Case of the Week

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Disclosure

Consultant for Blue Earth Diagnostics, Inc., who market fluciclovine (FACBC) as Auxumin

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Case Presentation

• 81 yr male.
• PSA 15.57
• Clinical question: dysuria
• Complicating factor: unilateral hip replacement
T2-Weighted Imaging: Staging
Invasive = Category 5
Diffusion-weighted Imaging

Category: X (cannot evaluate)
Dynamic Contrast Enhancement: +

- T2 axial
- DCE axial
- DCE Sub
Overall PI-RADS Assessment
Use T2WI & DCE since no DWI
Satisfaction of search?

T2W axial

b1400 axial

ADC axial

T2W axial

ADC cor

DCE axial
DCE to the Rescue!
Contrast-Enhanced MRI

- Susceptibility artifact from hip replacement
- DWI failed
- T2 category 5 = overall category 5
- DCE confirms but does not modify suspicion level
- Bone lesion without enhancement likely benign
Teaching Points

• Susceptibility from hip replacement despite 1.5 T
• When DWI fails, use T2 and DCE for PZ
• DCE can be helpful when DWI fails
• Beware satisfaction of search
• DCE or subtractions can be helpful for bones, too
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