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Guidelines Breast  
Version 2023.1D

FORSCHEN  
LEHREN  
HEILEN

## Diagnostik und Therapie früher und fortgeschrittener Mammakarzinome

### Gynäkologische Probleme bei Mammakarzinompatientinnen

## Gynäkologische Probleme bei Mammakarzinompatientinnen

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- **Versionen 2015–2022:**  
Albert / Bauerfeind / Blohmer/ Fersis / Gerber / Hanf / Huober/  
Loibl / Maas / Mundhenke /Reimer / Rody / Scharl / Thill /  
Thomssen / Witzel
- **Version 2023:**  
Fehm / Stickeler

### Screened data bases:

Pubmed	2009 –2022
ASCO	2009 - 2022
SABCS	2009 - 2022



## Hormon-(Ersatz-)Therapie (HT) für Östrogenmangelsymptome nach Mammakarzinom-Diagnose und -Therapie

	Oxford		
	LoE	GR	AGO
<b>Systemische Hormon-(Ersatz-)Therapie</b>			
▪ Hormonsensitive Erkrankung (ER pos.)	1a	B	-
▪ Kombinationstherapie: TAM plus niedrig dos. HT	2b	B	+/-
▪ Nicht-hormonsensitive Erkrankung (ER neg.)	1a	B	+/-
▪ Tibolon	1b	A	--
<b>Topische vaginale Applikation</b>			
▪ Östriol (E3 0,03 mg als Kur*)	2b	B	+/-
▪ DHEA lokal	2b	B	-
▪ Testosteron lokal	2b	B	-
▪ Östradiol (E2) während einer AI-Therapie	4	C	-

\* Kur: 4 Wo. tägl. 1 x 1, dann 8 Wo lang 3 x 1 pro Wo. - Anm. Außer zu Beginn kein E3-Übertritt in das Blut; onkologische Endpunkte nicht geprüft. Nicht-hormonelle Alternativen sind zu bevorzugen, siehe Folie „Sexuelle Gesundheit / Vaginale Trockenheit“

### Endocrine responsive disease

1. Paggio F, Del Mastro L, Bruzzone M et al. Safety of systemic hormone replacement therapy in breast cancer survivors: a systematic review and meta-analysis. *Breast Cancer Res Treat.* 2022 191(2):269-72.
1. Fahlén M: Hormone replacement therapy after breast cancer: 10 year follow up of the Stockholm randomised trial. *Eur J Cancer.* 2013 Jan;49(1):52-9.
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3. Lupo M, Dains JE, Madsen LT. Hormone Replacement Therapy: An Increased Risk of Recurrence and Mortality for Breast Cancer Patients? *J Adv Pract Oncol.* 2015 Jul-Aug;6(4):322-30. Epub 2015 Jul
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6. Luo J, Cochrane B B, Wactawski-Wende J. Effects of menopausal hormone therapy on ductal carcinoma in situ of the breast. *Breast Cancer Res Treat.* 2013;137:915–925.

### Endocrine non-responsive disease

1. Wang Y, Lewin N, Qaoud Y et al. The oncologic impact of hormone replacement therapy in premenopausal breast cancer survivors: A systematic review. *Breast*. 2018 Aug;40:123-130. doi: 10.1016/j.breast.2018.05.002. Epub 2018 May 12.

### Endocrine responsive disease: combined treatment TAM plus low-dose-HT

1. Kuhle CL, Kapoor E, Sood R et al.: Menopausal hormone therapy in cancer survivors: A narrative review of the literature. *Maturitas*. 2016 Oct;92:86-96.

### Tibolone

1. Kenemans P, Bundred NJ, Foidart J et al.; LIBERATE Study Group. Safety and efficacy of tibolone in breast-cancer patients with vasomotor symptoms: a double-blind, randomised, non-inferiority trial. *Lancet Oncol*. 2009 Feb;10(2):135-46.
2. Sismondi P., Kimmig R., Kubista E. et al.: Effects of Tibolone on climacteric symptoms and quality of life in breast cancer patients—Data from LIBERATE trial. *Maturitas*. 2011;70:365–372.
3. Bundred NJ: Tibolone increases bone mineral density but also relapse in breast cancer survivors: LIBERATE trial bone substudy. *Breast Cancer Res*. 2012 Jan 17;14(1):R13.

### Ospemifeme

1. Goldstein SR, Bachmann GA, Koninckx P et al.; Ospemifene Study Group. Ospemifene 12-month safety and efficacy in postmenopausal women with vulvar and vaginal atrophy. *Climacteric*. 2014 Apr;17(2):173-82.
2. Cagnacci A, Xholli A, Venier M. Ospemifene in the Management of Vulvar and Vaginal Atrophy: Focus on the Assessment of Patient Acceptability and Ease of Use. *Patient Prefer Adherence*. 2020 Jan 10;14:55-62.

### Topical Vaginal Application:

1. Biglia N, Peano E, Sgandurra P, et al. Low-dose vaginal estrogens or vaginal moisturizer in breast cancer survivors with urogenital atrophy: a preliminary study. *Gynecol Endocrinol* 2010;26(6):404–12
2. Le Ray I., Dell’Aniello S., Bonnetain F. et al.: Local estrogen therapy and risk of breast cancer recurrence among hormone treated patients: A nested case-control study. *Breast Cancer Res. Treat*. 2012;135:603–609.
3. Portman DJ, Gass ML; Vulvovaginal Atrophy Terminology Consensus Conference Panel. Genitourinary syndrome of menopause:

new terminology for vulvovaginal atrophy from the International Society for the Study of Women's Sexual Health and The North American Menopause Society. *Climacteric* 2014 Oct;17(5):557-63

4. Buchholz S, Mögele M, Lintermans A et al.: Vaginal estriol-lactobacilli combination and quality of life in endocrine-treated breast cancer. *Climacteric*. 2015;18(2):252-9.
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6. Mazzarello S1, Hutton B, Ibrahim MF et al.: Management of urogenital atrophy in breast cancer patients: a systematic review of available evidence from randomized trials. *Breast Cancer Res Treat*. 2015 Jul;152(1):1-8.
7. American College of Obstetricians and Gynecologists' Committee on Gynecologic Practice, Farrell R. ACOG Committee Opinion No. 659: The Use of Vaginal Estrogen in Women With a History of Estrogen-Dependent Breast Cancer. *Obstet Gynecol*. 2016 Mar;127(3):e93-6
8. Melisko ME, Goldman ME, Hwang J et al. Vaginal testosterone cream vs estradiol vaginal ring for vaginal dryness or decreased libido in women receiving aromatase inhibitors for early-stage breast cancer: a randomized clinical trial. *JAMA Oncol*. 2017; 3(3):313-319.
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10. Simon JA, Goldstein I, Kim NN et al. The role of androgens in the treatment of genitourinary syndrome of menopause (GSM): International Society for the Study of Women's Sexual Health (ISSWSH) expert consensus panel review. *Menopause*. 2018 Jul;25(7):837-847.
11. Villa P, Tagliaferri V, Amar ID et al. Local ultra-low-dose estriol gel treatment of vulvo-vaginal atrophy: efficacy and safety of long-term treatment. *Gynecol Endocrinol*. 2020 Jun;36(6):535-539.
12. The North American Menopause Society (NAMS). The 2020 genitourinary syndrome of menopause position statement of The North American Menopause Society. *Menopause*. 2020 Sep;27(9):976-992.
13. Jain AL, Jamy O, Mullins J et al. Usefulness of patient-reported outcomes to assess the effectiveness of topical hormonal therapy for gynecologic symptoms after antihormonal treatment for breast cancer. *Proc (Bayl Univ Med Cent)*. 2020 Apr 7;33(3):331-335.
14. Hirschberg AL, Sánchez-Rovira P, Presa-Lorite J et al. Efficacy and safety of ultra-low dose 0.005% estriol vaginal gel for the treatment of vulvovaginal atrophy in postmenopausal women with early breast cancer treated with nonsteroidal aromatase inhibitors: a phase II, randomized, double-blind, placebo-controlled trial. *Menopause*. 2020 May;27(5):526-534.



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## Weitere Methoden zur Erleichterung postmenopausaler Symptome nach Mamma-Ca

### Medikamentöse Ansätze\* (Reduktion von Hitzewallungen):

#### Selektive Serotonin-Reuptake-Inhibitoren und Serotonin-(Noradrenalin) Reuptake-Inhibitoren (SSRI-SNRI):

- Venlafaxin
- Desvenlafaxin, Sertralin, Citalopram
- Gabapentin (MaCa-Pat. unter Tamoxifen-Therapie)
- Oxybutynin (2,5 mg / 5 mg)
- Pregabalin
- Clonidin 0,05-0,15 mg/die (MaCa-Pat. unter Tamoxifen-Therapie)
- MPA (i.m. 500 mg single shot, wirksam, aber endokrin aktiv)
- Omega-3 Fettsäuren
- Vitamin E

#### Medikamentöse Ansätze (andere Therapieziele):

- Melatonin (verbesserte Schlafqualität)
- Duloxetine (zur Therapie von Arthralgien nur unter AI-Therapie)

\* Beachte: Substanzieller Placebo-Effekt nachgewiesen (23-57 %) LoE 1b A +

### Oxford

LoE GR AGO

LoE	GR	AGO
1a	A	+
1b	A	+/-
1a	A	+
1b	A	+/-
1b	A	+/-
2a	B	+/-
1b	A	+/-
1b	A	+/-
1b	A	-
2b	C	+
1b	B	+

1. Chubak J, Bowles EJ, Yu O, Buist DS et al.: Breast cancer recurrence in relation to antidepressant use. Cancer Causes Control. 2016 Jan;27(1):125-36.
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3. L'Espérance S: Pharmacological and non-hormonal treatment of hot flashes in breast cancer survivors: CEPO review and recommendations. Support Care Cancer. 2013 May;21(5):1461-74
4. Kelly CM, Juurlink DN, Gomes T et al. Selective serotonin reuptake inhibitors and breast cancer mortality in women receiving tamoxifen: a population based cohort study. BMJ. 2010;340:c693.
5. Bordeleau L: Multicenter, randomized, cross-over clinical trial of venlafaxine versus gabapentin for the management of hot flashes in breast cancer survivors. J Clin Oncol. 2010 Dec 10;28(35):5147-52.
6. Wiśniewska I, Jochymek B, Lenart-Lipińska M et al.: The pharmacological and hormonal therapy of hot flashes in breast cancer survivors. Breast Cancer. 2016 Mar;23(2):178-82.
7. Antoine C, Ameye L, Paesmans M et al.: Treatment of climacteric symptoms in breast cancer patients: a retrospective study from a medication databank. Maturitas. 2014 Jul;78(3):228-32.
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9. Leon-Ferre RA, Majithia N, Loprinzi CL. Management of hot flashes in women with breast cancer receiving ovarian function suppression. *Cancer Treat Rev*. 2017 Jan;52:82-90.

### SSRI

1. Shams T1, Firwana B, Habib F et al.: SSRIs for hot flashes: a systematic review and meta-analysis of randomized trials. *J Gen Intern Med*. 2014 Jan;29(1):204-13.

### Venlafaxine

1. Ramaswami R, Villarreal MD, Pitta DM et al.: Venlafaxine in management of hot flashes in women with breast cancer: a systematic review and meta-analysis. *Breast Cancer Res Treat*. 2015 Jul;152(2):231-7.
2. Boekhout AH, Vincent AD, Dalesio OB et al: Management of hot flashes in patients who have breast cancer with venlafaxine and clonidine: a randomized, double-blind, placebo-controlled trial. *J Clin Oncol*. 2011 Oct 10;29(29):3862-8.
3. Bordeleau L, Pritchard KI, Loprinzi CL et al: Multicenter, randomized, cross-over clinical trial of venlafaxine versus gabapentin for the management of hot flashes in breast cancer survivors. *J Clin Oncol*. 2010 Dec 10;28(35):5147-52.

### Desvenlafaxine

1. Archer DF, Dupont CM, Constantine GD et al.: Desvenlafaxine for the treatment of vasomotor symptoms associated with menopause: a double-blind, randomized, placebo-controlled trial of efficacy and safety. *Am J Obstet Gynecol*. 2009;200(3):238 e231–238 e210.
2. Speroff L, Gass M, Constantine G et al.: Efficacy and tolerability of desvenlafaxine succinate treatment for menopausal vasomotor symptoms: a randomized controlled trial. *Obstet Gynecol*. 2008;111(1):77–87.
3. Deecher DC, Alf inito PD, Leventhal L et al.: Alleviation of thermoregulatory dysfunction with the new serotonin and norepinephrine reuptake inhibitor desvenlafaxine succinate in ovariectomized rodent models. *Endocrinology*. 2007;148(3):1376–1383.

### Paroxetine

1. Simon JA, Portman DJ, Kaunitz AM et al.: Low-dose paroxetine 7.5 mg for menopausal vasomotor symptoms: two randomized controlled trials. *Menopause*. 2013 Oct;20(10):1027-35. doi: 10.1097/GME.0b013e3182a66aa7.

### Fluoxetine

1. Loprinzi CL, Sloan J, Stearns V et al.: Newer antidepressants and gabapentin for hot flashes: an individual patient pooled analysis. *J Clin Oncol.* 2009;27(17):2831–2837.

#### Citalopram

1. Barton DL, LaVasseur B, Sloan JA et al.: A phase III trial evaluating three doses of citalopram for hot flashes: NCCTG trial N05C9. *J Clin Oncol.* 2008;26(20):9538.
2. Kalay AE, Demir B, Haberal A et al.: Efficacy of citalopram on climacteric symptoms. *Menopause.* 2007;14(2):223–229.

#### Gabapentin

1. Bordeleau L, Pritchard KI, Loprinzi CL et al: Multicenter, randomized, cross-over clinical trial of venlafaxine versus gabapentin for the management of hot flashes in breast cancer survivors. *J Clin Oncol.* 2010 Dec 10;28(35):5147-52
2. Shan D, Zou L, Liu X, et al. Efficacy and safety of gabapentin and pregabalin in patients with vasomotor symptoms: a systematic review and meta-analysis. *Am J Obstet Gynecol.* 2020 Jun;222(6):564-579.e12.

#### Pregabalin

1. Loprinzi CL, Qin R, Baclueva EP et al.: Phase III, randomized, double-blind, placebo-controlled evaluation of pregabalin for alleviating hot flashes, N07C1. *J Clin Oncol.* 2010;28(4):641–647.

#### Clonidin

1. Drewe J, Bucher KA, Zahner CA.: systematic review of non-hormonal treatments of vasomotor symptoms in climacteric and cancer patients. *Springerplus.* 2015 Feb 10;4:65. doi: 10.1186/s40064-015-0808-y. eCollection 2015.
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3. Friedman GD, Udaltsova N, Habel LA: Norepinephrine antagonists and cancer risk. *Int J Cancer* 2011. 128(3):737–738, doi:10.1002/ijc.25351 (Clonidin)
4. Burbos N, Morris EP. Menopausal symptoms. *BMJ Clin Evid.* 2011 Jun 15;2011:0804.

#### Oxybutynin

1. Leon-Ferre RA, Novotny PJ, Wolfe EG et al. Oxybutynin vs Placebo for Hot Flashes in Women With or Without Breast Cancer: A Randomized, Double-Blind Clinical Trial (ACCRU SC-1603). JNCI Cancer Spectr. 2019 Oct 21;4(1):pkz088.
2. Simon JA, Gaines T, LaGuardia KD; Extended-Release Oxybutynin Therapy for VMS Study Group. Extended-release oxybutynin therapy for vasomotor symptoms in women: a randomized clinical trial. Menopause. 2016 Nov;23(11):1214-1221.

#### (D) MPA (depo-) (Medroxyprogesterone acetate)

1. Prior JC, Nielsen JD, Hitchcock CL et al.: Medroxyprogesterone and conjugated oestrogen are equivalent for hot flushes: a 1-year randomized double-blind trial following premenopausal ovariectomy. Clin Sci (Lond). 2007;112(10):517–525.
2. Loprinzi CL, Levitt R, Barton D et al.: Phase III comparison of depomedroxyprogesterone acetate to venlafaxine for managing hot flashes: North Central Cancer Treatment Group Trial N99C7. J Clin Oncol. 2006 Mar 20;24(9):1409-14. Epub 2006 Feb 27.
3. Ertz-Archambault NM, Rogoff LB, Kosiorek HE et al.: Depomedroxyprogesterone acetate therapy for hot flashes in survivors of breast cancer: no unfavorable impact on recurrence and survival. Support Care Cancer. 2019 Aug 11. doi: 10.1007/s00520-019-05013-7. [Epub ahead of print]

#### Vitamine E

1. Rada G: Non-hormonal interventions for hot flushes in women with a history of breast cancer (Review). The Cochrane Library 2010, Issue 9.
2. Greenlee H, Hershman DL, Jacobson JS: Use of antioxidant supplements during breast cancer treatment: a comprehensive review. Breast Cancer Res Treat. 2009 Jun;115(3):437-52.
3. Biglia N, Sgandurra P, Peano E et al.: Non-hormonal treatment of hot flushes in breast cancer survivors: gabapentin vs. vitamin E. Climacteric. 2009 Aug;12(4):310-8.

#### Omega 3-Fettsäuren

1. Lustberg M´B, Orchard TS, Reinbolt R et al. Randomized placebo-controlled pilot trial of omega 3 fatty acids for prevention of aromatase inhibitor-induced musculoskeletal pain. Breast Cancer Res Treat. 2018 Feb;167(3) 709-718. doi: 10.1007/s10549-017-4559-z. Epub 2017 Nov 3.

#### Melatonin

1. Chen WY, Giobbie-Hurder A, Gantman K et al.: A randomized, placebo-controlled trial of melatonin on breast cancer survivors: impact on sleep, mood, and hot flashes. *Breast Cancer Res Treat* 2014. 145(2):381–388, doi:10.1007/s10549-014-2944-4

#### Duloxetine

1. Henry NL, Unger JM, Schott AF et al. Randomized, Multicenter, Placebo-Controlled Clinical Trial of Duloxetine Versus Placebo for Aromatase Inhibitor-Associated Arthralgias in Early-Stage Breast Cancer: SWOG S1202. *J Clin Oncol*. 2018 Feb 1;36(4):326-332. doi: 10.1200/JCO.2017.74.6651. Epub 2017 Nov 14.



## CAM\*-Therapie Postmenopausale Symptome II

\* Complementary and Alternative Medicine

	Oxford		
	LoE	GR	AGO
<b>Bei laufender onkologischer Standardtherapie: CAVE: Medikamenten-Interaktionen!</b>			
▪ <b>Soja – Isoflavonoide*</b>			
Hitzewallungen	1b	B	-
Schlafstörungen	1b	B	+/-
Topische vaginale Applikation	1b	B	+/-
▪ <b>Rotklee – Isoflavonoide*</b>			
Hitzewallungen und Schlafstörungen	1b	B	+/-
▪ <b>Leinsamen (40 g/d)</b> (bei HR+ ≤ 10g/d (1Essl.)) (mögl. Reduktion des Rezidivrisikos, keine Reduktion v. Hitzewallungen)	2b	B	+/-
▪ <b>Traubensilberkerze gegen Hitzewallungen</b>	1b	B	+/-
Traubensilberkerze und Johanniskraut als fixe Kombi	1b	B	+/-
▪ <b>Johanniskraut-Produkte</b> (Cave: Pharmakokinetische Interferenz mit endokriner Therapie, Zytostatika und Tyrosinkinase-Inhibitoren)	1b	B	+/-
▪ <b>Ginseng Wurzel</b> (Panax ginseng or P. quinquefolius)	1b	B	-
▪ <b>Bromelain + Papain + Selen + Lektin (AI-induzierte Gelenksbeschwerden)</b>	3b	B	+
▪ <b>Homöopathische Mittel zur Reduktion Hitzewallungen</b> (Placebo-Effekt bedenken)	1b	B	+/-

\* Aktivierung von MaCa-Zellen bei HR-positiver Erkrankung nicht ausgeschlossen

1. Roberts H. Safety of herbal medicinal products in women with breast cancer. *Maturitas*. 2010;66(4):363-9.
2. Ma H: Estrogenic botanical supplements, health-related quality of life, fatigue, and hormone-related symptoms in breast cancer survivors: a HEAL study report. *BMC Complement Altern Med*. 2011;11:109.
3. Kim W, Lee WB, Lee JW et al.: Traditional herbal medicine as adjunctive therapy for breast cancer: A systematic review. *Complement Ther Med*. 2015 Aug;23(4):626-32. doi: 10.1016/j.ctim.2015.03.011.
4. Lethaby A, Marjoribanks J, Kronenberg F et al.: Phytoestrogens for menopausal vasomotor symptoms. *Cochrane Database Syst Rev*. 2013 Dec 10;(12):CD001395. doi: 10.1002/14651858.CD001395.pub4.

### Soy- derived isoflavonoids

### Red clover-derived isoflavonoids

1. Chen MN: Efficacy of phytoestrogens for menopausal symptoms: a meta-analysis and systematic review. *Climacteric*. 2015 Apr;18(2):260-9.
2. Lethaby A: Phytoestrogens for menopausal vasomotor symptoms. *Cochrane Database Syst Rev*. 2013 Dec 10;12:CD001395.
3. Fritz H, Seely D, Flower G et al.: red clover, and isoflavones and breast cancer: a systematic review. *PLoS One*. 2013 Nov 28;8(11):e81968.
4. Ghazanfarpour M, Sadeghi R, Latifnejad Roudsari R et al.: Effects of red clover on hot flash and circulating hormone concentrations

- in menopausal women: a systematic review and meta-analysis. *Avicenna J Phytomed*. 2015 Nov-Dec;5(6):498-511.
5. Shakeri F: Effectiveness of red clover in alleviating of menopausal symptoms: A 12-week randomized, controlled trial. *Climacteric*. 2015;18(4):568-73.
  6. Ghazanfarpour M, Latifnejad Roudsari R, Treglia G et al.: Topical administration of isoflavones for treatment of vaginal symptoms in postmenopausal women: A systematic review of randomised controlled trials. *J Obstet Gynaecol*. 2015 Nov;35(8):783-7.
  7. Ghazanfarpour M, Sadeghi R, Roudsari RL. The application of soy isoflavones for subjective symptoms and objective signs of vaginal atrophy in menopause: A systematic review of randomised controlled trials. *J Obstet Gynaecol*. 2016;36(2):160-71.
  8. Ribeiro AE, Monteiro NES, Moraes AVG et al. Can the use of probiotics in association with isoflavone improve the symptoms of genitourinary syndrome of menopause? Results from a randomized controlled trial. *Menopause*. 2018 Dec 10. doi: 10.1097/GME.0000000000001279. [Epub ahead of print]

#### Flaxseed

1. Flower G: Flax and Breast Cancer: A Systematic Review. *Integr Cancer Ther*. 2013 8;13(3):181-192.
2. Pruthi S: A phase III, randomized, placebo-controlled, double-blind trial of flaxseed for the treatment of hot flashes: North Central Cancer Treatment Group N08C7. *Menopause* 2012; 19:48-53.

#### Black cohosh (Cimicifuga racemosa) nor St John's Wort nor Ginseng root

1. Leach MJ: Black cohosh (Cimicifuga spp.) for menopausal symptoms. *Cochrane Database Syst Rev*. 2012; 9:CD007244.
2. Caraci F: Metabolic drug interactions between antidepressants and anticancer drugs: focus on selective serotonin reuptake inhibitors and hypericum extract. *Curr Drug Metab*. 2011 Jul 1;12(6):570-7.
3. Kim MS: Ginseng for managing menopause symptoms: a systematic review of randomized clinical trials. *J Ginseng Res*. 2013 Mar;37(1):30-6.
4. Mehrpooya M1, Rabiee S2, Larki-Harchegani A3, Fallahian AM1, Moradi A4, Ataei S1, Javad MT5. A comparative study on the effect of "black cohosh" and "evening primrose oil" on menopausal hot flashes. *J Educ Health Promot*. 2018 Mar 1;7:36. doi: 10.4103/jehp.jehp\_81\_17. eCollection 2018.
5. Wobser RW, Takov V. Black Cohosh. 2020 Dec 5. In: *StatPearls* [Internet]. Treasure Island (FL): StatPearls Publishing; 2020 Jan-. PMID: 29261886.

#### Sodium selenite, proteolytic plant enzymes (bromelaine and papain), and Lens culinaris lectin

1. Beuth J, van Leendert R, Schneider B et al.: Complementary medicine on side-effects of adjuvant hormone therapy in patients with breast cancer. *In Vivo*. 2013 Nov-Dec;27(6):869-71.

#### Homeopathic medicine

1. Heudel PE, Van Praagh-Doreau I, Duvert B et al.: Does a homeopathic medicine reduce hot flushes induced by adjuvant endocrine therapy in localized breast cancer patients? A multicenter randomized placebo-controlled phase III trial. *Support Care Cancer*. 2019 May;27(5):1879-1889. doi: 10.1007/s00520-018-4449-x. Epub 2018 Sep 7.



## Postmenopausale Symptome III Integrativ-onkologische Therapien

Allgemeine Ansätze:	Oxford		
	LoE	GR	AGO
▪ Körperliches Training / Sport	1a	A	++
▪ Kognitive Verhaltenstherapie, Hypnose	1a	A	++
▪ Mind Body-Medizin (Yoga, Schulung, Beratung, Achtsamkeitstraining)	1b	B	+
▪ Kurzzeitige Pause der endokrinen Therapie bei inakzeptablen Nebenwirkungen statt Abbruch* (Elektro-) Akupunktur	5	D	+
▪ Aromatase-Inhibitor induzierte Arthralgie	1a	B	+
▪ Hitzewallungen	2a	B	+
▪ Angst, Depressionen	2b	B	+
▪ Schlafstörungen	2a	C	+

\* Analog der SOLE-Studie

1. Duncan M, Moschopoulou E, Herrington E et al.: Review of systematic reviews of non-pharmacological interventions to improve quality of life in cancer survivors. *BMJ Open*. 2017 Nov 28;7(11):e015860.
2. Tran S, Hickey M, Saunders C et al. Nonpharmacological therapies for the management of menopausal vasomotor symptoms in breast cancer survivors. *Support Care Cancer*. 2020 Sep 17. doi: 10.1007/s00520-020-05754-w. Epub ahead of print. PMID: 32940768.
3. S3-Leitlinie: Peri- and Postmenopause. Diagnosis and Interventions. Guideline of the DGGG, SGGG and OEGGG (S3 Level, AWMF Registry No.015-062, January 2020). <http://www.awmf.org/leitlinien/detail/II/015-062.html>

### Physical exercise

1. Duijts SF: Efficacy of cognitive behavioral therapy and physical exercise in alleviating treatment-induced menopausal symptoms in patients with breast cancer: results of a randomized, controlled, multicenter trial. *J Clin Oncol*. 2012 Nov 20;30(33):4124-33.
2. Hartman SJ, Nelson SH, Myers E et al.: Randomized controlled trial of increasing physical activity on objectively measured and self-reported cognitive functioning among breast cancer survivors: The memory & motion study. *Cancer*. 2018 Jan 1;124(1):192-202. doi: 10.1002/cncr.30987. Epub 2017 Sep 19.
3. Lahart IM, Metsios GS, Nevill AM et al.: Physical activity for women with breast cancer after adjuvant therapy. *Cochrane Database*

Syst Rev 2018, 1:Cd011292.

### Mind Body Medicine

1. Buffart LM: Physical and psychosocial benefits of yoga in cancer patients and survivors, a systematic review and meta-analysis of randomized controlled trials. *BMC Cancer*. 2012 Nov 27;12:559.
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### Cognitive behavioral therapy, Hypnosis

1. Desautels C, Savard J, Ivers H et al.: Treatment of Depressive Symptoms in Patients with Breast Cancer: A Randomized Controlled Trial Comparing Cognitive Therapy and Bright Light Therapy. *Health Psychol*. 2017 Nov 27. doi: 10.1037/hea0000539. [Epub ahead of print]
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1. Befus D, Coeytaux RR, Goldstein KM et al. Management of Menopause Symptoms with Acupuncture: An Umbrella Systematic Review and Meta-Analysis. *J Altern Complement Med*. 2018 Apr;24(4):314-323. doi: 10.1089/acm.2016.0408. Epub 2018 Jan 3.
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32940768.



## Ovarschutz mit GnRH und Fertilitätserhaltung bei prämenopausalen Patientinnen mit (neo-)adjuvanter Chemotherapie (CT)

	Oxford		
	LoE	GR	AGO
<ul style="list-style-type: none"> <li>CTx + GnRHa (zur Prophylaxe des ovariellen Funktionsausfalls) (GnRHa Applikation &gt; 2 Wochen vor Chemotherapie, unabhängig vom Hormonrezeptorstatus)</li> </ul>	1a	A	+
<ul style="list-style-type: none"> <li>CTx + GnRHa (zur Erhöhung der Schwangerschaftsrate)</li> </ul>	2a	B	+/-
<ul style="list-style-type: none"> <li>Angebot zur Beratung über Fertilitätserhalt inkl. assistierter Reproduktion (ART) (Information: <a href="https://fertiprotekt.com">https://fertiprotekt.com</a>; S2k-Leitlinie Fertilitätserhalt bei onkologischen Erkrankungen )</li> </ul>			++

### Ovarian function protection

1. Del Mastro L, Ceppi M, Poggio F et al.: Gonadotropin-releasing hormone analogues for the prevention of chemotherapy-induced premature ovarian failure in cancer women: systematic review and meta-analysis of randomized trials. *Cancer Treat Rev.* 2014 Jun;40(5):675-83.
2. Munholz RR, et al: Gonadotropin-Releaseing hormone agonists for ovarian function preservation in premenopausal women undergoing chemotherapy for early stage breast cancer- A systematic Review and Meta Analysis. *JAMA Oncol* 2016;2:65-73
3. Lambertini M, Boni L, Michelotti A et al.: Ovarian Suppression With Triptorelin During Adjuvant Breast Cancer Chemotherapy and Long-term Ovarian Function, Pregnancies, and Disease-Free Survival: A Randomized Clinical Trial. *JAMA.* 2015 Dec 22-29;314(24):2632-40. doi: 10.1001/jama.2015.17291.
4. Lambertini M, Moore HCF, Leonard RCF et al.: Gonadotropin-Releasing Hormone Agonists During Chemotherapy for Preservation of Ovarian Function and Fertility in Premenopausal Patients With Early Breast Cancer: A Systematic Review and Meta-Analysis of Individual Patient-Level Data. *J Clin Oncol* 2018, 36:1981-90
5. Lambertini M, Boni L, Michelotti A et al.; GIM study group. Long-Term Outcomes With Pharmacological Ovarian Suppression During Chemotherapy in Premenopausal Early Breast Cancer Patients. *J Natl Cancer Inst.* 2022;114(3):400-408.
6. Zong X, Yu Y, Yang H, Chen W et al. Effects of Gonadotropin-Releasing Hormone Analogs on Ovarian Function Against Chemotherapy-Induced Gonadotoxic Effects in Premenopausal Women With Breast Cancer in China: A Randomized Clinical Trial.

JAMA Oncol. 2022;8(2):252-258

7. Zong X, Yu Y, Chen W, Zong W, Yang H, Chen X. Ovarian reserve in premenopausal women with breast cancer. *Breast*. 2022;64:143-150
8. Li ZY, Dong YL, Cao XZ, Ren SS, Zhang Z. Gonadotropin-releasing hormone agonists for ovarian protection during breast cancer chemotherapy: a systematic review and meta-analysis. *Menopause*. 2022;29(9):1093-1100

#### Pregnancy rates

1. Lambertini M, Ceppi M, Poggio F et al.: Ovarian suppression using luteinizing hormone-releasing hormone agonists during chemotherapy to preserve ovarian function and fertility of breast cancer patients: a meta-analysis of randomized studies. *Ann Oncol* 2015; 26(12):2408-19.
2. Moore HCF, Unger JM, Phillips K-A et al. Goserelin for ovarian protection during breast-cancer adjuvant chemotherapy. *N Engl J Med*. 2015;372(10):923–32.
3. Lambertini M, Boni L, Michelotti A et al. Ovarian suppression with triptorelin during adjuvant breast cancer chemotherapy and long-term ovarian function, pregnancies, and disease-free survival. A randomized clinical trial. *JAMA*. 2015;314(24):2632-40.
4. Lambertini M, Boni L, Michelotti A et al.; GIM study group. Long-Term Outcomes With Pharmacological Ovarian Suppression During Chemotherapy in Premenopausal Early Breast Cancer Patients. *J Natl Cancer Inst*. 2022;114(3):400-408.

#### Fertility preservation counselling

1. Loren AW, Mangu PB, Beck LN et al. Fertility Preservation for Patients With Cancer: American Society of Clinical Oncology Clinical Practice Guideline Update. *J Clin Oncol*. 2013;31(19):2500–10.
2. Peccatori FA, Azim Jr HA, Orecchia R et al. Cancer, pregnancy and fertility: ESMO Clinical Practice Guidelines for diagnosis, treatment and follow-up. *Ann Oncol*. 2013;24 Suppl 6:vi160–70.
3. Abe A, Kuwahara A, Iwasa T et al.: A survey on fertility management in young women of reproductive age treated with chemotherapy. *Int J Clin Oncol*. 2016 Dec;21(6):1183-1190.
4. Marklund A, et al. Reproductive Outcomes After Breast Cancer in Women With vs Without Fertility Preservation. *JAMA Oncol*. 2021 Jan 1;7(1):86-91.
5. [https://register.awmf.org/assets/guidelines/015-082l\\_S2k\\_Fertilitaetserhaltung-bei-onkologischen-Therapien\\_2017-12-verlaengert.pdf](https://register.awmf.org/assets/guidelines/015-082l_S2k_Fertilitaetserhaltung-bei-onkologischen-Therapien_2017-12-verlaengert.pdf)



## Fertilitätsprotektion und assistierte Reproduktion - Onkologische Sicherheit<sup>1</sup>-

	Oxford		
	LoE	GR	AGO
<ul style="list-style-type: none"> <li>▪ <b>Methoden des Fertilitätserhalt vor Therapie</b></li> </ul>			
GnRH-Analagon	1a	A	++
Kryokonservierung Ovargewebe mit anschliessender Transplantation <sup>2</sup>	4	D	+
Kryokonservierung Oozyten (unbefruchtet / befruchtet) nach ovarieller Stimulation	2a	C	+
<ul style="list-style-type: none"> <li>▪ <b>ART nach (neo-)adjuvanter Systemtherapie</b></li> </ul>	4	C	+

<sup>1</sup> Evidenzlage z.T. eingeschränkt auf Grund der Studienlage (keine prospektiv randomisierten Studien möglich)  
<sup>2</sup> Risiko durch Tumorzellverschleppung bei Transplantation des Gewebes; bei Mutationsträgerinnen komplette Explantation des Transplantats nach Schwangerschaft notwendig

### GnRH-Analagon:

1. Lambertini M, Moore HCF, Leonard RCF, et al. Gonadotropin-Releasing Hormone Agonists During Chemotherapy for Preservation of Ovarian Function and Fertility in Premenopausal Patients With Early Breast Cancer: A Systematic Review and Meta-Analysis of Individual Patient-Level Data. J Clin Oncol. 2018;36(19):1981-1990.
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### Cryopreservation of ovarian tissue:

1. Bastings L, Beerendonk CC, Westphal JR, et al. Autotransplantation of cryopreserved ovarian tissue in cancer survivors and the risk of reintroducing malignancy: a systematic review. Hum Reprod Update. 2013;19(5):483-506. doi: 10.1093/humupd/dmt020. Epub 2013 Jun 30. PMID: 23817363.
2. Rosendahl M, Greve T, Andersen CY. The safety of transplanting cryopreserved ovarian tissue in cancer patients: a review of the

literature. J Assist Reprod Genet. 2013;30(1):11-24. doi: 10.1007/s10815-012-9912-x. Epub 2012 Dec 22. PMID: 23263841; PMCID: PMC3553351.

**Cryoconservation of oocytes after ovarian stimulation:**

1. Luke B, Brown MB, Missmer SA et al.: Assisted reproductive technology use and outcomes among women with a history of cancer. Hum Reprod. 2016 ;31(1):183-9.
2. Oktay K, Turan V, Bedoschi G et al.: Fertility Preservation Success Subsequent to Concurrent Aromatase Inhibitor Treatment and Ovarian Stimulation in Women With Breast Cancer. J Clin Oncol. 2015;33(22):2424–9.
3. Arecco L, Blondeaux E, Bruzzone M, et al.. Safety of fertility preservation techniques before and after anticancer treatments in young women with breast cancer: a systematic review and meta-analysis. Hum Reprod. 2022; 37(5):954-968. doi: 10.1093/humrep/deac035. PMID: 35220429; PMCID: PMC9071231.
4. Rodgers RJ, Reid GD, Koch J, Deans R, et al. The safety and efficacy of controlled ovarian hyperstimulation for fertility preservation in women with early breast cancer: a systematic review. Hum Reprod. 2017;32(5):1033-1045. doi: 10.1093/humrep/dex027. PMID: 28333356.
5. Beebejaun Y, Athithan A, Copeland TP, et al. Risk of breast cancer in women treated with ovarian stimulation drugs for infertility: a systematic review and meta-analysis. Fertil Steril. 2021; 116(1):198-207. doi: 10.1016/j.fertnstert.2021.01.044. PMID: 34148584.

**ART after treatment:**

1. Arecco L, Blondeaux E, Bruzzone M, et al.. Safety of fertility preservation techniques before and after anticancer treatments in young women with breast cancer: a systematic review and meta-analysis. Hum Reprod. 2022; 37(5):954-968. doi: 10.1093/humrep/deac035. PMID: 35220429; PMCID: PMC9071231.



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## Oncological Safety of controlled ovarian stimulation (COS) or assisted reproductive therapy (ART)

N=15 studies including 4643 patients undergoing COS or ART (assisted reproductive therapy)

### **COS before starting treatment (n=11 studies):**

Reduced risk of recurrence RR 0.58, 95% CI 0,46-0,73

Reduced risk of mortality RR 0.54, 95% CI 0,38-0,76

No detrimental effect on EFS 0,76, 95% CI 0,55-1,06

- Subgroup of HR positive pts. HR 0.36, 95% CI 0.20–0.65

### **ART after treatment (n=4 studies):**

Reduced risk of recurrence (RR 0.34, 95% CI 0.17-0.70)

No detrimental effect EFS (HR 0.43, 95% CI 0.17-1.11).

**Conclusion: COS at diagnosis or ART following breast cancer treatment completion does not appear to be associated with any detrimental prognostic effect in young women**

*Arecco et al. Human Reprod 2022*

Arecco L, Blondeaux E, Bruzzone M, et al.. Safety of fertility preservation techniques before and after anticancer treatments in young women with breast cancer: a systematic review and meta-analysis. Hum Reprod. 2022 ;37(5):954-968. doi: 10.1093/humrep/deac035. PMID: 35220429; PMCID: PMC9071231.

	ZORO	PROMISE	Munster et al. - US	POEMS	Option
<b>Patient number</b>	60 (60 HR-)	281 (50 HR-)	49 (13 HR-) of 124	218 (218 HR-)	227 (126 HR-)
<b>Age median</b>	38 years	39 years	39 years	Premenop. < 50 years	premenopausal
<b>Treatment</b>	goserelin	triptorelin	triptorelin	goserelin	goserelin
<b>Start of treatment</b>	> 2 weeks prior to cht	> 1 week prior to cht	> 1 week prior to cht	> 1 week prior to cht	> 1 week prior to cht
<b>Primary Endpoint</b>	menstruation at month 6 after chemotherapy	rate of early menopause at month 12 after cht	menstruation rate within 2 years after cht	Ovarian failure at 2 yrs after cht	Amenorrhea with elevated FSH levels between 12 and 24 months
<b>Primary objective</b>	to detect 30% absolute increase of menstruation rate	to detect at least 20% absolute reduction in early menopause	to detect 20% difference in amenorrhea rate – from 10% to 30%		To detect 20%-25% absolute reduction in early menopause
<b>Multivar. analysis</b>	age as only independent predictive factor	treatment as only independent predictive factor	n.d.	Treatment as only independent predictive factor	Age, total cyclophosphamide dose and baseline AMH
<b>Resumption of menses at month 12</b>	83% with LHRH vs. 80% w/o	93% with LHRHa vs. 74% w/o	74% with LHRH vs. 68% w/o	78% with LHRH vs. 75% w/o; at 2 years; 22% with LHRH vs. 8%	78% with LHRHa vs. 62% amnorrhea rate between month 12 and 24
<b>Median time to restoration of menses (months)</b>	6.1 with LHRHa vs. 6.8 w/o; p = 0.30	not reached with LHRH vs. 6.7 w/o; p = 0.07	5.8 with LHRH vs. 5.0 w/o; p = 0.58	n.d.	n.d.
<b>Cyclophosph. dose</b>	4600 vs. 4700 mg	4080 vs. 4008 mg	n.r.	n.a.	5940 vs. 5940 mg


  
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1. Munhoz RR, Pereira AA, Sasse AD et al.: Gonadotropin-Releasing Hormone Agonists for Ovarian Function Preservation in Premenopausal Women Undergoing Chemotherapy for Early-Stage Breast Cancer: A Systematic Review and Meta-analysis. JAMA Oncol. 2016 Jan 1;2(1):65-73.
2. Gerber B, von Minckwitz G, Stehle H et al.: Effect of luteinizing hormone-releasing hormone agonist on ovarian function after modern adjuvant breast cancer chemotherapy: the GBG 37 ZORO study. J Clin Oncol. 2011 Jun 10;29(17):2334-41.
3. Del Mastro L, Boni L, Michelotti A et al. Effect of the gonadotropin-releasing hormone analogue triptorelin on the occurrence of chemotherapy-induced early menopause in premenopausal women with breast cancer: a randomized trial. JAMA. 2011 Jul 20;306(3):269-76.
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## Einschätzung der ovariellen Reserve

	Oxford		
	LoE	GR	AGO
<b>Tests zur Beurteilung der ovariellen Reserve</b>			
▪ Anti-Müller Hormon	1b	B	+
▪ Antrale Follikelzählung	3b	B	+
▪ FSH	2b <sup>a</sup>	B	+
▪ Kombinierte Testverfahren zur Einschätzung der ovariellen Reserve*	5	C	+

\* Tests werden vorgeschlagen für Frauen > 35 J und Kinderwunsch für 6-12 Monate; die Tests sagen nicht den Misserfolg einer Konzeption voraus, aber helfen über das potenziell verkürzte Zeitfenster für eine erfolgreiche Konzeption und über die Möglichkeiten einer Infertilitätsbehandlungen aufzuklären.

### **AMH:**

1. Anderson RA, Mansi J, Coleman RE et al.: The utility of anti-Müllerian hormone in the diagnosis and prediction of loss of ovarian function following chemotherapy for early breast cancer. Eur J Cancer. 2017;87:58-64
2. Fréour T, Barrière P, Masson D. Anti-müllerian hormone levels and evolution in women of reproductive age with breast cancer treated with chemotherapy. Eur J Cancer. 2017 Mar;74:1-8. doi: 10.1016/j.ejca.2016.12.008. Epub 2017 Jan 28.
3. Trapp E, Steidl J, Rack B et al.: Anti-Müllerian hormone (AMH) levels in premenopausal breast cancer patients treated with taxane-based adjuvant chemotherapy - A translational research project of the SUCCESS A study. Breast. 2017 Oct;35:130-135. doi: 10.1016/j.breast.2017.07.007. Epub 2017 Jul 18.
4. Morarji K, McArdele O, Hui K et al.: Ovarian function after chemotherapy in young breast cancer survivors. Curr Oncol. 2017 Dec;24(6):e494-e502. doi: 10.3747/co.24.3335. Epub 2017 Dec 20.
5. Zong X, Yu Y, Chen W, Zong W, Yang H, Chen X. Ovarian reserve in premenopausal women with breast cancer. Breast. 2022:143-150. doi: 10.1016/j.breast.2022.05.009.

### **Antrale Follicle Count:**

1. Sinha N, Letourneau JM, Wald K et al: Antral follicle count recovery in women with menses after treatment with and without

- gonadotropin-releasing hormone agonist use during chemotherapy for breast cancer. *J Assist Reprod Genet* 2018, 35:1861-8.
2. Su HI, Chung K, Sammel MD et al.: Antral follicle count provides additive information to hormone measures for determining ovarian function in breast cancer survivors. *Fertil Steril*. 2011 Apr;95(5):1857-9.

### **FSH**

1. Furlanetto J, Thode C, Huober J. et al. Changes in hormone levels (E2, FSH, AMH) and fertility of young women treated with neoadjuvant chemotherapy (CT) for early breast cancer (EBC). *SABCS 2017*, # 754, PD 7-09
2. Furlanetto J, Marmé F, Seiler S, et al. Chemotherapy-induced ovarian failure in young women with early breast cancer: Prospective analysis of four randomised neoadjuvant/adjuvant breast cancer trials. *Eur J Cancer*. 2021;152:193-203. doi: 10.1016/j.ejca.2021.04.038.

### **Combined tests:**

1. Practice Committee of the American Society for Reproductive Medicine. Electronic address: [asrm@asrm.org](mailto:asrm@asrm.org); Practice Committee of the American Society for Reproductive Medicine. Testing and interpreting measures of ovarian reserve: a committee opinion. *Fertil Steril*. 2020;114(6):1151-1157



## Kontrazeptive Möglichkeiten für Brustkrebspatientinnen

	Oxford		
	LoE	GR	AGO
▪ <b>Barriere-Methoden</b>	5	D	+
▪ <b>Sterilisation (Tubenligatur / Salpingektomie / Vasektomie)</b>	5	D	+
▪ <b>Nicht-hormonelle intrauterine Devices (IUDs)</b>	3b	D	+
▪ <b>Levonorgestrel-freisetzende IUDs</b>	2b	C	-
▪ Entfernung bei Erstdiagnose	4	D	+/-
▪ <b>Timing-Methoden</b>	5	D	-
▪ <b>Reine Progesteron-Kontrazeptiva (oral / i.m.)</b>	5	D	-
▪ <b>Kombinierte orale Kontrazeptiva</b>	5	D	-
▪ <b>Optionen für Notfall-Kontrazeption</b>			
▪ Kupfer armierte Intrauterin-Devices (Cu-IUD)	5	D	+
▪ Levonorgestrel, Ulipristalacetat oral	5	D	+

### Contraception (general)

1. Moormann PG, Havrilesky LJ, Giersch JM et al. Oral contraceptives and risk of ovarian cancer and breast cancer among high-risk women: a systematic review and meta-analysis. *J Clin Oncol.* 2013 Nov 20;31(33):4188-98.
2. Lambertini M, Massarotti C, Havas et al. Contraceptive Use in Premenopausal Women With Early Breast Cancer. *JAMA Netw Open.* 2022;5(9)

### LNG-IUDs

1. Dominick S et al: Levonogestrel intrauterine system for endometrial protection in women with breast cancer on adjuvant tamoxifen. *Cochrane Database syst Rev* 2015; Dec 9; 12: CD007245.
2. Soini T, Hurskainen R, Grénman S et al.: Levonorgestrel-releasing intrauterine system and the risk of breast cancer: A nationwide cohort study. *Acta Oncol.* 2016 Feb;55(2):188-92.
3. Yun Fu Zhigang Zhuang: Long-term effects of levonorgestrel-releasing intrauterine system on tamoxifen-treated breast cancer patients: a meta-analysis *Int J Clin Exp Pathol* 2014; 7 (10) 6419-6429
4. Fu Y, Zhuang Z. Long-term effects of levonorgestrel-releasing intrauterine system on tamoxifen-treated breast cancer patients: a meta-analysis. *Int J Clin Exp Pathol.* 2014 Sep 15;7(10):6419-29. eCollection 2014. Review.

**Emergency Contraception - Options after Diagnosis of Breast Cancer**

1. Casay PM et al: Caring for breast cancer survivor's health and well being WJCO 2014;10: 5 (4): 693-704



## Sexuelle Gesundheit / Vaginale Trockenheit

Evaluation	Oxford		
	LoE	GR	AGO
▪ Einschätzung des sexuellen Beschwerdebildes	5	D	+
▪ Nutzung von Patientinnenfragebögen	4	C	+
<b>Behandlung der Dyspareunie und der vaginalen Trockenheit</b>			
▪ Psychoedukative Unterstützung, Gruppentherapie, Sexualberatung, Eheberatung, Psychotherapie	1b	B	+
▪ Vaginale / topische Behandlung			
▪ Nicht-hormonelle Vaginalgele (auch kombiniert mit Physioth.)	1b	B	+
▪ Östriol (E3 0,03 mg als Kur*)	2b	B	+/-
▪ DHEA lokal	2b	B	-
▪ Testosteron lokal	2b	B	-
▪ Östradiol (E2) während einer AI-Therapie	4	C	-
▪ Fraktionierter mikroablativer CO <sub>2</sub> -Laser / vag. Erbium:YAG-Laser	2a	B	+/-

\* Kur: 4 Wo. tägl. 1 x 1, dann 8 Wo lang 3 x 1 pro Wo.  
Anm. Außer zu Beginn kein E3-Übertritt in das Blut; onkologische Endpunkte nicht geprüft. Nicht-hormonelle Alternativen sind zu bevorzugen.

### Reviews:

1. The North American Menopause Society (NAMS). The 2020 genitourinary syndrome of menopause position statement of The North American Menopause Society. Menopause. 2020 Sep;27(9):976-992.
2. Runowicz CD, Leach CR, Henry NL et al.: American Cancer Society/American Society of Clinical Oncology Breast Cancer Survivorship Care Guideline. J Clin Oncol. 2015 Dec 7. pii: JCO.2015.64.3809

### Evaluation

#### Sexual Complaints Screener For Women:

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## Einschätzung der sexuellen Gesundheit<sup>1</sup>

- Kurze Checkliste Sexueller Symptome für Frauen (BSSC-W)<sup>2</sup>
- Screening-Fragebogen zur Sexualefunktion insgesamt

1. Sind Sie zufrieden mit Ihrem Sexualleben? *Ja – Nein*

*Wenn nein, dann beantworten Sie bitte die nächsten Fragen:*

2. Seit wann/wie lange sind Sie mit Ihrem Sexualleben unzufrieden? .....

3a. Ihr Problem im Sexualleben ist: *(eins oder mehrere markieren)*

1. Problem mit weniger oder gar kein Interesse bzw. Lust	0
2. Problem mit reduzierter Empfindlichkeit / Sensibilität im Genitalbereich (Gefühl)	0
3. Problem mit verringerter vaginaler Lubrikation (Trockenheit der Scheide)	0
4. Problem, einen Orgasmus zu erreichen	0
5. Probleme mit Schmerzen beim Geschlechtsverkehr	0
6. Andere Probleme oder Sorgen	.....

3b. Welche Probleme stören Sie am meisten? *Bitte ankreuzen:* 1 – 2 – 3 – 4 – 5 – 6

4. Wollen Sie über diese Probleme mit Ihrem Arzt/Ihrer Ärztin reden? *Ja – Nein*

- Sexual Complaints Screener For Women (SCS-W)<sup>3,4</sup>
- FSFI-19, FSFI-6<sup>5,6</sup>

### General recommendations

1. Hatzichristou D, Rosen RC, Denogatis LR et al.: Recommendations for the clinical evaluation of men and women with sexual dysfunction. J Sex Med 2010;7:337-348

### Brief Sexual Symptom Checklist (BSSC-W)

2. Bijlsma-Rutte A, Braamse AMJ, van Oppen P et al. Screening for sexual dissatisfaction among people with type 2 diabetes in primary care. J Diabetes Complications. 2017 Nov;31(11):1614-1619.

### Sexual Complaints Screener For Women (SCS-W) (Langversion und Kurzversion):

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Female Sexual Function Index (FSFI-19, FSFI-6):

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