





EUROPEAN BREAST CANCER RESEARCH ASSOCIATION OF SURGICAL TRIALISTS

120P: AXSANA (AXillary Surgery After NeoAdjuvant Treatment) EUBREAST-3: an international prospective multicenter cohort study to evaluate different surgical methods of axillary staging in clinically node-positive breast cancer patients treated with neoadjuvant chemotherapy (NCT04373655)

Background

The surgical staging procedure of the axilla in patients who convert from clinically positive (cN+) to clinically negative node status (ycN0) through neoadjuvant chemotherapy is still controversial. Different techniques such as Axillary Lymph Node Dissection (ALND), Targeted Axillary Dissection (TAD), Target Lymph Node Biopsy (TLNB) and Sentinel Lymph Node Biopsy (SLNB) are recommended by the national and international guidelines. In case of TAD and TLNB, the target lymph node can be marked using such markers as clip/coi, carbon ink, magnetic or radioactive seed, or a radar or radiofrequency marker. The AXSANA study is aiming to compare outcomes and morbidity rates between different techniques and will hopefully contribute to defining the optimal axillary staging procedure resulting in high oncological safety and improved quality of life.

Methods

AXSANA is an international prospective, non-interventional cohort study including patients clinically node-positive and scheduled to receive neoadjuvant chemotherapy. The surgical staging procedure is performed according to the standard at their treating institution. Target accrual is 3000 patients.

Affiliations: (1) Department of Obstetrics, University Hospital Rostock, Klinikum Südstadt Rostock, Germany, (2) Department of Molecular Medicine and Surgery, Karolinska Institutet, Stockholm and Department of Surgery, Capio St. Göran's Hospital Aachen, Universitaetsklinikum Aachen, Universitaetsklinikum Aachen, Universitaetsklinikum Aachen, Universitaetsklinikum Aachen, General Surgery, Capio St. Göran's Hospital, Stockholm, Sweden, (7) Zonguldak BEUN The School of Medicine, General Surgery Department, Breast and Endocrine Unit, Kozlu/Zonguldak 67600, Bulent Ecevit University Medical School, Zonguldak, Turkey, (8) Breast Surgery Unit, Comprehensive Cancer Center, Helsinki, Helsinki, Helsinki, Helsinki, Helsinki, Helsinki, Helsinki, Helsinki, Finland, (10) 1st Department of Surgery, Laiko Hospital, National and Kapodistrian University of Zielona Gora, Zielona Go Gyniecological Oncology, "Iuliu Hatieganu" University of Medicine and Pharmacy, Cluj-Napoca, Romania, (13) Brandenburg Medical School Theodor Fontane, Institute of Biostatistics and Registry Research, Neuruppin, Germany, (14) Department of Gynecology and Gynecology and Gynecology, AGAPLESION Markus Krankenhaus, Frankfurt am Main, Agaplesion Markus Krankenhaus, Salzkotten, St. Universitätsfrauenklinik für Gynäkologie und Geburtshilfe, Frauenklinik St. Louise, Paderborn, St. Josefs-Krankenhaus, Salzkotten, St. Vincenz Kliniken, Paderborn, Germany, (17) Dept. of Molecular Medicine and Surgery, Karolinska Institutet, Stockholm, Karolinska Institutet, Huddinge, Sweden, (18) Department of Gynecology and Breast Cancer, Charité Universitätsmedizin Berlin, Germany, (19) Department of Gynecology and Breast Cancer, Charité Universitätsmedizin Berlin, Germany, (19) Department of Gynecology and Breast Cancer, Charité Universitätsmedizin Berlin, Germany, (19) Department of Gynecology and Breast Cancer, Charité Universitätsmedizin Berlin, Germany, (19) Department of Gynecology and Breast Cancer, Charité Universitätsmedizin Berlin, Germany, (19) Department of Gynecology and Breast Cancer, Charité Universitätsmedizin Berlin, Germany, (19) Department of Gynecology and Breast Cancer, Charité Universitätsmedizin Berlin, Germany, (19) Department of Gynecology and Breast Cancer, Charité Universitätsmedizin Berlin, Germany, (19) Department of Gynecology and Breast Cancer, Charité Universitätsmedizin Berlin, Germany, (19) Department of Gynecology and Breast Cancer, Charité Universitätsmedizin Berlin, Germany, (19) Department of Gynecology and Breast Cancer, Charité Universitätsmedizin Berlin, Germany, (19) Department of Gynecology and Breast Cancer, Charité Universitätsmedizin Berlin, Germany, (19) Department of Gynecology and Breast Cancer, Charité Universitätsmedizin Berlin, Germany, (19) Department of Gynecology and Breast Cancer, Charité Universitätsmedizin Berlin, Berlin, Germany, (19) Department of Gynecology and Breast Cancer, Charité Universitätsmedizin Berlin, Be Conflicts of interest: First author F. Ruf declares no conflicts of interest. Last author M. Banys-Paluchowski received honoraria for lectures and participation in advisory boards from: Roche, Novartis, Pfizer, Eli Lilly, Eisai, AstraZeneca, pfm, MSD, Amgen, GSK, Seagen, Daiichi Sankyo, Sirius Pintuition, Samsung

Mammotome.





F. Ruf (1), T. Kühn (2), S. Hartmann (3), J. de Boniface (4), O. Gentilini (5), E. Stickeler (6), G. Karadeniz Cakmak (7), I. Rubio (8), L. Niinikoski (9), M. Kontos (10), D. Murawa (11), E.-A. Bonci (12), M. Hauptmann (13), M. Thill (14), M. Hahn (15), M.P. Lux (16), M. Appelgren (17), J.-U. Blohmer (18), M. Untch (19), M. Banys-Paluchowski (1)



So far, 1819 (04/2022) patients from 21 countries were recruited and 53% converted to ycN0 status after NACT. In 43% of patients, the planned surgical staging procedure was TAD, followed by ALND (39%), SLNB (12%) and TLNB (1%). In 53% of enrolled patients, at least one node was marked before NACT, mostly using clips/coils (82%), carbon ink (9%), magnetic seeds (8%) and radar markers (1%).



Contact details: Franziska Ruf, Franziska.Ruf@uksh.de



endomag^v

/// MERIT/EDICAL

Results

Conclusions

The preliminary data show a strong heterogeneity regarding axillary staging among participating countries. After only 20 months of recruitment, over half of the target accrual (3000 patients) has been reached. TAD is a widely used technique, but ALND and SLNB are also common. The results of the AXSANA study will clarify whether de-escalation of axillary surgery is a safe option for patients converting from cN+ to ycN0 through neoadjuvant chemotherapy.

Acknowledgements

Editorial acknowledgement: Rosa Di Micco, San Raffaele Hospital Milan, Milano, Italy; Ellen Schlichting, Department for Breast and Endocrine Surgery, Oslo University Hospital, Oslo, Norway; Lia Pamela Rebaza, Unit of Basic and Transnational Reseach, Oncosalud-AUNA Clinic, Lima, Peru; David Pinto, MD; Breast Unit, Champalimaud Clinical Center, Champalimaud Foundation, Lisboa, Portugal; Prof. Florentia Peintinger, Medical University of Graz, Graz, Austria; Dr. Maria Luisa Gasparri, Department of Gynecology and Obstetrics, Ente Ospedaliero Cantonale, Ospedale Regionale di Lugano, Lugano, Switzerland and University of the Italian Switzerland (USI), Faculty of Biomedicine, Lugano, Switzerland; Dr. Hagigat Valiyeva; Oncology Clinc of Azerbaijan Medical University, Baku, Azerbaijan; Lukas Dostalek, MD, Gynecologic Oncology Center, Department of Obstetrics and Gynecology, First Faculty of Medicine, Charles University, General University Hospital, Prague, Czech Republic; Dr. Helidon Nina, University Medical Center "Mother Teresa", Tirana, Albania; Ass. Prof. Semra Gunay, Ministry of Health Istanbul Provincal Health Directorate, Prof. Dr. Cemil Tascioglu City Hospital, Istanbul, Turkey; Prof. Dr. Meryem Gunay Gurleyik, Ministry of Health Istanbul Provincial Health Directorate Istanbul Haydarpasa Numune Research and Training Hospital, Istanbul, Turkey; Dr. Elisabeth Thiemann, Brustzentrum Osnabrück, Niels-Stensen-Kliniken, Osnabrück, Germany; Dr. Gabriele Kaltenecker, Department of Obstetrics and Gynecology, Städtisches Klinikum Karlsruhe, Karlsruhe, Germany

Presented at ESMO Breast, Berlin 3-5 May 2022



