

**Poster #:** 22

**Title of** Utility of Gd-EOB-DTPA in the Non-cirrhotic Patient: Pearls and Pitfalls

**Abstract:**

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**Modality:** MR

**Organ System:** GI

**Intro:** N/A

**Purpose:** N/A

**Methods Used:** N/A

**Results of** N/A

**Abstract:**

**Discussion:** N/A

**Scientific and/or Clinical Significance?** This educational poster will provide the reader with clinical pearls related to the interpretation of dynamic contrast enhanced liver MRI using Gd-EOB-DTPA.

**Relationship to existing work** There has been extensive scholarly work investigating the applications of Gd-EOB-DTPA for hepatic and biliary tree imaging

**PURPOSE/AIM:** 1. Review the mechanism of action of Gd-EOB-DTPA, including unique imaging characteristics 2. Highlight the role of Gd-EOB-DTPA for hepatobiliary imaging in the non-cirrhotic patient population using case examples 3. Illustrate challenging cases in non-cirrhotic patients, where the use of Gd-EOB-DTPA may complicate interpretation relative to traditional extracellular contrast agents **CONTENT ORGANIZATION:** 1. Background – Liver imaging with Gd-EOB-DTPA versus traditional extracellular contrast agents 2. Review indications for using Gd-EOB-DTPA in the non-cirrhotic patient, including the role of hepatobiliary phase imaging for liver lesion characterization and biliary imaging. 3. Demonstrate the Gd-EOB-DTPA imaging findings of common and unusual liver lesions in the non-cirrhotic population, including metastasis, focal nodular hyperplasia, hepatic adenoma, hemangioma, hepatic cyst. 4. Highlight common pitfalls of Gd-EOB-DTPA use in the non-cirrhotic liver with case examples, such as slow filling hemangioma and cholangiocarcinoma. **SUMMARY AND MAJOR TEACHING POINTS:** Liver imaging with Gd-EOB-DTPA offers several benefits versus traditional extracellular contrast agents. However, there are unique technical and interpretive challenges posed by this contrast agent of which the radiologist should be aware. Through case examples, the practicing radiologist will become more familiar with Gd-EOB-DTPA, including benefits and drawbacks for hepatobiliary imaging in the non-cirrhotic patient.