Endometriosis – Spectrum of MRI Appearances

• Differential Diagnosis
• Invasive Endometriosis

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MRI Features of Endometriosis

- **Hyperconcentrated Blood**
  - Intense T1 signal
  - Decreased T2 signal ("shading")

- Irregular edges

- Multiplicity

- Scarring, proliferative response
Endometriosis

T2-FSE

T1-SE

T1 FatSat
Adenomyosis
Invasive Endometriosis
Endometriosis
7-year interval
42 y.o. with Hematuria

Sag T2

* = Uterus

Carolyn Reinhold, MD; McGill
42 y.o. with hematuria
1. Endometriosis is common, and best evaluated by MRI.

2. Endometriomas are not cysts; they are collections of hyperconcentrated blood.

3. Invasive endometriosis results when endometrial implants incite a proliferative response, similar to adenomyosis.