



St. Gallen/Vienna 2023: Optimization of Treatment for Patients with Primary Breast Cancer ; a Brief Summary of the Consensus Discussion



Pre-operative biopsy

- ▶ The Panel did not reach perfect consensus as to whether a patient with a small (<1 cm) highly suspicious breast lesion could move to primary surgery without a diagnostic biopsy in situations for which non-neoadjuvant systemic treatment options exist:
- ▶ A majority (72%) insisted on a pre-operative biopsy,
- ▶ a minority (25%) stated that primary surgery would be appropriate in such a situation



For a 35-year-old patient with triple-negative breast cancer cT2cN0 and a pathogenic BRCA mutation, the majority recommended bilateral mastectomy with or without reconstruction

Some panelists voted to separate the risk-reducing aspect from the cancer surgery, thus also keeping breast conservation plus radiotherapy an option.

Science 2023

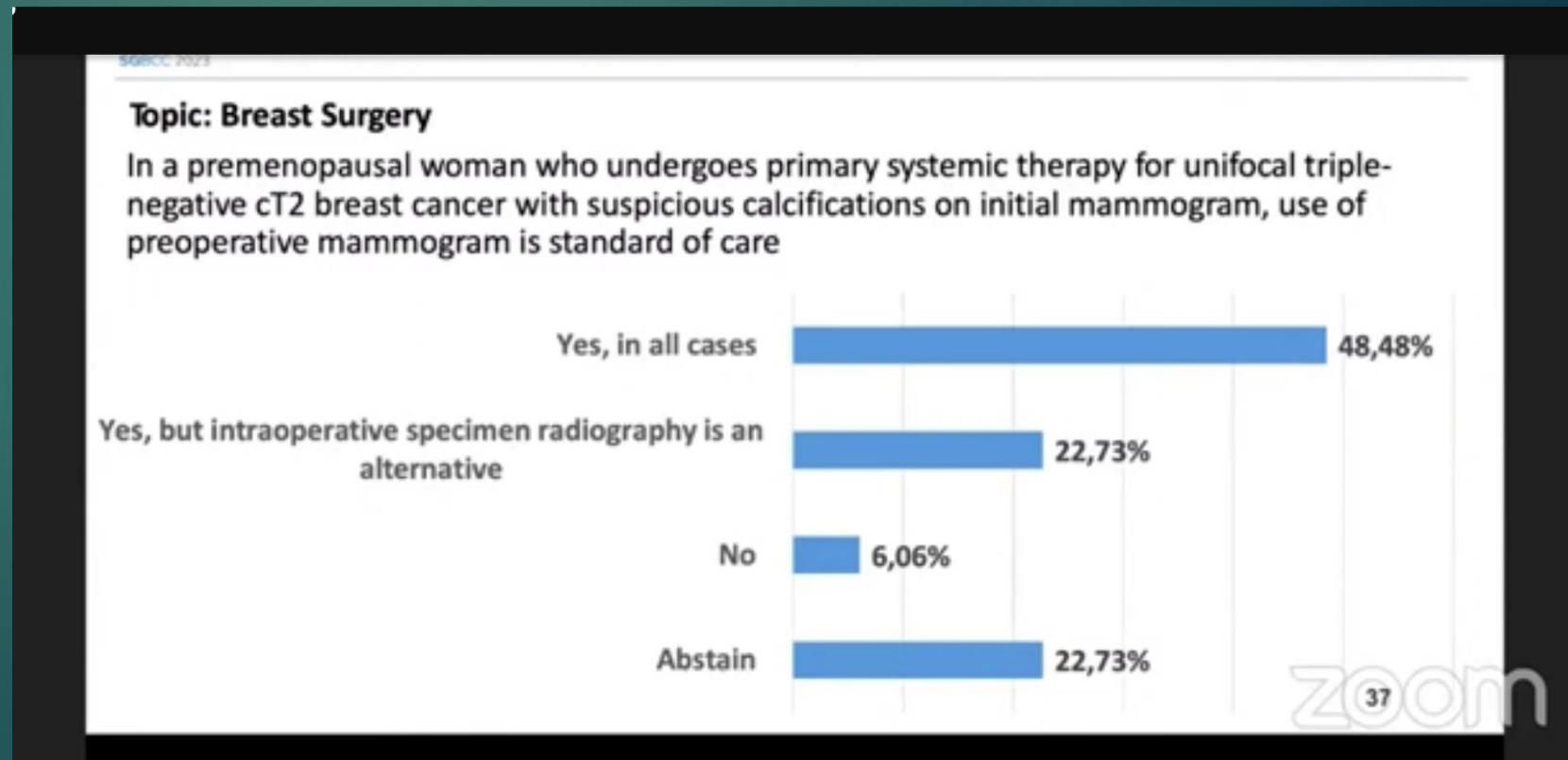
	Surgery	Intensive screening
Gene: BRCA1 Menopausal Status: Pre	66,67%	13,63%
Gene: BRCA1 Menopausal Status: Post	60,61%	16,67%
Gene: BRCA2 Menopausal Status: Pre	63,64%	13,64%
Gene: BRCA2 Menopausal Status: Post	42,42%	31,82%
Gene: PALB2 Menopausal Status: Pre	42,42%	31,82%
Gene: PALB2 Menopausal Status: Post	19,70%	53,03%
Gene: ATM Menopausal Status: Pre	9,09%	72,73%
Gene: ATM Menopausal Status: Post	1,52%	78,78%
Gene: CHEK2 Menopausal Status: Pre	7,58%	71,21%
Gene: CHEK2 Menopausal Status: Post	1,52%	78,78%

For the post-neoadjuvant surgery of a triple-negative breast cancer and complete radiological response

- ▶ lumpectomy with no ink on tumor was the treatment of choice for two thirds of panelists,
- ▶ A larger margin was preferred by 25% of panelists (split 1:1 between 1 and 2 mm between ink and tumor).

whether a preoperative mammography should be standard after the neoadjuvant treatment of a triple-negative breast cancer with initial baseline microcalcifications

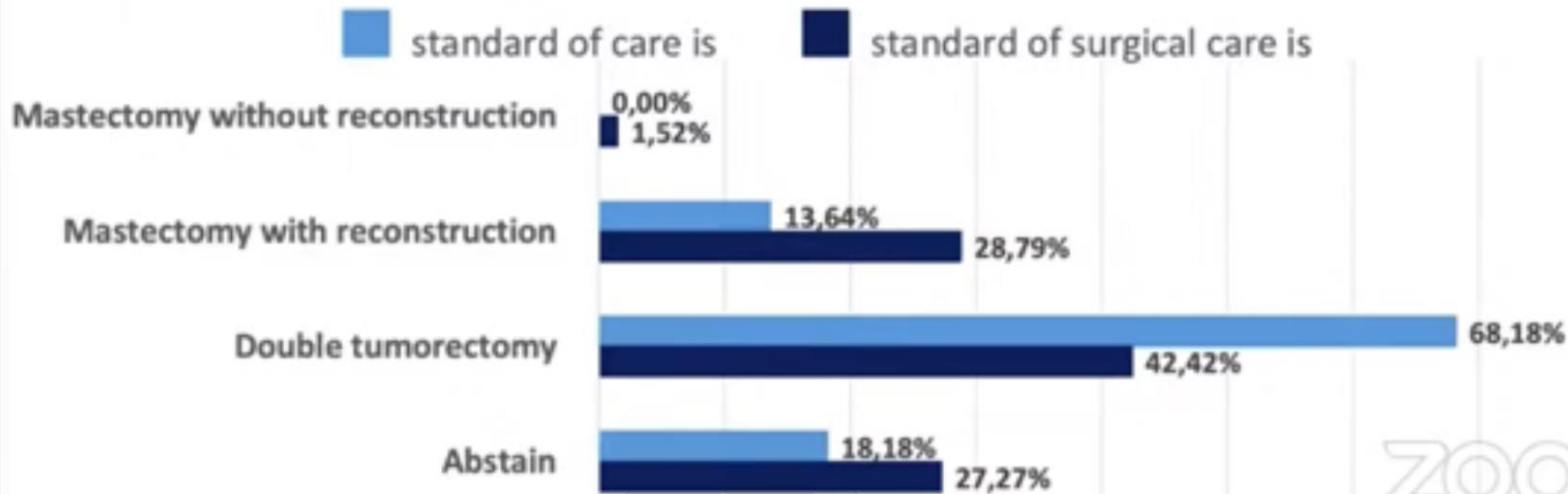
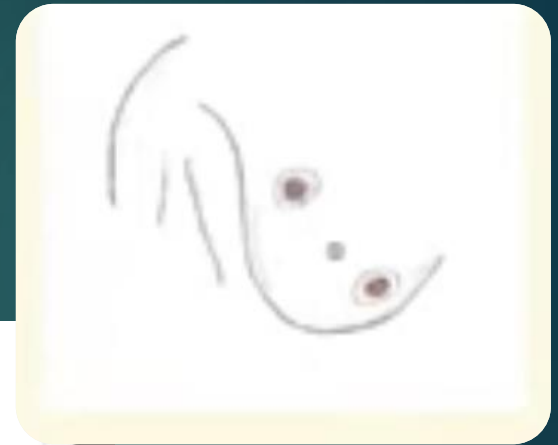
- ▶ The panel remained uncertain,
- ▶ but some endorsed the use of intraoperative specimen radiography instead.



breast conservation for multicentric disease:

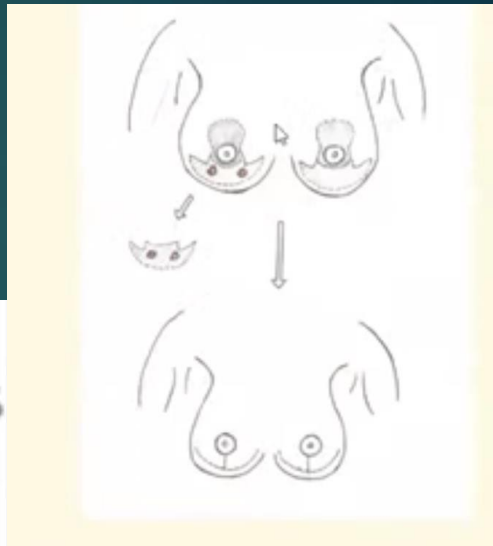
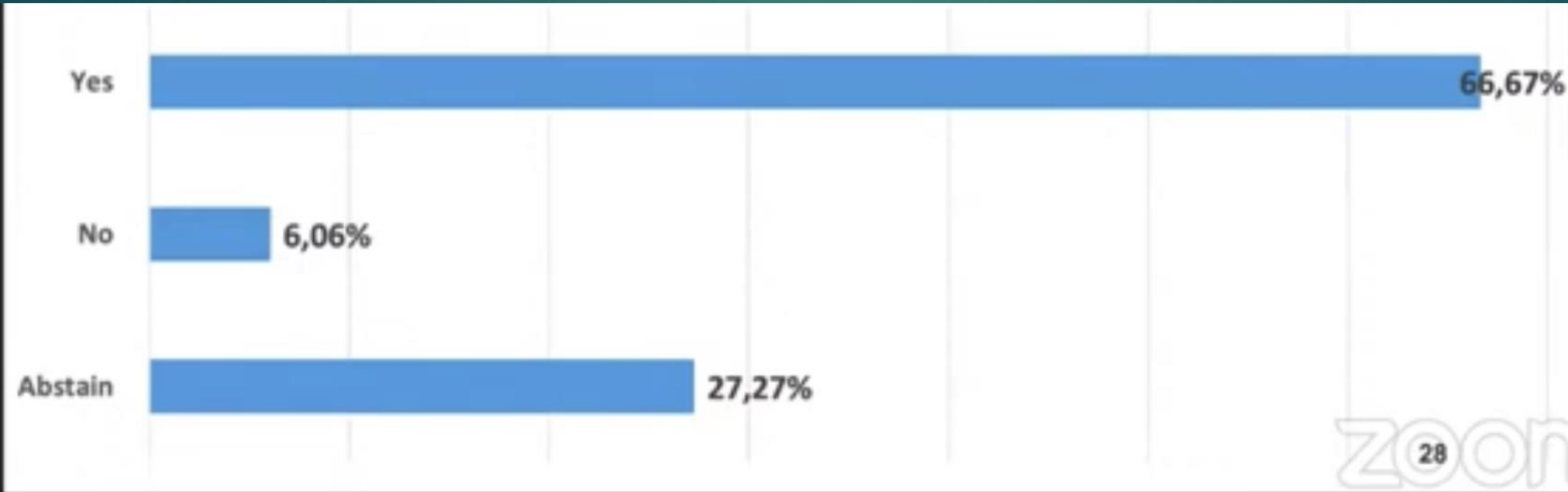
In a postmenopausal patient with ER+/HER2- clinically node-negative breast cancer with two ipsilateral tumors in two neighboring quadrants amenable to double tumorectomy with two separate incisions: 68% of Panelists preferred “Double tumorectomy”

Biology matters, thus in the same situation with two triple-negative breast cancers (TNBC), only 42% preferred a double tumorectomy, whereas 30% voted for mastectomy (27% abstention)



zoom

- ▶ In addition, a majority of the Panel endorsed oncoplastic high-volume resections or "extreme oncoplasty" as an alternative for large primary tumors as long as margins are clear, and post-surgical radiation can be performed (67% Yes, 27% Abstain)



Impact of BCS on local recurrence in patients with multiple ipsilateral breast cancer: results from the ACOSOG Z11102(Alliance) Trial

- ACOSOG Z11102 trial → single-arm *prospective* study evaluating outcomes of OBCS and breast RT (+ boost) for MIBC:

- 204 patients (≥40 years) cT1-2, N0-1 breast cancer
- 2 or 3 foci of disease in breast (at least 1 invasive)
- median follow up 66.4 months (range 1.3 – 90.6)
- tumor foci separated by at least 2cm (each <5cm)
- histologically negative margins of resection (no tumor on ink)



- Primary outcome = local recurrence at 5 years (defined acceptable <8%)
- Secondary outcomes = conversion to mastectomy (7.1%), cosmesis (PROs good/excellent in 70.6% 2 years), radiation constraints re boost doses (increased boost volume → acute dermatitis but *not* worse cosmesis)



Impact of BCS on local recurrence in patients with multiple ipsilateral breast cancer: results from the ACOSOG Z11102(Alliance) Trial

RESULTS



- Total of **6** patients — developed local recurrence = estimated cumulative incidence at 5 years **3.1%** (95% CI 1.3 – 6.4)
- Local recurrence cases — in breast (**4**), skin (**1**), chest wall (**1**)



Impact of BCS on local recurrence in patients with multiple ipsilateral breast cancer: results from the ACOSOG Z11102(Alliance) Trial

RESULTS

• Subset analysis — revealed *lower* rate local recurrence amongst patients with pre-operative MRI (p=0.002 but small numbers):

- MRI (n= 189)  local recurrence **1.7%** [HR 1.0; 95% CI 0.6 – 5.2]
- no MRI (n= 15)  local recurrence **22.6%** [HR 13.5; 95% CI 7.9 – 55.1]

• Suggestion of *lower* rate of recurrence for **luminal** type tumors (ER positive; HER2 negative) = **2.6%** (95% CI 1.0 – 6.8) (few TNBC, HER2 +ve)



Contralateral Mastectomy

2001-2005

<u>Age First Diagnosis</u>	<u>Per 100/yr</u>	
	ER Positive	ER Negative
25-29	0.45	1.26
30-34	0.31	0.85
35-39	0.25	0.64
40-45	0.24	0.47
50-54	0.26	0.45
60-64	0.36	0.51
70-74	0.37	0.55
80-84	0.26	0.63



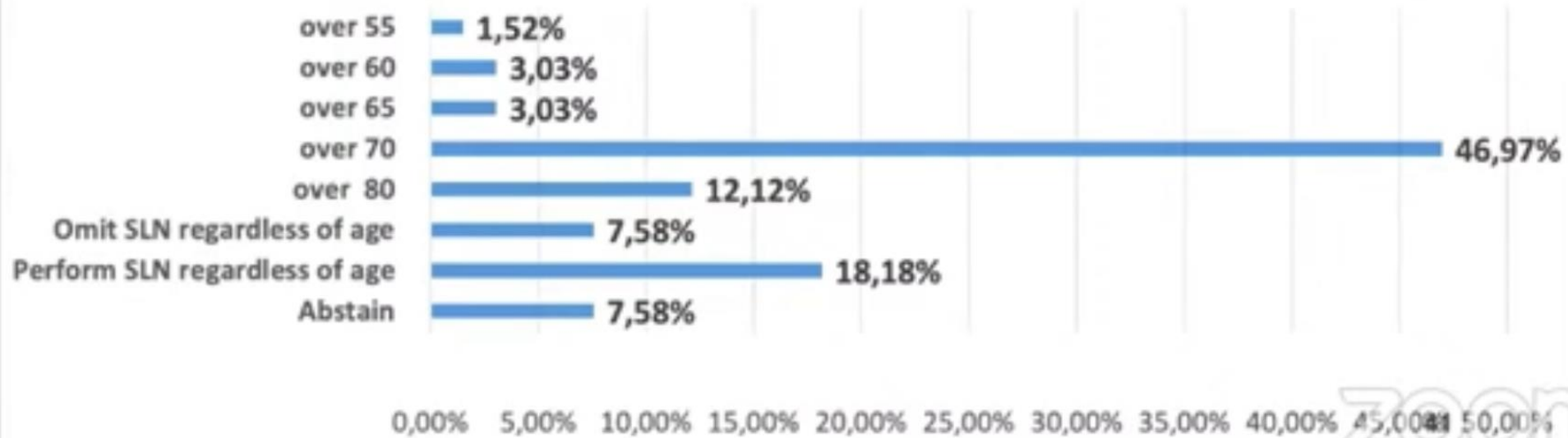
The Axilla



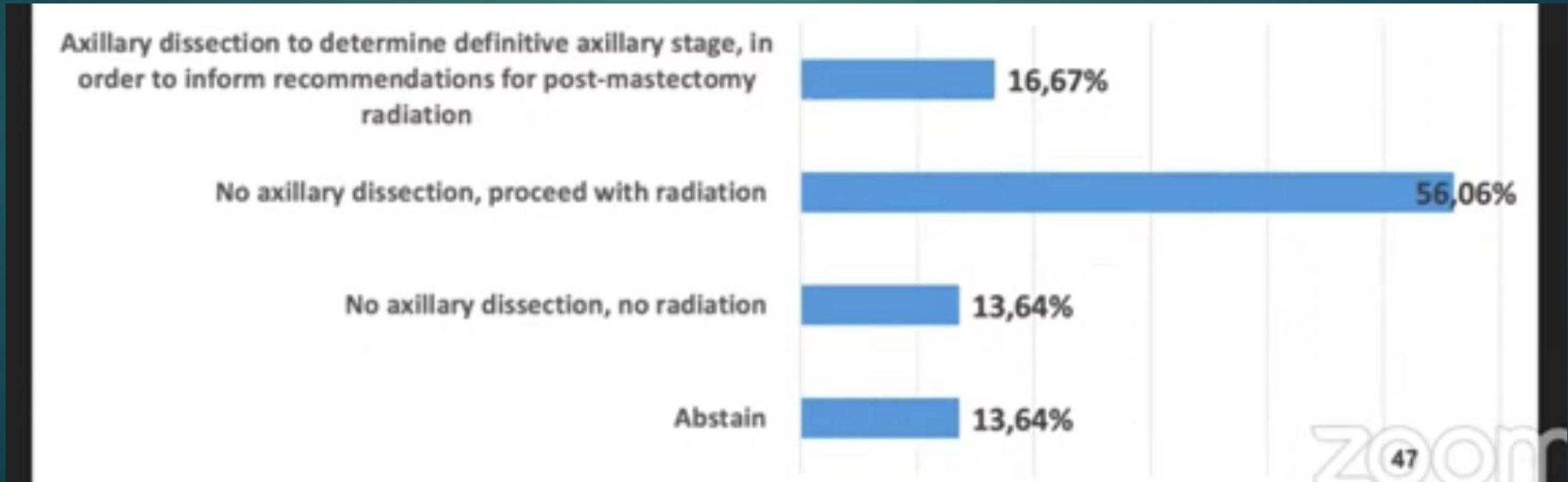
- There was no consensus on whether any axillary surgery can be omitted in patients with favorable prognostic factors (strong ER and PR, Grade 1, endocrine therapy compliant)

A majority of panelists would consider such omission from the ages of 70 (47%) or 80 (12%) onwards.

18% of Panelists insisted on SLN surgery regardless of age.



In Postmenopausal patients with clinically node- negative ER+ HER2-undergoing mastectomy and showing one positive SN: a majority suggested radiation therapy (56%), but some still favored axillary dissection or observation



palpable nodes at time of diagnosis of ER+HER2- disease

- ▶ **Postmenopausal**: 52% of panelists voted for primary surgery, a minority endorsed neoadjuvant chemotherapy (12%) or neoadjuvant antihormonal therapy (5%)
- ▶ For a similar situation in **Premenopausal** situation, voting results shifted towards more neoadjuvant chemotherapy (28%), but the majority still favoured primary surgery (42%).

After neoadjuvant systemic surgery and residual disease in the axilla

- ▶ axillary dissection or axillary radiotherapy should be undertaken:
- ▶ There was some variation of majorities with respect to the extent of residual disease and molecular tumor subtype:
- ▶ For TNBC and residual ITCs micrometastasis , 34% favored ALND, 40% ART.
- ▶ For macrometastasis 1-3 LN after PST for TNBC, 43% preferred ALND over ART (28%).
- ▶ For situations of a negative post-treatment sentinel node, a relative majority of panelists (44%) voted for no further therapy, whereas 39% would still irradiate the axilla



De-escalate Surgery -> Escalate Radiotherapy ??



Omitting Axillary staging



SGBC 2023

18TH ST.GALLEN INTERNATIONAL BREAST CANCER CONFERENCE

15 - 18 March 2023, Vienna/Austria



Michael Grant

st.galleroncology

SOUND trial study design

Patients with breast cancer ≤ 2 cm
Any age, Breast conserving therapy
Negative U.S. of the axilla
negative FNAC of a single doubtful axillary node



Randomization



SNB policy

n=780

No axillary surgery

n=780

Oreste D. Zappalini | SGBC 2023
zoom

Sound Trial



SGBC 2023

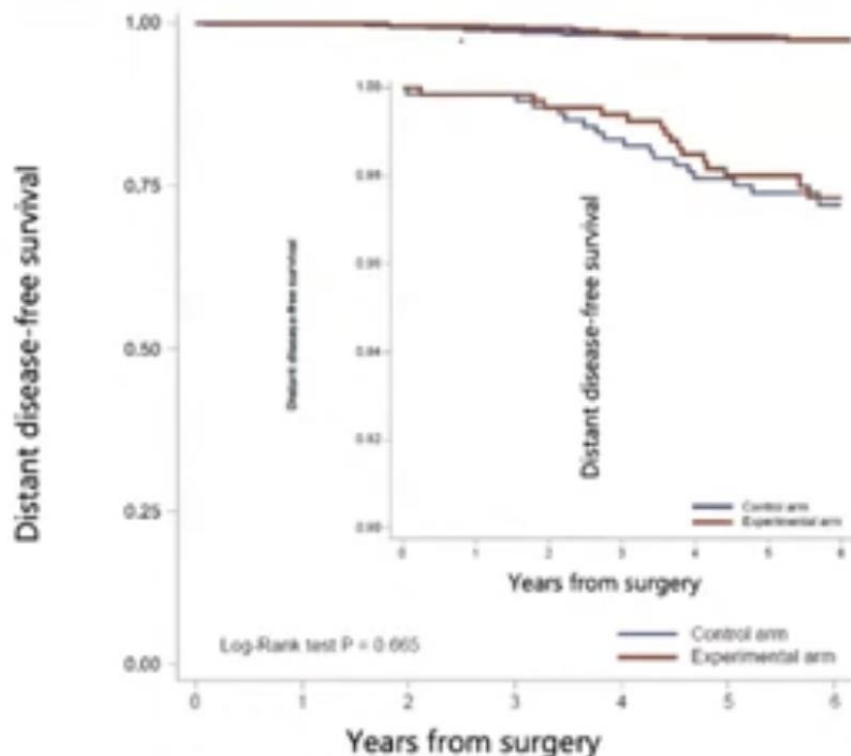
18TH ST.GALLEN INTERNATIONAL BREAST CANCER CONFERENCE

15 - 18 March 2023, Vienna/Austria

st.galleroncology



Michael Grant



Five-year DDFS was 97.7% in the SLNB arm and 98.0% in the no axillary surgery arm (Log-rank test P=0.665; HR 0.84; 90% CI 0.45-1.54; non-inferiority P=0.024).

	Number of subjects at risk						
	0	1	2	3	4	5	6
Control arm	708	702	694	684	657	532	303
Experimental arm	697	684	675	669	640	512	289

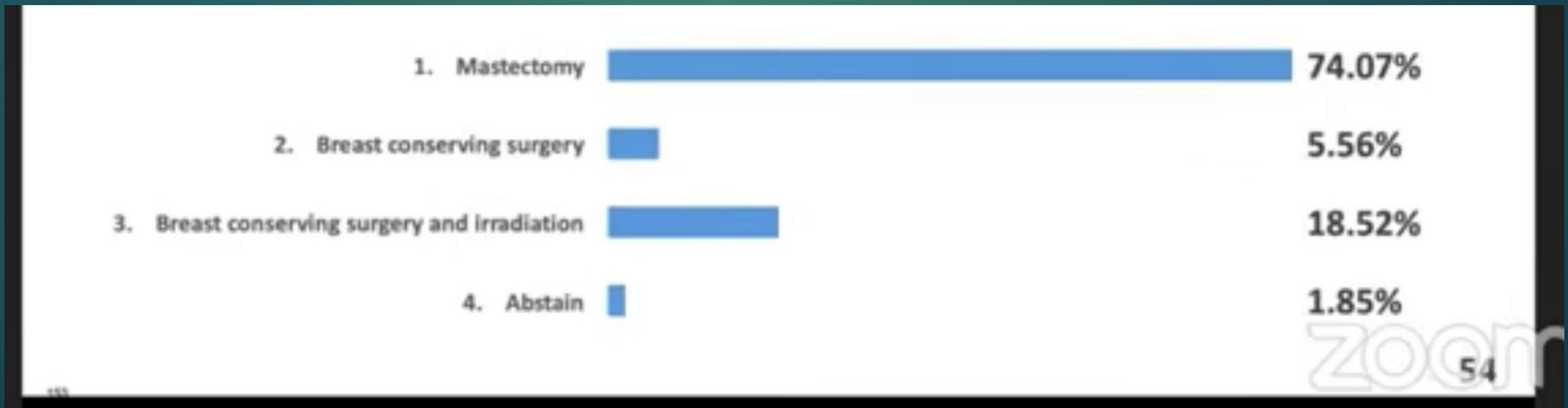
Loco- regional Recurrence

- ▶ A 63-year-old woman with breast-conserving therapy and adjuvant systemic therapy for node-negative stage 2 breast cancer 9 years ago and now presenting with an ER positive and HER2 negative ipsilateral tumor recurrence (<2cm, 3 cm distance to the nipple). No distant metastases and only very localized grade 2 side effects at the level of the skin and soft tissues.
- ▶ Clinically it would be amenable to breast-conserving surgery with acceptable aesthetic results.
- ▶ A majority of the panelists would recommend performing breast-conserving surgery again



Loco- regional Recurrence

- ▶ The case was then modified by assuming a rather shorter disease-free interval of 3 years and endocrine therapy stopped after the first year. Lower than grade 2 side effects in skin or soft tissue, ER+, HER2-, non- Metastatic, T<2 cm, 3 cm from nipple, amenable to BCS.
- ▶ Now, the majority favored the mastectomy (74 %) and only a few still voted for a breast conserving procedure (18 % with re-irradiation and 6 % without).



Miscellaneous



Pregnancy: Interrupting endocrine therapy

- ▶ Pregnancy After Breast Cancer
- ▶ With regard to counselling premenopausal women about the safety of being pregnant after breast cancer and the recently presented data of the IBCSG / BIG / Alliance POSITIVE trial(35), a case was constructed. It showed a 28-year- old patient receiving ovarian function suppression and tamoxifen as treatment for breast cancer with 4 or more involved axillary lymph nodes, and the question was whether one would recommend interrupting endocrine therapy after 2 years therapy.
- ▶ Only 14 % voted in favor, but the overwhelming majority (79 %) would not encourage the patient to get pregnant in that situation



Pregnancy outcome and safety of interrupting therapy for women with endocrine responsive breast cancer: initial results from the POSITIVE trial

- ATLAS trial → confirmed benefit of **10** years versus **5** years endocrine therapy with tamoxifen (pre-menopausal)
- Pregnancy → contraindicated *during* endocrine therapy (now 10 years)
- Therefore temporary *interruption* of hormonal treatment after 18 – 30 months → permit attempt at conception and pregnancy to term
- POSITIVE trial → prospective non-randomized study of pre-menopausal women with desire for pregnancy after breast cancer:
 - **518** patients recruited from 116 centres in **20** countries
 - majority stage I and II disease; one-third node positive
 - median patient age = **37** years
 - **75%** nulliparous



Initial results from the POSITIVE trial

- Safety analyses → pre-defined trial *suspension* threshold ≥ 47 breast cancer recurrences within 3 years of median follow up period
- Primary endpoint = breast cancer-free interval (enrolment to 1st event)

RESULTS



- Total of **44** breast cancer recurrences → corresponding to rate of **8.9%** at 3 years [95% CI 6.3 – 22.6]
- Similar to **9.2%** for comparative external cohort *control* (SOFT/TEXT trials)

Initial results from the POSITIVE trial

- “ *Temporary interruption endocrine therapy for pregnancy → does not appear to negatively impact breast cancer outcomes in relatively short term follow up for ER positive disease*”
- “ *.....data suggest that patient-centred reproductive healthcare should be incorporated routinely in the care of young women with breast cancer*”

[ANN PARTRIDGE]



Topic: Well-being for Breast Cancer Survivors

Would you recommend interrupting endocrine therapy now if she was 28 years old with a high likelihood of maintaining fertility for several more years?



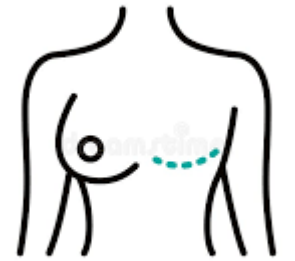
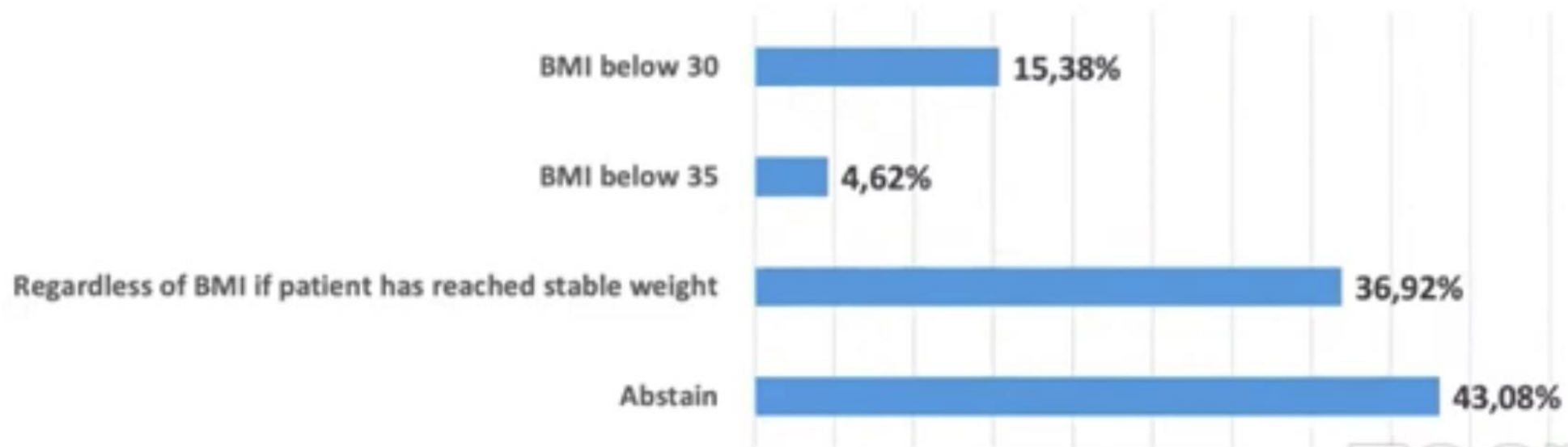
Oligometastatic disease

- ▶ A case was presented with a patient who has been diagnosed with ER negative HER2 positive breast cancer, and staging scans disclose a 4 cm tumor in the breast, positive axillary LN, and an isolated pulmonary nodule. With primary docetaxel-trastuzumab-pertuzumab combination therapy, a complete clinical response was achieved.
- ▶ The majority of the panelists would proceed with local therapy (in total 86 %), however, 10 % would perform surgery only, 8 % radiotherapy only, and 68 % would consequently do both surgery and radiotherapy

Breast Reconstruction

Topic: Breast Surgery

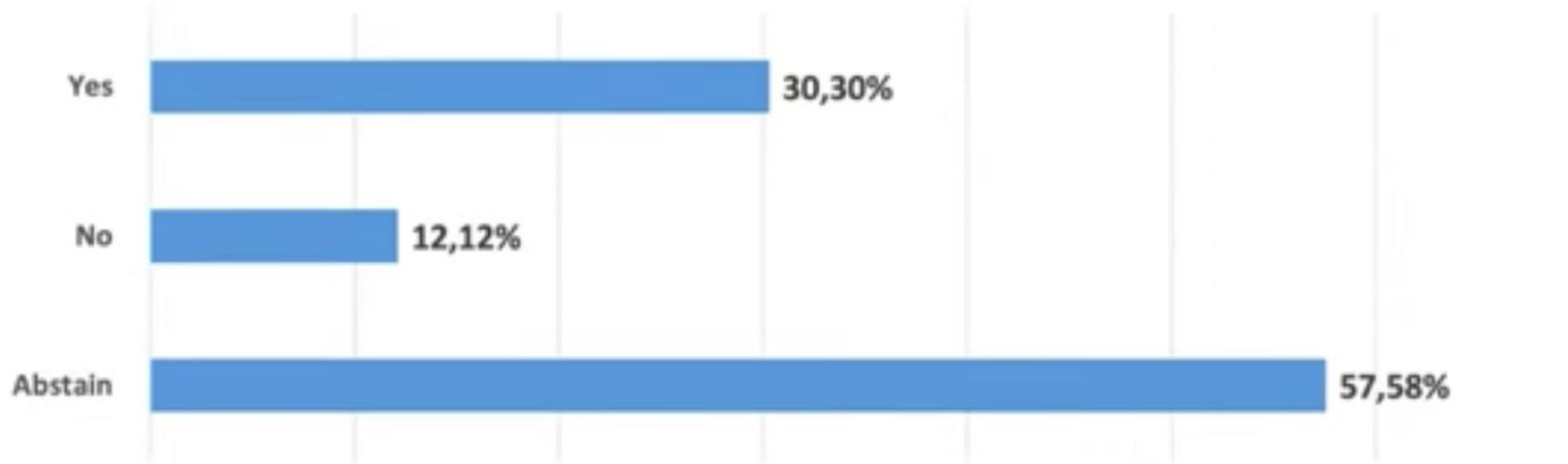
You are discussing mastectomy and reconstruction with an overweight patient. You would recommend reconstruction if the following BSA criteria are met:



Fat Injection

Topic: Breast Surgery

Can the use of fat stem cells in breast reconstruction meanwhile be considered safe?



Survivors

Topic: Well-being for Breast Cancer Survivors

Acupuncture should be considered a standard treatment option for breast cancer survivors and should be appropriately covered by insurance or national governments) to alleviate symptoms of arthralgias related to AI-based therapy and/or neuropathy related to chemotherapy



shutterstock.com · 1810393090


shutterstock.com · 1810393090

shutterstock.com · 1810393090

Telehealth

- ▶ the Panel discussed telehealth and virtual visits for the follow-up of breast cancer survivors: the majority use these tools only exceptionally (<10%: 60%), but a sizeable proportion has implemented them in their care routines (10-25%: 12%; >25%: 7%).
- ▶ In any case, the majority approved these methods “in addition to in-person follow-up” (69% Yes



- 
- ▶ The Panel did not recommend LYMPHA surgery as routine, but considered lymphatic surgery in general promising (64% Yes) for the treatment of clinically relevant lymphedema



ANY
QUESTIONS