



Background

Baylor College of Medicine

Our team felt there was significant variability in pre procedure safety evaluation by residents for MSK procedures, despite traditional monthly orientation, resident hand-offs and rotation "Goals and Objectives."















A staff radiologist and lead technologist performed a prospective quality evaluation on 11 musculoskeletal procedures, a similar role to "secret shoppers", collecting data regarding resident compliance with checking, verifying and performing each of the safety items (labs, allergies, anticoagulants and safety timeout).















Results											
Evaluation by the staff											
	# of Patients	Prior Images	Labs	Anticoagulation	Allergies	Total Procedures	Total Data				
Pre-Checklist	11	11	0	9	8	11	18/44 (41%)				
Post-Checklist (Same month)	11	11	11	11	11	11	44/44 (100%)				
Post-Checklist (2 months later)	8	8	8	8	8	8	32/32 (100%)				
Post-Checklist (8 months later)	10	10	10	10	10	12*	40/40 (100%)				
*: 2 patients had	bilateral p	procedures									

Results											
Evaluation by the senior technologist											
	# of Patients	Wrist band	Site Marked	Safety Time Out	Total Procedures	Total Data					
Pre-Checklist	11	0	0		11	0/33 (0%)					
Post-Checklist (Same month)	11	11	11	11	11	33/33 (100%)					
Post-Checklist (2 months later)	8	8	8	8	8	24/24 (100%)					
Post-Checklist (8 months later)	10	10	10	10	12*	30/30 (100%)					
*: 2 patients had	bilateral p	procedures									









Conclusion

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We demonstrated at a large teaching hospital with a busy musculoskeletal interventional radiology service, a quality improvement project can successfully implement a systematic approach to procedure preparation via standardized safety checklist, pre-procedure documentation and safety timeouts, laying the foundation for building a culture of safety.



