

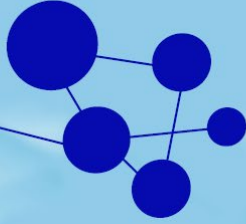
Con il Patrocinio di



Sistema Socio Sanitario
Regione Lombardia
ASST Sette Laghi
Polo Universitario



A.N.I.S.C.
Associazione Nazionale Italiana Senology Chirurghi



Convegno Nazionale Senonetwork: Incontro dei Centri di Senologia 9.0

VARESE
Venerdì, 23 Gennaio 2026

UNA HOTELS VARESE



I dati di EUBREAST

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Chairman of EUBREAST ETS www.eubreast.org



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OSPEDALE SAN RAFFAELE

EU-BREAST

EUropean **B**reast Cancer **RE**search
Association of **S**urgical **T**rialists



Purpose

- To promote international no-profit cooperation of independent academic breast cancer research
- Neutral scientific forum in which members can develop and carry out research projects
- Surgical treatment of BC is the main focus of the Association, especially with the aim of finding the best treatment with minor side effects
- To broaden collaboration with other scientific networks or entities
- Fundraising to support the activities within the purposes

A gap analysis of opportunities and priorities for breast surgical research

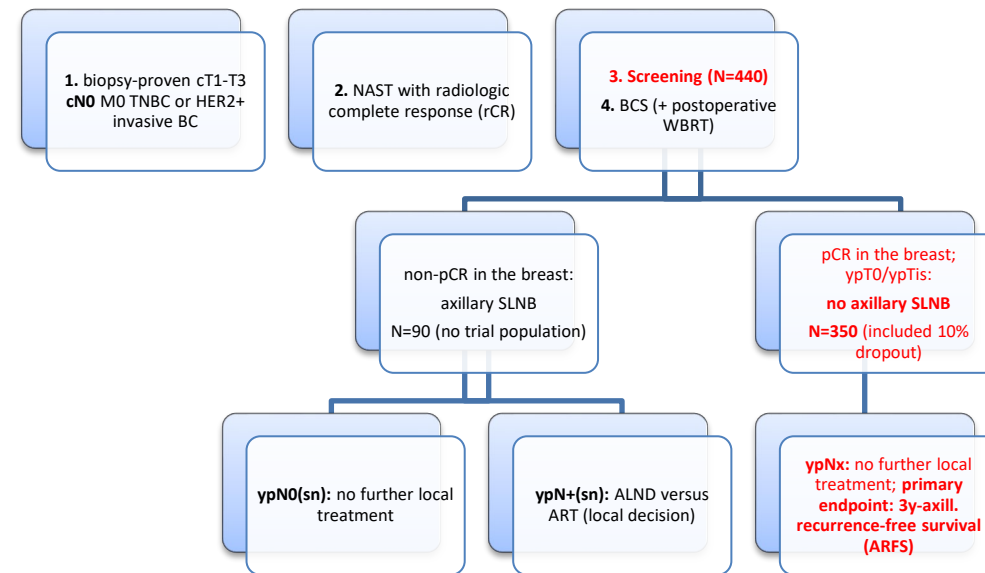
non-profit initiative EUBREAST European Breast Cancer Research Association of Surgical Trialists (EUBREAST) in September, 2018. EUBREAST offers an independent scientific forum for its members to

Breast Surgery, San Raffaele University and Research Hospital, 20132, Milano, Italy (ODG); Department of Molecular Medicine and Surgery, Karolinska Institutet, Stockholm, Sweden (JDB); Department of Surgery, Breast Unit, Goran's Hospital, Stockholm, Sweden (JDB); Department of Surgical Oncology, Institut de Cancerologie du Ouest, Nantes, France (J-MC);

EUBREAST-01 flow chart (Amendment #3)

N=350 per protocol
(31/Dec/2024: N=411 for screening)

↓ Study registration



EUBREAST-01 flow chart (Amendment #3)

N=350 per protocol
(31/Dec/2024: N=411 for screening)

↓ Study registration

**Primary and secondary
results? > expected for
January 2028**

More versus less invasive axillary surgical staging procedures in breast cancer patients converting from a clinically node-positive to a clinically node-negative stage through neoadjuvant chemotherapy - primary endpoint analysis of the international prospective multicenter AXSANA/EUBREAST 3(R) study

Kühn T^{1,2}, Banyas-Paluchowski M, Ditsch N, Stickeler E, Hauptmann M, Schroth J, Karadeniz Cakmak G, Hahn M, Thill M, Reimer T, Fröhlich S, Schmidt E, Lux MP, Kolberg HC, Rubio IT, Gasparri ML, Kontos M, Bonci EA, Niinikoski L, Murawa D, Pinto D, Peintinger F, Schlichting E, Nina H, Valiyeva Qanimat H, Vanhoeij M, Rebaza L, Aktas Sezen B, Jursik K, Kadayaprath G, Dostalek L, Kothari A, Perhavec A, Ivanov T, Zippel D, Thongvitokomarn S, Adamczyk B, Gurleyik MG, Watermann D, Porpiglia M, Grasshoff ST, Loibl S, Krug D, Lebeau A, Di Micco R, Gentilini OD, de Boniface J, Hartmann S and the AXSANA Study Group

¹ Department of Gynecology and Obstetrics, University of Ulm, Germany

² Breast Center, Die Filderklinik gGmbH, Filderstadt Germany

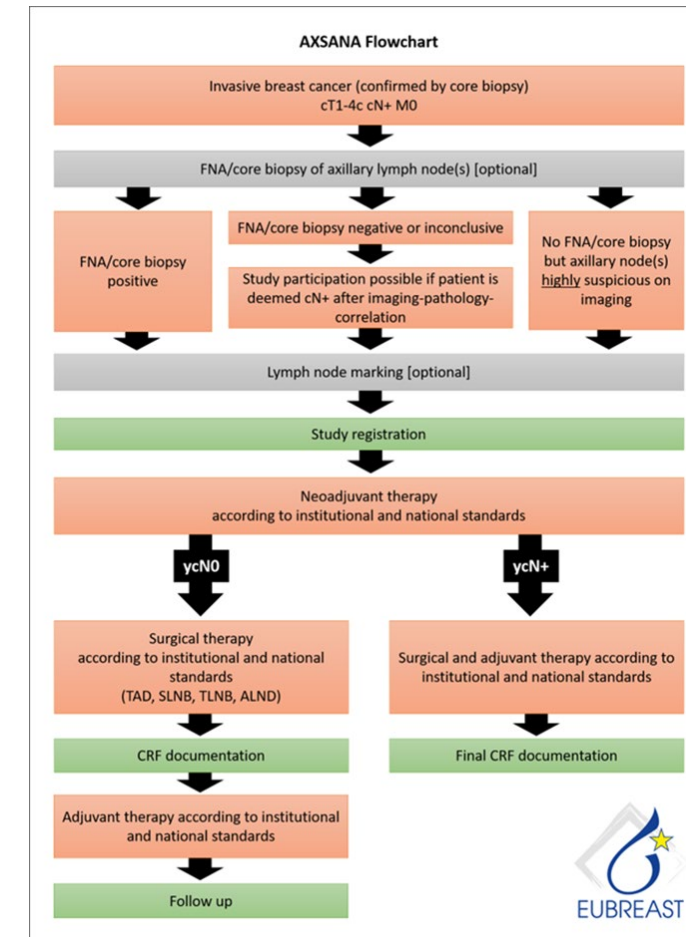


AXSANA Study

- Ongoing, international, multicentric, non-interventional prospective registry
- In cN+ \longrightarrow ycN0 treated with different staging procedures after NACT according to the physician`s choice (ALND/SLNB/TADTLNB)
- (Neo-) Adjuvant systemic and locoregional treatment according to institutional and national guidelines

Co primary endpoints

- Axillary recurrence-free survival
- Invasive breast cancer-specific disease-free survival
- QoL and arm morbidity



Aims of this analysis

The majority of axillary recurrences occur early

Assessment of

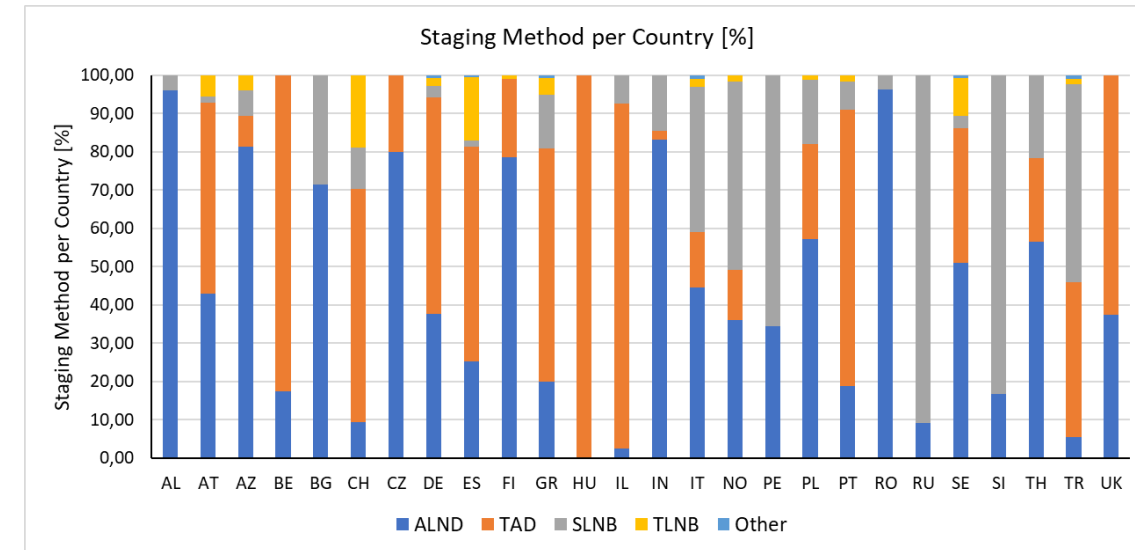
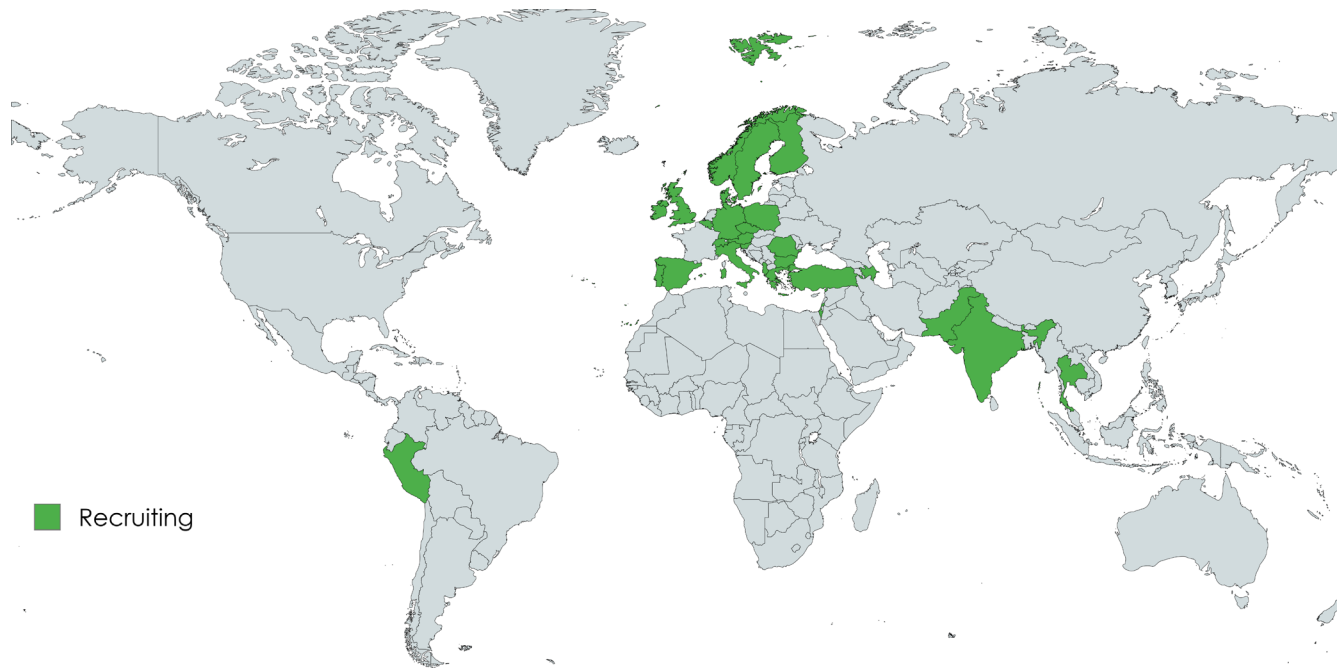
- 3-year axillary recurrence rates ALND vs less invasive procedures
- 3-year axillary recurrence rates SLNB vs TAD
- Local, regional, distant recurrences, and overall survival

Methods

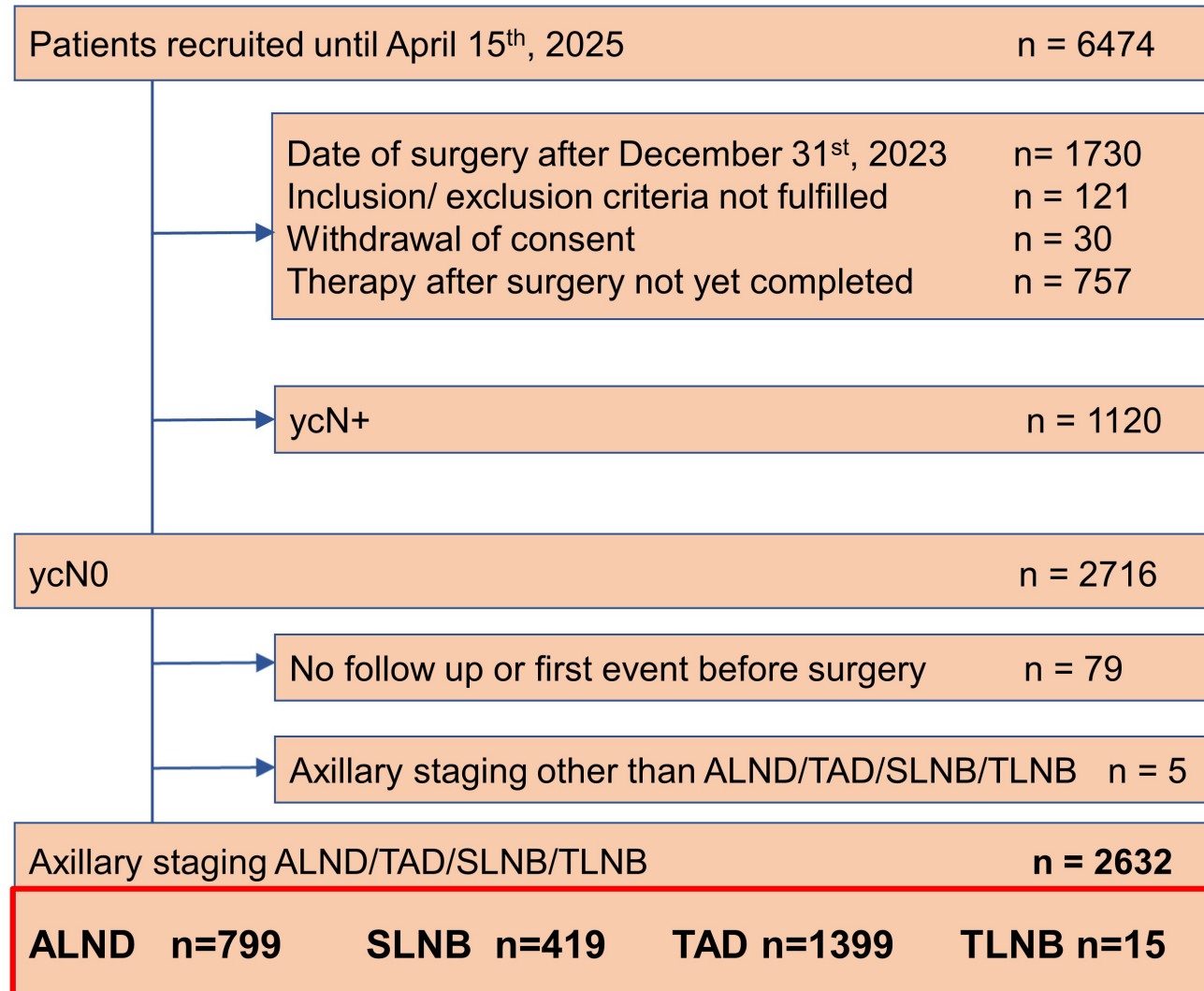
- Less invasive axillary staging (SLNB/TAD) is considered non-inferior to ALND at 3 years if axillary recurrence-free survival is above 97 % based on the lower bound of a one-sided 95% confidence interval
- Cox proportional hazards regression models were used to detect differences between the groups. Variables with at least one category with a p-value < 0.05 in univariate Cox models were included in the multivariate analyses
- Kaplan-Meier curves were generated and stratified by the axillary staging procedure
- 100 % of the datasets are monitored (>15.000 queries solved). Only complete datasets were used for analyses. Less than 6% of values were missing for any variable used in the analyses. Missing data were multiply imputed.

Trial Status

- The trial includes patients from 288 study sites
- 26 countries



Consort Diagramm



- ypN0 and ypN+ included
- Median Follow-up 2 years
- Range: 1.07 – 4.45 years
- 17.4 % with ≥ 3 years Follow-up
- Nodal pCR-Rate: 51.1 %

Regional treatment characteristics

Information on Radiotherapy (RT) available (N=2475) (aRT = axillary RT: Level I and II included in target volume)		Staging procedure			
		ALND (%)	TAD/SLNB (%)	TAD (%)	SLNB (%)
ypN0 (sn/tln) (n=1522)	aRT	232 (47.2)	548 (53.2)	380 (49.0)	168 (65.9)
	No aRT	260 (52.8)	482 (46.8)	395 (51.0)	87 (34.1)
ypN+ (sn/tln) (n=953)	cALND + aRT	171 (63.8)	287 (41.9)	219 (40.0)	68 (49.3)
	cALND, no aRT	97 (36.2)	179 (26.1)	151 (27.6)	28 (20.3)
	No cALND + aRT	-	160 (23.4)	124 (22.7)	36 (26.1)
	No cALND, no aRT	-	59 (8.6)	53 (9.7)	6 (4.3)

Patient characteristics ALND vs SLNB/TAD

Characteristic	Overall (n/%) (n = 2632)	ALND (n/%) (n = 799)	TAD/TLNB/SLNB (n/%) (n= 1833)	p-value
Clinical tumor stage at diagnosis				
cT1	1670 (63.4)	497 (62.2)	1173 (64.0)	<0.001
cT2	317 (12.0)	127 (15.9)	190 (10.4)	
cT3	65 (2.5)	44 (5.5)	21 (1.1)	
cT4				
580 (22.0)		131 (16.4)	449 (24.5)	
Number of suspicious nodes				
1-3	476 (18.2)	289 (36.6)	187 (10.3)	<0.001
≥ 4	2138 (81.8)	501 (63.4)	1637 (89.7)	
Median size of the largest suspicious node, mm (IQR)	17 (10)	18 (12)	16 (9)	<0.001
Type of breast surgery				
BCS	1732 (66.4)	427 (54.3)	1305 (71.6)	<0.001
Mastectomy	876 (33.6)	359 (45.7)	517 (28.4)	
Axillary Radiotherapy				
Yes	1406 (56.5)	403 (53.0)	1003 (58.0)	0.024
No	1084 (43.5)	357 (47.0)	727 (42.0)	
Tumor Stage after NACT				
ypN+	983 (37.4)	275 (34.4)	708 (38.6)	0.014
ypN0	1649 (62.6)	524 (65.6)	1124 (61.4)	

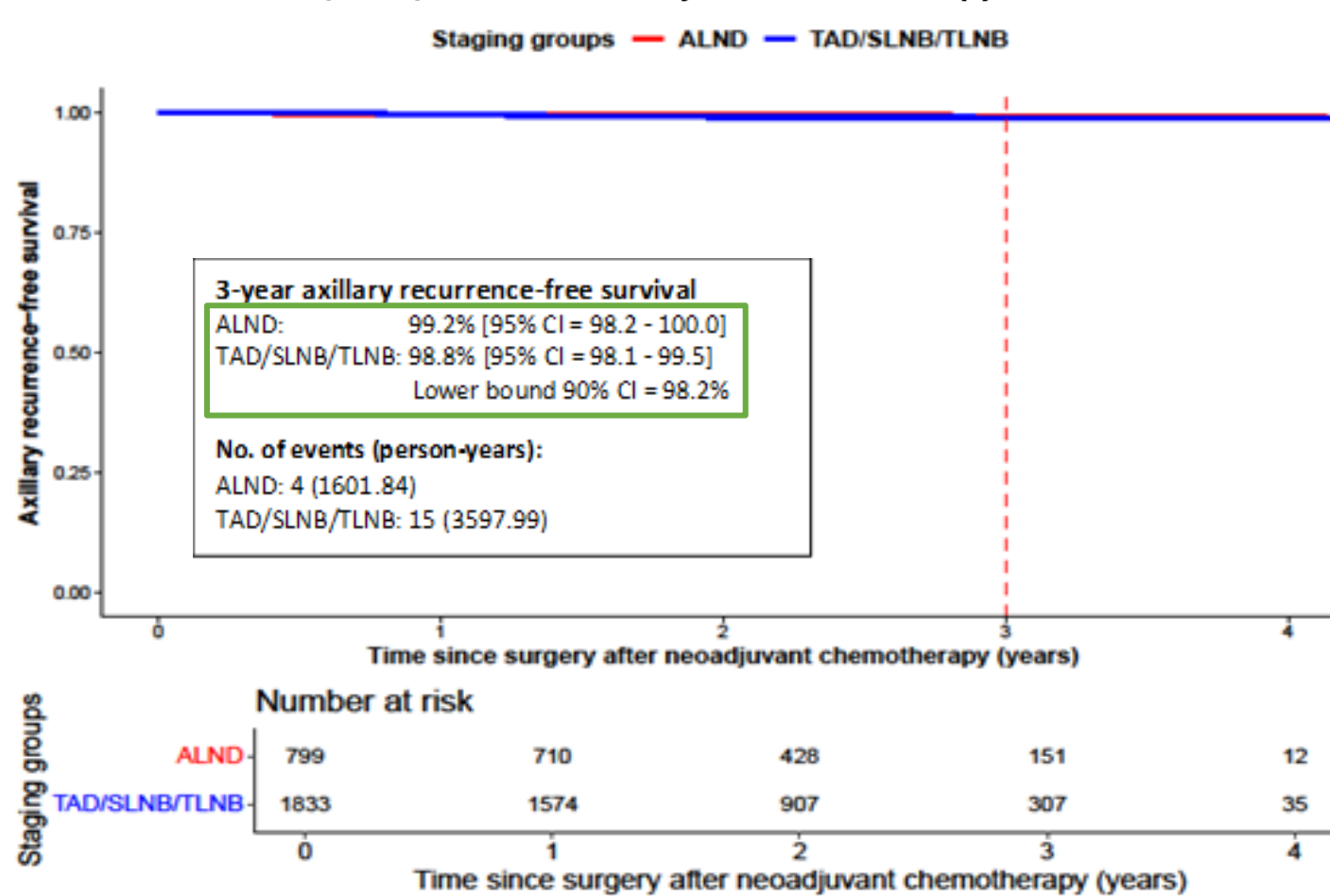
No significant differences

- Median age
- Tumor subtype, histological type, grading
- Breast pCR
- CHT regimen, breast/chest wall radiotherapy and adjuvant systemic therapy

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ALND vs TAD / SLNB / TLNB (3-year axillary disease-free survival) (unadjusted)

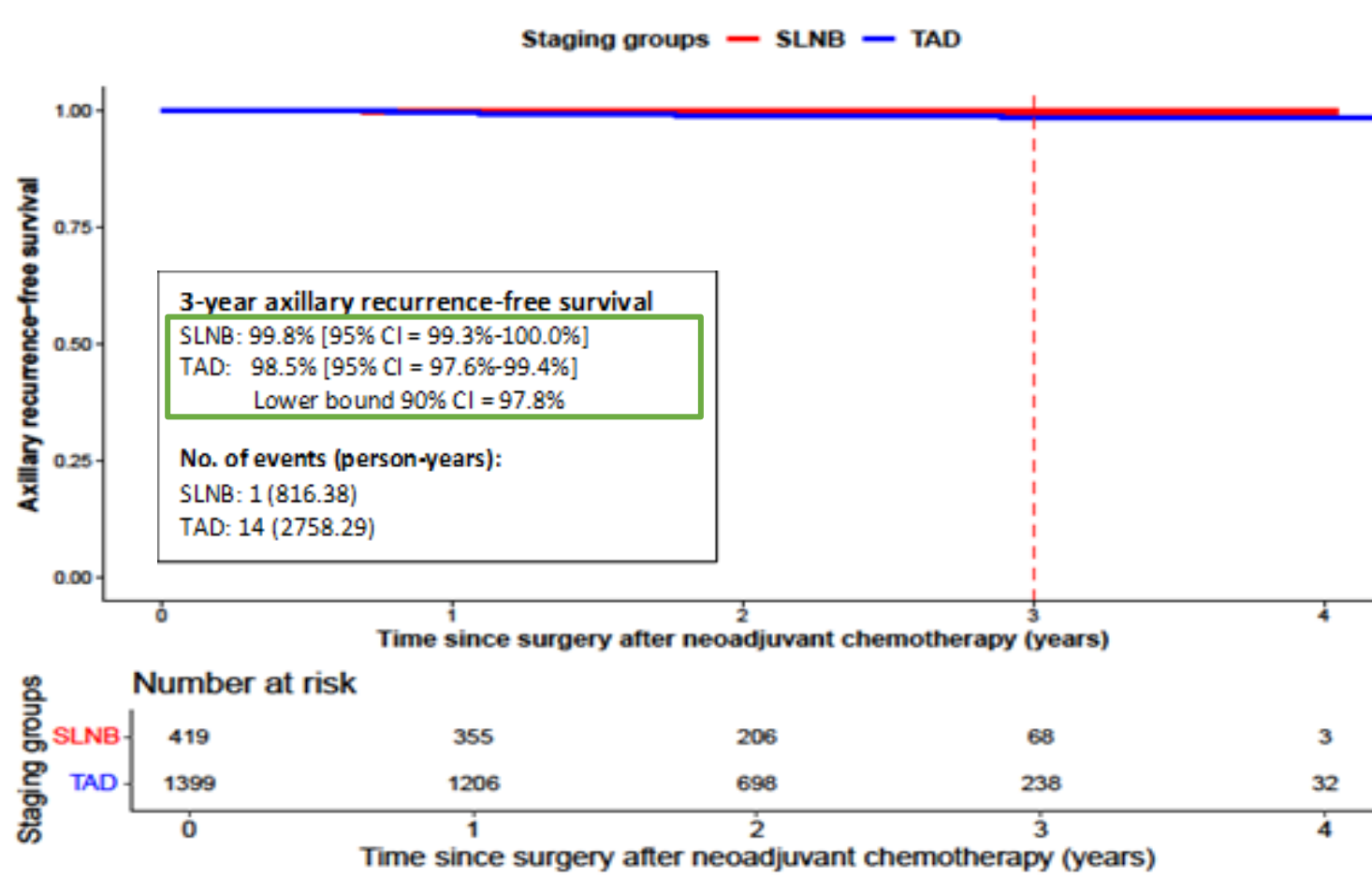
Axillary Recurrence-Free Survival in 2632 Patients with Initial Node-Positive Breast Cancer: ALND vs. TAD/SLNB/TLNB after Neoadjuvant Chemotherapy



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TAD vs SLNB (3-year axillary recurrence-free survival) (unadjusted)

Axillary Recurrence-Free Survival in 1818 Patients with Initial Node-Positive Breast Cancer: SLNB vs. TAD after Neoadjuvant Chemotherapy













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Conclusions

- The AXSANA study, a quality-assured, prospective, international, multicenter study reflecting real-world data, confirmed that axillary recurrence-free survival following TAD/SLNB is excellent and not inferior to ALND at 3 years
- No difference was observed between TAD and SLNB
- Findings were independent of the initial tumor stage or subtype
- Higher initial risk was associated with more distant events, but not with increased regional failures
- Less invasive staging procedures (TAD/SLNB) are safe concerning regional control for patients who convert from cN+ to ycN0
- Regional radiotherapy is currently heterogenous. More data to optimize and standardize target volumes are required.
- Further follow-up is needed to assess the effect of the staging accuracy of different procedures on BCSS

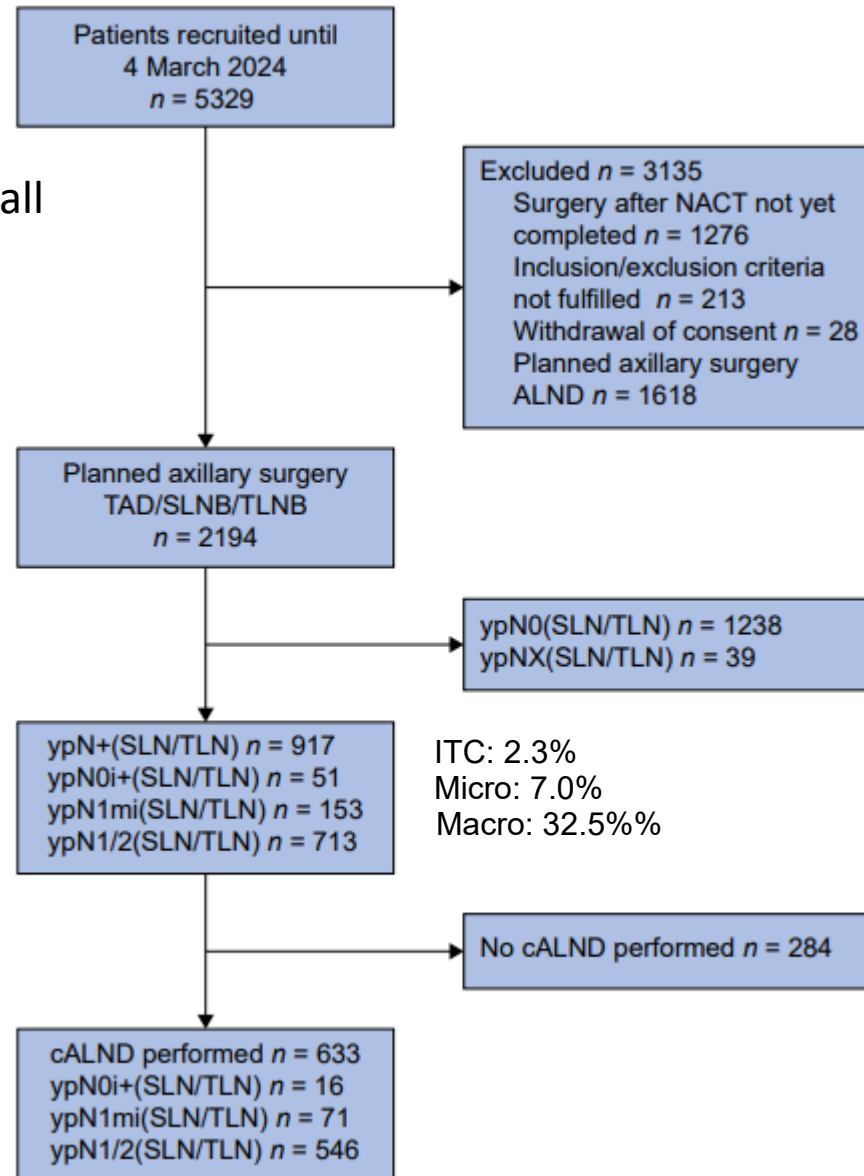
Low volume nodal involvement after neoadjuvant therapy

Axillary dissection for low-volume nodal involvement after neoadjuvant therapy in breast cancer: multicentre AXSANA cohort study

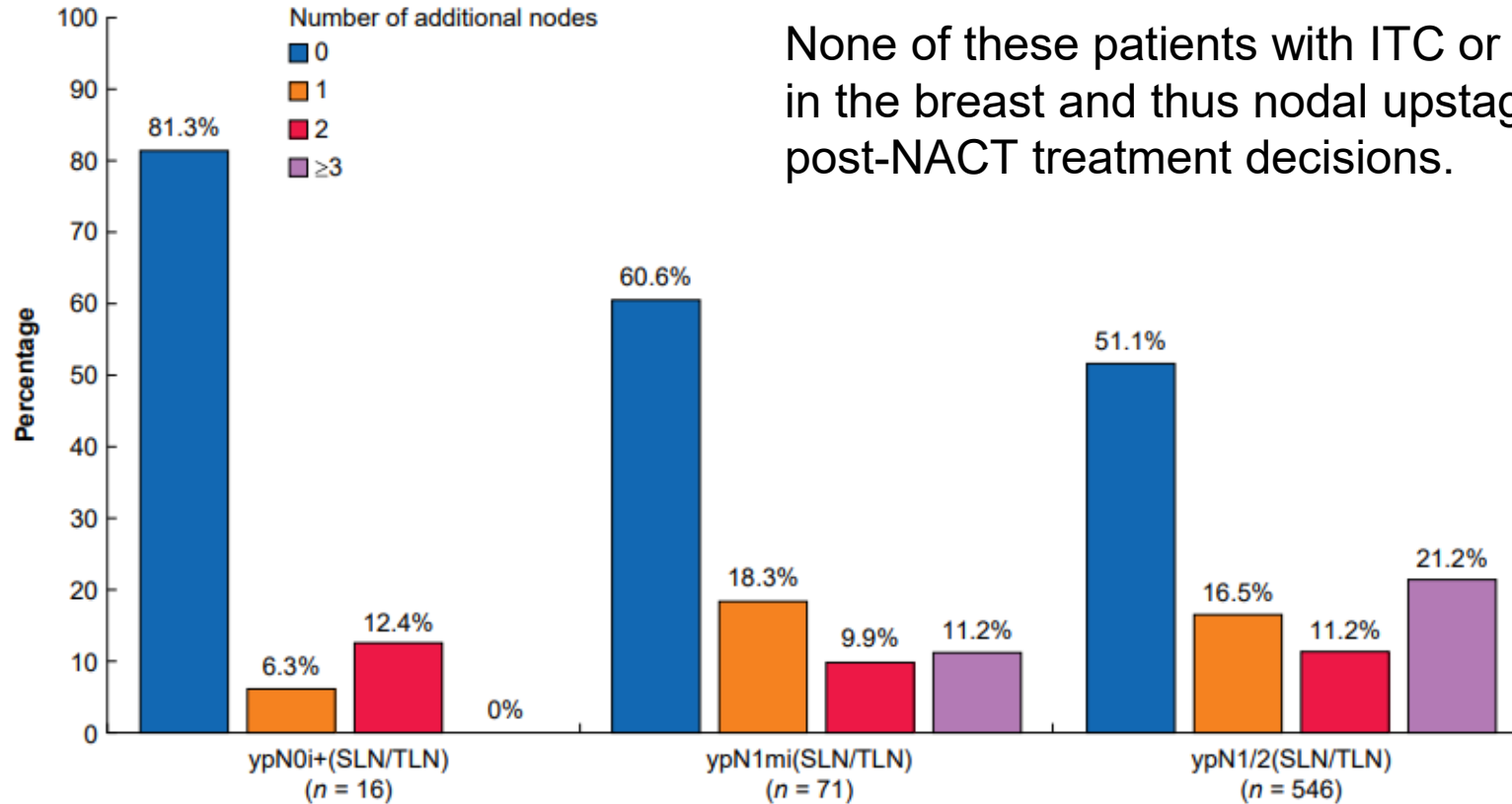
Thorsten Kühn^{1,2,*} , Maggie Banys-Paluchowski³, Nina Ditsch⁴, Elmar Stickeler⁵, Michael Hauptmann⁶ , Jennifer Schroth⁶, Guldeniz Karadeniz Cakmak⁷, Markus Hahn⁸, Marc Thill⁹, Toralf Reimer¹⁰, Sarah Fröhlich¹⁰, Esther Schmidt¹⁰, Kristina Wihlfahrt¹¹, Tomasz Berger¹², Timo Basali¹³, Franziska Ruf³, Angelika Rief¹⁴, Michael Patrick Lux^{15,16}, Hans-Christian Kolberg¹⁷ , Isabel Teresa Rubio¹⁸ , Maria Luisa Gasparri^{19,20} , Michalis Kontos²¹, Eduard-Alexandru Bonci^{22,23} , Laura Niinikoski²⁴ , Dawid Murawa^{25,26}, David Pinto²⁷, Florentia Peintinger^{14,28}, Ellen Schlichting²⁹, Helidon Nina³⁰, Hagigat Valiyeva Qanimat³¹, Marian Vanhoeij³², Lia Pamela Rebaza³³, Bilge Aktas Sezen³⁴, Katharina Jursik³⁴, Geeta Kadayaprath³⁵, Lukas Dostalek³⁶, Ashutosh Kothari³⁷ , Andraz Perhavec³⁸, Tsvetomir Ivanov³⁹, Douglas Zippel⁴⁰, Sarun Thongvitokomarn⁴¹, Meryem Gunay Gurleyik⁴², Dirk Watermann⁴³, Mauro Porpiglia⁴⁴, Annette Lebeau^{45,46}, Rosa Di Micco⁴⁷, Oreste Davide Gentilini^{47,48} , Jana de Boniface^{49,50} , Steffi Hartmann¹⁰ and the AXSANA Study Group

Low volume nodal involvement after neoadjuvant therapy

cALND was performed in 69.0% overall
 In 76.6% with macrometastases
 In 46.4% with micrometastases
 In 31.4% with ITCs



Low volume nodal involvement after neoadjuvant therapy



None of these patients with ITC or micromets had a pCR in the breast and thus nodal upstaging had no impact on post-NACT treatment decisions.

Fig. 2 Frequency and number of additional metastatic non-sentinel/non-target lymph nodes by cALND

cALND, completion axillary lymph node dissection; SLN, sentinel lymph node; TLN, target lymph node.

Low volume nodal involvement after neoadjuvant therapy



Conclusion: Despite substantial additional nodal involvement in low-volume SLN/TLN disease, cALND does not provide clinically meaningful information for post-NACT systemic treatment modifications and should not be encouraged for diagnostic purposes alone.



Low volume nodal involvement after neoadjuvant therapy




Implications for clinical management in routine practice:
consider to omit frozen sections of the sentinel node
and to make decision according to final pathology report on permanent sections.

Presenter's opinion



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Recruiting 

International Prospective REgistry on Pre-pectorAl Breast REconstruction (I-PREPARE)

ClinicalTrials.gov ID  NCT05817175

- PI: Oreste D.Gentilini
- Sponsor: EUBREAST ETS Italy

- I-PREPARE is an **international, multicentric, prospective** cohort study.
- The study started in 2023
- Study duration: 4 years (2y recruitment+ 2y follow-up)

Study Start (Actual) 


2023-10-16

Primary Completion (Estimated) 

2027-09-10

Study Completion (Estimated) 

2027-09-10

Enrollment (Estimated) 

1236

Study Type 

Observational

Primary endpoint

Implant-loss at three months: defined as the unplanned **removal or loss of the implant** as a **result** of infection or other complication.

Sample size calculation



We will use a **single-arm design** to assess the safety of PPBR based on the **primary outcome of implant loss rate at 3 months.**

It is expected that the **implant loss rate will be 9% or lower** based on previous literature (Potter S. et al.), **12% or greater will be regarded as unacceptably high.** The assessment will be based on 1,112 patients. For this sample size calculation, power was set to 90%, and the two-sided alpha was set to 0.05. Allowing for a 10% loss to follow-up at 3 months, we aim at recruiting **1.236 patients.**

A single interim analysis is pre-specified after two-thirds of enrolment (740 evaluable patients, 814 allowing for 10% loss to follow-up)

EUBREAST App

EUBREAST App

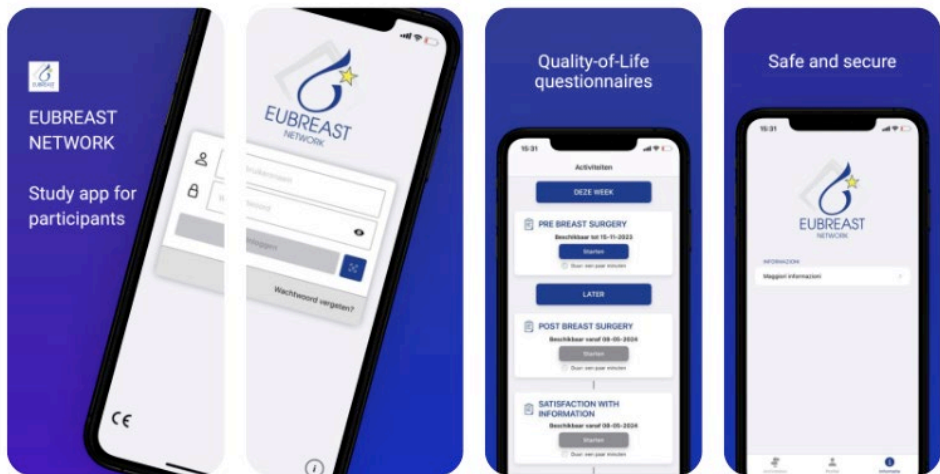
Physician Registration:

- **Inform** Patient about study and participation.
 - **Register** patients through a dedicated registration page.
- Generates a unique **QR code** for each patient.

Patient App Access:

- **Download** the EUBREAST App on Android or iOS.
- **QR code scan** for automatic, secure, and anonymous login.

baseline **questionnaire**



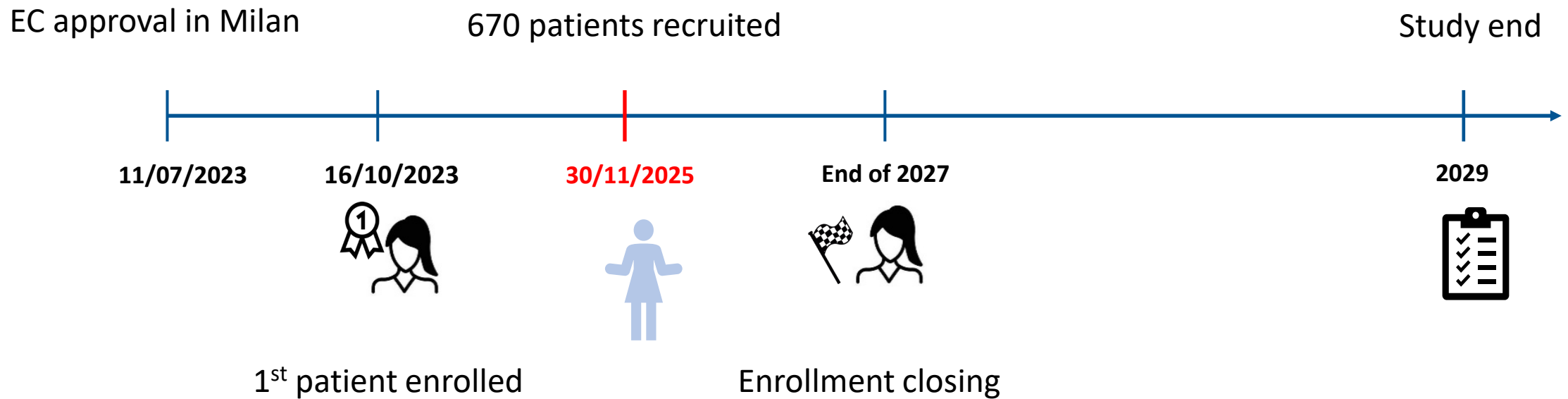
Specialism*

Treatmentdate

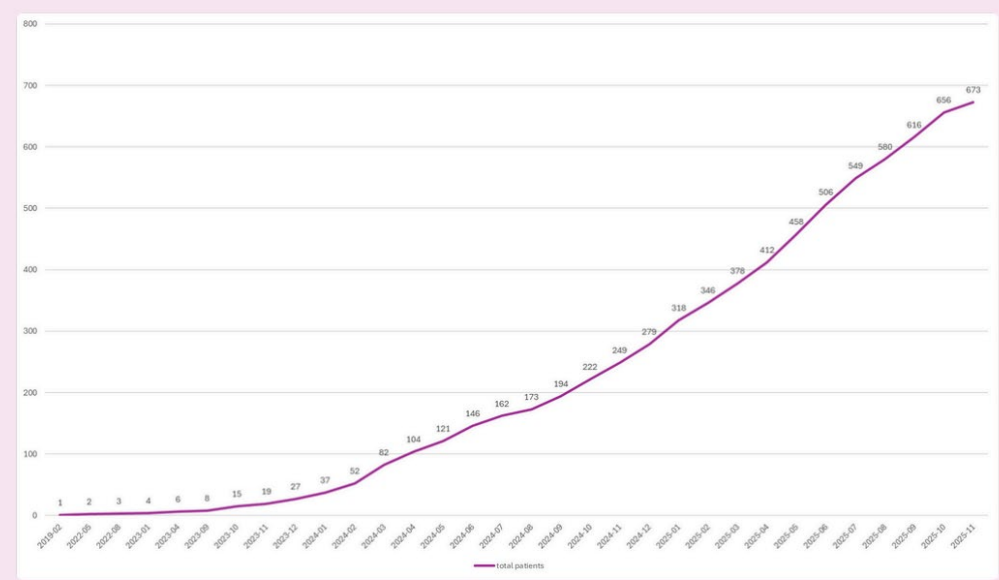
Patient identifier*

Hospital*
 ▼


Current status



28 centers are actively recruiting patients



Top recruiting centres

- 1 - IRCCS Ospedale San Raffaele, Milano (Italy) – 124 patients
- 2 - Fondazione Policlinico Universitario Agostino Gemelli, Roma (Italy) – 103 patients
- 3 - Ospedale Santa Chiara, Trento (Italy) – 46 patients
- 4 - Ospedale Fatebenefratelli Isola Tiberina, Roma (Italy) – 39 patients
- 5 - Oncology Clinic University Hospital, Zielona Gora (Poland) - 38 patients

Early results

Implant loss rate at 3 months was **2.4% (11/670)**



224 open study sites
27 countries
9562 patients

Country	Site count	Patient count
Germany	102	3120
Korea	23	1573
Turkey	27	995
Sweden	4	675
Denmark	3	513
Switzerland	14	449
France	4	332
Ireland	3	271
Portugal	1	228
Spain	4	224
Norway	3	212
Greece	7	156
Italy	3	140
Poland	1	130

Current Status 19.01.2026

Country	Site count	Patient count
UK	5	124
Pakistan	2	115
Argentina	2	81
Egypt	2	52
Peru	1	49
Austria	3	36
USA	3	31
Czech Republic	1	21
Andorra	1	16
Venezuela	2	15
Slovakia	1	4
Romania	1	0
South Africa	1	0

Localization Methods 15.01.2026

Localization method	Patient number
Wire	3965
Intraoperative Ultrasound	1623
Magseed Probe	335
Sirius Pintuition Probe	405
Savi Scout Probe	317
LOCALizer	143
Radioactive seed	725
ROLL	267
Carbon suspension	544
Luminolmager	598
Other	313

More than 15.000 patients entered EUBREAST trials in the last 5 years!



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Anything new for 2026?



**LIBRETTO: Peritumoral Lidocaine Injection in BREast cancer:
impact on Time TO recurrence and survival (EUBREAST-22)**

A prospective randomized phase III open-label multicenter study to evaluate the effect of preoperative peritumoral injection of local anesthetic lidocaine on recurrence risk and survival in early breast cancer (low intervention trial)

Sponsor:

EUBREAST e.V.
Baumreute 37
D-73730 Esslingen, Germany

Representative of Sponsor

Prof. Dr. med. Maggie Banys-Paluchowski
Universitätsklinikum Schleswig-Holstein
Klinik für Frauenheilkunde und Geburtshilfe
Ratzeburger Allee 160
23562 Lübeck, Germany



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LUNA trial

- Lobular breast cancer:
- Understanding the role of sentinel
- Node
- Assessment

Rationale

- **SLNB omission** is supported by SOUND and INSEMA trials for small, low-risk breast cancers
- **Invasive lobular carcinoma (ILC)** was underrepresented (8.6% and 12.7%) → surgeons' reluctance in omitting SLNB
- SLN metastases are **less detectable** on imaging in ILC → uncertainty regarding axillary de-escalation in this subtype

	FIRST PHASE	SECOND PHASE
Study Design	Retrospective multicenter study	Prospective multicenter study
Population	Patients with pT1N0 ILC who underwent SLNB	Patients with cT1N0 ILC undergoing SLNB
Data source	Merged prospective databases	Merged prospective databases
Period	January 2020 – December 2024	January 2027 – December 2029

LUNA trial

- Lobular breast cancer:
- Understanding the role of sentinel
- Node
- Assessment

***A retrospective study on
sentinel lymph node positivity
in invasive lobular breast
cancer***



Primary Endpoints

- Rate of SLN positivity in cT1/pT1 ILC
- Benchmark comparison: SOUND: 8.7% macrometastases INSEMA: 11.6% macrometastases

Secondary Endpoints

- Systemic treatment rates (chemotherapy, CDK4/6 inhibitors, ovarian suppression)
- Number of lymph nodes removed
- Associations between SLN involvement and Tumor biology, Clinical and imaging features
- Predictors of high axillary burden (>4 positive nodes)
- Multivariable analyses for SLN positivity AND Indication to chemotherapy

Tertiary Endpoint

- Development of a predictive algorithm integrating clinical, imaging, pathological, and genomic data to estimate nodal status in ILC

Sample Size:

- Expected SLN positivity: 12% → Unacceptable threshold: $\geq 15\%$
- One-sided $\alpha = 5\%$, power = 80% → Required sample size: **~800 patients**

Expected Impact

- Provide dedicated evidence on SLN positivity in ILC
- Assess whether SLNB omission can be safely extended to ILC
- Inform future guideline updates and support personalized axillary de-escalation strategies



International prospective registry on endoscopic nipple-sparing mastectomy