



Obrazy w onkologii / Pictures in oncology

Breast invasive carcinoma with a choriocarcinomatous pattern

Joanna B. Wysocka¹, Joanna Lompart², Agnieszka Pietruszka², Mirosława Puskulluoglu², Aleksandra Grela-Wojewoda²

¹Departament of Tumour Pathology, Maria Sklodowska-Curie National Research Institute of Oncology, Krakow Branch, Krakow, Poland ²Department of Clinical Oncology, Maria Sklodowska-Curie National Research Institute of Oncology, Krakow Branch, Krakow, Poland

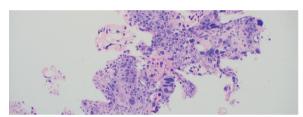


Figure 1. Core biopsy of breast carcinoma with a choriocarcinomatous pattern – both components of choriocarcinoma (cytotrophoblast-like and syncytiotrophoblast-like cells) are seen, staining H&E, x100 magnification

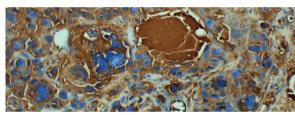


Figure 2. Core biopsy of breast carcinoma with choriocarcinomatous pattern – strong immunoreactivity for β -HCG in neoplasmatic cells, β -HCG immunostaining, x200 magnification

A 36-year old female was diagnosed with a breast infiltrating duct carcinoma, NOS, G2, luminal B HER2-neg, metastatic to the lymph nodes, lungs, liver and bones. She received ribociclib, fulvestrant and LHRH analog for 15 months with partial remission. For personal reasons the patient interrupted therapy for 4 months, but reported afterwards due to rapid progression. A core-biopsy revealed no presence of usual infiltrating duct carcinoma, but unequivocal choriocarcinomatous differentiation with mononuclear cytotrophoblast-like cells with hyperchromatic nuclei and multinucleated syncytiotrophoblast-like giant cells (fig. 1) and strong cytoplasmatic immunoreactivity for β-HCG (fig. 2). Pathologist suggested either a rare variant of invasive breast carcinoma with a choriocarcinomatous pattern or metastatic choriocarcinoma to the breast. Metastatic progression was seen; pregnancy, as well as primary choriocarcinoma were excluded; total

 β -HCG was 80,000 mU/ml. The patient received cisplatin plus etoposide with moderate clinical improvement and rapid decrease of β -HCG level. Invasive carcinoma of the breast with a choriocarcinomatous pattern is an extremely rare subtype of breast cancer listed in the WHO classification, with only few cases reported [1]. Systemic treatment was adjusted to the updated histopathological diagnosis. No optimal chemotherapy regimen is defined so far, and prognosis is unclear in advanced cases [3].

References

- WHO Classification of Tumours, Editorial Board. Breast Tumours, 5th edition. International Agency for Research on Cancer, Lyon 2019.
- Jun SY, Yoon N, An S, et al. Clinicopathologic and Molecular Characteristics of and Diagnostic Dilemmas in Invasive Breast Carcinoma with Choriocarcinomatous Pattern apropos a New Case: A Literature Review with New Findings. Pathobiology. 2022; 89(6): 359–369, doi: 10.1159/000522621.

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