

Date: 28.09.2024; 1403/07/07

Patient's Name: N.O

Responsible Physician: Dr.Bahar

Patient presentation: A 35-year-old woman with no family history of breast cancer is examined after palpation of the mass. In ultrasound, a dense breast with 1 mm mass and reactive lymph nodes on the right side is reported. The biopsy revealed IDC (ER: positive, PR: positive, HER-2: positive, Ki67: 30%). According to the MRI report of a 47 mm mass, the patient underwent NAC followed by surgery (Nipple sparing mastectomy and ALND, 4/8 involved Lymph nodes). The genetic test done, she has a germline mutation in P53.

Question:

Does she need post mastectomy radiotherapy?

Recommended plan:

- The probability of cancer following radiation therapy is 1/20000 according to the gene mutation. In this patient, according to the lymphatic involvement and the patient's age, the benefit of radiation therapy is more than its harm.

Breast Disease Research Center