

**Time:** 1:48:00 PM - 1:54:00 PM

**Presenter:** Gory Ballester, MD

**Title of Abstract:** **Scoring and Staging of Renal Cell Cancers: The role of CT and MR**

**Institution:** The University of Texas MD Anderson Cancer Center

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**Modality:** Multi

**Organ System:** GU

**Scientific and/or Clinical Significance?** Imaging plays a critical role in the detection and characterization of renal cancer. Once the cancer is diagnosed imaging also plays a critical role in treatment planning. The clinical decision on which treatment modality should be used in each patient is based on the tumor stage and tumor score.

**Relationship to existing work** This is a review of existing staging and scores for renal cell carcinoma.

**Purpose** Imaging plays a critical role in the detection and characterization of renal cancer. Once the cancer is diagnosed imaging also plays a critical role in treatment planning. The clinical decision on which treatment modality should be used in each patient is based on the tumor stage and tumor score. The most common tumor staging system for renal cancer is the TNM staging. The scoring system is used for surgically planning and is based on the relationship of the tumor to the kidney and collecting system. There are multiple scoring systems for renal cancer: R.E.N.A.L., PADUA, and Centrality index. With the assistance of CT and MR images, this exhibit will present the tumor-node-metastasis (TNM) staging system and compare the various scoring systems for renal cancer. **Content Organization** - Presentation of imaging techniques with MDCT and MRI for the evaluation of patients with renal cancer. - Presentation of the TNM staging and various scoring systems for patients with renal cancer. - Presentation of the role of TNM staging and renal cancer scoring systems on treatment options. - Presentation of CT and MR imaging to illustrate the role of imaging in the staging and scoring for patients with renal cancer. - Summarize the key concepts and itemize the essential components of the for radiology report in patients with renal cancer. **Major Teaching Points** - TNM staging and scoring system for patients with renal cancer are important in the prognosis and the critical decision on the selection of treatment options for patients with renal cancer. - CT and MR play a central role in the diagnosis, staging and scoring of patient with renal cancer. - The radiology report should be complete and include critical information to properly stage and score patients with renal cell cancer.