

## Benign Cystic Lesions of the Ovary: Diagnosis with MR Imaging

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### Purpose:

1. To review the benign cystic lesions found within the ovary.
2. To illustrate the MR imaging features of benign ovarian cystic lesions.
3. To review signs of malignancy within ovarian cysts on MR imaging.
4. To correlate MRI findings with findings on other imaging modalities.

### Outline of Content:

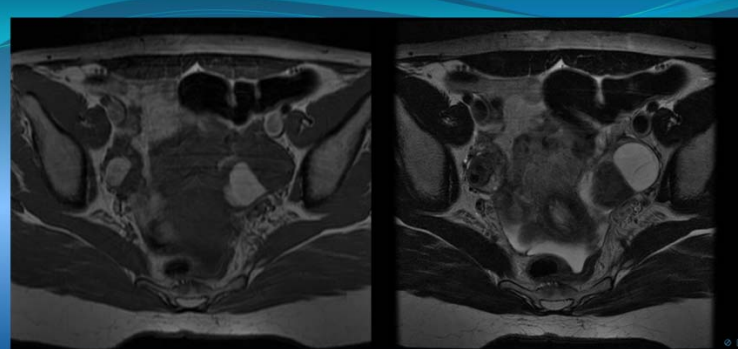
1. MR images will be used to review and illustrate features of benign ovarian cystic lesions including:
  - Follicular cysts.
  - Corpus luteum cysts.
  - Endometrioid cysts.
  - Dermoid cysts.
  - Ovarian cystadenomas.
2. Signs of malignancy within ovarian cysts will be discussed and illustrated using MR images.

### Summary:

There are many benign cystic lesions of the ovary. These include physiologic cysts and benign ovarian tumors. Some benign ovarian cysts may have indeterminate appearances on ultrasound. Recognition of benign lesions on MR can prevent unnecessary invasive testing in patients with indeterminate lesions on ultrasound. At the conclusion of the presentation, the reader will have a better understanding of the MR appearance of benign ovarian cysts. MR findings concerning for malignancy within ovarian cysts will also be reviewed.



The right ovary contains two cystic structures. The posterior structure demonstrates fat signal intensity, and likely represents a mature cystic teratoma. The anterior structure contains fluid signal with a component suggestive of blood products, and likely represents a hemorrhagic cyst.



Bilateral adnexal cystic structures demonstrate hyperintensity on T1-weighted images with shading and significant loss of signal intensity on T2-weighted images. These structures are consistent with endometriomas.