

> Guidelines Breast Version 2024.1E

## Diagnosis and Treatment of Patients with early and advanced Breast Cancer

### **Complementary Therapy Survivorship**

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### Complementary Therapy – Hormonal Treatment and Alternatives in Breast Cancer Survivors – Survivorship

#### Versions 2002–2023:

Albert / Bauerfeind / Blohmer / Dall/ Fersis / Friedrich / Gerber / Göhring / Hanf / Heil / Janni / Kümmel / Lück / von Minckwitz / Nitz / Oberhoff / Rhiem / Scharl / Schmidt / Schütz / Solomayer / Thomssen

Version 2024:

Kümmel / Thomssen

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#### CAM

"Integrative Oncology"

#### **CAM**

**Complementary + alternative medicine** 

**Complementary** 

In addition to scientifically based medicine

**Alternative** 

Instead of scientifically based medicine

"Unconventional methods"

**UCT** 

**Unconventional Tx** 

**Unconventional** 

Unproven outsider methods

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#### **Good Clinical Practice**

All patients should be consulted as early as possible and in the course of the process repeatedly on the interest in information complementary medical measures and, if interested, reliable sources of information should be referred.

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S3 LL "Komplementärmedizin in der Behandlung von onkologischen PatientInnen"



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#### **General Considerations**

	Oxford			
	LoE	GR	AGO	
<ul> <li>CAM instead of loco-regional interventions</li> </ul>	<b>2</b> b	В		
<ul> <li>CAM instead of systemic treatment</li> </ul>	<b>2</b> b	В		

- Diagnostic procedures in connection with complementary and alternative therapy concepts without evidence (e.g. iris diagnostics, bioresonance) should not be recommended.
- During anti-cancer treatment: Beware of drug interactions

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in der DKG e.V.

### **Complementary Therapy Pre- and Postoperative**

**Oxford** 

2b

+/-

	LoE	GR	AGC
Preoperative:			
<ul><li>Hypnosis (reduces anxiety, pain, nausea)</li></ul>	1b	В	+
Postoperative:			
<ul><li>Acupuncture (pain relief, anxiety)</li></ul>	1b	В	+
<ul><li>Acupuncture (nausea, vomiting)</li></ul>	2b	В	+
<ul><li>Massage therapy (pain relief)</li></ul>	2b	C	+/-
<ul> <li>Early postoperative exercise reduces upper-limb dysfunction (beware: increased wound drainage)</li> </ul>	<b>1</b> a	Α	+
<ul><li>Physical exercise</li></ul>			
<ul> <li>to reduce breast cancer related secondary lymphedema</li> </ul>	<b>1</b> a	A	+
<ul> <li>as a prophylaxis of lymphedema</li> </ul>	1b	В	+/-
Prophylactic lymphatic drainage	1b	В	
Yoga (arm and shoulder pain)	2b	С	+

Music therapy (reduces pain after mastectomy)

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### Complementary Treatment While on Cancer Treatment – Impact on Toxicity I

**Oxford** 

G e.V. e.V.	Dι	uring anti-cancer treatment: Beware of drug interactions	LoE	GR	AGO
Breast	•	Mistletoe (Viscum album) in order to reduce side effects	<b>1</b> a	В	+/-
4.1E	-	Thymic peptides lower risk of severe infections	<b>1</b> a	В	+/-
	•	<b>Ginseng</b> reduces fatigue; note: interacts with cytochrome P enzymes e.g. CYP 3A4	2b	В	-
	•	<b>Ganoderma Lucidum</b> reduces fatigue, note: inhibits cytochrome P enzymes (e.g. CYP 3A4)	<b>1</b> a	В	-
	•	<ul><li>L-Carnitine</li><li>peripheral neuropathy</li><li>treatment of fatigue</li></ul>	1b 1b	B B	 -
	•	Melatonin (reduces fatigue, improve sleep, depressive symptoms, cognition)	<b>2</b> a	В	+/-
ne.de	•	Curcumin adjunct to reduce radiation-induced dermatitis	<b>1</b> b	В	+/-
IEN	•	<b>Ginger</b> adjunct to guideline-oriented medication to treat chemotherapy induced nausea & vomiting – beware of drug interactions	1b	С	+/-



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## Complementary Treatment While on Cancer Treatment – Impact on Toxicity II

Oxford

	LoE	GR	AGO
Antioxidant supplements	1b	В	-
<ul> <li>various antioxidative extracts (to reduce anthracyclin-induced cardiotoxicity)</li> </ul>	<b>1</b> b	В	-
High dose vitamin C	<b>1b</b>	C	-
Vitamine E	2b	В	-
Selenium (for alleviating therapy side effects)	<b>1b</b>	В	-
Co-Enzyme Q 10 (fatique, QoL)	<b>1b</b>	В	-
Proteolytic enzymes (for reduction of chemotherapy-induced toxicity)	<b>2</b> b	В	-
Chinese herbal medicine improves wound healing *	1b	В	
Oxygen and ozone therapy	3	С	
Short-term fasting (under 3 week chemotherapy cycle - Qol, Fatigue)	2b	В	+/-**

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Application of substances or combinations not tested in Germany

<sup>\*\*</sup> Treatment in clinical trials recommended



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## **Additional Complementary Therapy**

of Side Effects Related to Cancer Treatments **Oxford** GR LoE **AGO** Cannabis-based drugs (against pain, emesis/nausea) 1b +/-Α

**Chinese medicinal herbs** (to treat the side effects

Homoeopathic medicine (against therapy-related side effects /

**Massage** (to improve on fatigue, pain, anxiety, nausea)

works cannot be verified by the Commission Mamma

**Topical Silymarin** (to prevent acute dermatitis during radiotherapy)

Transcutaneous Electrical Nerve stimulation (TENS) (against cancer

\* Cave! Overviews or meta-analyses with purely Chinese-language original

of chemotherapy and endocrine therapy)

**Hydrotherapy** (for supportive skin care)

placebo effect)

pain)

B

**1**b

**1**b

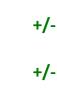
2b

**1b** 

**1**a

2b





В

В

+/-

+/-

+/-

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### Additional Complementary Therapy of Side Effects Related to Cancer Treatments

Oxford

Acupuncture** in order to improve	LoE	GR	AGO
Chemotherapy-induced nausea and vomiting			
<ul> <li>(Electro/Ear)-Acupuncture as adjunct to entiemetic treatment</li> </ul>	1b	В	+
<ul> <li>(Ear-)Acupressure as adjunct to entiemetic treatment</li> </ul>	1b	В	+
■ Pain			
<ul><li>Cancer pain</li></ul>	1b	В	+
<ul> <li>Aromatase-inhibitor – induced athralgia</li> </ul>	<b>1</b> a	В	+
■ Fatigue	<b>1</b> a	В	+
<ul><li>Acupressure</li></ul>	<b>1</b> b	В	+
<ul><li>Cognitive Dysfunction</li></ul>	2b	С	+/-
<ul> <li>Sleep Problems</li> </ul>	2b	С	+/-
<ul> <li>Menopause syndrome (under treatment)</li> </ul>	1b	В	+ *
<ul><li>to improve on frequency and severity of hot flashes</li></ul>	<b>1</b> b	В	+/-
Leucopenia (Moxibustion)	<b>2</b> b	В	-
<ul> <li>Treatment of chemotherapy induced polyneuropathy</li> </ul>			
<ul><li>prophylactically</li></ul>	1b	В	-
<ul><li>therapeutically</li></ul>	2b	В	+/-
Chronic lymph edema after breast cancer treatment	2b	В	+/-

<sup>\*</sup> data only post treatment

<sup>\*\*</sup> Cave! Overviews or meta-analyses with purely Chinese-language original works cannot be verified by the Mamma Commission



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# **Complementary Treatment Mind-Body Medicine I**

<b>MBSR</b>	(Mindfulne	ess-Based S	Stress	Reduction	ı١

Program improves quality of life, coping strategies, attentiveness, and lowers stress, anxiety (incl. fear of recurrence), depression, fatigue, and sleep disturbances

#### Physical exercise / sport

min. 3x/week moderate endurance training in combination with workout exercises (2x per week) improve quality of life, cardio-respiratory fitness, physical performance, sleep, pain, depression, lymphedema, fatigue, cognition, weight-control

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LoE GR AGO

1a A ++



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# **Complementary Treatment Mind-Body Medicine II**

Ovford

	UXTO	ra	
	LoE	GR	AGO
Relaxation techniques	2b	С	+/-
Reduction of anxiety, depressivity and nausea, improvement of quality of life, sleep, reduction of psychological stress			
Yoga			
Improves quality of life, sleep, anxiety, depression, CIPN, lymphedema and especially fatigue	1b	Α	+
<b>Qi Gong</b> May improve quality of life, fatigue, and mood	<b>2</b> a	В	+/-
Tai Chi	<b>2</b> a	В	+/-
Improves quality of life, muscular strength, sleep			
Hypnosis Improves fatigue and muscle weakness under radiotherapy; also reduces distress	1b	Α	+

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#### CAM

### **Prevention of Recurrence / Improvement of Overall Survival I**

**Modifiable Lifestyle Factors** 

	Oxf	ord	
	LoE	GR	AGO
<ul><li>Physical exercise</li></ul>	<b>2</b> a	Α	++
(equivalent to 3–5 hrs moderate walking per week) improves DFS and OS, cardio-respiratory fitness, physical functioning			
<ul><li>Reduce smoking</li></ul>	2b	A	+
<ul><li>Reduce alcohol consumption (&lt; 6 g/day)</li></ul>	2b	A	+

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### **Modifiable Lifestyle Factors**

**Nutrition after Breast Cancer Diagnosis** Prevention of Recurrence / Improvement of Overall Survival II

	Oxf	ord	
	LoE	GR	AGO
<ul> <li>Adherence to normal BMI / weight loss if overweight, irrespective of HR-status</li> </ul>	1a	Α	++
<ul> <li>Low fat diet dietary counseling recommended</li> </ul>	<b>1</b> a	В	+
<ul><li>Increased fiber intake (e.g. Flaxseed)</li></ul>	<b>2</b> a	В	+
<ul> <li>Adherence to general nutrition guidelines         (e.g. DGE, WCRF) similar to a Mediterranean Diet     </li> </ul>	<b>2</b> a	В	++
<ul><li>Nightly Fasting</li></ul>	<b>2</b> b	C	+/-
<ul><li>Dietary extremes</li></ul>	<b>2</b> a	В	



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### **Complementary Treatment**

Prevention of Recurrence / Improvement of Overall Survival III.1
Dietary Supplements – Herbal Therapies

	During anti-cancer treatment: Beware of drug interactions	Oxf	ord	
V.		LoE	GR	AGO
st E	Post treatment vitamine / antioxidant supplements does not appear to be associated with increased risk of recurrence (beware of drug / treatment interactions)	2b	В	
	Smokers on antioxidant supplements are at higher risk for lung cancer	<b>1</b> b	Α	
	For Prevention of BC Recurrence:			
	<ul><li>Antioxidants</li></ul>	<b>2</b> a	В	+/-
	<ul> <li>Vitamine supplementation in patients on a balanced diet (esp. Vitamine C, E)</li> </ul>	<b>2</b> a	В	+/-
	<ul><li>Vitamine D (after Vit D level)</li></ul>	2b	В	+/-
	<ul> <li>Soy-food (natural source of phytoestrogenes)</li> </ul>	<b>2</b> a	В	+/-
	<ul> <li>food or concentrates containing ≥ 100 mg) isoflavones per day</li> </ul>	<b>2</b> a	В	-
	Black Cohosh (Cimicifuga racemosa)	3b	С	+/-
de	<ul> <li>Antioxidant supplements (after completion of radiotherapy)</li> </ul>	2b	В	+/-
7	<ul><li>Green tea</li></ul>	<b>3</b> a	C	+/-
	<ul><li>Selenium</li></ul>	2b	В	+/-

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### **Complementary Treatment**

Prevention of Recurrence / Improvement of Overall Survival III.2

Dietary Supplements – Herbal Therapies

	Ох	ford	
Ouring anti-cancer treatment: Beware of drug interactions	LoE	GR	AGO
Trace elements and minerals	2b	В	-
Artificial carotenoids	<b>2</b> b	В	-
Proteolytic enzymes (Papain, Trypsin, Chymotrypsin)	3b	В	-
Mistletoe (Viscum album)	<b>1</b> b	С	-
Thymic peptides (impact on OS)	<b>2</b> a	В	-
Oxygen- and ozone therapy	5	D	
Laetrile (Amygdalin, "Vitamine B17")	<b>1c</b>	D	
Methadone	5	D	
TCM-Herbs *	<b>2</b> b	C	
Cancer bush (Sutherlandia frutescens), Devil's claw (Harpagophytum procumbens), Rooibos tea (Aspalathus linearis), Bambara groundnut (Vignea subterranean)	4	С	-
Incense	5	D	-
Curcuma, curcumine	2b	С	-

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