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Reappraisal of Morphologic Differences Between Renal Medullary Carcinoma, Collecting Duct Carcinoma, and Fumarate Hydratase– deficient Renal Cell Carcinoma

Chisato Ohe;Steven Smith;Deepika Sirohi;Mukul Divatia;Mariza de Peralta-Venturina;Gladell Paner;Abbas Agaimy;Mitual Amin;Pedram Argani;Ying-Bei Chen;Liang Cheng;Maurizio Colecchia;Eva Compérat;Isabela Werneck da Cunha;Jonathan Epstein;Anthony Gill;Ondřej Hes;Michelle Hirsch;Wolfram Jochum;Lakshmi Kunju;Fiona Maclean;Cristina Magi-Galluzzi;Jesse McKenney;Rohit Mehra;Gabriella Nesi;Adeboye Osunkoya;Maria Picken;Priya Rao;Victor Reuter;Paulo de Oliveira Salles;Luciana Schultz;Satish Tickoo;Scott Tomlins;Kiril Trpkov;Mahul Amin;

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Abstract

Renal medullary carcinomas (RMCs) and collecting duct carcinomas (CDCs) are rare subsets of lethal high-stage, high-grade distal medullary region. Recent findings have established an emerging reliable ancillary testing has enabled consistent separation between these tumor types. Here, we present the clinicopathologic CDC, and FH-deficient RCC in consequence of these recent (SMARCB1/INI1-retained), and 29 RCCs defined by the FH-deficient phenotype (FH-/2SC+ or FH±/2SC+ with FH mutation, regardless of between the morphologic patterns present in the 3 groups were different overlapping morphologic patterns, sieve-like/cribriform and reticular/yolk sac tumor-like patterns favored RMCs, whereas intracystic papillary and tubulocystic patterns favored FH-deficient RCC. The tubulopapillary pattern favored both CDCs and FHfavored CDCs. Infiltrating glandular and solid sheets/cords/nested inclusion-like macronucleoli, considered as a hallmark of HLRCC-RCCs, were observed significantly more frequently in FH-deficient clinically aggressive infiltrating high-grade adenocarcinomas of the

kidney, reproducible differences in morphology emerged between these categories after rigorous characterization. Finally, we recommend that definitive diagnosis of CDC should only be made if RMC and FH-deficient RCC are excluded.

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