



## Rad to Rad Learning: Osteomyelitis

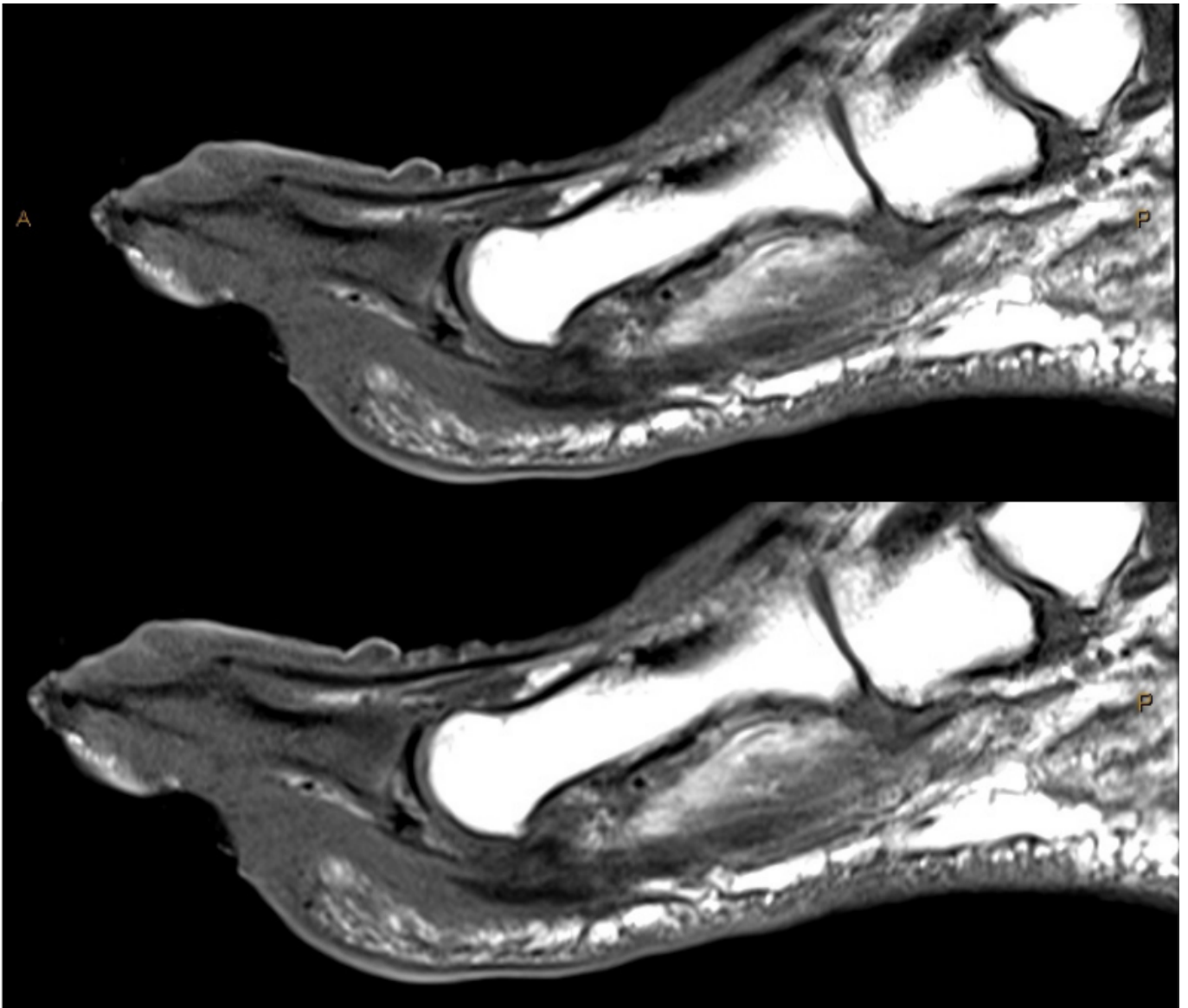
The Radiology Partners (RP) MSK National Subspecialty Division (NSD) presents our newest Rad to Rad Learning case.

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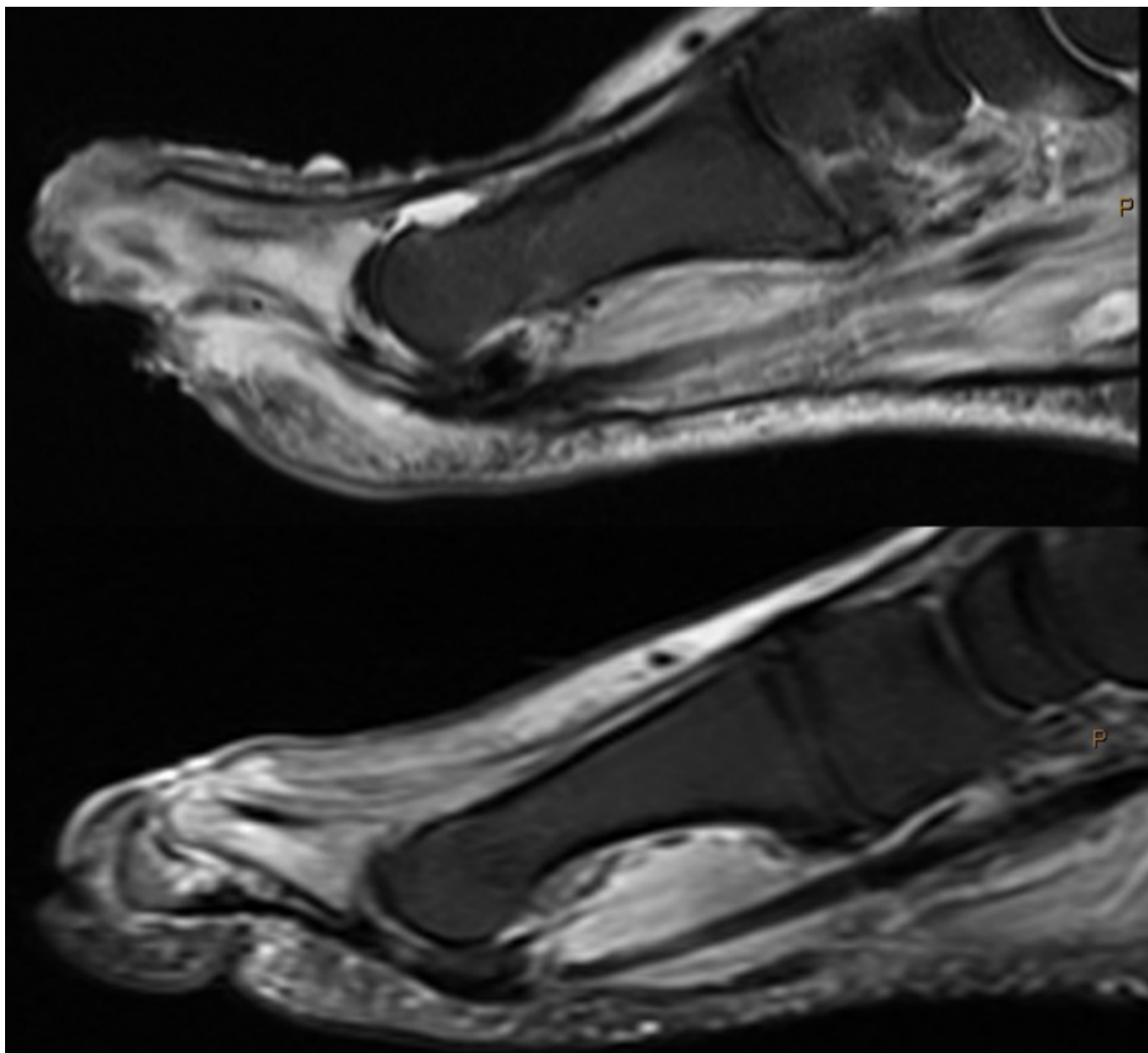
### Peer Learning Opportunity

**T1 marrow replacement is not necessary to diagnose osteomyelitis in the presence of subjacent ulcers.**

**T1 signal is darker than muscle (marrow replacement).**



**T2 edema signal.**



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## Practical Insights



- **Bone marrow edema signal with T1 marrow replacement is consistent with osteomyelitis.**
- **Bone marrow edema signal without T1 marrow replacement with adjacent ulcer, abscess, or sinus tract indicates “high likelihood of osteomyelitis”.**



**Takeaway: Osteo - likely no contrast needed.**

*Shared to improve patient safety and healthcare delivery in the provision of radiology services. The circumstances and facts are changed, altered, or deidentified to preserve confidentiality. Privileges have not been waived.* The MSK National Subspecialty Division (NSD) is part of [RP's Clinical Value Team](#), which works to elevate patient care and enhance value through innovation, collaboration and education. To advance this goal, our radiologists and advanced practice providers are committed to sharing peer learning as valuable reminders and insights about what we encounter in our day-to-day practice. Check back here and on [X](#), [LinkedIn](#) and [Instagram](#) to see these common cases and our findings.

Visit the [Clinical Resources page](#) for more cases and to see what we've developed to enhance best practice recommendations, elevate image quality and patient care and update current standards throughout RP's network of practices, all to deliver excellent radiology services to patients, referring clinicians and client partners.



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