen behandeling |
| Devaraj NK, Suppiah S, Veettil SK, Ching SM, Lee KW, Menon RK, et al. The Effects of Probiotic Supplementation on the Incidence of Diarrhea in Cancer Patients Receiving | Preventie van diarree, geen behandeling |

| | |
|---|---|
| Radiation Therapy: A Systematic Review with Meta-Analysis and Trial Sequential Analysis of Randomized Controlled Trials. <i>Nutrients</i> . 2019;11(12):27. | |
| Ding M, Zhang X, Wang J, Gao F, Zheng X, Yuan J, et al. Treatment and outcomes of immune checkpoint inhibitors-associated colitis/diarrhea: A systematic review and meta-analysis. <i>Dig Liver Dis</i> . 2023;07:07. | Geen interventie in de PICO |
| Faiman B. Diarrhea in Multiple Myeloma: A Review of the Literature. <i>Clin J Oncol Nurs</i> . 2016;20(4):E100-5. | Narrative review |
| Fragkos KC, Zárate-Lopez N, Frangos CC. What about clonidine for diarrhoea? A systematic review and meta-analysis of its effect in humans. <i>Therapeutic Advances in Gastroenterology</i> . 2015;9(3):282-301. | Geen nutritionele interventie |
| Garczyk A, Kaliciak I, Drogowski K, Horwat P, Kopeć S, Staręga Z, et al. Influence of Probiotics in Prevention and Treatment of Patients Who Undergo Chemotherapy or/and Radiotherapy and Suffer from Mucositis, Diarrhoea, Constipation, Nausea and Vomiting. <i>Journal of Clinical Medicine</i> . 2022;11(12). | Geen kwaliteitsbeoordeling van geïnccludeerde studies |
| Gwede CK. Overview of radiation- and chemoradiation-induced diarrhea. <i>Semin Oncol Nurs</i> . 2003;19(4 Suppl 3):6-10. | Narrative review |
| Haas S, Mikkelsen AH, Kronborg CJS, Oggesen BT, Møller PF, Fassov J, et al. Management of treatment-related sequelae following colorectal cancer. <i>Colorectal Dis</i> . 2023;25(3):458-88. | Gaat niet over behandeling van diarree |
| Jordan K, Feyer P, Holler U, Link H, Wormann B, Jahn F. Supportive Treatments for Patients with Cancer. <i>Dtsch</i> . 2017;114(27-28):481-7. | Geen methodologie van literatuuronderzoek |
| Khan MS, Walter T, Buchanan-Hughes A, Worthington E, Keeber L, Feuilly M, et al. Differential diagnosis of diarrhoea in patients with neuroendocrine tumours: A systematic review. <i>World J Gastroenterol</i> . 2020;26(30):4537-56. | Geen nutritionele interventie |
| Khosroshahi RA, Zeraattalab-Motlagh S, Sarsangi P, Nielsen SM, Mohammadi H. Effect of probiotic supplementation on chemotherapy and radiotherapy-related diarrhea in patients with cancer: An umbrella review of systematic reviews and meta-analyses. <i>Br J Nutr</i> . 2023. | Double |
| Lin S, Shen Y. The efficacy and safety of probiotics for prevention of chemoradiotherapy-induced diarrhea in people with abdominal and pelvic cancer: A systematic review and meta-analysis based on 23 randomized studies. <i>Int J Surg</i> . 2020;84:69-77. | Preventie van diarree, geen behandeling |
| Liu MM, Li ST, Shu Y, Zhan HQ. Probiotics for prevention of radiation-induced diarrhea: A meta-analysis of randomized controlled trials. <i>PLoS ONE</i> . 2017;12(6):e0178870. | Preventie van diarree, geen behandeling |
| Lotfi-Jam K, Carey M, Jefford M, Schofield P, Charleson C, Aranda S. Nonpharmacologic strategies for managing common chemotherapy adverse effects: a systematic review. <i>J Clin Oncol</i> . 2008;26(34):5618-29. | Geen interventie in de PICO |
| Lu D, Yan J, Liu F, Ding P, Chen B, Lu Y, et al. Probiotics in preventing and treating chemotherapy-induced diarrhea: a meta-analysis. <i>Asia Pac J Clin Nutr</i> . 2019;28(4):701-10. | Preventie van diarree, geen behandeling |
| Lu Y, Luo X, Yang D, Li Y, Gong T, Li B, et al. Effects of probiotic supplementation on related side effects after chemoradiotherapy in cancer patients. <i>Frontiers in Oncology</i> . 2022;12. | Preventie van diarree, geen behandeling |
| Ma C, MacDonald JK, Nguyen TM, Vande Casteele N, Linggi B, Lefevre P, et al. Pharmacological Interventions for the Prevention and Treatment of Immune Checkpoint Inhibitor-Associated Enterocolitis: A Systematic Review. <i>Digestive Diseases and Sciences</i> . 2022;67(4):1128-55. | Geen nutritionele interventie |
| Ma DJ, Li ZJ, Wang XY, Zhu XJ, Sun YL. Octreotide treatment of cancer chemoradiotherapy-induced diarrhoea: A meta-analysis of randomized controlled trials. <i>Translational Cancer Research</i> . 2019;8(6):2284-94. | Geen nutritionele interventie |

| | |
|--|---|
| Major P, Figueredo A, Tandan V, Bramwell V, Charette M, Oliver T. Role of octreotide in the management of patients with cancer. <i>Curr.</i> 2003;10(3):161-79. | Geen nutritionele interventie |
| Nielsen DL, Juhl CB, Chen IM, Kellermann L, Nielsen OH. Immune checkpoint Inhibitor-Induced diarrhea and Colitis: Incidence and Management. A systematic review and Meta-analysis. <i>Cancer Treat Rev.</i> 2022;109:102440. | Geen interventie in de PICO |
| Qiu G, Yu Y, Wang Y, Wang X. The significance of probiotics in preventing radiotherapy-induced diarrhea in patients with cervical cancer: A systematic review and meta-analysis. <i>Int J Surg.</i> 2019;65:61-9. | Preventie van diarree, geen behandeling |
| Richardson G, Dobish R. Chemotherapy induced diarrhea. <i>J Oncol Pharm Pract.</i> 2007;13(4):181-98. | Geen full-text |
| Senderovich H, Vierhout MJ. Is there a role for charcoal in palliative diarrhea management? <i>Curr Med Res Opin.</i> 2018;34(7):1253-9. | Geen nutritionele interventie |
| Stern J, Ippoliti C. Management of acute cancer treatment-induced diarrhea. <i>Semin Oncol Nurs.</i> 2003;19(4 Suppl 3):11-6. | Narrative review |
| Suadoni MT. Are probiotics more efficacious than placebo at preventing radiotherapy-induced diarrhoea in adults with cancer. <i>Journal of Radiotherapy in Practice.</i> 2014;13(2):226-35. | Preventie van diarree, geen behandeling |
| van de Wetering FT, Heus P, Verleye L, van Tienhoven G, Scholten RJPM. Probiotics for the prevention or treatment of chemotherapy or radiotherapy related diarrhoea in cancer patients. <i>Cochrane Database Syst Rev.</i> 2013;2013(12). | Protocol |
| van de Wetering FT, Verleye L, Andreyev HJ, Maher J, Vlayen J, Pieters BR, et al. Non-surgical interventions for late rectal problems (proctopathy) of radiotherapy in people who have received radiotherapy to the pelvis. <i>Cochrane Database Syst Rev.</i> 2016;4:CD003455. | Geen nutritionele interventie |
| Vehreschild MJ, Vehreschild JJ, Hubel K, Hentrich M, Schmidt-Hieber M, Christopeit M, et al. Diagnosis and management of gastrointestinal complications in adult cancer patients: evidence-based guidelines of the Infectious Diseases Working Party (AGIHO) of the German Society of Hematology and Oncology (DGHO). <i>Ann Oncol.</i> 2013;24(5):1189-202. | Geen methodologie van literatuuronderzoek |
| Wadler S, Benson AB, 3rd, Engelking C, Catalano R, Field M, Kornblau SM, et al. Recommended guidelines for the treatment of chemotherapy-induced diarrhea. <i>J Clin Oncol.</i> 1998;16(9):3169-78. | Geen methodologie van literatuuronderzoek |
| Wang YH, Yao N, Wei KK, Jiang L, Hanif S, Wang ZX, et al. The efficacy and safety of probiotics for prevention of chemoradiotherapy-induced diarrhea in people with abdominal and pelvic cancer: a systematic review and meta-analysis. <i>Eur J Clin Nutr.</i> 2016;70(11):1246-53. | Preventie van diarree, geen behandeling |
| Zimmerer T, Bocker U, Wenz F, Singer MV. Medical prevention and treatment of acute and chronic radiation induced enteritis--is there any proven therapy? a short review. <i>Z Gastroenterol.</i> 2008;46(5):441-8. | Narrative review |

- **Onderzoeksvraag 3**

| | |
|--------------------------|---|
| Patients/Patiënten | Patiënten (≥ 18 jaar) in de palliatieve fase met diarree |
| Intervention/Interventie | loperamide, colestyramine, pancreasenzymen (Creon), antibiotica, opioïden |
| Comparison/Vergelijking | Andere medicamenteuze behandeling, placebo, geen behandeling of ten opzichte van elkaar |
| Outcome(s)/Uitkomst(en) | Diarree/symptoomverlichting, kwaliteit van leven, patiënttevredenheid, bijwerkingen |

- Zoekstrategie: originele search

Ovid MEDLINE(R) <1946 to April Week 4 2023>

- 1 diarrh*.ti,ab. (110180)
- 2 exp Diarrhea/ (57406)
- 3 1 or 2 (125062)
- 4 Palliative Care/ (62664)
- 5 "Hospice and Palliative Care Nursing"/ (2279)
- 6 exp Palliative Medicine/ (519)
- 7 exp Terminal Care/ (56787)
- 8 Terminally Ill/ (6806)
- 9 palliat*.mp. (101995)
- 10 ((terminal* or advance*) adj6 (care or caring or ill* or sick* or stage*)).mp. (128951)
- 11 (terminal-stage* or (terminal adj1 stage*) or dying or (close adj6 death)).mp. (40556)
- 12 (end adj3 life).mp. (28358)
- 13 hospice*.mp. (19591)
- 14 ((end-stage* or (end adj1 stage*)) adj6 (disease* or ill* or care or caring)).mp. (56434)
- 15 ((incurable or advanced) adj6 (ill* or disease*)).mp. (59751)
- 16 (reduced adj1 life adj2 expectanc*).mp. (948)
- 17 or/4-16 (357489)
- 18 3 and 17 (2069)

Ovid MEDLINE(R) Epub Ahead of Print <May 05, 2023>, Ovid MEDLINE(R) Daily Update <May 05, 2023>

- 1 diarrh*.ti,ab. (1348)
- 2 exp Diarrhea/ (84)
- 3 1 or 2 (1350)
- 4 Palliative Care/ (91)
- 5 "Hospice and Palliative Care Nursing"/ (26)
- 6 exp Palliative Medicine/ (2)
- 7 exp Terminal Care/ (60)
- 8 Terminally Ill/ (3)
- 9 palliat*.mp. (2011)
- 10 ((terminal* or advance*) adj6 (care or caring or ill* or sick* or stage*)).mp. (2113)
- 11 (terminal-stage* or (terminal adj1 stage*) or dying or (close adj6 death)).mp. (750)
- 12 (end adj3 life).mp. (1063)
- 13 hospice*.mp. (484)
- 14 ((end-stage* or (end adj1 stage*)) adj6 (disease* or ill* or care or caring)).mp. (897)
- 15 ((incurable or advanced) adj6 (ill* or disease*)).mp. (1017)
- 16 (reduced adj1 life adj2 expectanc*).mp. (31)
- 17 or/4-16 (6180)
- 18 3 and 17 (44)

Cochrane Library

- | | | |
|----|--|------|
| #1 | MeSH descriptor: [Palliative Care] explode all trees | 2256 |
| #2 | MeSH descriptor: [Terminal Care] explode all trees | 694 |
| #3 | MeSH descriptor: [Palliative Medicine] explode all trees | 4 |
| #4 | MeSH descriptor: [Hospice and Palliative Care Nursing] explode all trees | 73 |
| #5 | MeSH descriptor: [Terminally Ill] explode all trees | 111 |

| | | |
|-----|---|-------|
| #6 | palliat*:ti,ab | 7828 |
| #7 | ((terminal* or advance*) NEAR/6 (care or caring or ill* or sick* or stage*)):ti,ab | 9503 |
| #8 | (terminal-stage* or (terminal NEAR/1 stage*) or dying or (close NEAR/6 death)):ti,ab | 1645 |
| #9 | (end NEAR/3 life):ti,ab | 2072 |
| #10 | hospice*:ti,ab | 904 |
| #11 | ((end-stage* or (end NEAR/1 stage*)) NEAR/6 (disease* or ill* or care or caring)):ti,ab | 5835 |
| #12 | ((incurable or advanced) NEAR/6 (ill* or disease*)):ti,ab | 7729 |
| #13 | (reduced NEAR/1 life NEAR/2 expectanc*):ti,ab | 121 |
| #14 | {or #1-#13} | 30744 |
| #15 | diarrh*:ti,ab | 21331 |
| #16 | MeSH descriptor: [Diarrhea] explode all trees | 7218 |
| #17 | #15 or #16 | 23047 |
| #18 | #14 and #17 | 689 |

Embase

| | | |
|------|--|--------|
| #1. | diarrh*:ti,ab | 189233 |
| #2. | 'diarrhea'/exp | 312921 |
| #3. | #1 OR #2 | 362291 |
| #4. | 'palliative therapy'/exp | 140075 |
| #5. | 'terminal care'/exp | 84553 |
| #6. | 'terminally ill patient'/exp | 9534 |
| #7. | palliat*:ti,ab | 145080 |
| #8. | (terminal* NEAR/6 (care OR caring OR ill*)):ti,ab | 14558 |
| #9. | (end NEAR/3 life):ti,ab | 45681 |
| #10. | hospice*:ti,ab | 26539 |
| #11. | 'terminal stage*':ti,ab | 4792 |
| #12. | dying:ti,ab | 52874 |
| #13. | (close NEAR/6 death):ti,ab | 1629 |
| #14. | ((incurable OR advanced) NEAR/6 (ill* OR disease*)):ti,ab | 111948 |
| #15. | #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 | 420259 |
| #16. | #3 AND #15 | 9275 |
| #17. | #3 AND #15 AND ([article]/lim OR [article in press]/lim OR [review]/lim) AND ([dutch]/lim OR [english]/lim) AND [embase]/lim | 6433 |

Tabel 3. Resultaten van originele zoekactie van onderzoeksvraag 3

| Database | Aantal |
|---|-------------|
| Medline | 2069 |
| PreMedline | 44 |
| Embase | 6433 |
| CDSR | 31 |
| CENTRAL | 658 |
| Totaal aantal resultaten | 9235 |
| Aantal geëxcludeerd (dubbelen en foute taal en jaartal) | 1500 |
| Totaal aantal unieke resultaten | 7735 |

Tabel 4. Overzicht van geëxcludeerde studies gebaseerd op beoordeling van de volledige tekst van onderzoeksvraag 3: originele search

| Referentie | Reden voor exclusie |
|---|---------------------------|
| Abella E, Gimenez T, Gimeno J, Cervera M, Pedro C, Gimeno E, et al. Diarrheic syndrome as a clinical sign of intestinal infiltration in progressive B-cell chronic lymphocytic leukemia. Leuk Res. 2009;33(1):159-61. | Geen vergelijkende studie |

| | |
|--|--|
| Abernethy AP, Wheeler JL, Zafar SY. Detailing of gastrointestinal symptoms in cancer patients with advanced disease: new methodologies, new insights, and a proposed approach. <i>Curr.</i> 2009;3(1):41-9. | Narrative review |
| Alderman J. Diarrhea in palliative care. <i>J Palliat Med.</i> 2005;8(2):449-50. | Narrative review |
| Andreou L, Burrows T, Surjan Y. The effect of nutritional interventions involving dietary counselling on gastrointestinal toxicities in adults receiving pelvic radiotherapy – A systematic review. <i>Journal of Medical Radiation Sciences.</i> 2021;68(4):453-64. | Geen medicamenteuze behandeling |
| Aretin MB. Obstipation and diarrhoea in palliative care—a pharmacist’s view. <i>Memo - Magazine of European Medical Oncology.</i> 2021;14(1):44-7. | Narrative review |
| Beckwith MC, Lipman AG. Diarrhea in palliative care patients. <i>Journal of Pharmaceutical Care in Pain and Symptom Control.</i> 2000;7(4):91-108. | Narrative review |
| Bossi P, Antonuzzo A, Cherny NI, Rosengarten O, Pernot S, Trippa F, et al. Diarrhoea in adult cancer patients: ESMO Clinical Practice Guidelines. <i>Ann Oncol.</i> 2018;29(Suppl 4):iv126-iv42. | Geen systematisch literatuuroverzicht |
| Brearley S, Alex M, Mark S, Olive C, Ric S, Karen L. A randomised controlled trial of a home care nursing programme versus standard care in the management of symptoms in colorectal and breast cancer patients receiving oral chemotherapy. <i>Support Care Cancer</i> [Internet]. 2009; 17(7):[945-6 pp.]. Available from: https://www.cochranelibrary.com/central/doi/10.1002/central/CN-01739037/full | Geen interventie van de PICO |
| Cherny NI. Evaluation and management of treatment-related diarrhea in patients with advanced cancer: a review. <i>J Pain Symptom Manage.</i> 2008;36(4):413-23. | Narrative review |
| Cherny NI. Taking care of the terminally ill cancer patient: Management of gastrointestinal symptoms in patients with advanced cancer. <i>Ann Oncol.</i> 2004;15(SUPPL. 4):iv205-iv13. | Narrative review |
| Fallon M, O'Neill B. ABC of palliative care. Constipation and diarrhoea. <i>Bmj.</i> 1997;315(7118):1293-6. | Narrative review |
| Gattuso JM, Kamm MA. Adverse effects of drugs used in the management of constipation and diarrhoea. <i>Drug Saf.</i> 1994;10(1):47-65. | Narrative review |
| Giridhar V, Kumar S, Chethan K, Seetharam P. Successful palliation of diarrhea owing to malignant duodenocolic fistula by octreotide. <i>Can J Surg.</i> 2009;52(6):E306-8. | Case report |
| Hagmann C, Cramer A, Kestenbaum A, Durazo C, Downey A, Russell M, et al. Evidence-based Palliative Care Approaches to Non-pain Physical Symptom Management in Cancer Patients. <i>Semin Oncol Nurs.</i> 2018;34(3):227-40. | Narrative review |
| Iannitti T, Palmieri B. Therapeutical use of probiotic formulations in clinical practice. <i>Clinical Nutrition.</i> 2010;29(6):701-25. | Narrative review |
| Jaffe G. A comparison of lomotil and imodium in acute non specific diarrhoea. <i>J Int Med Res.</i> 1977;5(3):195-8. | Geen palliatieve populatie; wel RCT |
| Johanson JF. Diagnosis and management of AIDS-related diarrhea. <i>Canadian Journal of Gastroenterology.</i> 1996;10(7):461-8. | Narrative review |
| Kelly P. HIV-related diarrhoea. <i>AIDS Action.</i> 1998(39):7. | Narrative review |
| Kotlinska-Lemieszek A, Klepstad P, Haugen DF. Clinically Significant Drug-Drug Interactions Involving Medications Used for Symptom Control in Patients With Advanced Malignant Disease: A Systematic Review. <i>Journal of Pain and Symptom Management.</i> 2019;57(5):989-98.e1. | Gaat niet over behandeling van diarree |
| Levy MH, Catalano RB. Control of common physical symptoms other than pain in patients with terminal disease. <i>Semin Oncol.</i> 1985;12(4):411-30. | Narrative review |
| Lin DC. Probiotics As Functional Foods. <i>Nutr Clin Pract.</i> 2003;18(6):497-506. | Narrative review |

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|---|---|
| Mercadante S, Fulfaro F, Casuccio A. The impact of home palliative care on symptoms in advanced cancer patients. <i>Support Care Cancer</i> . 2000;8(4):307-10. | Geen vergelijkende studie; slechts minderheid had diarree |
| Mercadante S. Diarrhea in terminally ill patients: pathophysiology and treatment. <i>J Pain Symptom Manage</i> . 1995;10(4):298-309. | Narrative review |
| Mochamat, Cuhls H, Marinova M, Kaasa S, Stieber C, Conrad R, et al. A systematic review on the role of vitamins, minerals, proteins, and other supplements for the treatment of cachexia in cancer: a European Palliative Care Research Centre cachexia project. <i>Journal of Cachexia, Sarcopenia and Muscle</i> . 2017;8(1):25-39. | Geen behandeling van diarree |
| Molassiotis A, Brearley S, Saunders M, Craven O, Wardley A, Farrell C, et al. Effectiveness of a home care nursing program in the symptom management of patients with colorectal and breast cancer receiving oral chemotherapy: a randomized, controlled trial. <i>J Clin Oncol</i> . 2009;27(36):6191-8. | Interventie niet vermeld in PICO |
| Prommer E. Role of codeine in palliative care. <i>J Opioid Manag</i> . 2011;7(5):401-6. | Enkel PubMed, geen kwaliteitsbeoordeling (narrative review) |
| Prommer EE. Established and potential therapeutic applications of octreotide in palliative care. <i>Support Care Cancer</i> . 2008;16(10):1117-23. | Narrative review; interventie niet vermeld in PICO |
| Rangwala F, Zafar SY, Abernethy AP. Gastrointestinal symptoms in cancer patients with advanced disease: new methodologies, insights, and a proposed approach. <i>Curr</i> . 2012;6(1):69-76. | Narrative review |
| Regnard C, Twycross R, Mihalyo M, Wilcock A. Loperamide. <i>Journal of Pain and Symptom Management</i> . 2011;42(2):319-23. | Narrative review |
| Ripamonti C, Grosso MI. Palliative medical management. <i>European Journal of Cancer, Supplement</i> . 2005;3(3):203-19. | Narrative review |
| Schiller LR. Management of diarrhea in clinical practice: Strategies for primary care physicians. <i>Rev Gastroenterol Disord</i> . 2007;7(SUPPL. 3):S27-S38. | Narrative review |
| Senderovich H, Vierhout MJ. Is there a role for charcoal in palliative diarrhea management? <i>Curr Med Res Opin</i> . 2018;34(7):1253-9. | Geen kwaliteitsbeoordeling van geïnccludeerde studies; interventie staat niet vermeld in PICO |
| Shah U, Morrison T. A review of the symptomatic management of malignant gliomas in adults. <i>J</i> . 2013;11(4):424-9. | Gaat niet over diarree |
| Suhag V. Palliative therapy in cancer patients: An overview. <i>JK Science</i> . 2005;7(2):67-72. | Narrative review |

- Zoekstrategie: aanvullende search

Ovid MEDLINE(R) <1946 to June 16, 2023>

- 1 diarrh*.ti,ab. (110573)
- 2 exp Diarrhea/ (57530)
- 3 1 or 2 (125461)
- 4 meta-analysis.mp,pt. or review.pt. or search:.tw. (3247023)
- 5 exp Neoplasms/ (3843088)
- 6 Neoplasm Staging/ (192683)
- 7 cancer\$.ti,ab. (1879944)
- 8 tumor\$.ti,ab. (1494166)
- 9 tumour\$.ti,ab. (275311)

10 carcinoma\$.ti,ab. (662496)
11 neoplas\$.ti,ab. (261186)
12 lymphoma.ti,ab. (161588)
13 melanoma.ti,ab. (115915)
14 staging.ti,ab. (80630)
15 metastas\$.ti,ab. (366859)
16 metastatic.ti,ab. (232683)
17 exp NeoplasM Metastasis/ (221398)
18 exp neoplastic processes/ (514619)
19 neoplastic process\$.ti,ab. (2907)
20 non small cell.ti,ab. (66099)
21 adenocarcinoma\$.ti,ab. (149675)
22 squamous cell.ti,ab. (109774)
23 nsclc.ti,ab. (45680)
24 osteosarcoma\$.ti,ab. (24111)
25 phyllodes.ti,ab. (1941)
26 cystosarcoma\$.ti,ab. (569)
27 fibroadenoma\$.ti,ab. (3606)
28 (non adj small adj cell).ti,ab. (66099)
29 (non adj2 small adj2 cell).ti,ab. (66344)
30 (nonsmall adj2 cell).ti,ab. (3117)
31 plasmacytoma\$.ti,ab. (6264)
32 myeloma.ti,ab. (53290)
33 multiple myeloma.ti,ab. (38715)
34 lymphoblastoma\$.ti,ab. (346)
35 lymphocytoma\$.ti,ab. (337)
36 lymphosarcoma\$.ti,ab. (4077)
37 immunocytoma.ti,ab. (404)
38 sarcoma\$.ti,ab. (95164)
39 hodgkin\$.ti,ab. (64437)
40 (nonhodgkin\$ or non hodgkin\$).ti,ab. (37235)
41 malignan\$.ti,ab. (582687)
42 exp Paraneoplastic Syndromes/ (34224)
43 or/5-42 (4584434)
44 3 and 4 and 43 (3313)

Ovid MEDLINE(R) Epub Ahead of Print <June 16, 2023>, Ovid MEDLINE(R) Daily Update <June 16, 2023>

1 diarrh*.ti,ab. (1317)
2 exp Diarrhea/ (39)
3 1 or 2 (1318)
4 meta-analysis.mp,pt. or review.pt. or search:.tw. (53792)
5 exp Neoplasms/ (5204)
6 Neoplasm Staging/ (123)
7 cancer\$.ti,ab. (30228)
8 tumor\$.ti,ab. (18733)
9 tumour\$.ti,ab. (2544)
10 carcinoma\$.ti,ab. (7020)
11 neoplas\$.ti,ab. (3129)
12 lymphoma.ti,ab. (1898)
13 melanoma.ti,ab. (1424)
14 staging.ti,ab. (1213)
15 metastas\$.ti,ab. (5163)
16 metastatic.ti,ab. (3364)
17 exp Neoplasm Metastasis/ (98)
18 exp neoplastic processes/ (465)
19 neoplastic process\$.ti,ab. (22)

- 20 non small cell.ti,ab. (1301)
- 21 adenocarcinoma\$.ti,ab. (1937)
- 22 squamous cell.ti,ab. (1554)
- 23 nsclc.ti,ab. (937)
- 24 osteosarcoma\$.ti,ab. (259)
- 25 phyllodes.ti,ab. (15)
- 26 cystosarcoma\$.ti,ab. (2)
- 27 fibroadenoma\$.ti,ab. (74)
- 28 (non adj small adj cell).ti,ab. (1301)
- 29 (non adj2 small adj2 cell).ti,ab. (1304)
- 30 (nonsmall adj2 cell).ti,ab. (44)
- 31 plasmacytoma\$.ti,ab. (45)
- 32 myeloma.ti,ab. (575)
- 33 multiple myeloma.ti,ab. (518)
- 34 lymphoblastoma\$.ti,ab. (0)
- 35 lymphocytoma\$.ti,ab. (4)
- 36 lymphosarcoma\$.ti,ab. (1)
- 37 immunocytoma.ti,ab. (1)
- 38 sarcoma\$.ti,ab. (938)
- 39 hodgkin\$.ti,ab. (529)
- 40 (nonhodgkin\$ or non hodgkin\$).ti,ab. (306)
- 41 malignan\$.ti,ab. (7626)
- 42 exp Paraneoplastic Syndromes/ (41)
- 43 or/5-42 (48788)
- 44 3 and 4 and 43 (76)

Cochrane Library

- #1 diarrh*.ti,ab 21416
- #2 MeSH descriptor: [Diarrhea] explode all trees 7235
- #3 #1 or #2 23133
- #4 MeSH descriptor: [Neoplasms] explode all trees 111266
- #5 MeSH descriptor: [Neoplasm Staging] explode all trees 8446
- #6 cancer*.ti,ab 172616
- #7 tumor*.ti,ab 63836
- #8 tumour*.ti,ab 14216
- #9 carcinoma*.ti,ab 34472
- #10 neoplasm*.ti,ab 8124
- #11 lymphoma.ti,ab 10422
- #12 melanoma.ti,ab 5854
- #13 staging.ti,ab 5966
- #14 metastas*.ti,ab 20801
- #15 metastatic.ti,ab 32408
- #16 MeSH descriptor: [Neoplasm Metastasis] explode all trees 6537
- #17 MeSH descriptor: [Neoplastic Processes] explode all trees 13073
- #18 neoplastic process*.ti,ab 200
- #19 (non NEAR small NEAR cell).ti,ab 13231
- #20 adenocarcinoma*.ti,ab 9478
- #21 (squamous NEAR cell).ti,ab 8352
- #22 nsclc.ti,ab 11197
- #23 osteosarcoma*.ti,ab 481
- #24 phyllodes.ti,ab 4
- #25 cystosarcoma*.ti,ab 0
- #26 fibroadenoma*.ti,ab 94
- #27 (non NEAR/2 small NEAR/2 cell).ti,ab 13204
- #28 (nonsmall NEAR/2 cell).ti,ab 10427
- #29 plasmacytoma*.ti,ab 113

#30 myeloma:ti,ab 6060
 #31 (multiple NEAR myeloma):ti,ab 5493
 #32 lymphoblastoma*:ti,ab 0
 #33 lymphocytoma*:ti,ab 1
 #34 lymphosarcoma*:ti,ab 23
 #35 immunocytoma:ti,ab 16
 #36 sarcoma*:ti,ab 2700
 #37 hodgkin*:ti,ab 5608
 #38 (nonhodgkin* or (non NEAR hodgkin*)):ti,ab 3392
 #39 malignan*:ti,ab 28880
 #40 MeSH descriptor: [Paraneoplastic Syndromes] explode all trees 413
 #41 {or #4-#40} 268618
 #42 #3 and #41 7314

Embase

#1. 'neoplasm'/exp 5999257
 #2. 'cancer staging'/exp 445506
 #3. cancer*:ti,ab 3147220
 #4. tumor*:ti,ab 2375524
 #5. tumour*:ti,ab 432350
 #6. carcinoma*:ti,ab 1035837
 #7. lymphoma:ti,ab 273835
 #8. melanoma:ti,ab 188165
 #9. staging:ti,ab 153036
 #10. metastatic:ti,ab 438438
 #11. 'metastasis'/exp 814154
 #12. 'oncogenesis and malignant transformation'/exp 1233831
 #13. neoplastic AND process*:ti,ab 18061
 #14. (non NEAR/1 small NEAR/1 cell):ti,ab 131262
 #15. adenocarcinoma*:ti,ab 268199
 #16. (squamous NEAR/1 cell):ti,ab 179932
 #17. nsclc:ti,ab 107544
 #18. osteosarcoma*:ti,ab 36309
 #19. phyllodes:ti,ab 3080
 #20. cystosarcoma*:ti,ab 686
 #21. fibroadenoma*:ti,ab 5577
 #22. (non NEAR/2 small NEAR/2 cell):ti,ab 131511
 #23. (nonsmall NEAR/2 cell):ti,ab 109703
 #24. plasmacytoma*:ti,ab 8910
 #25. myeloma:ti,ab 100399
 #26. (multiple NEAR/1 myeloma):ti,ab 79403
 #27. lymphoblastoma*:ti,ab 347
 #28. lymphocytoma*:ti,ab 447
 #29. lymphosarcoma*:ti,ab 4591
 #30. immunocytoma:ti,ab 472
 #31. sarcoma*:ti,ab 140351
 #32. hodgkin*:ti,ab 105926
 #33. nonhodgkin*:ti,ab OR ((non NEAR/1 hodgkin*):ti,ab) 63099
 #34. malignan*:ti,ab 982855
 #35. 'paraneoplastic syndrome'/exp 50652
 #36. #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #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 OR #28
 OR #29 OR #30 OR #31 OR #32 OR #33 OR #34 OR #35 7141528
 #37. diarrh*:ti,ab 190830
 #38. 'diarrhea'/exp 315563
 #39. #37 OR #38 365156

#40. #36 AND #39 122323

#41. #36 AND #39 AND ([cochrane review]/lim OR [systematic review]/lim OR [meta analysis]/lim) AND ([article]/lim OR [article in press]/lim OR [review]/lim) AND ([dutch]/lim OR [english]/lim) AND [embase]/lim 3618

Tabel 5. Resultaten van aanvullende zoekactie van onderzoeksvraag 3

| Database | Aantal |
|---|-------------|
| Medline | 3313 |
| PreMedline | 76 |
| Embase | 3618 |
| CDSR | 82 |
| Totaal aantal resultaten | 7089 |
| Aantal geëxcludeerd (dubbelen en foute taal en jaartal) | 1057 |
| Totaal aantal unieke resultaten | 6032 |

Tabel 6. Overzicht van geëxcludeerde studies gebaseerd op beoordeling van de volledige tekst van onderzoeksvraag 3: aanvullende search

| Referentie | Reden voor exclusie |
|---|--|
| Alexandraki KI, Angelousi A, Chatzellis E, Chrisoulidou A, Kalogeris N, Kanakis G, et al. The Role of Somatostatin Analogues in the Control of Diarrhea and Flushing as Markers of Carcinoid Syndrome: A Systematic Review and Meta-Analysis. <i>Journal of Personalized Medicine</i> . 2023;13(2). | Geen interventie in de PICO |
| Amiri Khosroshahi R, Zeraattalab-Motlagh S, Sarsangi P, Nielsen SM, Mohammadi H. Effect of probiotic supplementation on chemotherapy- and radiotherapy-related diarrhoea in patients with cancer: an umbrella review of systematic reviews and meta-analyses. <i>Br J Nutr</i> . 2023:1-12. | Geen medicamenteuze behandeling |
| Andreyev J, Ross P, Donnellan C, Lennan E, Leonard P, Waters C, et al. Guidance on the management of diarrhoea during cancer chemotherapy. <i>Lancet Oncol</i> . 2014;15(10):e447-60. | Geen methodologie van literatuuronderzoek |
| Anthony L. New strategies for the prevention and reduction of cancer treatment-induced diarrhea. <i>Semin Oncol Nurs</i> . 2003;19(4 Suppl 3):17-21. | Narrative review |
| Benson AB, 3rd, Ajani JA, Catalano RB, Engelking C, Kornblau SM, Martenson JA, Jr., et al. Recommended guidelines for the treatment of cancer treatment-induced diarrhea. <i>J Clin Oncol</i> . 2004;22(14):2918-26. | Geen methodologie van literatuuronderzoek |
| Bhattacharya S, Vijayasekar C, Worthing J, Mathew G. Octreotide in chemotherapy induced diarrhoea in colorectal cancer: a review article. <i>Acta Gastroenterol Belg</i> . 2009;72(3):289-95. | Geen interventie in de PICO, geen kwaliteitsbeoordeling van geïnccludeerde studies |
| Chen Y, Qi A, Teng D, Li S, Yan Y, Hu S, et al. Probiotics and synbiotics for preventing postoperative infectious complications in colorectal cancer patients: a systematic review and meta-analysis. <i>Tech Coloproctol</i> . 2022;26(6):425-36. | Preventie van diarree, geen behandeling |
| Cherny NI. Taking care of the terminally ill cancer patient: Management of gastrointestinal symptoms in patients with advanced cancer. <i>Ann Oncol</i> . 2004;15(SUPPL. 4):iv205-iv13. | Narrative review |
| Cherwin C, Nakad L, Albashayreh A. Systematic Review of Nonpharmacologic Approaches for the Management of Gastrointestinal Symptoms. <i>Oncol Nurs Forum</i> . 2019;46(1):E1-E21. | Geen interventie in de PICO |
| Cogo E, Elsayed M, Liang V, Cooley K, Guerin C, Psihogios A, et al. Probiotics evaluation in oncological surgery: A systematic review of 36 randomized controlled trials assessing 21 diverse formulations. <i>Curr</i> . 2021;28(6):5192-214. | Preventie van diarree, geen behandeling |

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|--|---|
| Collins M, Soularue E, Marthey L, Carbonnel F. Management of Patients With Immune Checkpoint Inhibitor-Induced Enterocolitis: A Systematic Review. <i>Clinical Gastroenterology and Hepatology</i> . 2020;18(6):1393-403.e1. | Enkel PubMed, geen kwaliteitsbeoordeling van geïnccludeerde studies |
| Danis R, Mego M, Antonova M, Stepanova R, Svobodnik A, Hejnova R, et al. Orally Administered Probiotics in the Prevention of Chemotherapy (± Radiotherapy)-Induced Gastrointestinal Toxicity: A Systematic Review With Meta-Analysis of Randomized Trials. <i>Integ Cancer Ther</i> . 2022;21. | Preventie van diarree, geen behandeling |
| Deleemans JM, Gajtani Z, Baydoun M, Reimer RA, Piedalue KA, Carlson LE. The Use of Prebiotic and Probiotic Interventions for Treating Gastrointestinal and Psychosocial Health Symptoms in Cancer Patients and Survivors: A Systematic Review. <i>Integ Cancer Ther</i> . 2021;20:15347354211061733. | Geen medicamenteuze behandeling |
| Devaraj NK, Suppiah S, Veettil SK, Ching SM, Lee KW, Menon RK, et al. The Effects of Probiotic Supplementation on the Incidence of Diarrhea in Cancer Patients Receiving Radiation Therapy: A Systematic Review with Meta-Analysis and Trial Sequential Analysis of Randomized Controlled Trials. <i>Nutrients</i> . 2019;11(12):27. | Preventie van diarree, geen behandeling |
| Ding M, Zhang X, Wang J, Gao F, Zheng X, Yuan J, et al. Treatment and outcomes of immune checkpoint inhibitors-associated colitis/diarrhea: A systematic review and meta-analysis. <i>Dig Liver Dis</i> . 2023;07:07. | Geen interventie in de PICO |
| Faiman B. Diarrhea in Multiple Myeloma: A Review of the Literature. <i>Clin J Oncol Nurs</i> . 2016;20(4):E100-5. | Narrative review |
| Fragkos KC, Zárate-Lopez N, Frangos CC. What about clonidine for diarrhoea? A systematic review and meta-analysis of its effect in humans. <i>Therapeutic Advances in Gastroenterology</i> . 2015;9(3):282-301. | Geen interventie in de PICO |
| Fuccio L, Guido A, Eusebi LH, Laterza L, Grilli D, Cennamo V, et al. Effects of probiotics for the prevention and treatment of radiation-induced diarrhea. <i>J Clin Gastroenterol</i> . 2009;43(6):506-13. | Geen medicamenteuze behandeling |
| Garczyk A, Kaliciak I, Drogowski K, Horwat P, Kopeć S, Staręga Z, et al. Influence of Probiotics in Prevention and Treatment of Patients Who Undergo Chemotherapy or/and Radiotherapy and Suffer from Mucositis, Diarrhoea, Constipation, Nausea and Vomiting. <i>Journal of Clinical Medicine</i> . 2022;11(12). | Geen kwaliteitsbeoordeling van geïnccludeerde studies |
| Gwede CK. Overview of radiation- and chemoradiation-induced diarrhea. <i>Semin Oncol Nurs</i> . 2003;19(4 Suppl 3):6-10. | Narrative review |
| Haas S, Mikkelsen AH, Kronborg CJS, Oggesen BT, Møller PF, Fassov J, et al. Management of treatment-related sequelae following colorectal cancer. <i>Colorectal Dis</i> . 2023;25(3):458-88. | Gaat niet over behandeling van diarree |
| Hamad A, Fragkos KC, Forbes A. A systematic review and meta-analysis of probiotics for the management of radiation induced bowel disease. <i>Clin Nutr</i> . 2013;32(3):353-60. | Geen medicamenteuze behandeling |
| Hassan H, Rompola M, Glaser AW, Kinsey SE, Phillips RS. Systematic review and meta-analysis investigating the efficacy and safety of probiotics in people with cancer. <i>Support Care Cancer</i> . 2018;26(8):2503-9. | Geen medicamenteuze behandeling |
| Henson CC, Burden S, Davidson SE, Lal S. Nutritional interventions for reducing gastrointestinal toxicity in adults undergoing radical pelvic radiotherapy. <i>Cochrane Database Syst Rev</i> . 2013(11):CD009896. | Geen medicamenteuze behandeling |
| Holm MO, Bye A, Falkmer U, Tobberup R, Rasmussen HH, Lauridsen C, et al. The effect of nutritional interventions in acute radiation-induced diarrhoea in patients with primary pelvic cancer: A systematic review. <i>Crit Rev Oncol Hematol</i> . 2023;188:104038. | Geen medicamenteuze behandeling |
| Jolfaie NR, Mirzaie S, Ghasvand R, Askari G, Miraghajani M. The effect of glutamine intake on complications of colorectal and colon cancer treatment: A systematic review. <i>Journal of Research in Medical Sciences</i> . 2015;20(9):910-8. | Geen medicamenteuze behandeling |

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|---|---|
| Jordan K, Feyer P, Holler U, Link H, Wormann B, Jahn F. Supportive Treatments for Patients with Cancer. <i>Dtsch.</i> 2017;114(27-28):481-7. | Geen methodologie van literatuuronderzoek |
| Khan MS, Walter T, Buchanan-Hughes A, Worthington E, Keeber L, Feuilly M, et al. Differential diagnosis of diarrhoea in patients with neuroendocrine tumours: A systematic review. <i>World J Gastroenterol.</i> 2020;26(30):4537-56. | Geen medicamenteuze behandeling |
| Khosroshahi RA, Zeraattalab-Motlagh S, Sarsangi P, Nielsen SM, Mohammadi H. Effect of probiotic supplementation on chemotherapy and radiotherapy-related diarrhea in patients with cancer: An umbrella review of systematic reviews and meta-analyses. <i>Br J Nutr.</i> 2023. | Double |
| Lin S, Shen Y. The efficacy and safety of probiotics for prevention of chemoradiotherapy-induced diarrhea in people with abdominal and pelvic cancer: A systematic review and meta-analysis based on 23 randomized studies. <i>Int J Surg.</i> 2020;84:69-77. | Preventie van diarree, geen behandeling |
| Liu MM, Li ST, Shu Y, Zhan HQ. Probiotics for prevention of radiation-induced diarrhea: A meta-analysis of randomized controlled trials. <i>PLoS ONE.</i> 2017;12(6):e0178870. | Preventie van diarree, geen behandeling |
| Lotfi-Jam K, Carey M, Jefford M, Schofield P, Charleson C, Aranda S. Nonpharmacologic strategies for managing common chemotherapy adverse effects: a systematic review. <i>J Clin Oncol.</i> 2008;26(34):5618-29. | Geen interventie in de PICO |
| Lu D, Yan J, Liu F, Ding P, Chen B, Lu Y, et al. Probiotics in preventing and treating chemotherapy-induced diarrhea: a meta-analysis. <i>Asia Pac J Clin Nutr.</i> 2019;28(4):701-10. | Preventie van diarree, geen behandeling |
| Lu Y, Luo X, Yang D, Li Y, Gong T, Li B, et al. Effects of probiotic supplementation on related side effects after chemoradiotherapy in cancer patients. <i>Frontiers in Oncology.</i> 2022;12. | Preventie van diarree, geen behandeling |
| Ma C, MacDonald JK, Nguyen TM, Vande Casteele N, Linggi B, Lefevre P, et al. Pharmacological Interventions for the Prevention and Treatment of Immune Checkpoint Inhibitor-Associated Enterocolitis: A Systematic Review. <i>Digestive Diseases and Sciences.</i> 2022;67(4):1128-55. | Geen interventie in de PICO |
| Ma DJ, Li ZJ, Wang XY, Zhu XJ, Sun YL. Octreotide treatment of cancer chemoradiotherapy-induced diarrhoea: A meta-analysis of randomized controlled trials. <i>Translational Cancer Research.</i> 2019;8(6):2284-94. | Geen interventie in de PICO |
| Major P, Figueredo A, Tandan V, Bramwell V, Charette M, Oliver T. Role of octreodite in the management of patients with cancer. <i>Curr.</i> 2003;10(3):161-79. | Geen interventie in de PICO |
| Nielsen DL, Juhl CB, Chen IM, Kellermann L, Nielsen OH. Immune checkpoint Inhibitor-Induced diarrhea and Colitis: Incidence and Management. A systematic review and Meta-analysis. <i>Cancer Treat Rev.</i> 2022;109:102440. | Geen interventie in de PICO |
| Qiu G, Yu Y, Wang Y, Wang X. The significance of probiotics in preventing radiotherapy-induced diarrhea in patients with cervical cancer: A systematic review and meta-analysis. <i>Int J Surg.</i> 2019;65:61-9. | Preventie van diarree, geen behandeling |
| Redman MG, Ward EJ, Phillips RS. The efficacy and safety of probiotics in people with cancer: a systematic review. <i>Ann Oncol.</i> 2014;25(10):1919-29. | Geen medicamenteuze behandeling |
| Richardson G, Dobish R. Chemotherapy induced diarrhea. <i>J Oncol Pharm Pract.</i> 2007;13(4):181-98. | Geen full-text |
| Senderovich H, Vierhout MJ. Is there a role for charcoal in palliative diarrhea management? <i>Curr Med Res Opin.</i> 2018;34(7):1253-9. | Geen interventie in de PICO |
| Stern J, Ippoliti C. Management of acute cancer treatment-induced diarrhea. <i>Semin Oncol Nurs.</i> 2003;19(4 Suppl 3):11-6. | Narrative review |
| Suadoni MT. Are probiotics more efficacious than placebo at preventing radiotherapy-induced diarrhoea in adults with cancer. <i>Journal of Radiotherapy in Practice.</i> 2014;13(2):226-35. | Preventie van diarree, geen behandeling |

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|---|---|
| Sun J, Wang H, Hu H. Glutamine for chemotherapy induced diarrhea: a meta-analysis. <i>Asia Pac J Clin Nutr.</i> 2012;21(3):380-5. | Geen medicamenteuze behandeling |
| van de Wetering FT, Heus P, Verleye L, van Tienhoven G, Scholten RJPM. Probiotics for the prevention or treatment of chemotherapy or radiotherapy related diarrhoea in cancer patients. <i>Cochrane Database Syst Rev.</i> 2013;2013(12). | Protocol |
| Vehreschild MJ, Vehreschild JJ, Hubel K, Hentrich M, Schmidt-Hieber M, Christopheit M, et al. Diagnosis and management of gastrointestinal complications in adult cancer patients: evidence-based guidelines of the Infectious Diseases Working Party (AGIHO) of the German Society of Hematology and Oncology (DGHO). <i>Ann Oncol.</i> 2013;24(5):1189-202. | Geen methodologie van literatuuronderzoek |
| Wadler S, Benson AB, 3rd, Engelking C, Catalano R, Field M, Kornblau SM, et al. Recommended guidelines for the treatment of chemotherapy-induced diarrhea. <i>J Clin Oncol.</i> 1998;16(9):3169-78. | Geen methodologie van literatuuronderzoek |
| Wang YH, Yao N, Wei KK, Jiang L, Hanif S, Wang ZX, et al. The efficacy and safety of probiotics for prevention of chemoradiotherapy-induced diarrhea in people with abdominal and pelvic cancer: a systematic review and meta-analysis. <i>Eur J Clin Nutr.</i> 2016;70(11):1246-53. | Preventie van diarree, geen behandeling |
| Wei D, Heus P, van de Wetering FT, van Tienhoven G, Verleye L, Scholten RJ. Probiotics for the prevention or treatment of chemotherapy- or radiotherapy-related diarrhoea in people with cancer. <i>Cochrane Database Syst Rev.</i> 2018;8:CD008831. | Geen medicamenteuze behandeling |
| Zimmerer T, Bocker U, Wenz F, Singer MV. Medical prevention and treatment of acute and chronic radiation induced enteritis--is there any proven therapy? a short review. <i>Z Gastroenterol.</i> 2008;46(5):441-8. | Narrative review |

- **Onderzoeksvraag 4**

| | |
|--------------------------|---|
| Patients/Patiënten | Patiënten (≥ 18 jaar) in de palliatieve fase met tenesmi, loze aandrang of proctalgie fugax |
| Intervention/Interventie | Chemotherapie, clonazepam, baclofen, calciumantagonisten, dexamethason, botulinetoxine A, laxantia, chirurgische ingrepen (stoma), bestraling, voeding, warm water klysma/darmspoeling, glutamine |
| Comparison/Vergelijking | Andere (niet-)medicamenteuze behandeling, placebo, geen behandeling of ten opzichte van elkaar |
| Outcome(s)/Uitkomst(en) | Diarree/symptoomverlichting, kwaliteit van leven, patiënttevredenheid, bijwerkingen |

- **Zoekstrategie**

Ovid MEDLINE(R) <1946 to April Week 4 2023>

- 1 urge*.mp. (153809)
- 2 exp Defecation/ (7649)
- 3 1 and 2 (436)
- 4 (urge* adj5 (stool or def?ecat*)).mp. (667)
- 5 tenesm*.mp. (810)
- 6 (proctalgie adj fugax).mp. (116)
- 7 3 or 4 or 5 or 6 (1788)

Ovid MEDLINE(R) Epub Ahead of Print <May 05, 2023>, Ovid MEDLINE(R) Daily Update <May 05, 2023>

- 1 urge*.mp. (3891)
- 2 exp Defecation/ (5)
- 3 1 and 2 (0)
- 4 (urge* adj5 (stool or def?ecat*)).mp. (12)
- 5 tenesm*.mp. (15)
- 6 (proctalgie adj fugax).mp. (5)
- 7 3 or 4 or 5 or 6 (32)

Cochrane Library

- | | | |
|----|---|-------|
| #1 | urge*:ti,ab | 14924 |
| #2 | MeSH descriptor: [Defecation] explode all trees | 1148 |
| #3 | #1 and #2 | 73 |
| #4 | (urge* NEAR/5 (def?ecat* or stool)):ti,ab | 293 |
| #5 | tenesm*:ti,ab | 176 |
| #6 | (proctalgie adj fugax):ti,ab | 0 |
| #7 | #3 or #4 or #5 or #6 | 489 |

Embase

- | | | |
|------|--|---------|
| #1. | urge*:ti,ab | 257,098 |
| #2. | 'defecation'/exp | 17,197 |
| #3. | #1 AND #2 | 1,081 |
| #4. | 'defecation urgency'/exp | 1,070 |
| #5. | (urge* NEAR/5 (stool OR def?ecat*)):ti,ab | 566 |
| #6. | tenesm*:ti,ab | 1,692 |
| #7. | 'tenesmus'/exp | 2,183 |
| #8. | (proctalgie NEAR/1 fugax):ti,ab | 180 |
| #9. | 'proctalgie fugax'/exp | 99 |
| #10. | #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 | 5,457 |
| #11. | (#3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9) AND ([article]/lim OR [article in press]/lim OR [review]/lim) AND ([dutch]/lim OR [english]/lim) AND [embase]/lim | 2,996 |

Tabel 3. Resultaten van zoekactie van onderzoeksvraag 4

| Database | Aantal |
|---|---------------|
| Medline | 1788 |
| PreMedline | 32 |
| Embase | 2996 |
| CDSR | 24 |
| CENTRAL | 465 |
| Totaal aantal resultaten | 5305 |
| Aantal geëxcludeerd (dubbelen en foute taal en jaartal) | 1486 |
| Totaal aantal unieke resultaten | 3819 |

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

| Referentie | Reden voor exclusie |
|--|--|
| de Parades V, Etienney I, Bauer P, Taouk M, Atienza P. Proctalgia fugax: demographic and clinical characteristics. What every doctor should know from a prospective study of 54 patients. <i>Dis Colon Rectum</i> . 2007;50(6):893-8. | Geen palliatieve populatie; geen vergelijkende studie |
| Gentile M, Cestaro G, Formisano C, Sivero L. Treatment and outcomes of patients with chronic radiation proctitis. A single-center experience and review of the literature. <i>Ann Ital Chir</i> . 2020;91:668-72. | Geen vergelijkende studie |
| Gheorghe C, Gheorghe L, Iacob R, Iacob S, Simionov I, Bancila I. Argon plasma coagulation for radiation proctitis. <i>Rom J Gastroenterol</i> . 2003;12(2):107-12. | Geen vergelijkende studie |
| González N, Hernández-Bernal F, González T, Lugo J, Lence JJ, Pascual MA, et al. Epidermal growth factor in the treatment of radiogenic proctitis. <i>Biotechnologia Aplicada</i> . 2009;26(1):49-52. | <50% had tenesme; behandeling wordt niet in PICO vermeld |
| Gracia Solanas JA, Ramirez Rodriguez JM, Elia Guedea M, Aguilera Diago V, Martinez Diez M. Sequential treatment for proctalgia fugax. Mid-term follow-up. <i>Rev Esp Enferm Dig</i> . 2005;97(7):491-6. | Geen palliatieve populatie; geen vergelijkende studie |
| Jeyarajah S, Chow A, Ziprin P, Tilney H, Purkayastha S. Proctalgia fugax, an evidence-based management pathway. <i>Int J Colorectal Dis</i> . 2010;25(9):1037-46. | Nergens referentie naar palliatieve populaties |
| Jeyarajah S, Purkayastha S. Proctalgia fugax. <i>Cmaj</i> . 2013;185(5):417. | Narrative review |
| Johnston MJ, Robertson GM, Frizelle FA. Management of late complications of pelvic radiation in the rectum and anus: a review. <i>Dis Colon Rectum</i> . 2003;46(2):247-59. | Narrative review |
| Kowalski G, Leppert W, Adamski M, Szkutnik-Fiedler D, Baczyk E, Domagalska M, et al. Rectal enema of bupivacaine in cancer patients with tenesmus pain – case series. <i>Journal of Pain Research</i> . 2019;12:1847-54. | Geen vergelijkende studie |
| Lie MRKL, Kreijne JE, Dijkstra G, Löwenberg M, van Assche G, West RL, et al. No Superiority of Tacrolimus Suppositories vs Beclomethasone Suppositories in a Randomized Trial of Patients With Refractory Ulcerative Proctitis. <i>Clinical Gastroenterology and Hepatology</i> . 2020;18(8):1777-84.e2. | Geen palliatieve populatie |
| Peng Y, Wang H, Feng J, Fang S, Zhang M, Wang F, et al. Efficacy and safety of argon plasma coagulation for hemorrhagic chronic radiation proctopathy: A systematic review. <i>Gastroenterology Research and Practice</i> . 2018;2018. | Geen behandeling van tenesme |
| Raman RR. Two percent formalin retention enemas for hemorrhagic radiation proctitis: a preliminary report. <i>Dis Colon Rectum</i> . 2007;50(7):1032-9. | Geen vergelijkende studie; <50% had tenesme |
| Seo EH, Kim TO, Kim TG, Joo HR, Park J, Park SH, et al. The efficacy of the combination therapy with oral and topical mesalazine for patients with the first episode of radiation proctitis. <i>Dig Dis Sci</i> . 2011;56(9):2672-7. | Geen vergelijkende studie; onduidelijk |

| | |
|---|---|
| | hoeveel patiënten tenesme hadden |
| Takano M. Proctalgia fugax: caused by pudendal neuropathy? Dis Colon Rectum. 2005;48(1):114-20. | Geen palliatieve populatie; geen vergelijkende studie |
| Wu C, Guan L, Yao L, Huang J. Mesalazine suppository for the treatment of refractory ulcerative chronic radiation proctitis. Experimental and Therapeutic Medicine. 2018;16(3):2319-24. | Geen vergelijkende studie |
