

**PP22**

**TWO CASES OF BILATERAL MUCINOUS TUBULAR AND SPINDLE CELL CARCINOMAS**

S. Davies<sup>1</sup>, F. Maclean<sup>2</sup>

<sup>1</sup> University of Sydney, Sydney, Australia

<sup>2</sup> Douglass Hanly Moir, Sydney, Australia

Renal cell carcinoma (RCC) is the most common primary tumour of the kidney with multiple histological subsets. One of the relatively new subsets is a mucinous tubular and spindle cell carcinoma (MTSCC), which was first described in 1998. MTSCC was classified as a variant of renal cell carcinoma in the classification of World Health Organisation in 2004<sup>1 2</sup>. Currently, there are approximately 100 cases of MTSCC reported in the literature<sup>3</sup>. It is rare, unique polymorphous tumour of the kidney with a relatively indolent behaviour. MTSCC occurs throughout life (age range: 17-82 years) and is more frequent in females.

Histologically, this tumour is characterized by an admixture of small, elongated tightly packed tubules and spindle cells that are present in a mucinous background<sup>4</sup>. They have components involving mucin, tumor cells forming tubules, and spindle cells and resemble papillary RCC. However, chromosome 7 and 17 defects and chromosome Y deletion, typical of papillary RCC, are not observed in MTSCC<sup>5</sup>. The tumour is considered to be a low- grade carcinoma with a favorable prognosis.

MTSCC usually presents as a solitary unilateral tumor. There is only one previous case report in the literature that describes a bilateral MTSCC presentation. This poster presentation will outline two bilateral MTSCC.

1. Kuroda N, Toi M, Hiroi M, Shuin T, Enzan H. Review of mucinous tubular and spindle-cell carcinoma of the kidney with a focus on clinical and pathobiological aspects. *Histological Histopathology*. 2005;20(1):221-224.
2. Yang G, Breyer B, Weiss D, MacLennan G. Mucinous tubular and spindle cell carcinoma of the kidney. *Journal of Urology*. 2010;183(2):738-739.
3. Dhillon J, Amin M, Selbs E, Turi G, Paner G, Reuter V. Mucinous tubular and spindle cell carcinoma of the kidney with sarcomatoid change. *American Journal of Surgical Pathology*. 2009;33:449.
4. Kato M, Soga N, Arima K, Sugimura Y. A case of renal mucinous tubular and spindle cell carcinoma. *International Journal of Urology*. 2009;16(8):699-701.
5. Hussain M, Din N, Azam M, Loya A. Mucinous tubular and spindle cell carcinoma of kidney: A clinicopathologic study of six cases. *Indian Journal of Pathology and Microbiology*. 2012:439.