

Bijlage Zoekverantwoording

Onderzoeksvraag 1: behandeling van de oorzaak

Wat is het effect van behandeling van opvliegers en/of overmatig zweten als gevolg van anti-hormonale therapie voor mammacarcinoom of prostaatacarcinoom bij patiënten in de palliatieve fase?
What is the effect of treatment of hot flashes and/or excessive sweating as a result of antihormonal therapy for breast cancer or prostate cancer in patients in the palliative phase?

Patients	patients in the palliative phase with hot flashes and/or sweating as a result of antihormonal therapy for breast cancer or prostate cancer
Intervention	pharmacological treatment or acupuncture
Comparator	other pharmacological treatment, placebo, non-pharmacological therapy, sham acupuncture, no treatment
Outcome	critical: hot flashes (frequency/24 hours, severity/experienced burden), sweating (NRS, VAS), quality of life important: quality of sleep, patient satisfaction, depression

Search strategy

On January 24, 2021 the scientific literature is searched in databases OVID Medline, Embase and Cochrane Library. An extra search was performed on February 24, 2021. The search strings are shown in this appendix.

The literature has been selected systematically based on the following predefined criteria:

- design: meta-analyses, systematic reviews, randomized controlled trials, controlled clinical trials
- language: English, Dutch, French, German
- publication dates: 1990 to search date
- the outcomes are reported

Literature was excluded when no quantitative data was presented, when the population was not focused on antihormonal therapy, or when the interventions were other than those focussed on depression.

Search results

The selection criteria were applied on the references yielded from the main search. 4021 unique hits were screened on title and abstract (Table 1). Of these, 3851 were excluded. Of the remaining 170 papers, the full-text was retrieved. Based on the full-text, all papers were excluded.

After the additional Medline search, 71 unique hits were screened on title and abstract (Table 1). Of these, 54 were excluded. Of the remaining 17 papers, the full-text was retrieved. Based on the full-text, all papers were excluded.

Table 1. Overall search results

Database	Number of hits
OVID Medline: main search	3093
OVID PreMedline: main search	7
EMBASE.com	1392
Cochrane Database of Systematic Reviews	22
CENTRAL	1342
Total hits	5856
n excluded (language, duplicates)	1841
Total unique eligible hits	4021
OVID Medline: extra search	71

Excluded studies

Table 2 provides an overview of the 187 excluded studies with reasons.

Table 2. Overview of excluded studies based on full-text evaluation of research question 1

Reference	Reason for exclusion
Aaronson, T., et al. Cognitive behavioral therapy and physical exercise for climacteric symptoms in breast cancer patients experiencing treatment induced menopause: final results of a multicenter randomized controlled. <i>Psycho-oncology</i> , 2011. 20, 94-95.	Abstract
Advani, P., et al., A pilot randomized trial to prevent sexual dysfunction in postmenopausal breast cancer survivors starting adjuvant aromatase inhibitor therapy. <i>Journal of Cancer Survivorship</i> , 2017. 11(4): p. 477-485.	Wrong intervention
Ahimahalle, T.Z., et al., Clinical comparison of the effects of gabapentin and Megestrol acetate on hot flashes in patients with breast cancer. <i>International Journal of Hematology-Oncology and Stem Cell Research</i> , 2012. 6(1): p. 6-10.	No advanced stages (or unclear) or no separate analysis of advanced stages
Ahmadi, H. and S. Daneshmand, Androgen deprivation therapy: evidence-based management of side effects. <i>BJU International</i> , 2013. 111(4): p. 543-8.	Medline-based review
Anonymous, Treatment of estrogen deficiency symptoms in women surviving breast cancer. The Hormone Foundation, Canadian Breast Cancer Research Initiative, National Cancer Institute of Canada, Endocrine Society, and the University of Virginia Cancer Center and Woman's Place. <i>Journal of Clinical Endocrinology & Metabolism</i> , 1998. 83(6): p. 1993-2000.	Consensus conference
Antoine, C., et al., Safety of alternative treatments for menopausal symptoms after breast cancer: a qualitative systematic review. <i>Climacteric</i> , 2007. 10(1): p. 23-6.	No quality appraisal
Ashamalla, H., et al., Acupuncture for the alleviation of hot flashes in men treated with androgen ablation therapy. <i>International Journal of Radiation Oncology, Biology, Physics</i> , 2011. 79(5): p. 1358-63.	No control group
Bao, T., et al., Patient-reported outcomes in women with breast cancer enrolled in a dual-center, double-blind, randomized controlled trial assessing the effect of acupuncture in reducing aromatase inhibitor-induced musculoskeletal symptoms. <i>Cancer</i> , 2014. 120(3): p. 381-389.	No advanced stages (or unclear) or no separate analysis of advanced stages
Bardia, A., et al., Efficacy of nonestrogenic hot flash therapies among women stratified by breast cancer history and tamoxifen use: a pooled analysis. <i>Menopause</i> , 2009. 16(3): p. 477-83.	Pooled analysis, but not based on systematic search and no quality appraisal
Barnes, K.A., et al., Nutrition care guidelines for men with prostate cancer undergoing androgen deprivation therapy: do we have enough evidence? <i>Prostate Cancer & Prostatic Diseases</i> , 2019. 22(2): p. 221-234.	Wrong intervention
Barton, D.L., et al., Prospective evaluation of vitamin E for hot flashes in breast cancer survivors. <i>Journal of Clinical Oncology</i> , 1998. 16(2): p. 495-500.	DRM
Beckmann, M.W., et al., Hormone therapy in climactere and postmenopausal woman. A consensus of the DGGG. <i>Geburtshilfe und Frauenheilkunde</i> , 2003. 63(3): p. 209-212.	Consensus report
Beer, T.M., et al., Acupuncture for hot flashes in patients with prostate cancer. <i>Urology</i> , 2010. 76(5): p. 1182-8.	No control group
Bertelli, G., et al., Intramuscular depot medroxyprogesterone versus oral megestrol for the control of postmenopausal hot flashes in breast cancer patients: A randomised study. <i>Annals of Oncology</i> , 2002. 13(6): p. 883-888.	No advanced stages (or unclear) or no separate analysis of advanced stages
Biglia, N., et al., Duloxetine and escitalopram for hot flushes: efficacy and compliance in breast cancer survivors. <i>European Journal of Cancer Care</i> , 2018. 27(1).	No advanced stages (or unclear) or no

Reference	Reason for exclusion
	separate analysis of advanced stages
Biglia, N., et al., Evaluation of low-dose venlafaxine hydrochloride for the therapy of hot flushes in breast cancer survivors. <i>Maturitas</i> , 2005. 52(1): p. 78-85.	No advanced stages (or unclear) or no separate analysis of advanced stages
Biglia, N., et al., Non-hormonal treatment of hot flushes in breast cancer survivors: gabapentin vs. vitamin E. <i>Climacteric</i> , 2009. 12(4): p. 310-8.	No advanced stages (or unclear) or no separate analysis of advanced stages
Biglia, N., et al., Tibolone in postmenopausal women: a review based on recent randomised controlled clinical trials. <i>Gynecological Endocrinology</i> , 2010. 26(11): p. 804-14.	Narrative review
Birkhäuser, M., et al., Recommendations of the Swiss Menopause Society: Statement on postmenopausal hormone therapy after WHI and HERS. <i>Journal für Menopause</i> , 2003. 10(1): p. 7-10.	Narrative review
Boekhout, A.H., et al., Management of hot flashes in patients who have breast cancer with venlafaxine and clonidine: A randomized, double-blind, placebo-controlled trial. <i>Journal of Clinical Oncology</i> , 2011. 29(29): p. 3862-3868.	No advanced stages (or unclear) or no separate analysis of advanced stages
Bordeleau, L., et al., Multicenter, randomized, cross-over clinical trial of venlafaxine versus gabapentin for the management of hot flashes in breast cancer survivors. <i>Journal of Clinical Oncology</i> , 2010. 28(35): p. 5147-52.	No advanced stages (or unclear) or no separate analysis of advanced stages
Bordeleau, L., et al., Therapeutic options for the management of hot flashes in breast cancer survivors: an evidence-based review. <i>Clinical Therapeutics</i> , 2007. 29(2): p. 230-41.	No quality appraisal
Boyack, M., S. Lookinland, and S. Chasson, Efficacy of raloxifene for treatment of menopause: a systematic review. <i>Journal of the American Academy of Nurse Practitioners</i> , 2002. 14(4): p. 150-65.	Medline-search only
Brown, J.N. and B.R. Wright, Use of gabapentin in patients experiencing hot flashes. <i>Pharmacotherapy</i> , 2009. 29(1): p. 74-81.	No quality appraisal
Buijs, C., et al., Venlafaxine versus clonidine for the treatment of hot flashes in breast cancer patients: a double-blind, randomized cross-over study. <i>Breast Cancer Research & Treatment</i> , 2009. 115(3): p. 573-80.	No advanced stages (or unclear) or no separate analysis of advanced stages
Carpenter, J.S., et al., Randomized, double-blind, placebo-controlled crossover trials of venlafaxine for hot flashes after breast cancer. <i>Oncologist</i> , 2007. 12(1): p. 124-35.	No advanced stages (or unclear) or no separate analysis of advanced stages
Carroll, D.G. and K.W. Kelley, Use of antidepressants for management of hot flashes. <i>Pharmacotherapy: The Journal of Human Pharmacology & Drug Therapy</i> , 2009. 29(11): p. 1357-74.	No quality appraisal
Carroll, D.G., K.M. Lisenby, and T.L. Carter, Critical appraisal of paroxetine for the treatment of vasomotor symptoms. <i>International Journal of Women's Health</i> , 2015. 7: p. 615-624.	No quality appraisal
Cathcart-Rake, E., et al., A randomized, double-blind, placebo-controlled trial of testosterone for treatment of postmenopausal women with aromatase inhibitor-induced arthralgias: Alliance study A221102. <i>Supportive Care in Cancer</i> , 2021. 29(1): p. 387-396.	No advanced stages (or unclear) or no separate analysis of advanced stages

Reference	Reason for exclusion
Chan, C.W.H., et al., The effects of pharmacological and non-pharmacological interventions on symptom management and quality of life among breast cancer survivors undergoing adjuvant endocrine therapy: A systematic review. <i>International Journal of Environmental Research and Public Health</i> , 2020. 17(8).	No advanced stages (or unclear) or no separate analysis of advanced stages
Chao, L.F., et al., The efficacy of acupoint stimulation for the management of therapy-related adverse events in patients with breast cancer: A systematic review. <i>Breast Cancer Research and Treatment</i> , 2009. 118(2): p. 255-267.	No advanced stages (or unclear) or no separate analysis of advanced stages
Cheema, D., A. Coomarasamy, and T. El-Toukhy, Non-hormonal therapy of post-menopausal vasomotor symptoms: a structured evidence-based review. <i>Archives of Gynecology & Obstetrics</i> , 2007. 276(5): p. 463-9.	Only few sentences on breast cancer
Cobin, R.H., N.F. Goodman, and A.R.E.S. Committee, American Association of Clinical Endocrinologists and American College of Endocrinology Position Statement on Menopause-2017 Update. <i>Endocrine Practice</i> , 2017. 23(7): p. 869-880.	No systematic search
Cramer, H., et al., Yoga and meditation for menopausal symptoms in breast cancer survivors - A randomized controlled trial. <i>Cancer</i> , 2015. 121(13): p. 2175-2184.	Wrong intervention
Crew, K.D., et al., Pilot study of acupuncture for the treatment of joint symptoms related to adjuvant aromatase inhibitor therapy in postmenopausal breast cancer patients. <i>Journal of Cancer Survivorship</i> , 2007. 1(4): p. 283-91.	Wrong outcomes
De Vos, F.Y., et al., Menopausal status and adjuvant hormonal therapy for breast cancer patients: a practical guideline. <i>Critical Reviews in Oncology-Hematology</i> , 2012. 84(2): p. 252-60.	Narrative review
Deng, G., et al., Randomized, controlled trial of acupuncture for the treatment of hot flashes in breast cancer patients. <i>Journal of Clinical Oncology</i> , 2007. 25(35): p. 5584-90.	No advanced stages (or unclear) or no separate analysis of advanced stages
Desiderio, F., et al. Homeopathy in the treatment of menopausal symptoms in patients with early breast cancer. <i>Annals of oncology. Conference: 17th national congress of medical oncology rome italy. Conference start: 20151023 conference end: 20151025. Conference publication: (var.pagings)</i> , 2015. 26, vi25.	Abstract
Desmarais, J.E. and K.J. Looper, Managing menopausal symptoms and depression in tamoxifen users: implications of drug and medicinal interactions. <i>Maturitas</i> , 2010. 67(4): p. 296-308.	No quality appraisal
Dimitrakakis, C., et al., Clinical effects of tibolone in postmenopausal women after 5 years of tamoxifen therapy for breast cancer. <i>Climacteric</i> , 2005. 8(4): p. 342-51.	No advanced stages (or unclear) or no separate analysis of advanced stages
Dodin, S., et al. Acupuncture for menopausal hot flushes. <i>Cochrane Database of Systematic Reviews</i> , 2013.	No advanced stages (or unclear) or no separate analysis of advanced stages
Duijts, S.F., et al., Cognitive behavioral therapy and physical exercise for climacteric symptoms in breast cancer patients experiencing treatment-induced menopause: design of a multicenter trial. <i>BMC Women's Health</i> , 2009. 9: p. 15.	Study protocol
Duncan, A.M., et al., Soy isoflavones exert modest hormonal effects in premenopausal women. <i>Journal of Clinical Endocrinology & Metabolism</i> , 1999. 84(1): p. 192-7.	Wrong population and outcomes

Reference	Reason for exclusion
Elkins, G., et al., Randomized trial of a hypnosis intervention for treatment of hot flashes among breast cancer survivors. <i>Journal of Clinical Oncology</i> , 2008. 26(31): p. 5022-6.	Wrong intervention
Estrogen and progestogen use in postmenopausal women: 2010 position statement of the North American menopause society. <i>Menopause</i> , 2010. 17(2): p. 242-255.	Medline-based review
Farzaneh, M. The effect of oral evening primrose oil on menopausal hot flash: a randomized clinical trial. <i>International journal of gynecological cancer.</i> , 2013. 23, 1276.	Wrong intervention
Fedele, L., et al., A randomized study of the effects of tibolone and transdermal estrogen replacement therapy in postmenopausal women with uterine myomas. <i>European Journal of Obstetrics and Gynecology and Reproductive Biology</i> , 2000. 88(1): p. 91-94.	Wrong population
Fenlon, D., et al., MENOS4 trial: a multicentre randomised controlled trial (RCT) of a breast care nurse delivered cognitive behavioural therapy (CBT) intervention to reduce the impact of hot flushes in women with breast cancer: Study Protocol. <i>BMC Women's Health</i> , 2018. 18(1): p. 63.	Study protocol
Fenlon, D.R., J.L. Corner, and J.S. Haviland, A Randomized Controlled Trial of Relaxation Training to Reduce Hot Flashes in Women with Primary Breast Cancer. <i>Journal of Pain and Symptom Management</i> , 2008. 35(4): p. 397-405.	Wrong intervention
Forbes, M., et al. Lifestyle interventions combined with acupuncture-like transcutaneous electrical nerve stimulation in managing vasomotor symptoms induced by breast cancer treatment: results of a phase 2 randomized controlled trial. <i>Cancer research</i> , 2015. 75.	Abstract
Formoso, G., et al., Short and long term effects of tibolone in postmenopausal women. <i>Cochrane Database of Systematic Reviews</i> , 2012(2): p. CD008536.	Updated by Formoso 2016
Formoso, G., et al., Short-term and long-term effects of tibolone in postmenopausal women. <i>Cochrane Database of Systematic Reviews</i> , 2016. 10: p. CD008536.	No advanced stages (or unclear) or no separate analysis of advanced stages
Frisk, J., et al., Acupuncture improves health-related quality-of-life (HRQoL) and sleep in women with breast cancer and hot flushes. <i>Supportive Care in Cancer</i> , 2012. 20(4): p. 715-724.	No advanced stages (or unclear) or no separate analysis of advanced stages
Frisk, J., Managing hot flushes in men after prostate cancer-A systematic review. <i>Maturitas</i> , 2010. 65(1): p. 15-22.	No advanced stages (or unclear) or no separate analysis of advanced stages
Garland, S.N., et al., Comparative effectiveness of electro-acupuncture versus gabapentin for sleep disturbances in breast cancer survivors with hot flashes: a randomized trial. <i>Menopause</i> , 2017. 24(5): p. 517-523.	No advanced stages (or unclear) or no separate analysis of advanced stages
Gaudard, A.M.I.S., et al., Bioidentical hormones for women with vasomotor symptoms. <i>Cochrane Database of Systematic Reviews</i> , 2016. 2016(8).	Only spontaneous or surgical menopause
Gerber, B., et al., Complementary and alternative therapeutic approaches in patients with early breast cancer: A systematic review. <i>Breast Cancer Research and Treatment</i> , 2006. 95(3): p. 199-209.	No quality appraisal
Gerber, G.S., et al., Transdermal estrogen in the treatment of hot flushes in men with prostate cancer. <i>Urology</i> , 2000. 55(1): p. 97-101.	No advanced stages (or unclear) or no separate analysis of advanced stages

Reference	Reason for exclusion
Goldberg, R.M., et al., Transdermal clonidine for ameliorating tamoxifen-induced hot flashes. <i>Journal of Clinical Oncology</i> , 1994. 12(1): p. 155-8.	No advanced stages (or unclear) or no separate analysis of advanced stages
Goodwin, J.W., et al., Phase III randomized placebo-controlled trial of two doses of megestrol acetate as treatment for menopausal symptoms in women with breast cancer: Southwest Oncology Group Study 9626. <i>Journal of Clinical Oncology</i> , 2008. 26(10): p. 1650-6.	No advanced stages (or unclear) or no separate analysis of advanced stages
Graf, M.C. and P.A. Geller, Treating hot flashes in breast cancer survivors: a review of alternative treatments to hormone replacement therapy. <i>Clinical Journal of Oncology Nursing</i> , 2003. 7(6): p. 637-40.	Narrative review
Grazia, L., et al. Acupuncture as an Integrated intervention for the control of symptoms of climacteric syndrome in patients affected by breast cancer: the AcCliMaT projects. <i>European journal of integrative medicine</i> , 2012. 4, 14-15.	Abstract
Grazia, L., et al. Acupuncture in the management of menopausal symptoms in women diagnosed with breast cancer: an uncontrolled experimental pilot study. <i>European journal of integrative medicine</i> , 2012. 4, 15.	Abstract
Greenlee, H., D.L. Hershman, and J.S. Jacobson, Use of antioxidant supplements during breast cancer treatment: a comprehensive review. <i>Breast Cancer Research & Treatment</i> , 2009. 115(3): p. 437-52.	Medline-review, no quality appraisal
Hadji, P., Menopausal symptoms and adjuvant therapy-associated adverse events. <i>Endocrine-Related Cancer</i> , 2008. 15(1): p. 73-90.	Narrative review
Haest, K., et al., Stellate ganglion block for the management of hot flashes and sleep disturbances in breast cancer survivors: an uncontrolled experimental study with 24 weeks of follow-up. <i>Annals of Oncology</i> , 2012. 23(6): p. 1449-54.	No control group
Hall, E., B.N. Frey, and C.N. Soares, Non-hormonal treatment strategies for vasomotor symptoms: a critical review. <i>Drugs</i> , 2011. 71(3): p. 287-304.	Narrative review
Harding, C., A. Harris, and D. Chadwick, Auricular acupuncture: a novel treatment for vasomotor symptoms associated with luteinizing-hormone releasing hormone agonist treatment for prostate cancer. <i>BJU International</i> , 2009. 103(2): p. 186-90.	No control group
Harris, B.S., et al., Hormonal management of menopausal symptoms in women with a history of gynecologic malignancy. <i>Menopause</i> , 2020. 27(2): p. 243-248.	Medline-review, no quality appraisal
Hayes, L.P., D.G. Carroll, and K.W. Kelley, Use of gabapentin for the management of natural or surgical menopausal hot flashes. <i>Annals of Pharmacotherapy</i> , 2011. 45(3): p. 388-394.	Narrative review
Hayes, L.P., D.G. Carroll, and K.W. Kelley, Use of gabapentin for the management of natural or surgical menopausal hot flashes. <i>Annals of Pharmacotherapy</i> , 2011. 45(3): p. 388-94.	No quality appraisal
Heikkinen, J., R. Vaheri, and U. Timonen, Long-term safety and tolerability of continuous-combined hormone therapy in postmenopausal women: results from a seven-year randomised comparison of low and standard doses. <i>Journal of the British Menopause Society</i> , 2004. 10(3): p. 95-102.	Wrong population
Hershman, D.L., et al., Effect of Acupuncture vs Sham Acupuncture or Waitlist Control on Joint Pain Related to Aromatase Inhibitors Among Women With Early-Stage Breast Cancer: A Randomized Clinical Trial. <i>JAMA</i> , 2018. 320(2): p. 167-176.	Wrong outcomes
Hershman, D.L., et al., Randomized Multicenter Placebo-Controlled Trial of Omega-3 Fatty Acids for the Control of Aromatase Inhibitor-Induced	Wrong outcomes

Reference	Reason for exclusion
Musculoskeletal Pain: SWOG S0927. Journal of Clinical Oncology, 2015. 33(17): p. 1910-7.	
Hervik, J. and O. Mjaland, Acupuncture for the treatment of hot flashes in breast cancer patients, a randomized, controlled trial. Breast Cancer Research & Treatment, 2009. 116(2): p. 311-6.	No advanced stages (or unclear) or no separate analysis of advanced stages
Hervik, J.B. and T. Stub, Adverse effects of non-hormonal pharmacological interventions in breast cancer survivors, suffering from hot flashes: A systematic review and meta-analysis. Breast Cancer Research and Treatment, 2016. 160(2): p. 223-236.	No advanced stages (or unclear) or no separate analysis of advanced stages
Heudel, P.E., et al., Does a homeopathic medicine reduce hot flashes induced by adjuvant endocrine therapy in localized breast cancer patients? A multicenter randomized placebo-controlled phase III trial. Supportive Care in Cancer, 2019. 27(5): p. 1879-1889.	Wrong intervention
Hickey, M., et al., Practical clinical guidelines for assessing and managing menopausal symptoms after breast cancer. Annals of Oncology, 2008. 19(10): p. 1669-80.	Narrative review
Holmberg, L., et al., HABITS (hormonal replacement therapy after breast cancer--is it safe?), a randomised comparison: trial stopped. Lancet, 2004. 363(9407): p. 453-5.	Comment on HABITS trial
Hutton, B., et al., Comparison of physical interventions, behavioral interventions, natural health products, and pharmacologics to manage hot flashes in patients with breast or prostate cancer: protocol for a systematic review incorporating network meta-analyses. Systematic Reviews, 2015. 4: p. 114.	Review protocol
Irani, J., et al., Efficacy of venlafaxine, medroxyprogesterone acetate, and cyproterone acetate for the treatment of vasomotor hot flashes in men taking gonadotropin-releasing hormone analogues for prostate cancer: a double-blind, randomised trial. Lancet Oncology, 2010. 11(2): p. 147-54.	No advanced stages (or unclear) or no separate analysis of advanced stages
Jacobs, J., et al., Homeopathy for menopausal symptoms in breast cancer survivors: A preliminary randomized controlled trial. Journal of Alternative and Complementary Medicine, 2005. 11(1): p. 21-27.	Wrong intervention
Jacobson, J.S., et al., Randomized trial of black cohosh for the treatment of hot flashes among women with a history of breast cancer. Journal of Clinical Oncology, 2001. 19(10): p. 2739-2745.	No advanced stages (or unclear) or no separate analysis of advanced stages
Jeong, Y.J., et al., Acupuncture for the treatment of hot flashes in patients with breast cancer receiving antiestrogen therapy: a pilot study in Korean women. Journal of Alternative & Complementary Medicine, 2013. 19(8): p. 690-6.	No control group
Joffe, H. Randomized study of venlafaxine with versus without zolpidem for hot flashes and associated sleep disorders in women receiving hormonal therapy for treatment or prevention of breast cancer. Physician data query (PDQ), 2004.	No full-text
Joffe, H., et al., Augmentation of venlafaxine and selective serotonin reuptake inhibitors with zolpidem improves sleep and quality of life in breast cancer patients with hot flashes: A randomized, double-blind, placebo-controlled trial. Menopause, 2010. 17(5): p. 908-916.	Wrong intervention
Johns, C., et al., Informing hot flash treatment decisions for breast cancer survivors: a systematic review of randomized trials comparing active interventions. Breast Cancer Research & Treatment, 2016. 156(3): p. 415-426.	No advanced stages (or unclear) or no separate analysis of advanced stages

Reference	Reason for exclusion
Johnson, E.D. and D.G. Carroll, Venlafaxine and desvenlafaxine in the management of menopausal hot flashes. <i>Pharmacy Practice</i> , 2011. 9(3): p. 117-122.	No quality appraisal
Juliato, P.T., et al., Can polyacrylic acid treat sexual dysfunction in women with breast cancer receiving tamoxifen? <i>Climacteric</i> , 2017. 20(1): p. 62-66.	Wrong intervention
Kaari, C., et al., Randomized clinical trial comparing conjugated equine estrogens and isoflavones in postmenopausal women: A pilot study. <i>Maturitas</i> , 2006. 53(1): p. 49-58.	Wrong population
Kaplan, M. and S. Mahon, Hot flash management: update of the evidence for patients with cancer. <i>Clinical Journal of Oncology Nursing</i> , 2014. 18 Suppl: p. 59-67.	Narrative review
Kaplan, M., et al., Putting evidence into practice: evidence-based interventions for hot flashes resulting from cancer therapies. <i>Clinical Journal of Oncology Nursing</i> , 2011. 15(2): p. 149-57.	No advanced stages (or unclear) or no separate analysis of advanced stages
Kassab, S., et al., Homeopathic medicines for adverse effects of cancer treatments. <i>Cochrane Database of Systematic Reviews</i> , 2009(2).	Wrong intervention
Kenemans P, Bundred NJ, Foidart JM, Kubista E, von Schoultz B, Sismondi P, et al. LIBERATE Study Group. Safety and efficacy of tibolone in breast-cancer patients with vasomotor symptoms: a double-blind, randomised, non-inferiority trial. <i>Lancet Oncology</i> 2009;10(2):135-46	No advanced stages (or unclear) or no separate analysis of advanced stages
Kenemans, P., et al., Safety of tibolone in the treatment of vasomotor symptoms in breast cancer patients--design and baseline data 'LIBERATE' trial. <i>Breast</i> , 2007. 16 Suppl 2: p. S182-9.	Baseline data of LIBERATE trial
Kimmick, G.G., et al., Randomized, double-blind, placebo-controlled, crossover study of sertraline (Zoloft) for the treatment of hot flashes in women with early stage breast cancer taking tamoxifen. <i>Breast Journal</i> , 2006. 12(2): p. 114-22.	No advanced stages (or unclear) or no separate analysis of advanced stages
Koch, A., et al. The role of yoga and self-esteem for menopausal symptoms and quality of life in breast cancer survivors-a mediation analysis. <i>BMC complementary and alternative medicine</i> , 2017. 17.	Abstract
Kockler, D.R. and M.W. McCarthy, Antidepressants as a treatment for hot flashes in women. <i>American Journal of Health-System Pharmacy</i> , 2004. 61(3): p. 287-292.	Narrative review
Kroiss, R., et al., The effect of tibolone in postmenopausal women receiving tamoxifen after surgery for breast cancer: a randomised, double-blind, placebo-controlled trial. <i>BJOG: An International Journal of Obstetrics & Gynaecology</i> , 2005. 112(2): p. 228-33.	No advanced stages (or unclear) or no separate analysis of advanced stages
Kubista E, Planellas Gomez JVM, Dowsett M, Foidart JM, Pohlodek K, Serreyn R, et al. Effect of tibolone on breast cancer cell proliferation in postmenopausal ER+ patients: results from STEM trial. <i>Clinical Cancer Research</i> 2007;13(14):4185-90	No endocrine therapy
Kubista, E., et al., Safety of tibolone in the treatment of vasomotor symptoms in breast cancer patients-Design and baseline data 'LIBERATE' trial. <i>Breast</i> , 2007. 16(2 SUPPL.): p. 182-189.	Abstract
Lammerink, E.A., et al., The management of menopausal symptoms in breast cancer survivors: case-based approach. <i>Maturitas</i> , 2012. 73(3): p. 265-8.	Narrative review
Lee, M.S., et al., Acupuncture for treating hot flashes in breast cancer patients: A systematic review. <i>Breast Cancer Research and Treatment</i> , 2009. 115(3): p. 497-503.	No advanced stages (or unclear) or no separate analysis of advanced stages

Reference	Reason for exclusion
Lesi, G., et al., Acupuncture As an Integrative Approach for the Treatment of Hot Flashes in Women With Breast Cancer: A Prospective Multicenter Randomized Controlled Trial (AcCliMaT). <i>Journal of Clinical Oncology</i> , 2016. 34(15): p. 1795-802.	No advanced stages (or unclear) or no separate analysis of advanced stages
L'Esperance, S., et al., Pharmacological and non-hormonal treatment of hot flashes in breast cancer survivors: CEPO review and recommendations. <i>Supportive Care in Cancer</i> , 2013. 21(5): p. 1461-74.	Medline-search only
Lethaby, A., et al. Phytoestrogens for menopausal vasomotor symptoms. <i>Cochrane Database of Systematic Reviews</i> , 2013.	Breast cancer excluded
Li, T., et al., Quantitative comparison of drug efficacy in treating hot flashes in patients with breast cancer. <i>Breast Cancer Research & Treatment</i> , 2019. 173(3): p. 511-520.	No advanced stages (or unclear) or no separate analysis of advanced stages
Li, X.-J., et al. Clinical observation on treatment of androgen deficiency syndrome after endocrine therapy for advanced prostate cancer by "Jianpi Lishi Huayu Method". <i>Chinese traditional and herbal drugs</i> , 2020. 51, 5559-5565.	Chinese
Liljegren, A., et al., Reducing vasomotor symptoms with acupuncture in breast cancer patients treated with adjuvant tamoxifen: a randomized controlled trial. <i>Breast Cancer Research & Treatment</i> , 2012. 135(3): p. 791-8.	No advanced stages (or unclear) or no separate analysis of advanced stages
Lobo, R.A., et al., Should symptomatic menopausal women be offered hormone therapy? <i>MedGenMed Medscape General Medicine</i> , 2006. 8(2).	Consensus conference
Loibl, S., et al., Venlafaxine is superior to clonidine as treatment of hot flashes in breast cancer patients - A double-blind, randomized study. <i>Annals of Oncology</i> , 2007. 18(4): p. 689-693.	No advanced stages (or unclear) or no separate analysis of advanced stages
Loprinzi, C. and D. Barton Phase III randomized study of gabapentin with versus without antidepressants for the management of hot flashes in women with a history of breast cancer or a concern about taking hormonal therapy due to a fear of developing breast cancer. <i>Physician data query (PDQ)</i> , 2004.	No full-text
Loprinzi, C.L., et al., A phase III randomized, double-blind, placebo-controlled trial of gabapentin in the management of hot flashes in men (N00CB). <i>Annals of Oncology</i> , 2009. 20(3): p. 542-549.	No advanced stages (or unclear) or no separate analysis of advanced stages
Loprinzi, C.L., et al., Megestrol acetate for the prevention of hot flashes. <i>New England Journal of Medicine</i> , 1994. 331(6): p. 347-352.	No advanced stages (or unclear) or no separate analysis of advanced stages
Loprinzi, C.L., et al., Phase III comparison of depomedroxyprogesterone acetate to venlafaxine for managing hot flashes: North Central Cancer Treatment Group Trial N99C7. <i>Journal of Clinical Oncology</i> , 2006. 24(9): p. 1409-1414.	No advanced stages (or unclear) or no separate analysis of advanced stages
Loprinzi, C.L., et al., Phase III evaluation of fluoxetine for treatment of hot flashes. <i>Journal of Clinical Oncology</i> , 2002. 20(6): p. 1578-83.	No advanced stages (or unclear) or no separate analysis of advanced stages
Loprinzi, C.L., et al., Transdermal clonidine for ameliorating post-orchietomy hot flashes. <i>Journal of Urology</i> , 1994. 151(3): p. 634-636.	No full-text

Reference	Reason for exclusion
Loprinzi, C.L., et al., Venlafaxine in management of hot flashes in survivors of breast cancer: a randomised controlled trial. <i>Lancet</i> , 2000. 356(9247): p. 2059-63.	No advanced stages (or unclear) or no separate analysis of advanced stages
Mann, E., et al., Cognitive behavioural treatment for women who have menopausal symptoms after breast cancer treatment (MENOS 1): a randomised controlled trial. <i>Lancet Oncology</i> , 2012. 13(3): p. 309-18.	Wrong intervention
Mao, J.J., et al., Electroacupuncture versus gabapentin for hot flashes among breast cancer survivors: A randomized placebo-controlled trial. <i>Journal of Clinical Oncology</i> , 2015. 33(31): p. 3615-3620.	No advanced stages (or unclear) or no separate analysis of advanced stages
Marino, J.L., H.C. McNamara, and M. Hickey, Managing menopausal symptoms after cancer: an evidence-based approach for primary care. <i>Medical Journal of Australia</i> , 2018. 208(3): p. 127-132.	Narrative review
Marjoribanks, J., et al. Long-term hormone therapy for perimenopausal and postmenopausal women. <i>Cochrane Database of Systematic Reviews</i> , 2017.	Not focused on patients with hot flashes due to breast cancer treatment
Marsden, J., et al., British Menopause Society consensus statement on the management of estrogen deficiency symptoms, arthralgia and menopause diagnosis in women treated for early breast cancer. <i>Post reproductive health</i> , 2019. 25(1): p. 21-32.	Consensus statement
Marshall-McKenna, R., et al., A randomised trial of the cool pad pillow topper versus standard care for sleep disturbance and hot flashes in women on endocrine therapy for breast cancer. <i>Supportive Care in Cancer</i> , 2016. 24(4): p. 1821-9.	Wrong intervention
Messina, M. and C. Hughes, Efficacy of soyfoods and soybean isoflavone supplements for alleviating menopausal symptoms is positively related to initial hot flush frequency. <i>Journal of Medicinal Food</i> , 2003. 6(1): p. 1-11.	Narrative review
Milazzo, S., N. Russell, and E. Ernst, Efficacy of homeopathic therapy in cancer treatment. <i>European Journal of Cancer</i> , 2006. 42(3): p. 282-289.	Wrong intervention
Mizunuma, H., Clinical usefulness of a low-dose maintenance therapy with transdermal estradiol gel in Japanese women with estrogen deficiency symptoms. <i>Climacteric</i> , 2011. 14(5): p. 581-589.	Wrong population
Mom, C.H., et al., Hot flashes in breast cancer patients. <i>Critical Reviews in Oncology-Hematology</i> , 2006. 57(1): p. 63-77.	Medline-based review
Morrow, P.K., D.N. Mattair, and G.N. Hortobagyi, Hot flashes: a review of pathophysiology and treatment modalities. <i>Oncologist</i> , 2011. 16(11): p. 1658-64.	Narrative review
Mouridsen, H.T., Incidence and management of side effects associated with aromatase inhibitors in the adjuvant treatment of breast cancer in postmenopausal women. <i>Current Medical Research & Opinion</i> , 2006. 22(8): p. 1609-21.	Medline-based review
Murthy, V. and R.S. Chamberlain, Menopausal symptoms in young survivors of breast cancer: a growing problem without an ideal solution. <i>Cancer Control</i> , 2012. 19(4): p. 317-29.	Medline-based review
Myra, H. Cognitive behaviour therapy for hot flashes and night sweats: primary and secondary analyses of three randomised controlled trials. <i>Climacteric</i> , 2014. 17, 43.	Abstract
Nedstrand, E., et al., Psychological well-being improves in women with breast cancer after treatment with applied relaxation or electro-acupuncture for	No advanced stages (or unclear) or no

Reference	Reason for exclusion
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Nedstrand, E., et al., Vasomotor symptoms decrease in women with breast cancer randomized to treatment with applied relaxation or electro-acupuncture: a preliminary study. <i>Climacteric</i> , 2005. 8(3): p. 243-50.	No advanced stages (or unclear) or no separate analysis of advanced stages
Norris, S., et al. Clinical practice guidelines for the management of menopausal symptoms in women with a history of breast cancer. <i>Asia-Pacific journal of clinical oncology</i> , 2016. 12, 66-.	DRM
Pan, Y., et al., Clinical Benefits of Acupuncture for the Reduction of Hormone Therapy–Related Side Effects in Breast Cancer Patients: A Systematic Review. <i>Integrative Cancer Therapies</i> , 2018. 17(3): p. 602-618.	No advanced stages (or unclear) or no separate analysis of advanced stages
Pandya, K.J., et al., Gabapentin for hot flashes in 420 women with breast cancer: a randomised double-blind placebo-controlled trial. <i>Lancet</i> , 2005. 366(9488): p. 818-24.	No advanced stages (or unclear) or no separate analysis of advanced stages
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Pitkin, J., Alternative and complementary therapies for the menopause. <i>Menopause International</i> , 2012. 18(1): p. 20-7.	Narrative review
Porzio, G., et al., Acupuncture in the treatment of menopause-related symptoms in women taking tamoxifen. <i>Tumori</i> , 2002. 88(2): p. 128-30.	No control group
Pritchard, K.I., H. Khan, and M. Levine, Clinical practice guidelines for the care and treatment of breast cancer: 14. The role of hormone replacement therapy in women with a previous diagnosis of breast cancer. <i>Canadian Medical Association Journal</i> , 2002. 166(8): p. 1017-1022.	No advanced stages (or unclear) or no separate analysis of advanced stages
Pruthi, S., et al., A phase III, randomized, placebo-controlled, double-blind trial of flaxseed for the treatment of hot flashes: North central cancer treatment group N08C7. <i>Menopause</i> , 2012. 19(1): p. 48-53.	Wrong intervention
Qan'ir, Y., et al., Management of Androgen Deprivation Therapy-Associated Hot Flashes in Men With Prostate Cancer. <i>Oncology Nursing Forum</i> , 2019. 46(4): p. E107-E118.	No advanced stages (or unclear) or no separate analysis of advanced stages
Quella, S.K., et al., Evaluation of soy phytoestrogens for the treatment of hot flashes in breast cancer survivors: A North Central Cancer Treatment Group Trial. <i>Journal of Clinical Oncology</i> , 2000. 18(5): p. 1068-74.	Breast cancer survivors
Quella, S.K., et al., Long term use of megestrol acetate by cancer survivors for the treatment of hot flashes. <i>Cancer</i> , 1998. 82(9): p. 1784-8.	Subset of RCT
Rada, G., et al., Non-hormonal interventions for hot flushes in women with a history of breast cancer. <i>Cochrane Database of Systematic Reviews</i> , 2010(9): p. CD004923.	No advanced stages (or unclear) or no

Reference	Reason for exclusion
	separate analysis of advanced stages
Ramaswami, R., et al., Venlafaxine in management of hot flashes in women with breast cancer: a systematic review and meta-analysis. <i>Breast Cancer Research & Treatment</i> , 2015. 152(2): p. 231-7.	No advanced stages (or unclear) or no separate analysis of advanced stages
Rhee, H., et al., Adverse effects of androgen-deprivation therapy in prostate cancer and their management. <i>BJU International</i> , 2015. 115(S5): p. 3-13.	Narrative review
Russell, N., et al., Short-term effects of transdermal estradiol in men undergoing androgen deprivation therapy for prostate cancer: a randomized placebo-controlled trial. <i>European Journal of Endocrinology</i> , 2018. 178(5): p. 565-576.	No advanced stages (or unclear) or no separate analysis of advanced stages
Santen, R.J., et al., Postmenopausal hormone therapy: an Endocrine Society scientific statement. <i>Journal of Clinical Endocrinology & Metabolism</i> , 2010. 95(7 Suppl 1): p. s1-s66.	No advanced stages (or unclear) or no separate analysis of advanced stages
Shan, D., et al., Efficacy and safety of gabapentin and pregabalin in patients with vasomotor symptoms: a systematic review and meta-analysis. <i>American Journal of Obstetrics & Gynecology</i> , 2020. 222(6): p. 564-579.e12.	No advanced stages (or unclear) or no separate analysis of advanced stages
Sharma, P., et al., Lack of an effect of high dose isoflavones in men with prostate cancer undergoing androgen deprivation therapy. <i>Journal of Urology</i> , 2009. 182(5): p. 2265-72.	No advanced stages (or unclear) or no separate analysis of advanced stages
Shi, K., et al., The maintenance effect of acupuncture on the side effects of breast cancer endocrine therapy: A protocol for systematic review and meta analysis. <i>Medicine</i> , 2020. 99(24): p. e20567.	Review protocol
Sicat, B.L. and D.K. Brokaw, Nonhormonal alternatives for the treatment of hot flashes. <i>Pharmacotherapy: The Journal of Human Pharmacology & Drug Therapy</i> , 2004. 24(1): p. 79-93.	Medline-based review
Simpson, B., Hot flash pharmacotherapy in breast cancer survivors: A literature review. <i>Canadian Pharmaceutical Journal</i> , 2004. 137(3): p. 36-45.	No quality appraisal
Sismond, P., et al., Effects of tibolone on climacteric symptoms and quality of life in breast cancer patients - Data from LIBERATE trial. <i>Maturitas</i> , 2011. 70(4): p. 365-372.	No advanced stages (or unclear) or no separate analysis of advanced stages
Smith, J.A., Jr., A prospective comparison of treatments for symptomatic hot flashes following endocrine therapy for carcinoma of the prostate. <i>Journal of Urology</i> , 1994. 152(1): p. 132-4.	No advanced stages (or unclear) or no separate analysis of advanced stages
Speroff, L., The LIBERATE tibolone trial in breast cancer survivors. <i>Maturitas</i> , 2009. 63(1): p. 1-3.	Editorial
Stearns, V., et al., Paroxetine is an effective treatment for hot flashes: Results from a prospective randomized clinical trial. <i>Journal of Clinical Oncology</i> , 2005. 23(28): p. 6919-6930.	No advanced stages (or unclear) or no separate analysis of advanced stages
Stefanopoulou, E., et al., A randomised controlled trial of a brief cognitive behavioural intervention for men who have hot flushes following prostate cancer treatment (MANCAN). <i>Psycho-Oncology</i> , 2015. 24(9): p. 1159-66.	Wrong intervention

Reference	Reason for exclusion
Stovall, D.W., K. Tanner-Kurtz, and J.V. Pinkerton, Tissue-selective estrogen complex bazedoxifene and conjugated estrogens for the treatment of menopausal vasomotor symptoms. <i>Drugs</i> , 2011. 71(13): p. 1649-57.	Narrative review
Stubbs, C., et al., Do SSRIs and SNRIs reduce the frequency and/or severity of hot flashes in menopausal women. <i>Journal - Oklahoma State Medical Association</i> , 2017. 110(5): p. 272-274.	Narrative review
Stuenkel, C.A., et al., Treatment of symptoms of the menopause: An endocrine society clinical practice guideline. 2015. p. 3975-4011.	Not really focus on right population
Sun, H., D. Xue, and F. Gao Effect of shugan liangxue compound for relieving hot flashes in breast cancer patients. <i>Zhongguo zhong xi yi jie he za zhi zhongguo zhongxiyi jiehe zazhi = chinese journal of integrated traditional and western medicine</i> , 2009. 29, 30-33.	Chinese
Swegle, J.M. and M.W. Kelly, Tibolone: a unique version of hormone replacement therapy. <i>Annals of Pharmacotherapy</i> , 2004. 38(5): p. 874-81.	Medline-based review
Szmulewitz, R., et al., A Randomized Phase 1 Study of Testosterone Replacement for Patients with Low-Risk Castration-Resistant Prostate Cancer. <i>European Urology</i> , 2009. 56(1): p. 97-104.	Wrong outcomes
Tella, S.H. and J.C. Gallagher, Efficacy of desvenlafaxine succinate for menopausal hot flashes. <i>Expert Opinion on Pharmacotherapy</i> , 2014. 15(16): p. 2407-18.	Medline-based review
Thacker, H.L., Assessing risks and benefits of nonhormonal treatments for vasomotor symptoms in perimenopausal and postmenopausal women. <i>Journal of Women's Health</i> , 2011. 20(7): p. 1007-1016.	Medline-based review
Thompson, E.A. and D. Reilly, The homeopathic approach to the treatment of symptoms of oestrogen withdrawal in breast cancer patients. A prospective observational study. <i>Homeopathy: the Journal of the Faculty of Homeopathy</i> , 2003. 92(3): p. 131-4.	Wrong design, wrong intervention
Tice, J.A., et al., Phytoestrogen supplements for the treatment of hot flashes: the Isoflavone Clover Extract (ICE) Study: a randomized controlled trial. <i>JAMA</i> , 2003. 290(2): p. 207-14.	No advanced stages (or unclear) or no separate analysis of advanced stages
Toulis, K.A., et al., Gabapentin for the treatment of hot flashes in women with natural or tamoxifen-induced menopause: a systematic review and meta-analysis. <i>Clinical Therapeutics</i> , 2009. 31(2): p. 221-35.	No advanced stages (or unclear) or no separate analysis of advanced stages
Tran, S., et al., Nonpharmacological therapies for the management of menopausal vasomotor symptoms in breast cancer survivors. <i>Supportive Care in Cancer</i> , 2020. 17: p. 17.	No quality appraisal
Utian, W.H., et al., Estrogen and progestogen use in postmenopausal women: July 2008 position statement of The North American Menopause Society. <i>Menopause</i> , 2008. 15(4): p. 584-602.	Medline-based review
Van Patten, C.L., et al., Effect of soy phytoestrogens on hot flashes in postmenopausal women with breast cancer: A randomized, controlled clinical trial. <i>Journal of Clinical Oncology</i> , 2002. 20(6): p. 1449-1455.	No advanced stages (or unclear) or no separate analysis of advanced stages
Vassilopoulou-Sellin, R. and R.L. Theriault, Randomized prospective trial of estrogen-replacement therapy in women with a history of breast cancer. <i>Journal of the National Cancer Institute. Monographs</i> , 1994(16): p. 153-159.	DRM
Vieira, A.F.S., et al., Use of Guarana for hot flashes after breast cancer: Randomized, double-blind, placebo-controlled phase ii trial. <i>Journal of Natural Remedies</i> , 2019. 19(1): p. 1-11.	No advanced stages (or unclear) or no

Reference	Reason for exclusion
	separate analysis of advanced stages
Villaseca, P., Non-estrogen conventional and phytochemical treatments for vasomotor symptoms: what needs to be known for practice. <i>Climacteric</i> , 2012. 15(2): p. 115-24.	No quality appraisal
Vitolins, M.Z., et al., Randomized trial to assess the impact of venlafaxine and soy protein on hot flashes and quality of life in men with prostate cancer. <i>Journal of Clinical Oncology</i> , 2013. 31(32): p. 4092-8.	No advanced stages (or unclear) or no separate analysis of advanced stages
von Schoultz, E. and L.E. Rutqvist, Menopausal hormone therapy after breast cancer: The Stockholm randomized trial. <i>Journal of the National Cancer Institute</i> , 2005. 97(7): p. 533-535.	No advanced stages (or unclear) or no separate analysis of advanced stages
Walker, E.M., et al., Acupuncture versus venlafaxine for the management of vasomotor symptoms in patients with hormone receptor-positive breast cancer: a randomized controlled trial. <i>Journal of Clinical Oncology</i> , 2010. 28(4): p. 634-40.	No advanced stages (or unclear) or no separate analysis of advanced stages
Wang, X.P., et al., Acupuncture for the relief of hot flashes in breast cancer patients: A systematic review and meta-analysis of randomized controlled trials and observational studies. <i>Journal of Cancer Research & Therapeutics</i> , 2018. 14(Supplement): p. S600-S608.	No advanced stages (or unclear) or no separate analysis of advanced stages
Winther, K., E. Rein, and C. Hedman, Femal, a herbal remedy made from pollen extracts, reduces hot flushes and improves quality of life in menopausal women: a randomized, placebo-controlled, parallel study. <i>Climacteric</i> , 2005. 8(2): p. 162-70.	Wrong population
Wu, M.-F., et al. The efficacy of sertraline for controlling menopausal symptoms in women with breast cancer. 2007.	No full-text
Wu, M.F., et al., The efficacy of sertraline for controlling hot flashes in women with or at high risk of developing breast cancer. <i>Breast Cancer Research & Treatment</i> , 2009. 118(2): p. 369-75.	No advanced stages (or unclear) or no separate analysis of advanced stages
Yuanqing, P., et al., Acupuncture for Hormone Therapy–Related Side Effects in Breast Cancer Patients: A GRADE-Assessed Systematic Review and Updated Meta-Analysis. <i>Integrative Cancer Therapies</i> , 2020. 19.	No advanced stages (or unclear) or no separate analysis of advanced stages

Search strings

MEDLINE (OVID): MAIN SEARCH

- 1 sweating/ (6851)
- 2 hyperhidrosis/ (3105)
- 3 hot flashes/ (3280)
- 4 flushing/ (1297)
- 5 climacteric/ (4886)
- 6 (flush* or flash* or sweat* or vasomotor or climacter*).mp. (94590)
- 7 exp Menopause/ (57890)
- 8 menopaus*.mp. (57031)
- 9 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 (165794)
- 10 breast/ or breast diseases/ (49143)
- 11 Neoplasms/ (432386)
- 12 10 and 11 (2020)
- 13 exp Breast Neoplasms/ (298945)
- 14 (breast\$ adj5 neoplas\$).tw. (3452)

15 (breast\$ adj5 cancer\$.tw. (262273)
 16 (breast\$ adj5 carcin\$.tw. (44236)
 17 (breast\$ adj5 tumo\$.tw. (42893)
 18 (breast\$ adj5 metasta\$.tw. (32261)
 19 (breast\$ adj5 malig\$.tw. (12097)
 20 exp Carcinoma, Ductal, Breast/ (15989)
 21 or/12-20 (362557)
 22 exp Prostatic Neoplasms/ (130825)
 23 (prostat\$ adj5 neoplas\$.tw. (3867)
 24 (prostat\$ adj5 cancer\$.tw. (115278)
 25 (prostate adj5 carcin\$.tw. (14390)
 26 (prostate adj5 tumo\$.tw. (14101)
 27 (prostate adj5 metasta\$.tw. (14037)
 28 (prostate adj5 malig\$.tw. (3763)
 29 or/22-28 (153719)
 30 exp Androgen Antagonists/ (16264)
 31 exp Antineoplastic Agents, Hormonal/ (175088)
 32 exp Gonadotropin-Releasing Hormone/ag [Agonists] (3441)
 33 hormonal.mp. (115410)
 34 (androgen adj3 block\$.mp. (1732)
 35 Tamoxifen/ (19247)
 36 exp estrogen antagonists/ or exp estrogen receptor modulators/ (42970)
 37 30 or 31 or 32 or 33 or 34 or 35 or 36 (297168)
 38 21 or 29 (499729)
 39 9 and 37 and 38 (6650)
 40 randomized controlled trial.pt. (521019)
 41 controlled clinical trial.pt. (94013)
 42 randomized.ab. (433676)
 43 placebo.ab. (193233)
 44 clinical trials as topic.sh. (194395)
 45 randomly.ab. (294337)
 46 trial.ti. (198171)
 47 40 or 41 or 42 or 43 or 44 or 45 or 46 (1198949)
 48 exp animals/ not humans.sh. (4779631)
 49 47 not 48 (1092646)
 50 meta-analysis.mp.pt. or review.pt. or search:.tw. (2798026)
 51 49 or 50 (3706495)
 52 39 and 51 (3430)
 53 limit 52 to yr="1990 -Current" (3093)

MEDLINE (OVID): ADDITIONAL SEARCH

1 sweating/ (6874)
 2 hyperhidrosis/ (3112)
 3 hot flashes/ (3296)
 4 flushing/ (1301)
 5 climacteric/ (4888)
 6 (flush* or flash* or sweat* or vasomotor or climacter*).mp. (94877)
 7 exp Menopause/ (58092)
 8 menopaus*.mp. (57246)
 9 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 (166362)
 10 breast/ or breast diseases/ (49283)
 11 Neoplasms/ (434653)
 12 10 and 11 (2021)
 13 exp Breast Neoplasms/ (300430)
 14 (breast\$ adj5 neoplas\$.tw. (3458)
 15 (breast\$ adj5 cancer\$.tw. (263895)
 16 (breast\$ adj5 carcin\$.tw. (44339)
 17 (breast\$ adj5 tumo\$.tw. (43120)

18 (breast\$ adj5 metasta\$.tw. (32478)
 19 (breast\$ adj5 malig\$.tw. (12158)
 20 exp Carcinoma, Ductal, Breast/ (16045)
 21 or/12-20 (364440)
 22 exp Prostatic Neoplasms/ (131440)
 23 (prostat\$ adj5 neoplas\$.tw. (3874)
 24 (prostat\$ adj5 cancer\$.tw. (115942)
 25 (prostate adj5 carcin\$.tw. (14414)
 26 (prostate adj5 tumo\$.tw. (14158)
 27 (prostate adj5 metasta\$.tw. (14137)
 28 (prostate adj5 malig\$.tw. (3782)
 29 or/22-28 (154484)
 30 exp Androgen Antagonists/ (16347)
 31 exp Antineoplastic Agents, Hormonal/ (175505)
 32 exp Gonadotropin-Releasing Hormone/ag [Agonists] (3447)
 33 hormonal.mp. (115805)
 34 (androgen adj3 block\$.mp. (1739)
 35 Tamoxifen/ (19290)
 36 exp estrogen antagonists/ or exp estrogen receptor modulators/ (43083)
 37 30 or 31 or 32 or 33 or 34 or 35 or 36 (298034)
 38 21 or 29 (502290)
 39 9 and 37 and 38 (6671)
 40 randomized controlled trial.pt. (523584)
 41 controlled clinical trial.pt. (94062)
 42 randomized.ab. (436847)
 43 placebo.ab. (194082)
 44 clinical trials as topic.sh. (194851)
 45 randomly.ab. (296148)
 46 trial.ti. (200017)
 47 40 or 41 or 42 or 43 or 44 or 45 or 46 (1205234)
 48 exp animals/ not humans.sh. (4791986)
 49 47 not 48 (1098349)
 50 meta-analysis.mp.pt. or review.pt. or search:.tw. (2813283)
 51 49 or 50 (3726195)
 52 39 and 51 (3442)
 53 limit 52 to yr="1990 -Current" (3105)
 54 venlafaxin*.tw. (3617)
 55 clonidin*.tw. (13969)
 56 thioridazin*.tw. (2074)
 57 gabapentin*.tw. (5686)
 58 exp Acupuncture/ (1735)
 59 exp Cholinergic Antagonists/ (83992)
 60 exp Serotonin Uptake Inhibitors/ (42869)
 61 exp "Serotonin and Noradrenaline Reuptake Inhibitors"/ (4871)
 62 oxybutynin*.tw. (1220)
 63 exp Botulinum Toxins/ (16530)
 64 exp Aluminum Compounds/ (32919)
 65 54 or 55 or 56 or 57 or 58 or 59 or 60 or 61 or 62 or 63 or 64 (200217)
 66 9 and 38 and 51 and 65 (143)
 67 limit 66 to yr="1990 -Current" (143)
 68 67 not 53 (71)

PREMEDLINE (OVID)

1 sweating/ (1)
 2 hyperhidrosis/ (7)
 3 hot flashes/ (2)
 4 flushing/ (0)
 5 climacteric/ (0)

6 (flush* or flash* or sweat* or vasomotor or climacter*).mp. (1097)
7 exp Menopause/ (23)
8 menopaus*.mp. (758)
9 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 (1767)
10 breast/ or breast diseases/ (33)
11 Neoplasms/ (387)
12 10 and 11 (1)
13 exp Breast Neoplasms/ (278)
14 (breast\$ adj5 neoplas\$).tw. (43)
15 (breast\$ adj5 cancer\$).tw. (5271)
16 (breast\$ adj5 carcin\$).tw. (472)
17 (breast\$ adj5 tumo\$).tw. (763)
18 (breast\$ adj5 metasta\$).tw. (634)
19 (breast\$ adj5 malig\$).tw. (207)
20 exp Carcinoma, Ductal, Breast/ (12)
21 or/12-20 (5772)
22 exp Prostatic Neoplasms/ (89)
23 (prostat\$ adj5 neoplas\$).tw. (35)
24 (prostat\$ adj5 cancer\$).tw. (2663)
25 (prostate adj5 carcin\$).tw. (143)
26 (prostate adj5 tumo\$).tw. (299)
27 (prostate adj5 metasta\$).tw. (388)
28 (prostate adj5 malig\$).tw. (64)
29 or/22-28 (2808)
30 exp Androgen Antagonists/ (12)
31 exp Antineoplastic Agents, Hormonal/ (76)
32 exp Gonadotropin-Releasing Hormone/ag [Agonists] (2)
33 hormonal.mp. (1286)
34 (androgen adj3 block\$).mp. (34)
35 Tamoxifen/ (4)
36 exp estrogen antagonists/ or exp estrogen receptor modulators/ (16)
37 30 or 31 or 32 or 33 or 34 or 35 or 36 (1396)
38 21 or 29 (8279)
39 9 and 37 and 38 (19)
40 randomized controlled trial.pt. (409)
41 controlled clinical trial.pt. (15)
42 randomized.ab. (12328)
43 placebo.ab. (3389)
44 clinical trials as topic.sh. (88)
45 randomly.ab. (5882)
46 trial.ti. (5898)
47 40 or 41 or 42 or 43 or 44 or 45 or 46 (20468)
48 exp animals/ not humans.sh. (1903)
49 47 not 48 (20374)
50 meta-analysis.mp,pt. or review.pt. or search:.tw. (58607)
51 49 or 50 (74891)
52 39 and 51 (7)
53 limit 52 to yr="1990 -Current" (7)

EMBASE (VIA EMBASE.COM)

#1 'sweating'/exp (28645)
#2 'hyperhidrosis'/exp (9029)
#3 'hot flush'/exp (16601)
#4 'flushing'/exp (17775)
#5 'climacterium'/exp (9782)
#6 'menopausal syndrome'/exp (9030)
#7 'menopause'/exp (49428)
#8 flush*:ti,ab OR flash*:ti,ab OR sweat*:ti,ab OR vasomotor:ti,ab OR climacter*:ti,ab (121311)

- #9 menopaus*:ti,ab (76069)
- #10 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 (253838)
- #11 'breast'/exp OR 'breast disease'/exp (666934)
- #12 'neoplasm'/exp (5126666)
- #13 #11 AND #12 (601736)
- #14 'breast tumor'/exp (576491)
- #15 (breast* NEAR/5 neoplas*):ti,ab (5150)
- #16 (breast* NEAR/5 cancer*):ti,ab (448661)
- #17 (breast* NEAR/5 carcin*):ti,ab (65245)
- #18 (breast* NEAR/5 tumo*):ti,ab (72940)
- #19 (breast* NEAR/5 metasta*):ti,ab (60336)
- #20 (breast* NEAR/5 malig*):ti,ab (20103)
- #21 'paget nipple disease'/exp (8458)
- #22 #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19 OR #20 OR #21 (662304)
- #23 'prostate cancer'/exp (225649)
- #24 (prostat* NEAR/5 neoplas*):ti,ab (5471)
- #25 (prostat* NEAR/5 cancer*):ti,ab (203798)
- #26 (prostat* NEAR/5 carcin*):ti,ab (27745)
- #27 (prostat* NEAR/5 tumo*):ti,ab (27152)
- #28 (prostat* NEAR/5 metasta*):ti,ab (30389)
- #29 (prostat* NEAR/5 malig*):ti,ab (7889)
- #30 #23 OR #24 OR #25 OR #26 OR #27 OR #28 OR #29 (275311)
- #31 #22 OR #30 (889244)
- #32 'sex hormone antagonist'/exp (182355)
- #33 'antineoplastic hormone agonists and antagonists'/exp (588544)
- #34 'gonadorelin agonist'/exp (16723)
- #35 (androgen NEAR/3 block*):ti,ab (2613)
- #36 'selective estrogen receptor modulator'/exp (7913)
- #37 #32 OR #33 OR #34 OR #35 OR #36 (660620)
- #38 #10 AND #31 AND #37 (11413)
- #39 #10 AND #31 AND #37 AND ([cochrane review]/lim OR [systematic review]/lim OR [meta analysis]/lim OR randomized controlled trial]/lim) AND ([article]/lim OR [article in press]/lim OR [review]/lim) AND ([dutch]/lim OR [english]/lim OR [french]/lim OR [german]/lim) (1392)

COCHRANE LIBRARY (VIA WILEY)

- #1 MeSH descriptor: [Sweating] explode all trees
- #2 MeSH descriptor: [Hyperhidrosis] explode all trees
- #3 MeSH descriptor: [Hot Flashes] explode all trees
- #4 MeSH descriptor: [Flushing] explode all trees
- #5 MeSH descriptor: [Climacteric] explode all trees
- #6 MeSH descriptor: [Menopause] explode all trees
- #7 (flush* or flash* or sweat* or vasomotor or climacter* or menopaus*):ti,ab
- #8 #1 or #2 or #3 or #4 or #5 or #6 or #7
- #9 MeSH descriptor: [Breast] explode all trees
- #10 MeSH descriptor: [Breast Diseases] explode all trees
- #11 MeSH descriptor: [Neoplasms] explode all trees
- #12 #9 OR #10
- #13 #11 AND #12
- #14 MeSH descriptor: [Breast Neoplasms] explode all trees
- #15 MeSH descriptor: [Carcinoma, Ductal, Breast] explode all trees
- #16 MeSH descriptor: [Prostatic Neoplasms] explode all trees
- #17 ((breast* or prostat*) NEAR/5 (neoplas* or cancer* or carcin* or tumo* or metasta* or malig*)):ti,ab
- #18 #13 OR #14 OR #15 OR #16 OR #17
- #19 MeSH descriptor: [Androgen Antagonists] explode all trees
- #20 MeSH descriptor: [Antineoplastic Agents, Hormonal] explode all trees
- #21 MeSH descriptor: [Gonadotropin-Releasing Hormone] explode all trees and with qualifier(s): [agonists - AG]

- #22 MeSH descriptor: [Estrogen Antagonists] explode all trees
- #23 MeSH descriptor: [Estrogen Receptor Modulators] explode all trees
- #24 MeSH descriptor: [Tamoxifen] explode all trees
- #25 hormonal:ti,ab
- #26 (androgen NEAR/3 block*):ti,ab
- #27 #19 OR #20 OR #21 OR #22 OR #23 OR #24 OR #25 OR #26
- #28 #8 AND #18 AND #27

Onderzoeksvraag 2: medicamenteuze behandeling

Wat is het effect van medicamenteuze behandeling op overmatig zweten bij patiënten in de palliatieve fase?

What is the effect of pharmacological treatment on excessive sweating in patients in the palliative phase?

Patients	patients in the palliative phase with excessive sweating
Intervention	pharmacological treatment
Comparator	other pharmacological treatment, placebo, no treatment
Outcome	critical: sweating (NRS, VAS), quality of life

Search strategy

On February 4, 2021 the scientific literature is searched in databases OVID Medline, Embase and Cochrane Library. The search strings are shown in this appendix.

The literature has been selected systematically based on the following predefined criteria:

- design: meta-analyses, systematic reviews, randomized controlled trials, controlled clinical trials, observational comparative studies
- language: English, Dutch, French, German
- publication dates: from inception to search date
- the outcomes are reported

Literature was excluded when no quantitative data was presented, when the study population was not focused on sweating or the palliative phase, or when the interventions did not include the listed pharmacological interventions.

Search results

The selection criteria were applied on the references yielded from the search. 2744 unique hits were screened on title and abstract (Table 3). Of these, 2722 were excluded. Of the remaining 22 papers, the full-text was retrieved. Based on the full-text, all studies were excluded.

Table 3. Overall search results of research question 2.

Database	Number of hits
OVID Medline	1270
OVID PreMedline	17
EMBASE.com	1792
Cochrane Database of Systematic Reviews	29
CENTRAL	491
Total hits	3599
n excluded (language, duplicates)	855
Total unique eligible hits	2744

Excluded studies

Table 4 provides an overview of the excluded studies with reasons.

Table 4. Overview of excluded studies based on full-text evaluation of research question 2.

Reference	Reason for exclusion
Abbas, S.Q., Use of thioridazine in palliative care patients with troublesome sweating. <i>Journal of Pain & Symptom Management</i> , 2004. 27(3): p. 194-5.	Letter; no control group
Brem, S. and N.B. Kumar, Management of treatment-related symptoms in patients with breast cancer. <i>Clinical Journal of Oncology Nursing</i> , 2011. 15(1): p. 63-71.	Narrative review
Casey, C., L.M. Chen, and M.W. Rabow, Symptom management in gynecologic malignancies. <i>Expert Review of Anticancer Therapy</i> , 2011. 11(7): p. 1079-1091.	Narrative review
Catterall, R.A., Problems of sweating and transdermal fentanyl. <i>Palliative Medicine</i> , 1997. 11(2): p. 169-70.	Letter
Chan, C.W.H., et al., The effects of pharmacological and non-pharmacological interventions on symptom management and quality of life among breast cancer survivors undergoing adjuvant endocrine therapy: A systematic review. <i>International Journal of Environmental Research and Public Health</i> , 2020. 17(8).	Wrong populaton; breast cancer survivors
Chiu, S.C., et al., The therapeutic effect of modified Yu Ping Feng San on idiopathic sweating in end-stage cancer patients during hospice care. <i>Phytotherapy Research</i> , 2009. 23(3): p. 363-6.	No control group
Deaner, P., Thalidomide for distressing night sweats in advanced malignant disease. <i>Palliative Medicine</i> , 1998. 12(3): p. 208-9.	Letter; case report
Deaner, P.B., The use of thalidomide in the management of severe sweating in patients with advanced malignancy: trial report. <i>Palliative Medicine</i> , 2000. 14(5): p. 429-31.	No control group
Flaig, T.W. and L.M. Glode, Management of the side effects of androgen deprivation therapy in men with prostate cancer. <i>Expert Opinion on Pharmacotherapy</i> , 2008. 9(16): p. 2829-41.	Narrative review
Freeman, E.W. and K. Sherif, Prevalence of hot flushes and night sweats around the world: a systematic review. <i>Climacteric</i> , 2007. 10(3): p. 197-214.	No info on treatment
Hickey, M., C.M. Saunders, and B.G. Stuckey, Management of menopausal symptoms in patients with breast cancer: an evidence-based approach. <i>Lancet Oncology</i> , 2005. 6(9): p. 687-95.	Narrative review
Kim, T.H. and J.W. Kang, Acupuncture for symptoms management in Korean breast cancer survivors: a prospective pilot study. <i>Acupuncture in medicine : journal of the British Medical Acupuncture Society</i> , 2019. 37(3): p. 164-174.	No control group
Miller, M., Patients with troublesome sweating. <i>Journal of Palliative Care</i> , 1997. 13(3): p. 53-4.	No full-text
Mold, J.W., B.J. Holtzclaw, and L. McCarthy, Night sweats: A systematic review of the literature. <i>Journal of the American Board of Family Medicine</i> , 2012. 25(6): p. 878-893.	No critical appraisal
Newshan, G. and D.W. Sherman, Palliative care: pain and symptom management in persons with HIV/AIDS. <i>The Nursing clinics of North America</i> , 1999. 34(1): p. 131-145.	DRM
Newton, S., Haematology and palliative care: blood, sweat and tears. <i>Internal Medicine Journal</i> , 2003. 33(12): p. 549-51.	Editorial
Peuckmann, V., M. Fisch, and E. Bruera, Potential novel uses of thalidomide: focus on palliative care. <i>Drugs</i> , 2000. 60(2): p. 273-92.	Narrative review; no reference to controlled studies
Sloan, J.A., et al., Methodologic lessons learned from hot flash studies. <i>Journal of Clinical Oncology</i> , 2001. 19(23): p. 4280-90.	No structured search

Reference	Reason for exclusion
Supportive, P.D.Q. and B. Palliative Care Editorial, Hot Flashes and Night Sweats (PDQ R): Health Professional Version. National Cancer Institute, 2002.	Narrative review; no reference to controlled studies
Towler, P., A. Molassiotis, and S.G. Brearley, What is the evidence for the use of acupuncture as an intervention for symptom management in cancer supportive and palliative care: An integrative overview of reviews. Supportive Care in Cancer, 2013. 21(10): p. 2913-2923.	Hot flushes; see other research question
Zaini, S., et al., The use of antidepressants for physical and psychological symptoms in cancer. Current Drug Targets, 2018. 19(12): p. 1431-1455.	Narrative review
Zhukovsky, D.S., Fever and sweats in the patient with advanced cancer. Hematology - Oncology Clinics of North America, 2002. 16(3): p. 579-88, viii.	Narrative review

Search strings

MEDLINE (OVID)

- 1 Palliative Care/ (55452)
- 2 exp Terminal Care/ (52236)
- 3 Terminally Ill/ (6592)
- 4 palliat*.mp. (88508)
- 5 (terminal* adj6 (care or ill* or diseas*)).mp. (41450)
- 6 (terminal-stage* or terminal stage* or dying or (close adj6 death)).mp. (35854)
- 7 (end adj3 life).mp. (22339)
- 8 hospice*.mp. (16028)
- 9 ((end-stage* or end stage*) adj6 (disease* or illness* or care)).mp. (47113)
- 10 (incurable adj6 (disease* or illness*)).mp. (3899)
- 11 (advanced adj6 disease*).mp. (45579)
- 12 or/1-11 (257293)
- 13 sweating/ (6855)
- 14 hyperhidrosis/ (3105)
- 15 hot flashes/ (3283)
- 16 flushing/ (1298)
- 17 climacteric/ (4887)
- 18 (flush* or flash* or sweat* or vasomotor or climacter*).mp. (94654)
- 19 exp Menopause/ (57914)
- 20 menopaus*.mp. (57061)
- 21 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 (165893)
- 22 12 and 21 (1270)

PREMEDLINE (OVID)

- 1 Palliative Care/ (53)
- 2 exp Terminal Care/ (45)
- 3 Terminally Ill/ (5)
- 4 palliat*.mp. (1991)
- 5 (terminal* adj6 (care or ill* or diseas*)).mp. (318)
- 6 (terminal-stage* or terminal stage* or dying or (close adj6 death)).mp. (759)
- 7 (end adj3 life).mp. (1032)
- 8 hospice*.mp. (444)
- 9 ((end-stage* or end stage*) adj6 (disease* or illness* or care)).mp. (1140)
- 10 (incurable adj6 (disease* or illness*)).mp. (113)
- 11 (advanced adj6 disease*).mp. (987)
- 12 or/1-11 (5260)
- 13 sweating/ (4)
- 14 hyperhidrosis/ (0)
- 15 hot flashes/ (3)

- 16 flushing/ (1)
- 17 climacteric/ (1)
- 18 (flush* or flash* or sweat* or vasomotor or climacter*).mp. (1069)
- 19 exp Menopause/ (24)
- 20 menopaus*.mp. (713)
- 21 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 (1710)
- 22 12 and 21 (17)

EMBASE (VIA EMBASE.COM)

- #1 'palliative therapy'/exp (116470)
- #2 'terminal care'/exp (72363)
- #3 'terminally ill patient'/exp (8781)
- #4 palliat*:ti,ab (122736)
- #5 (terminal* NEAR/6 (care OR caring OR ill*)):ti,ab (13227)
- #6 (end NEAR/3 life):ti,ab (36650)
- #7 hospice*:ti,ab (20776)
- #8 'terminal stage*':ti,ab (4442)
- #9 dying:ti,ab (46173)
- #10 (close NEAR/6 death):ti,ab (1374)
- #11 ((incurable OR advanced) NEAR/6 (ill* OR disease*)):ti,ab (94963)
- #12 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 (357800)
- #13 'sweating'/exp
- #14 'hyperhidrosis'/exp
- #15 'hot flush'/exp
- #16 'flushing'/exp
- #17 'climacterium'/exp
- #18 'menopausal syndrome'/exp
- #19 'menopause'/exp
- #20 flush*:ti,ab OR flash*:ti,ab OR sweat*:ti,ab OR vasomotor:ti,ab OR climacter*:ti,ab (121358)
- #21 menopaus*:ti,ab
- #22 #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19 OR #20 OR #21 (253977)
- #23 #12 AND #22 (2862)
- #24 #12 AND #22 AND ([article]/lim OR [article in press]/lim OR [review]/lim) AND ([dutch]/lim OR [english]/lim OR [french]/lim OR [german]/lim) (1792)

COCHRANE LIBRARY (VIA WILEY)

- #1 MeSH descriptor: [D010166] explode all trees
- #2 MeSH descriptor: [Terminal Care] explode all trees
- #3 MeSH descriptor: [Terminally Ill] explode all trees
- #4 pallia*:ti,ab
- #5 (terminal* NEAR/6 (care or caring or ill*)):ti,ab
- #6 (terminal-stage* or terminal stage* or dying or (close NEAR/6 death)):ti,ab
- #7 (end NEAR/3 life):ti,ab
- #8 hospice*:ti,ab
- #9 ((end-stage* or end stage*) NEAR/6 (disease* or ill* or care or caring)):ti,ab
- #10 ((incurable or advanced) NEAR/6 (ill* or disease*))
- #11 #1 or #2 or #3 or #4 or #5 or #6 or #7 or #8 or #9 or #10
- #12 MeSH descriptor: [Sweating] explode all trees
- #13 MeSH descriptor: [D006945] explode all trees
- #14 MeSH descriptor: [Hot Flashes] explode all trees
- #15 MeSH descriptor: [Flushing] explode all trees
- #16 MeSH descriptor: [Climacteric] explode all trees
- #17 MeSH descriptor: [D008593] explode all trees
- #18 (flush* or flash* or sweat* or vasomotor or climacter* or menopaus*):ti,ab
- #19 #12 or #13 or #14 or #15 or #16 or #17 or #18
- #20 #11 AND #19