

# Video Otoscopy in the Pediatric ED: Can it limit the need for repeat ear exams?

## BACKGROUND

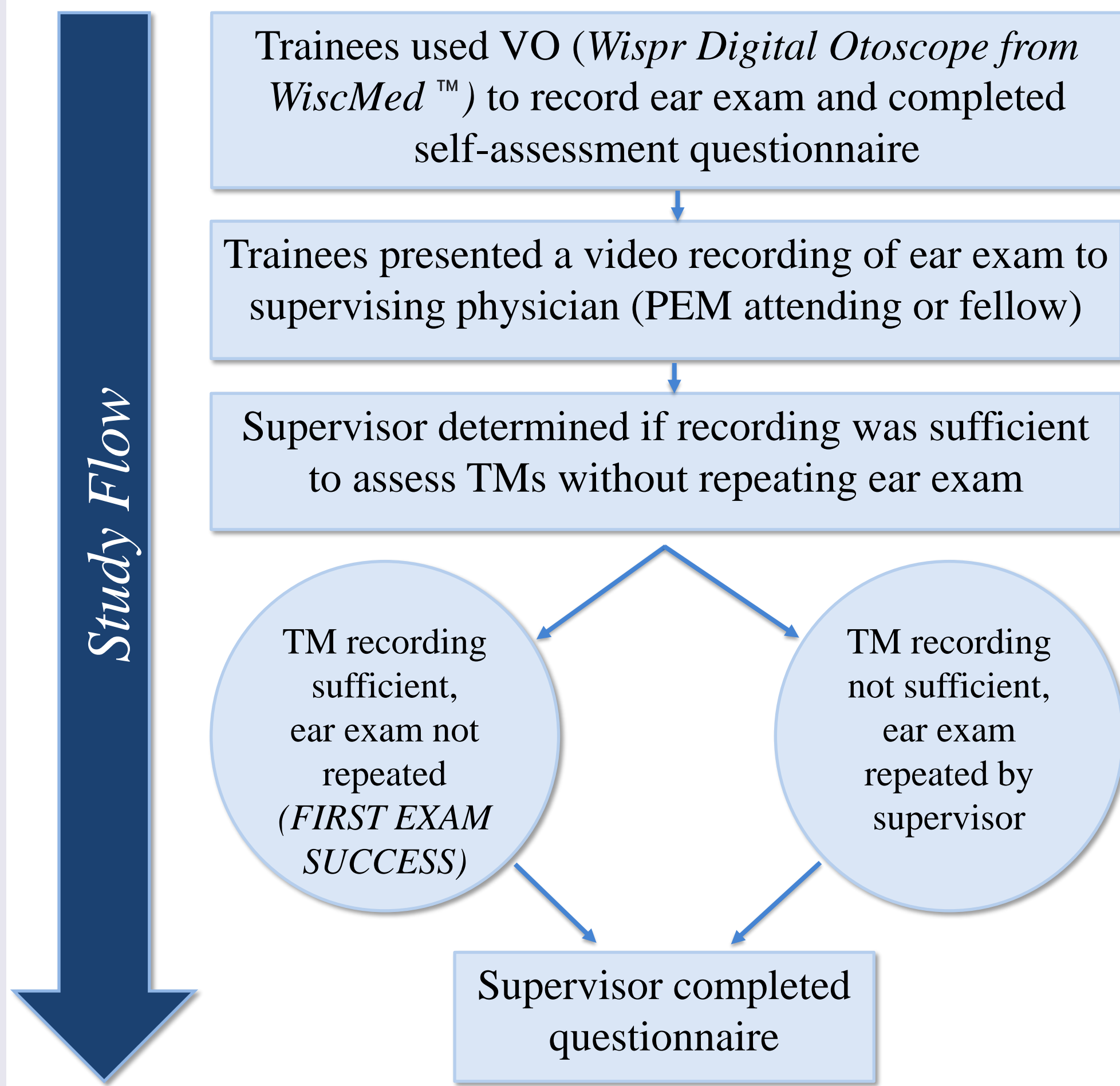
The video otoscope (VO) allows trainees to record magnified images and videos of the tympanic membrane (TM)

## OBJECTIVES

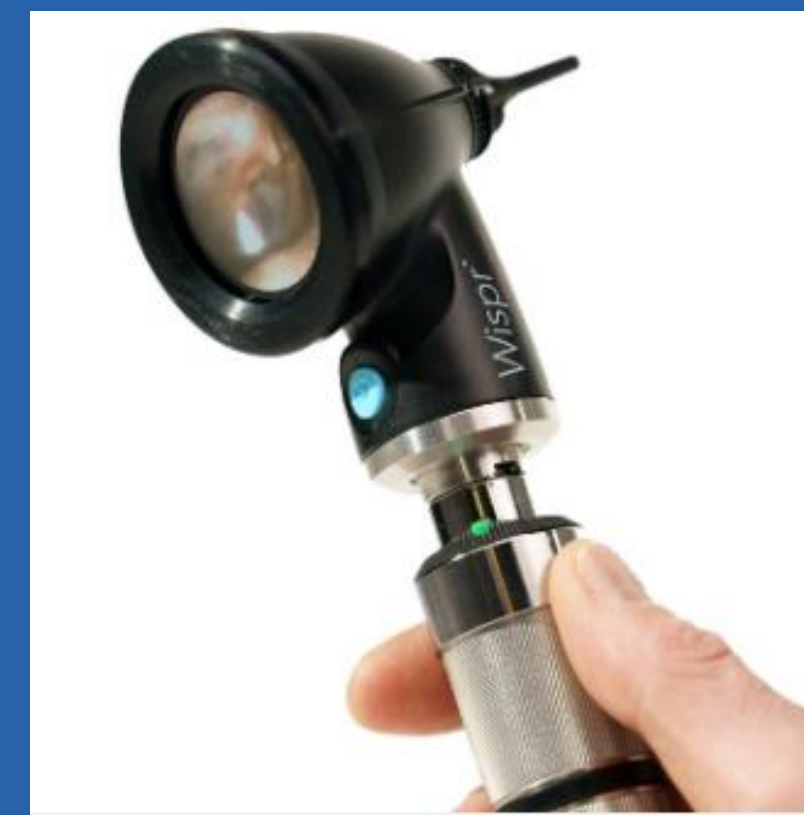
To evaluate whether trainees' use of a VO can avoid repeat ear exams by supervising physicians, and to assess a VO's educational value compared to conventional otoscopes (CO)

## METHODS

Prospective observational study of trainees in the pediatric ED examining patients ages 6 months – 5 years presenting with fever, URI symptoms and/or otalgia (11/21-7/22)



Trainees completed additional pre- and post-rotation questionnaires related to their experience using the VO



# VIDEO OTOSCOPY

eliminated the need for a repeat ear exam in 75% of patients, and was superior to conventional otoscopy as a teaching and diagnostic tool

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## RESULTS

Trainees		
	Pediatric (PGY1-PGY3)	40
	EM (PGY2-PGY4)	25
	Pediatric NP	2

N = 368		
	First exam successful	276 (75%)
	First exam not successful	92 (25%)

	Adjusted Odds Ratio, 95% CI
Patient age >2 years	2.2, [1.3-3.9]
Training level (NP, PGY3, PGY4)	1.8, [1.02-3.1]
>50% visualization of bilateral TMs	9.6, [5.6-16.7]

