

<https://doi.org/10.29289/259453942024V34S2052>

## 28591 – EVALUATION OF THE PREDICTIVE ROLE OF TUMOR-INFILTRATING LYMPHOCYTES IN PATIENTS WITH HER-2 POSITIVE BREAST CANCER

Laís Lima Ferreira, Nathalia Cruz da Costa\*, Andréa Pires Souto Damin

**\*Corresponding author:** nathaliacosta@gmail.com

**Introduction:** The increase in pretreatment tumor-infiltrating lymphocytes (TILs) in patients with human epidermal growth factor receptor 2 (HER-2) positive breast cancer has been studied in recent years, showing a positive and independent association with future pathological complete response (pCR). **Methodology:** Histological slides of HER-2 positive breast tumors, stages II and III, between 2008 and 2019 were analyzed. Stromal TILs were assessed pre-NAC. TIL counts were performed according to the recommendations of the International TILs Working Group, divided into two categories: high infiltration  $\geq 30\%$  of the area infiltrated by lymphocytes; and low infiltration, or  $< 30\%$  of the area infiltrated. **Conclusion:** The possibility of predicting pathological complete response (pCR) based on immunological characteristics can assist in better classifying which breast cancer patients have a higher likelihood of response to neoadjuvant treatments.