Diagnosis and Treatment of Patients with early and advanced Breast Cancer

Guidelines Breast
Version 2020.1

Osteooncology and Bone Health

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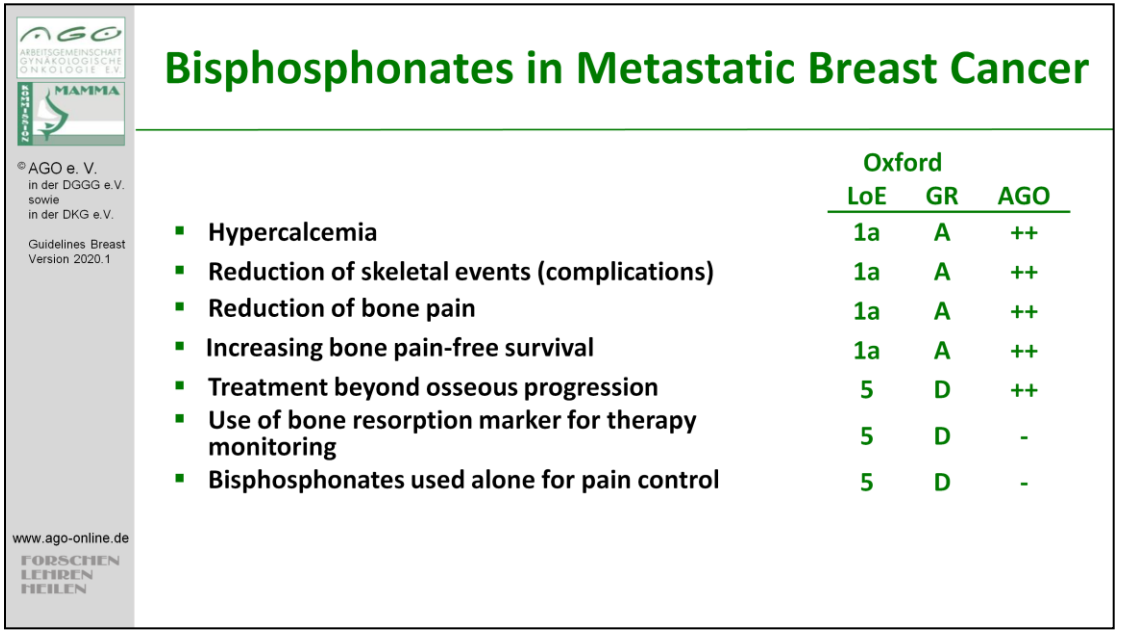

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Clinical relevance of bone resorption marker

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Bisphosphonates for bone pain control

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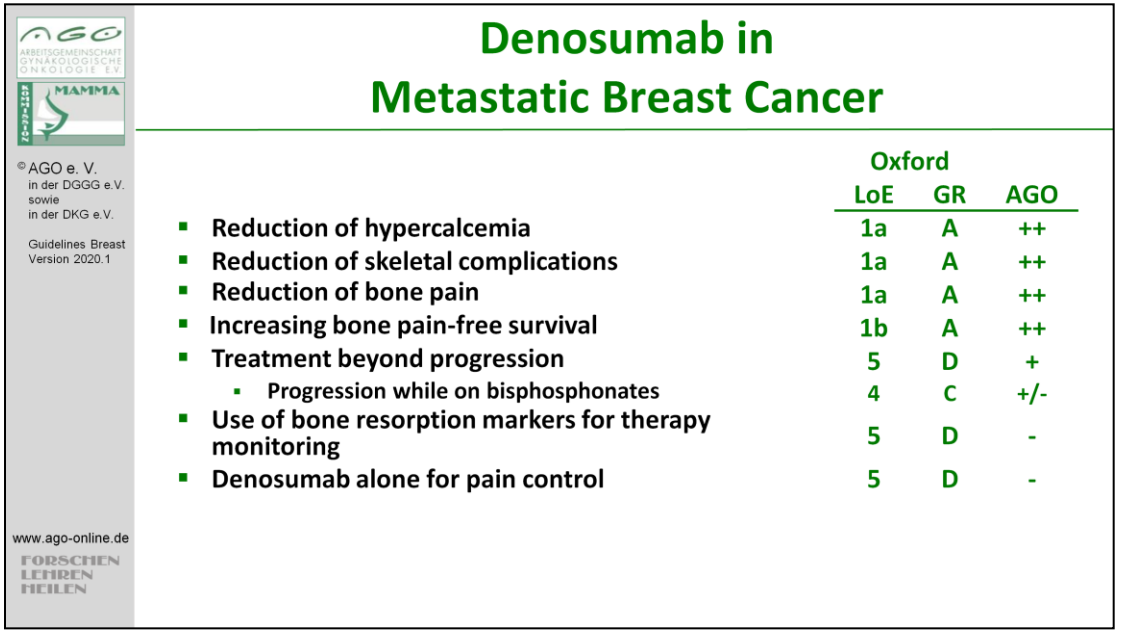

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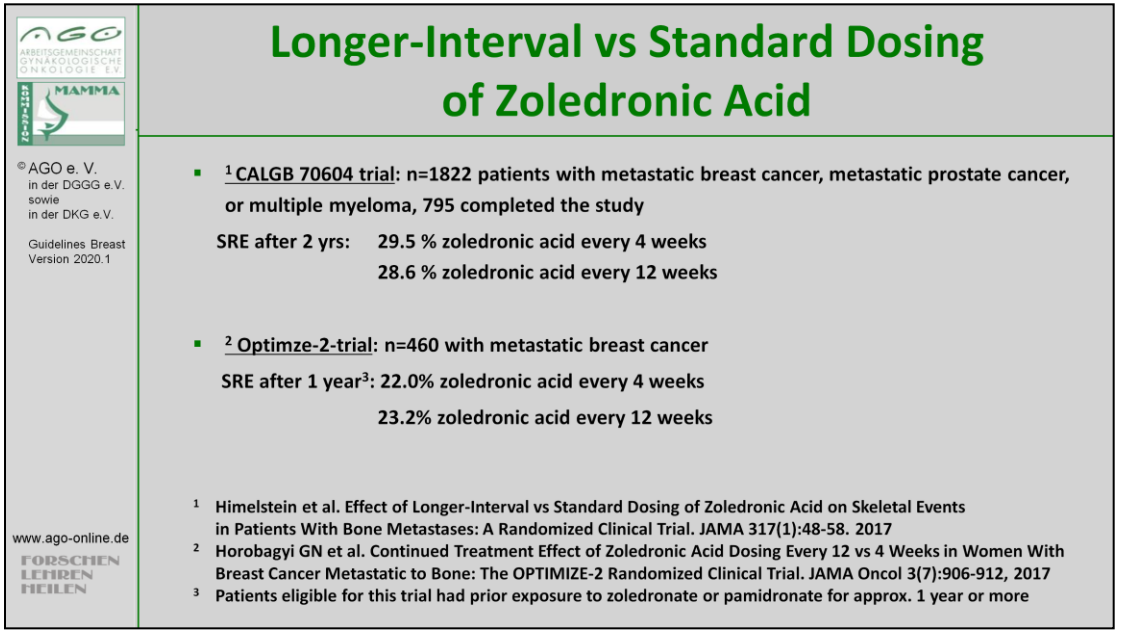

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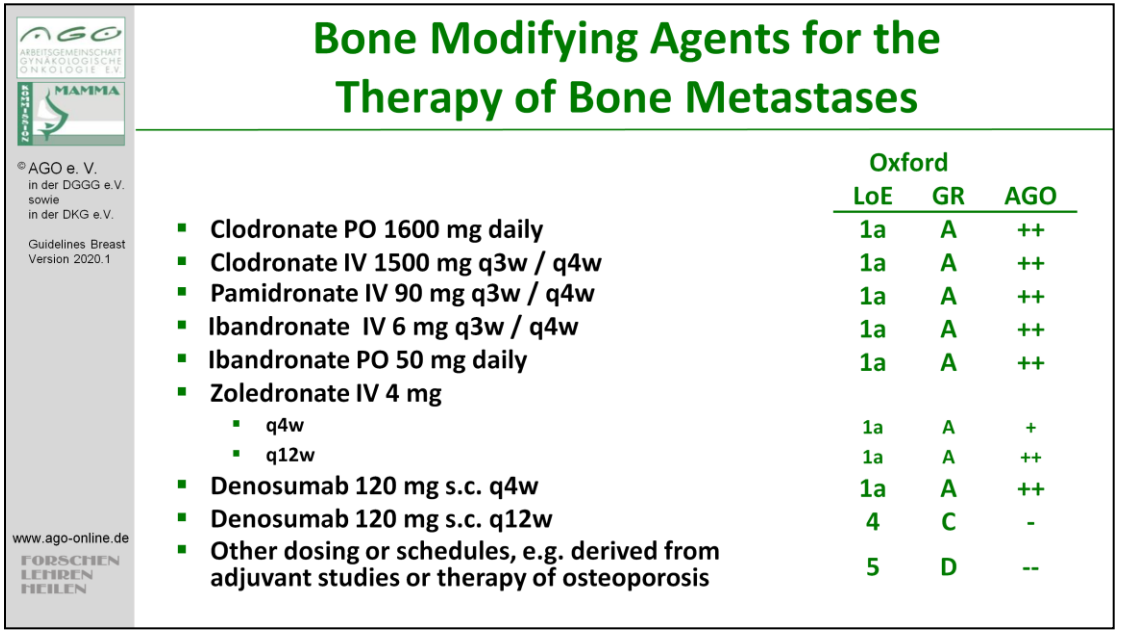

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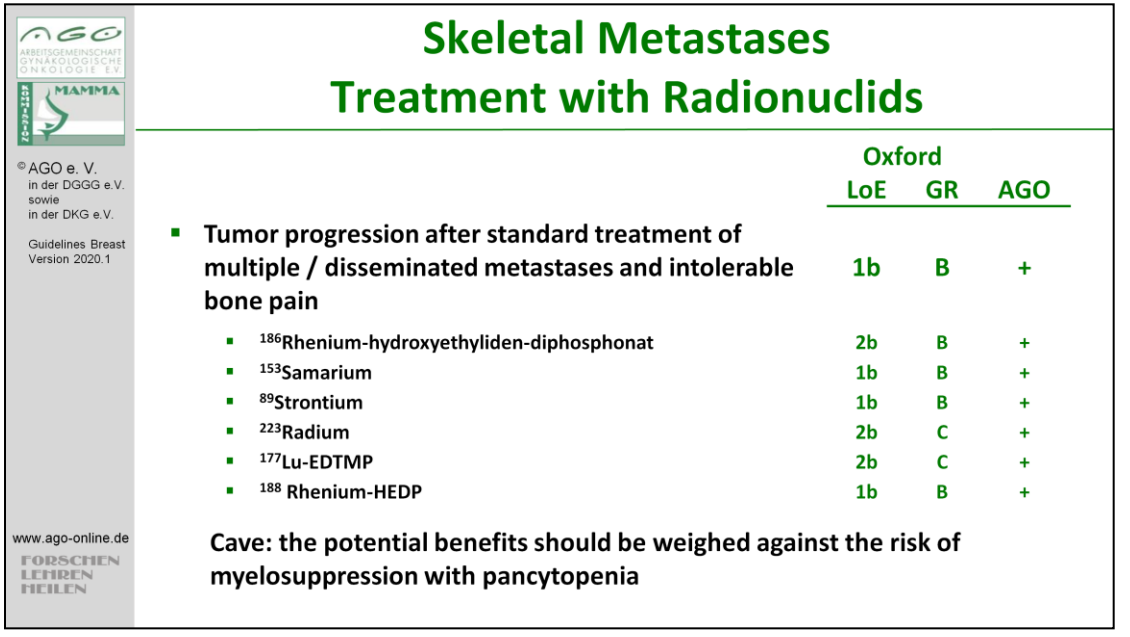

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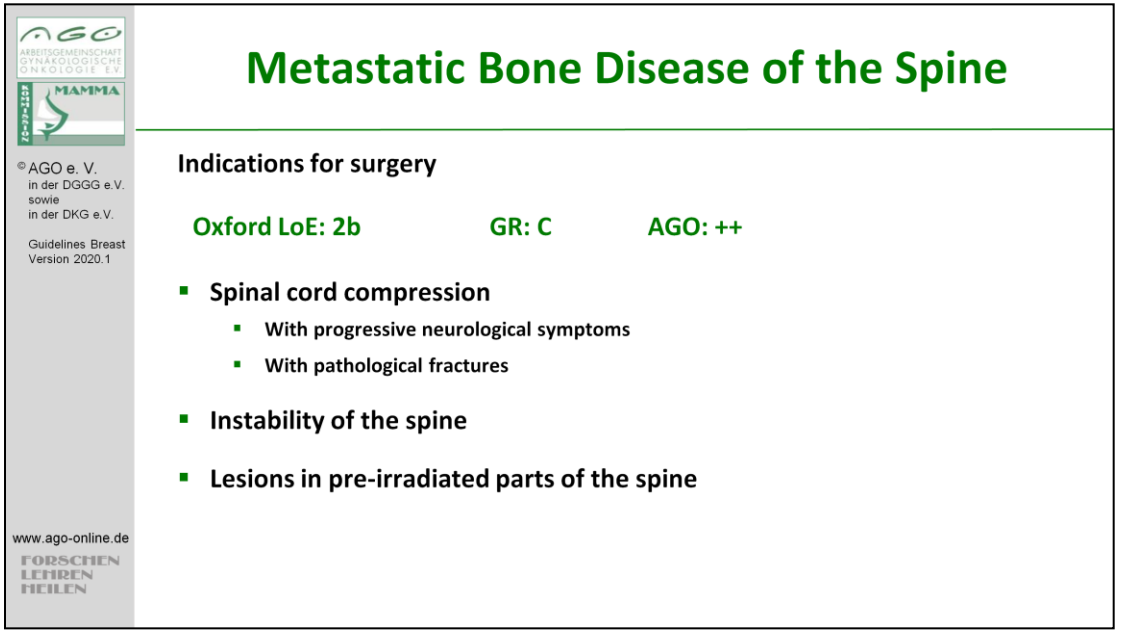

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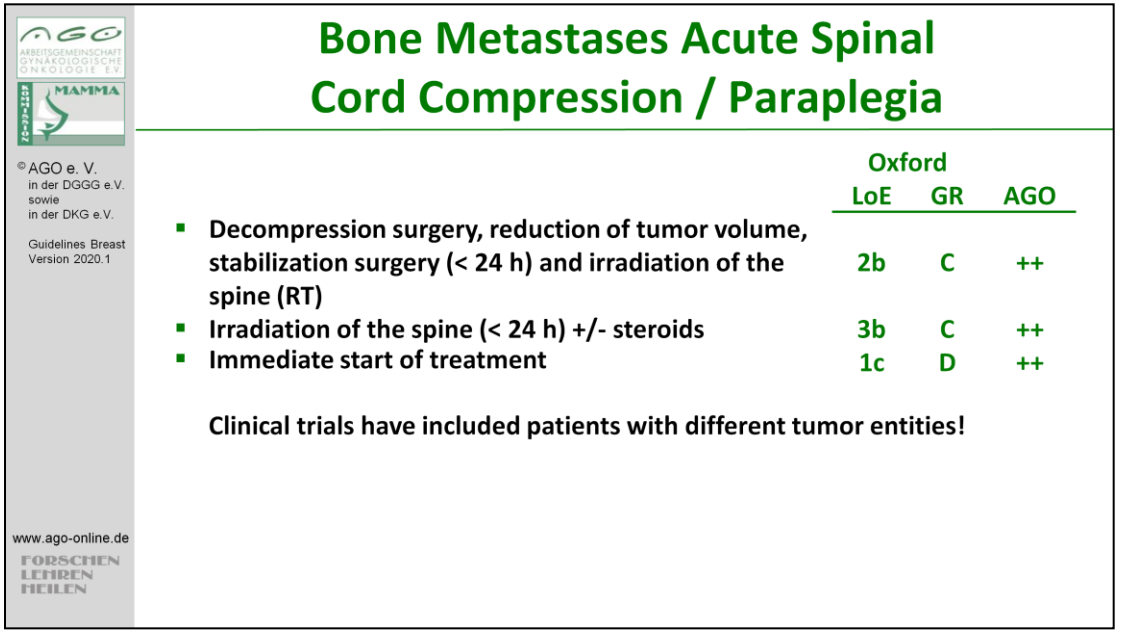

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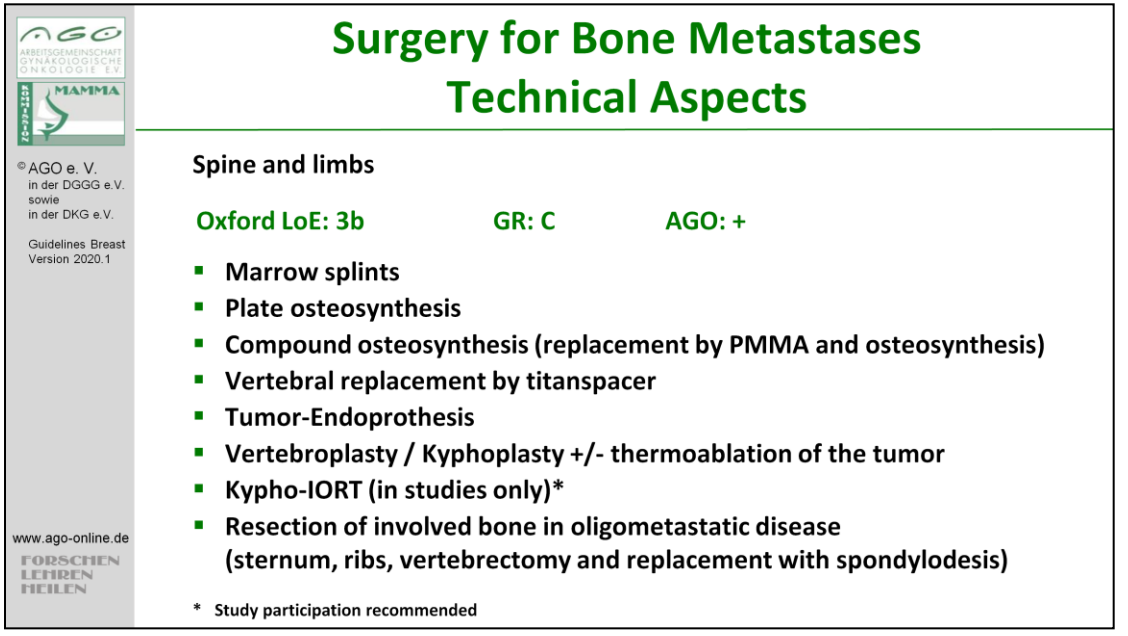

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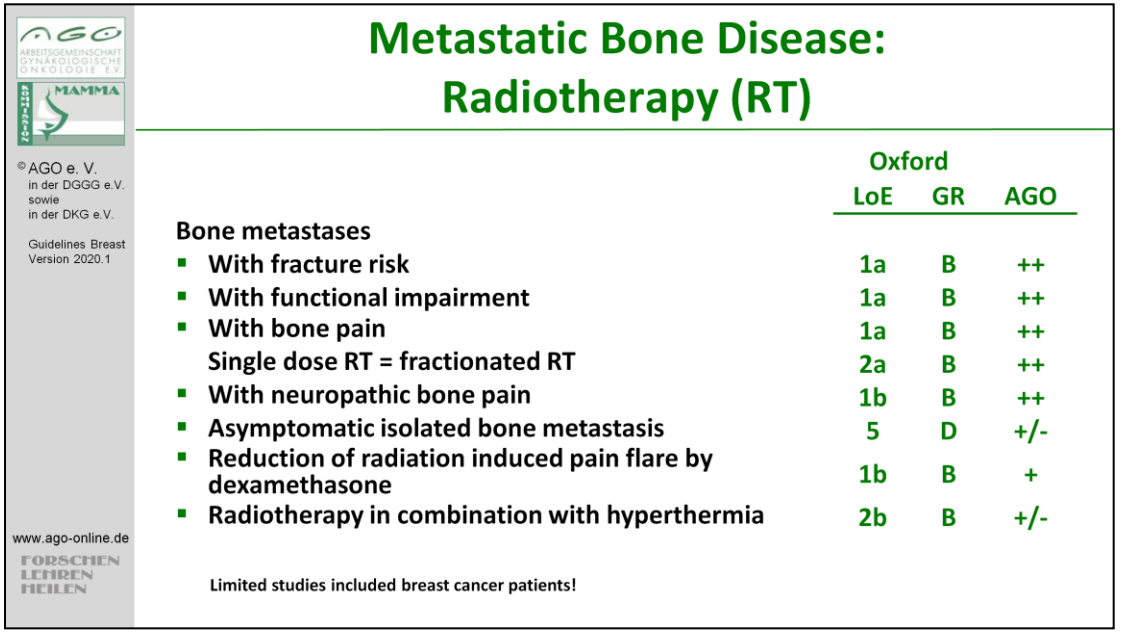

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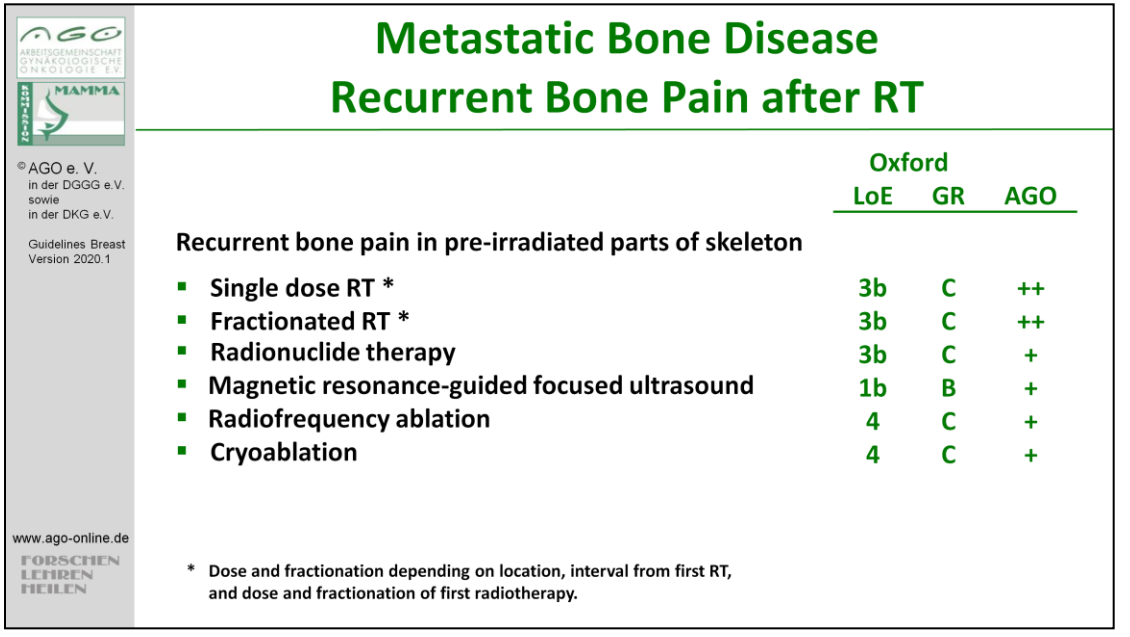

Recurrent bone pain in pre-irradiated parts of the skeleton

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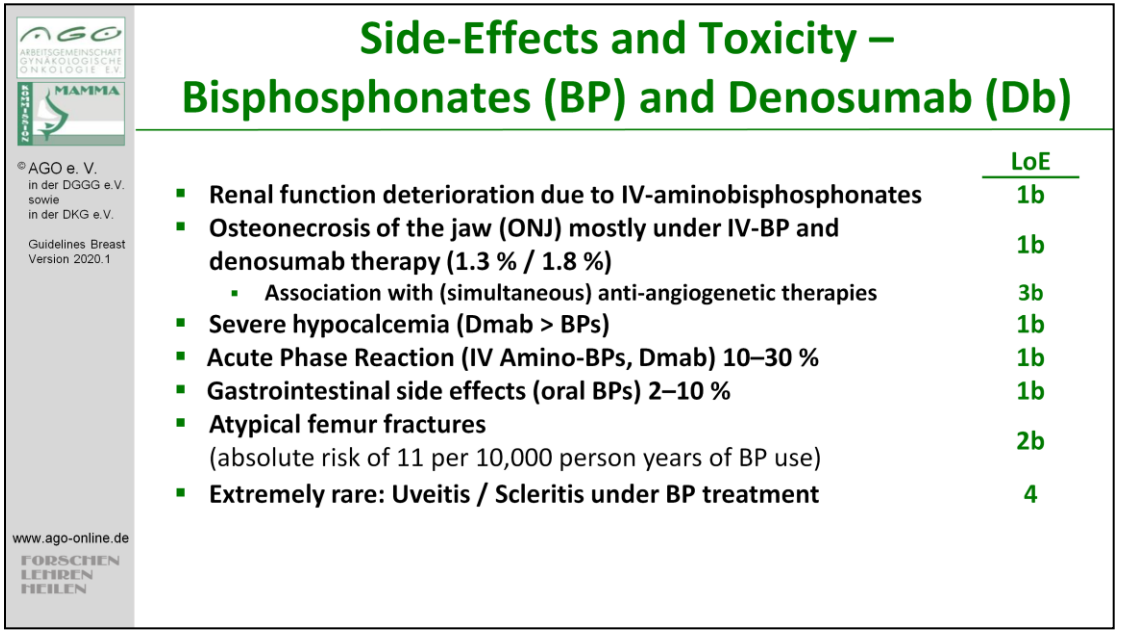

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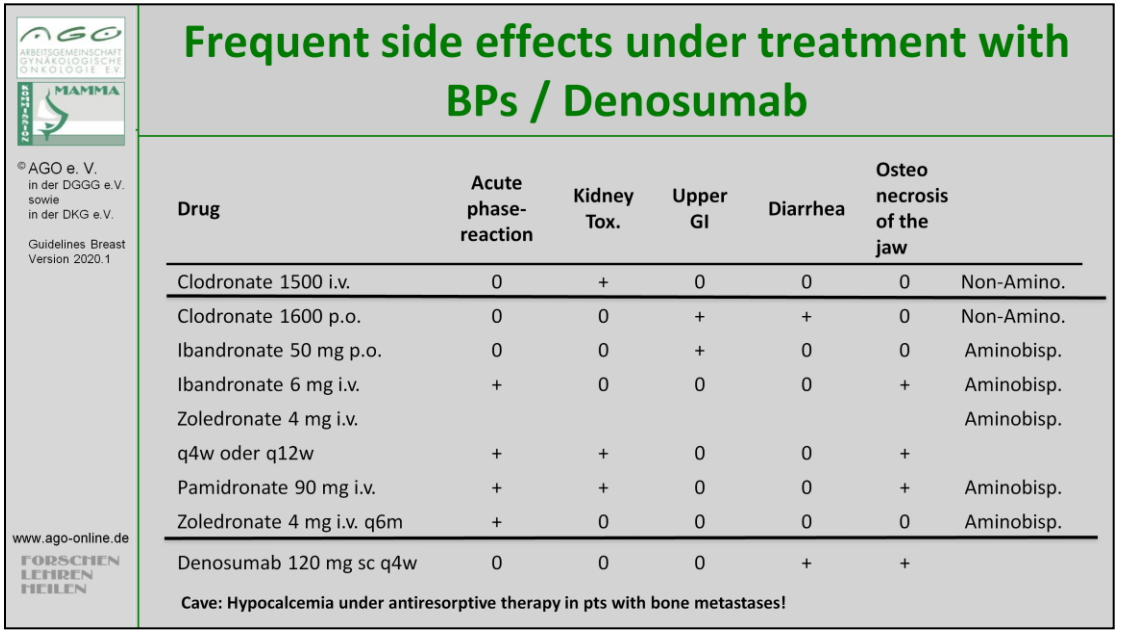

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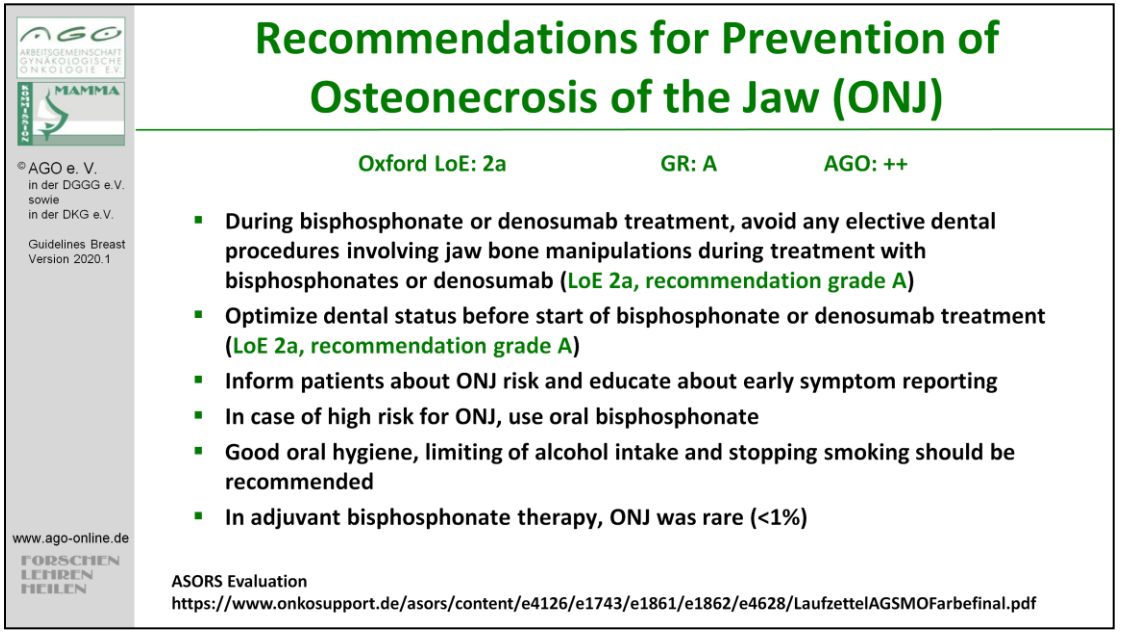

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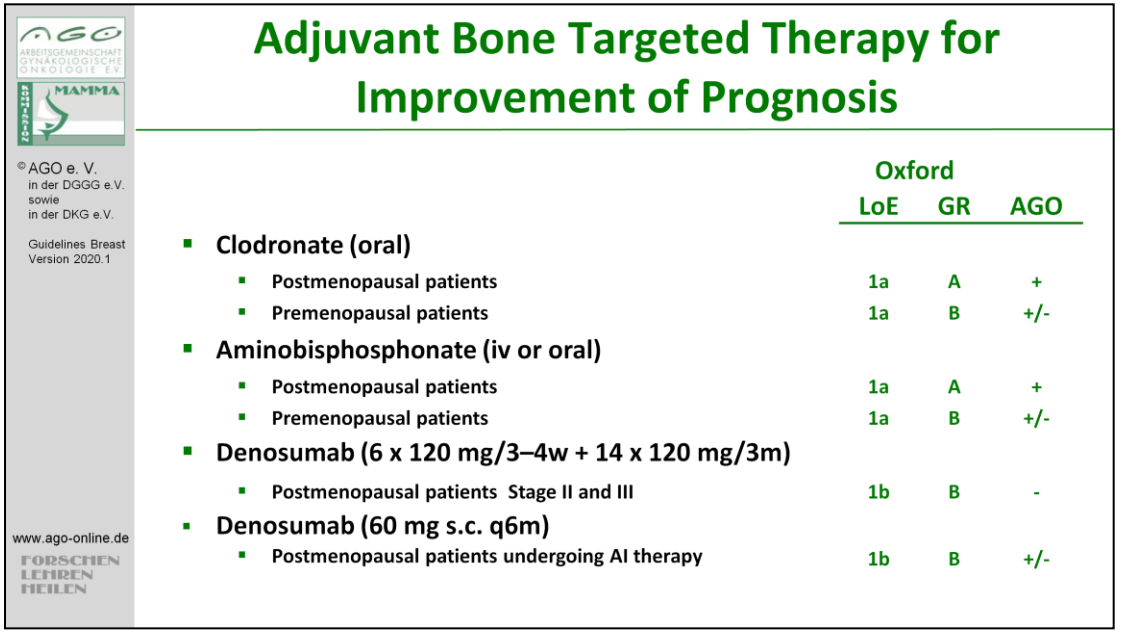

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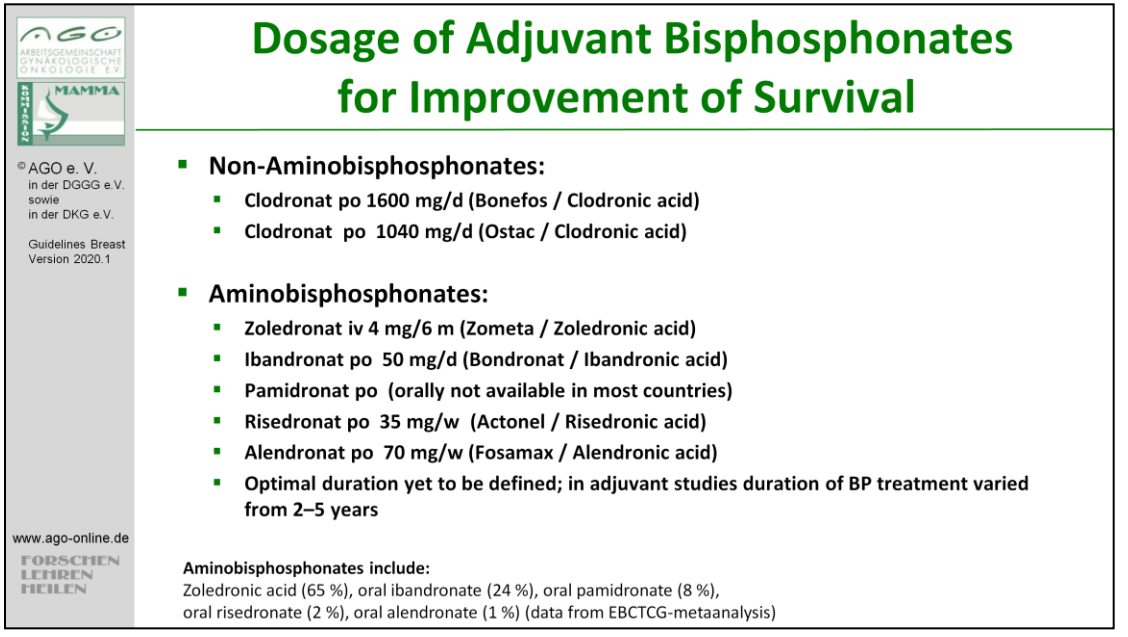

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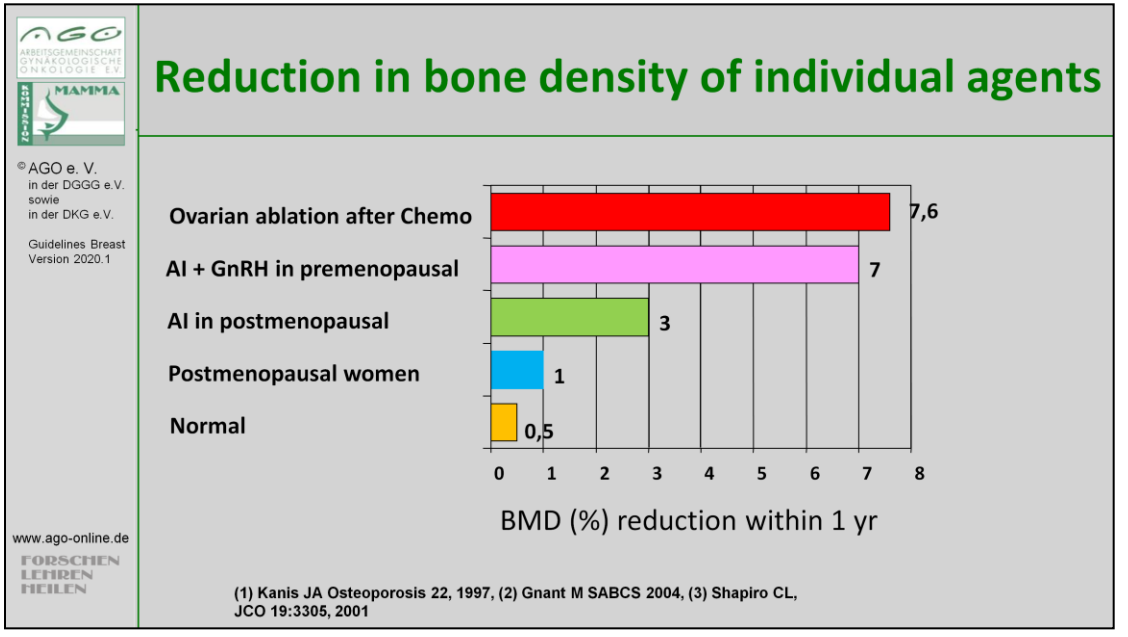

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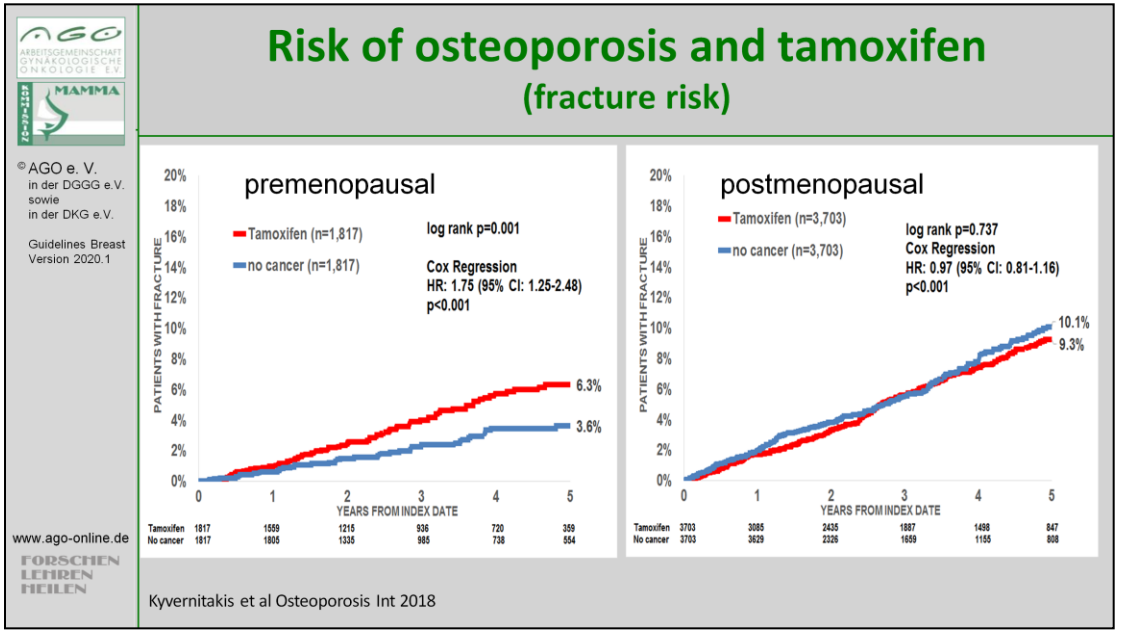

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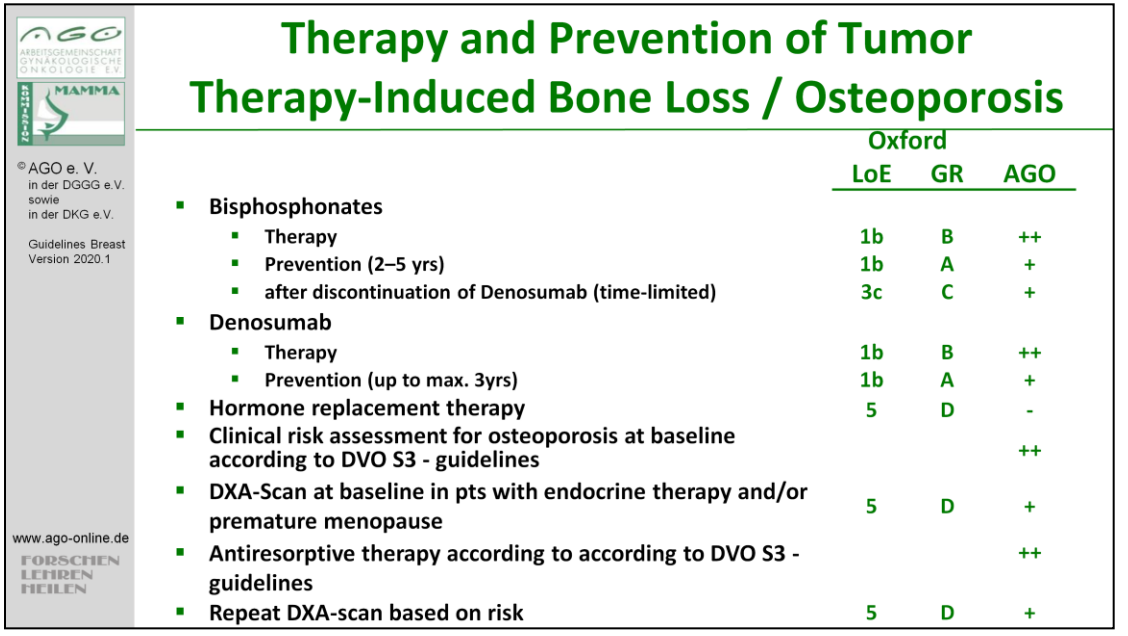

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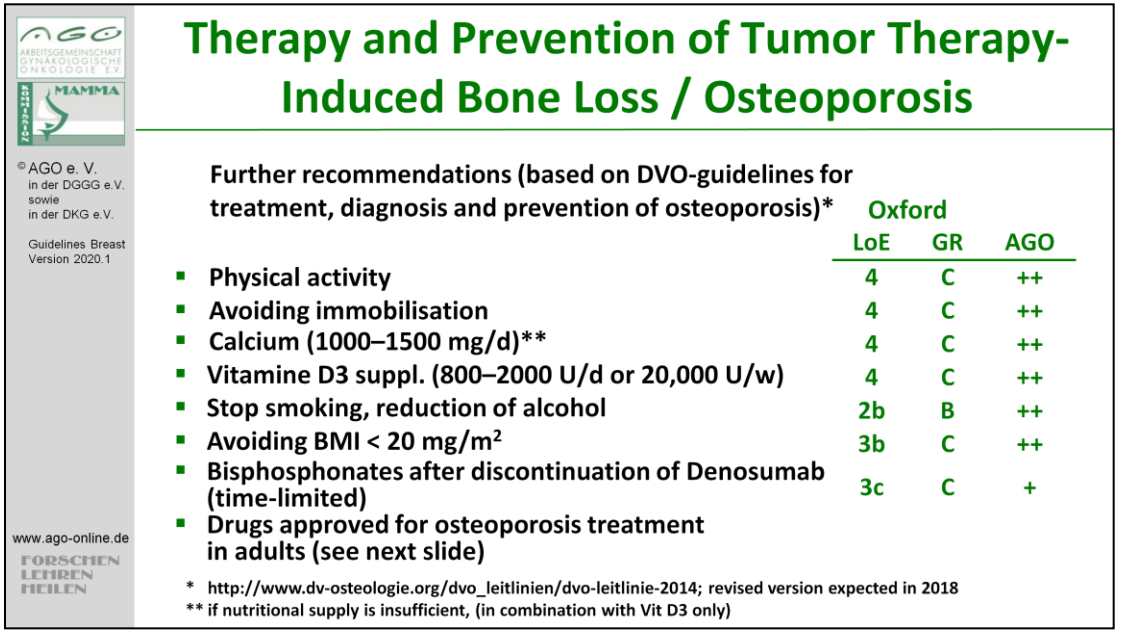

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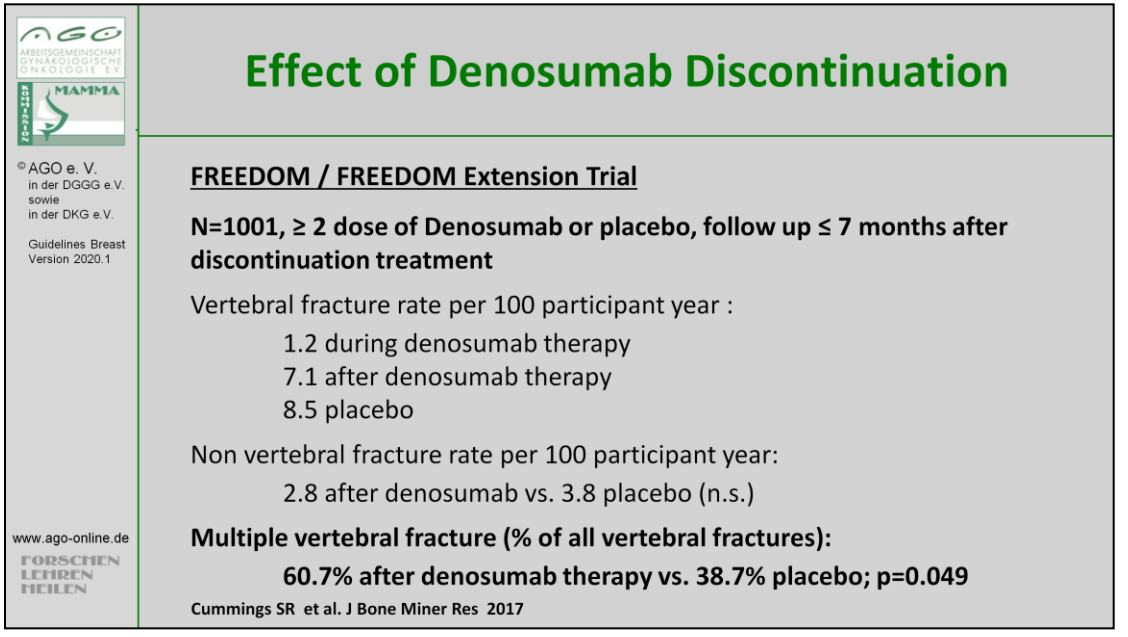

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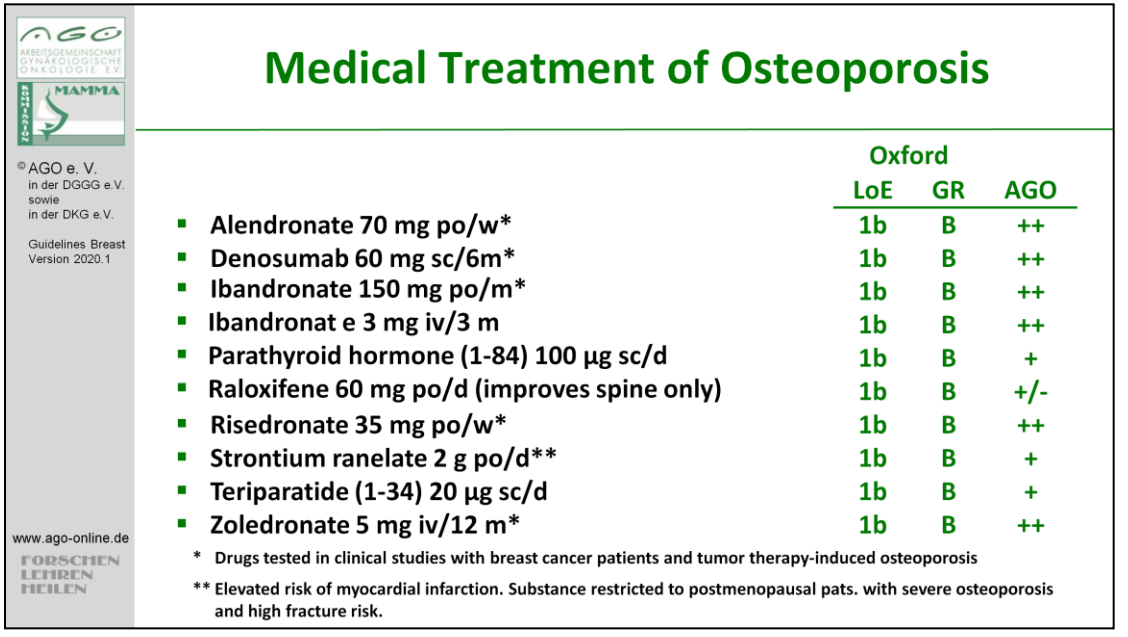

Medical Treatment of Osteoporosis

	Oxford LoE	Oxford GR	Oxford AGO
▪ Alendronate 70 mg po/w*	1b	B	++
▪ Denosumab 60 mg sc/6m*	1b	B	++
▪ Ibandronate 150 mg po/m*	1b	B	++
▪ Ibandronat e 3 mg iv/3 m	1b	B	++
▪ Parathyroid hormone (1-84) 100 µg sc/d	1b	B	+
▪ Raloxifene 60 mg po/d (improves spine only)	1b	B	+/-
▪ Risedronate 35 mg po/w*	1b	B	++
▪ Strontium ranelate 2 g po/d**	1b	B	+
▪ Teriparatide (1-34) 20 µg sc/d	1b	B	+
▪ Zoledronate 5 mg iv/12 m*	1b	B	++

* Drugs tested in clinical studies with breast cancer patients and tumor therapy-induced osteoporosis

** Elevated risk of myocardial infarction. Substance restricted to postmenopausal pats. with severe osteoporosis and high fracture risk.

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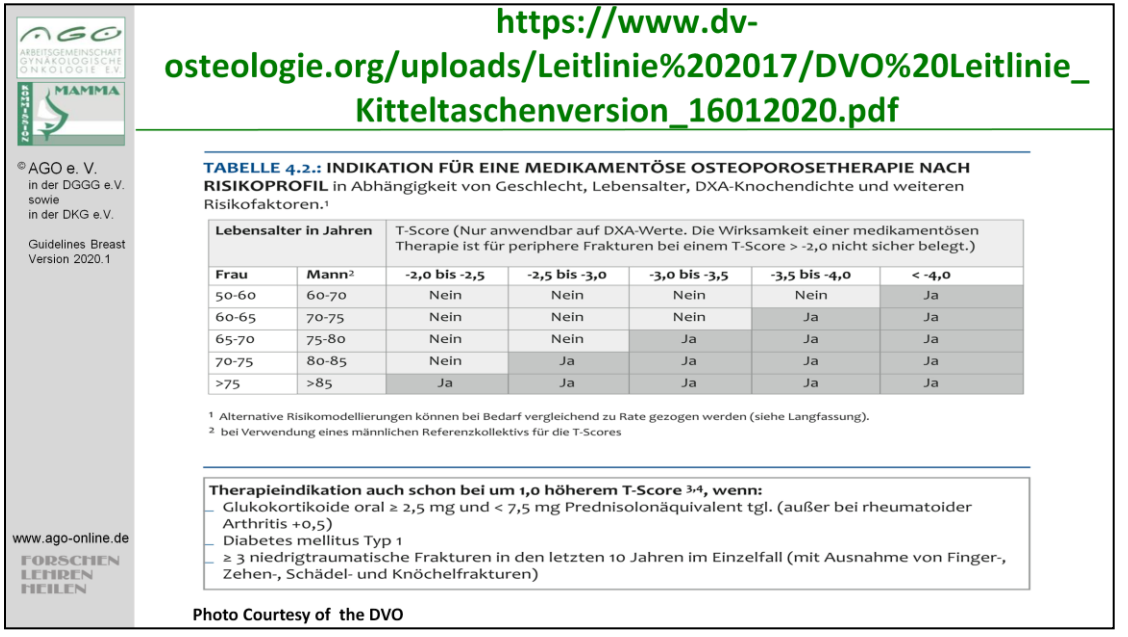

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Guidelines Breast
Version 2020.1

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FORSCHEN
LEHREN
HEILEN

TABELLE 4.2.: INDIKATION FÜR EINE MEDIKAMENTÖSE OSTEOPOROSETHERAPIE NACH RISIKOPROFIL in Abhängigkeit von Geschlecht, Lebensalter, DXA-Knochendichte und weiteren Risikofaktoren.[1]

Lebensalter in Jahren		T-Score (Nur anwendbar auf DXA-Werte. Die Wirksamkeit einer medikamentösen Therapie ist für periphere Frakturen bei einem T-Score > -2,0 nicht sicher belegt.)				
Frau	Mann[2]	-2,0 bis -2,5	-2,5 bis -3,0	-3,0 bis -3,5	-3,5 bis -4,0	< -4,0
50-60	60-70	Nein	Nein	Nein	Nein	Ja
60-65	70-75	Nein	Nein	Nein	Ja	Ja
65-70	75-80	Nein	Nein	Ja	Ja	Ja
70-75	80-85	Nein	Ja	Ja	Ja	Ja
>75	>85	Ja	Ja	Ja	Ja	Ja

[1] Alternative Risikomodellierungen können bei Bedarf vergleichend zu Rate gezogen werden (siehe Langfassung).
[2] bei Verwendung eines männlichen Referenzkollektivs für die T-Scores

Therapieindikation auch schon bei um 1,0 höherem T-Score [3,4], wenn:
- Glukokortikoide oral ≥ 2,5 mg und < 7,5 mg Prednisolonäquivalent tgl. (außer bei rheumatoider Arthritis +0,5)
- Diabetes mellitus Typ 1
- ≥ 3 niedrigtraumatische Frakturen in den letzten 10 Jahren im Einzelfall (mit Ausnahme von Finger-, Zehen-, Schädel- und Knöchelfrakturen)

Photo Courtesy of the DVO

1. German guidelines for the treatment of osteoporosis by the DVO: AWMF-Register-Nr.: 183/001; https://www.dv-osteologie.org/uploads/Leitlinie%202017/Finale%20Version%20Leitlinie%20Osteoporose%202017_end.pdf
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