

## KSN 2017 Abstract

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### Pre-transplant Malignancy on Kidney Transplant Recipients is not associated to the Incidence of Post-transplant Malignancy

Tae hyun BAN<sup>1</sup>, Ji WON<sup>2</sup>, Byung ha CHUNG<sup>1</sup>, Bum soon CHOI<sup>1</sup>, Cheol whee PARK<sup>1</sup>, Yong-soo KIM<sup>1</sup>, \*Chul woo YANG<sup>1</sup>

<sup>1</sup>Transplant research center, Division of Nephrology, Department of Internal Medicine,, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea Seoul, Korea., Korea,South, <sup>2</sup>Transplant research center, Division of Nephrology, Department of Internal Medicine, Bucheon St. Mary's Hospital, College of Medicine, The Catholic University of Korea Seoul, Korea., Korea,South

**Objectives :** Incidence of malignancy in kidney transplant recipients (KTRs) is known to be higher than that of the general population. Recently, the ageing of the kidney transplant recipient population has lead to an increase in the number of KTRs who have had pre-transplant malignancies. However, there is no sufficient evidence on whether KTRs treated for pre-transplant malignancies are safe from cancer after KT. In this study, we investigated the development and features of post-transplant malignancies on KTRs with malignancies before kidney transplantation (KT).

**Methods :** We retrospectively reviewed all patients who underwent KT in our center between March, 1969 and November, 2016. The KTRs divided into two groups with and without pre-transplant malignancy (n=71 and n=2664, respectively). They were compared to patient and donor characteristics, type of malignancy, the incidence of recurrent cancer and de novo cancer, time interval between development of pre-transplant cancer and KT, and post-transplant patient survival were analyzed.

**Results :** A total number of KTRs with pre-transplant malignancy was 71 patients (2.6%). The most common type of pre-transplant malignancy was thyroid cancer (24.6%), followed by urologic malignancy (21.7%), gastric cancer (11.6%) and hematologic malignancies (11.6%). Three patients (4.2%) were diagnosed with malignancies in the post-transplant period in KTRs with pre-transplant malignancy. Among them, 2 patients presented with recurrent bladder cancer and one case with de novo colon cancer. The incidence of post-transplant malignancy between KTRs with and without pre-transplant malignancy was not a significant difference (n=3, 4.2% and n=201, 7.3%, respectively; p=0.29).

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**Conclusions :** In KTRs who were treated malignancies before KT, the risk of post-transplant malignancy did not increase. Regular surveillance of cancer after KT in KTRs with pre-transplant malignancy is comparably recommended with KTRs without pre-transplant malignancy.

**Keywords :** Kidney transplantation, malignancy, cancer