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### **A case of metastatic renal cell carcinoma with intramuscular mass on the forearm**

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Renal cell carcinoma (RCC) is a rare cancer with 2.3% of occurrence in Korea. The cutaneous metastasis occurs in 3.3% RCC patients. After diagnosis, additional metastasis is found at about 90%, and the mean survival duration is 10.9 months. Cutaneous metastases of RCC present as erythematous or reddish purple round nodules of varying sizes with rapid growth.

A 88-year-old male presented with a solitary, well-demarcated, slowly growing, 2.5 x 2.0cm sized, deep-seated firm mass on the left flexor forearm since 3 years ago. Ultrasonography revealed extremely hypervascular mass with rich supplying vessels. Magnetic resonance imaging revealed 1.6 x 1.6 x 3.3cm sized, high T2-weighted signal intensity mass with internal septa at brachioradialis muscle. On the basis of histopathologic examination, atypical, pleomorphic, oval to spindle-shaped nuclei, clear with abundant cytoplasm with alveolar pattern were observed within unencapsulated, lobulated mass. In immunohistochemical analysis, tumor cells were positive for PAX8, CD10, CK, EMA and Vimentin. Ultrasonography on urinary tract revealed a lesion suspected of RCC, thought to be primary tumor. The patients transferred to another hospital without further evaluation.

The patient showed a peculiar clinical symptom, and the primary tumor was diagnosed from the metastatic lesion. Thus, we report rare case with a metastatic RCC with intramuscular mass on forearm.

### **Biography**

Choi Yeon Gu graduated School of Medicine, Yonsei University. He has worked as resident in Kangbuk samsung hospital, Sungkyunkwan University School of Medicine, Department of Dermatology since 2019

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