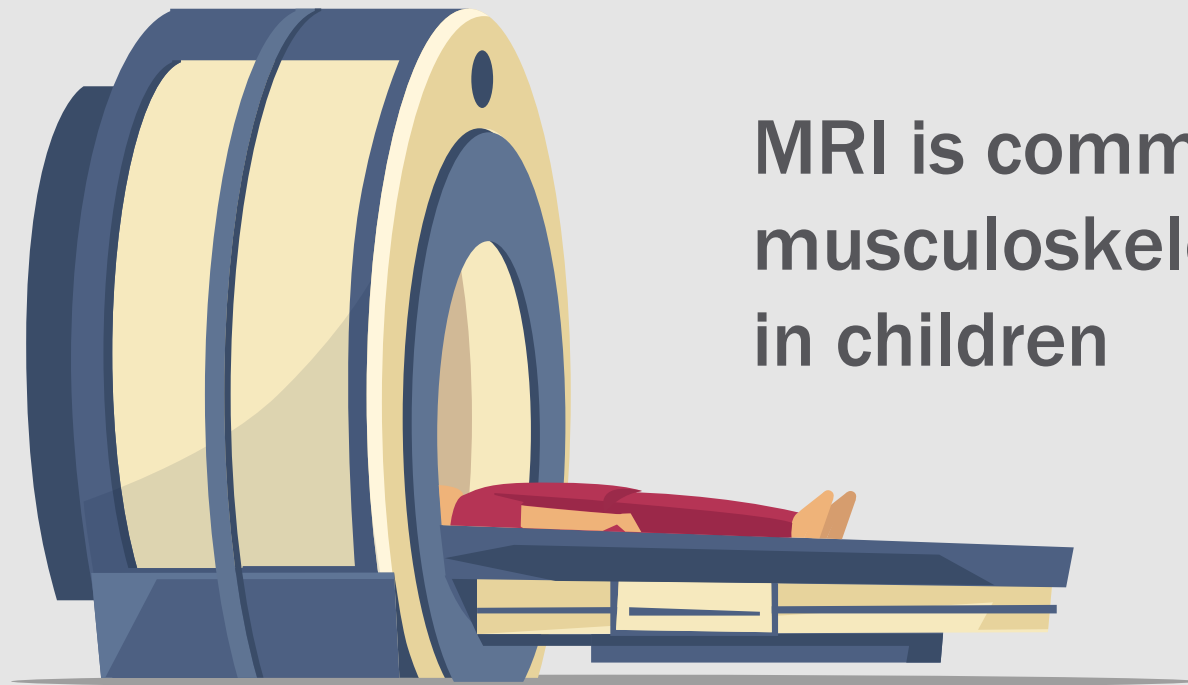


Improving Magnetic Resonance Imaging for Musculoskeletal Infections in Children



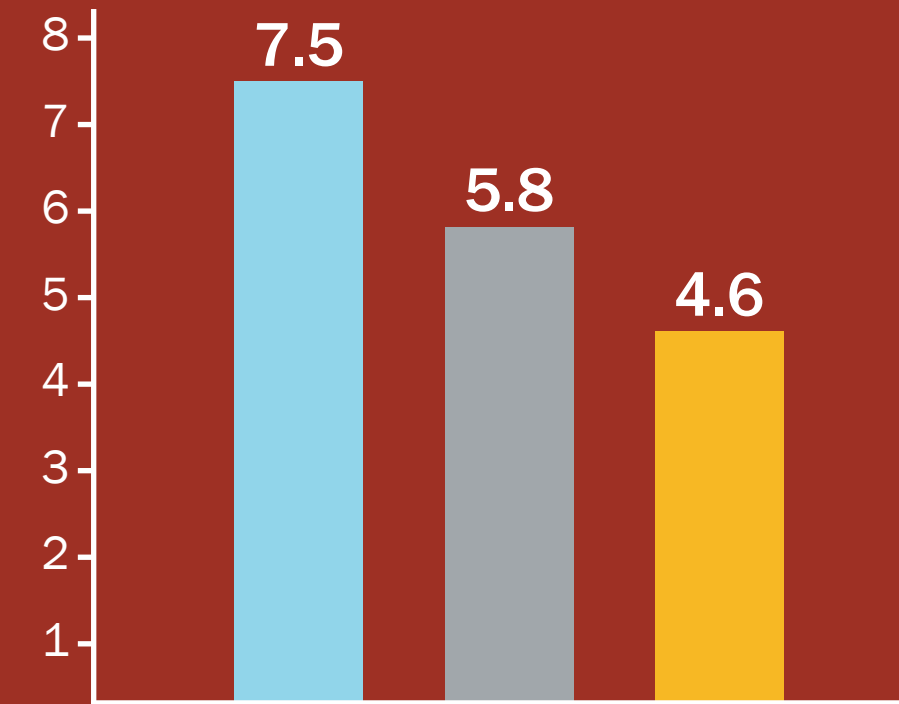
MRI is commonly used to examine musculoskeletal infections (MSIs) in children

Can MRI quality improvement endeavor reduce contrast use and scan durations, improving efficient utilization of MRI?

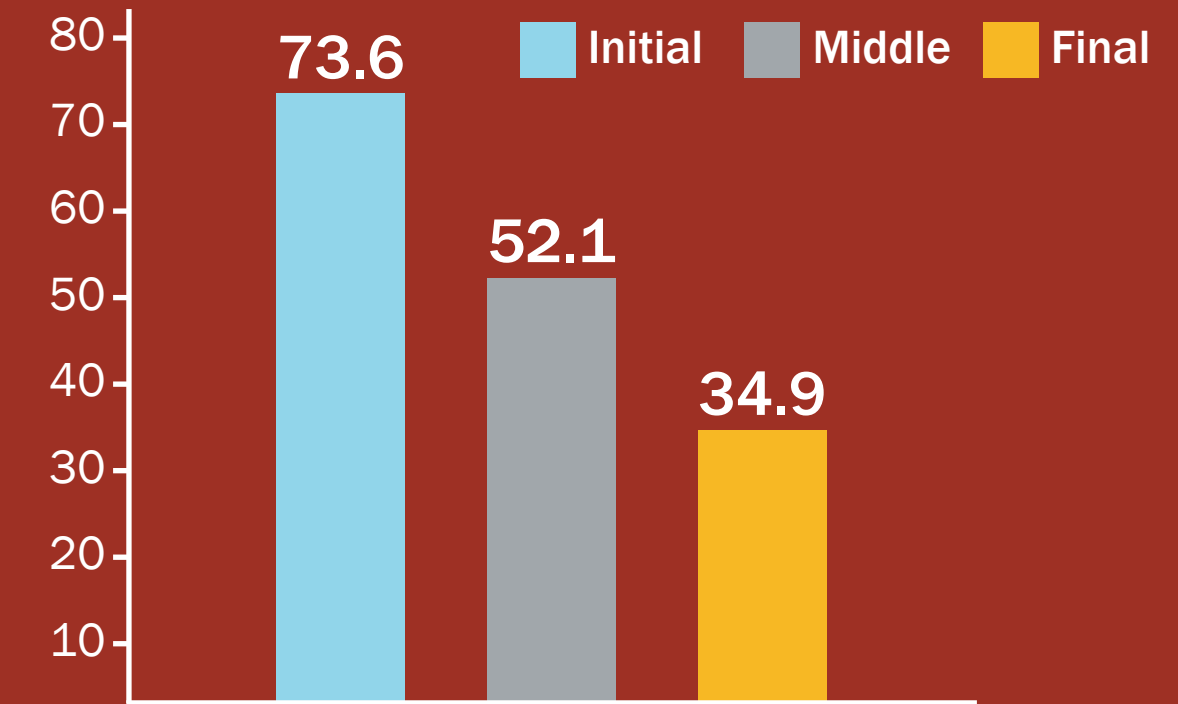


Continuous quality improvement program initiated in 2012
Study population –1,845 children suspected to have MSIs

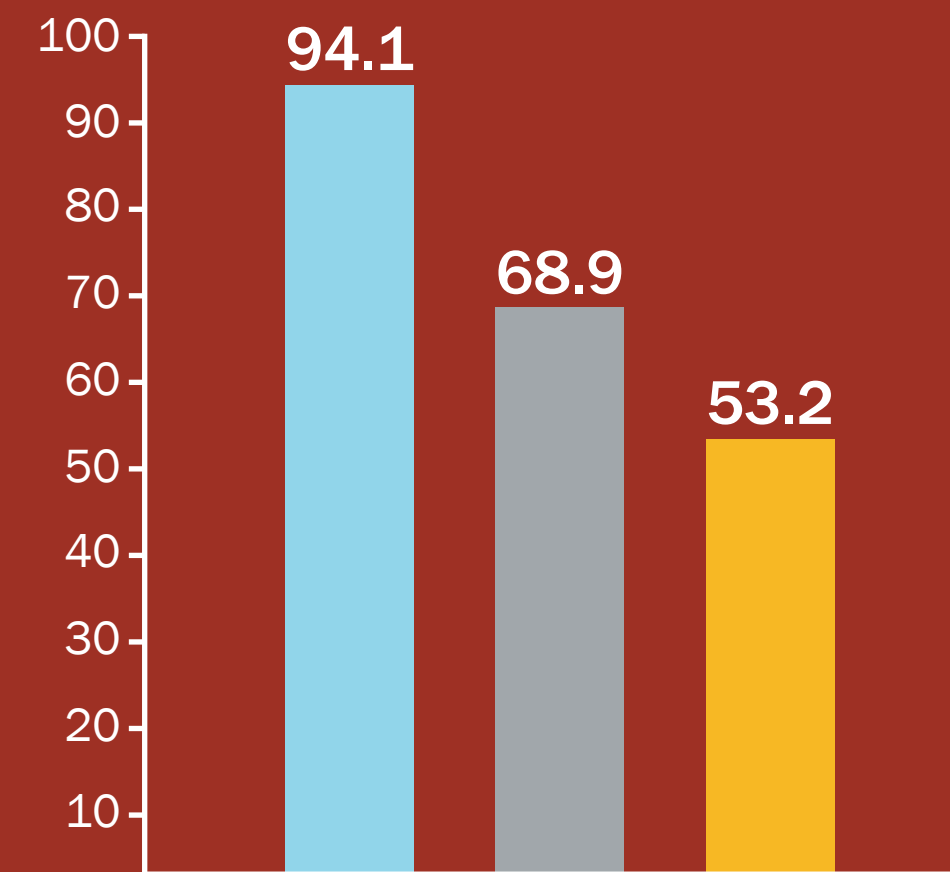
	2012	2014	2016	2018
	Initial	Middle	Final	
MRI (n=526)	226	167	113	
Anesthesia (n=401)	179	130	92	



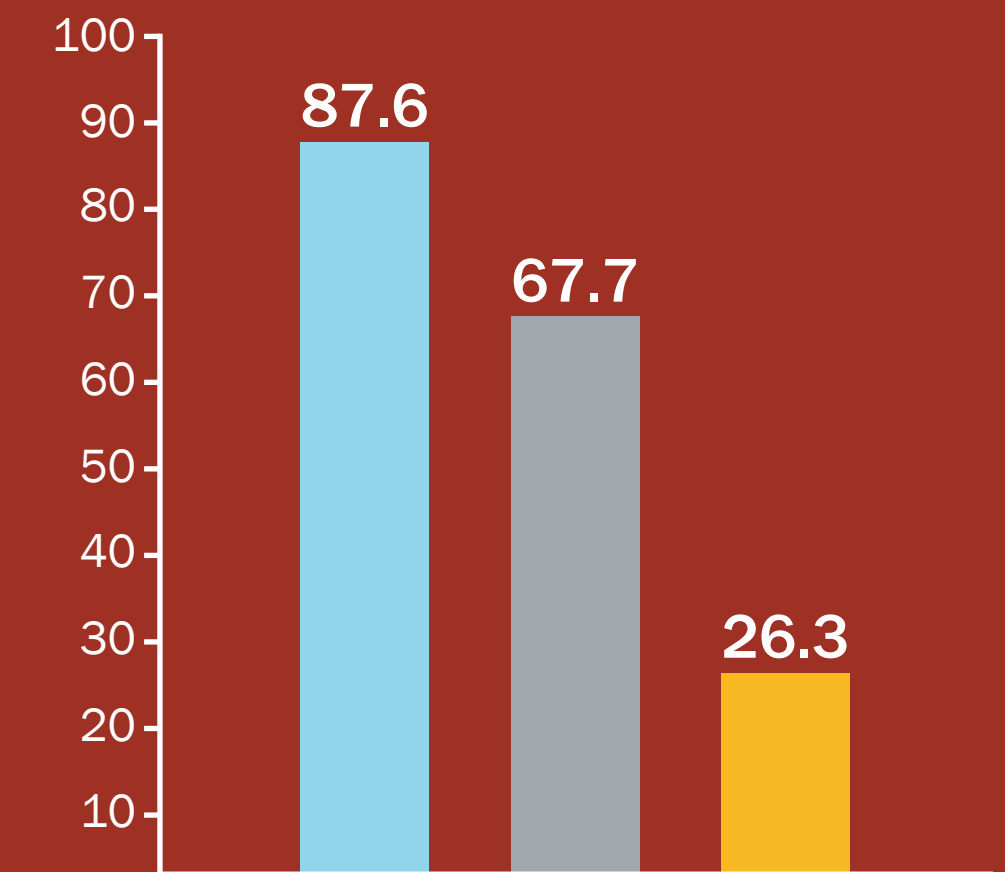
Number of sequences per scan



Scan duration (minutes)



Anesthesia duration (minutes)



Rate of contrast use (%)

Key: Multidisciplinary collaboration and process improvement can significantly improve institutional workflows and lead to more efficient utilization of sedated MRI with less risk to the child

Quality Improvement of Magnetic Resonance Imaging for Musculoskeletal Infection in Children Results in Decreased Scan Duration and Decreased Contrast Use

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