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### Early diagnosis and treatment of breast cancer in Japanese kidney transplant recipients: A single center experience

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**Background:** The incidence of malignancies in kidney transplant recipients is increasing. Breast cancer is a common malignancy after kidney transplantation and can be more aggressive in kidney transplant recipients than in the general population. In this study, we evaluated the incidence and prognosis of breast cancer in kidney transplant recipients.

**Findings:** Between 1993 and 2013, 750 kidney transplant patients were followed-up at our center. Since 1999, annual physical examination, mammography, and breast ultrasonography have been performed for such patients. Diagnostic studies, including core needle or mamotome biopsy, were performed for suspected malignancies. Patients with malignant neoplasm were administered the appropriate treatment and followed-up to assess tumor response and symptoms. Nine patients were diagnosed with breast cancer during the follow-up period. The mean age at the initial detection of the breast cancer was  $47.7 \pm 8.4$  years. The mean interval from transplantation to diagnosis was  $148.7 \pm 37.1$  months. Of the 9 patients, 8 were detected through the screening test; 7 were treated with breast conservative surgery and 1 was treated with modified radical mastectomy. The cancer stages were 0 (n=2), I (n=6), and II (n=1). The incidence of breast cancer tended to be unchanged with time between transplantation and diagnosis, inconsistent with the increase in the duration of immunosuppression.

**Conclusion:** Annual screening tests are crucial in the early diagnosis of breast cancer. Early treatment of breast cancer can result in an excellent prognosis in kidney transplant recipients.

### Biography

Jun-ya Kaimori has completed his PhD from Osaka University and Postdoctoral studies from Johns Hopkins University School of Medicine. He is the Associate Professor of Department of Advanced Technology for Transplantation, Osaka University Graduate School of Medicine. He has published more than 25 papers in reputed journals of the broad fields including Nephrology, Genetics, immunology, and Radiology.

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