

Poster #: 45

Title of Abstract: Spectrum of CT and MR imaging findings following percutaneous thermal ablation of renal tumors: What to look for

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Modality: Multi

Organ System: GU

Intro: N/A

Purpose: N/A

Methods Used: N/A

Results of Abstract: N/A

Abstract:

Discussion: N/A

Scientific and/or Clinical Significance? N/A

Relationship to existing work N/A

Purpose: Given the increasing use of percutaneous radiofrequency and cryoablation for treatment of renal tumors, thorough knowledge of post ablation imaging findings is necessary to increase diagnostic accuracy. This exhibit reviews the spectrum of CT and MR imaging findings, including complications, which may be seen during the immediate post ablation period and follow-up surveillance imaging.

Content Organization: 1. Immediate and evolving post ablation CT and MR findings following completely treated renal tumors, including characteristic bull's-eye appearance on follow-up MR imaging. 2. Appearance of residual or recurrent tumor, with discussion of potential pitfalls and the role of subtraction MR imaging. 3. Discussion of immediate and remote post ablation complications, including hematoma, urinoma, bowel perforation, pneumothorax, ureteral stricture, and renocolic fistula, with consideration of anatomic proximity of vulnerable structures to the kidney. **Major Teaching Points:** CT and MR imaging are essential for evaluation of the ablation zone following percutaneous thermal ablation of renal tumors. A thorough knowledge of characteristic findings is necessary to differentiate between post ablation processes and improve diagnostic accuracy. Upon review of this exhibit, the viewer will be able to recognize the array of CT and MR imaging findings at several intervals following thermal ablation. The viewer will become familiar with the characteristic appearances of completely and incompletely (residual or recurrent) treated tumors, as well as immediate and remote complications.