The Impact of Magnetic Resonance (MR) Exposure on the Menses Liliya Klimkiv, BS, UC Davis; Ghaneh Fananapazir, MD, Professor, Mayo Clinic; Melody Y. Hou, MD, MPH, UC Davis

INTRODUCTION	N
-Limited research exists on	-
magnetic resonance (MR)	
side effects in nonpregnant	-
women	-
- Case reports and occupational	-
survey evidence report	
abnormal uterine bleeding	-
(AUB) among female	_
healthcare workers with	-
frequent MR exposure.	_
- Anecdotal evidence reported	-
online suggests possible link	
with AUB and MR exposure.	R
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OBJECTIVE	

- To describe gynecological symptoms after MR exposure in women with regular menstrual cycles

MATERIALS & METHODS

- Prospective single-group descriptive study of self-reported regularly menstruating women undergoing brain MRI
- Baseline questionnaire:
- demographic info, OBGYN history, imaging information
- Daily automated symptom survey until first day of period
- Descriptive statistics and Chi-square and Fischer exact test

RESULTS

Subject median age of 27 with range of 19 to 34 years old Twelve subjects (33%) reported contraception use

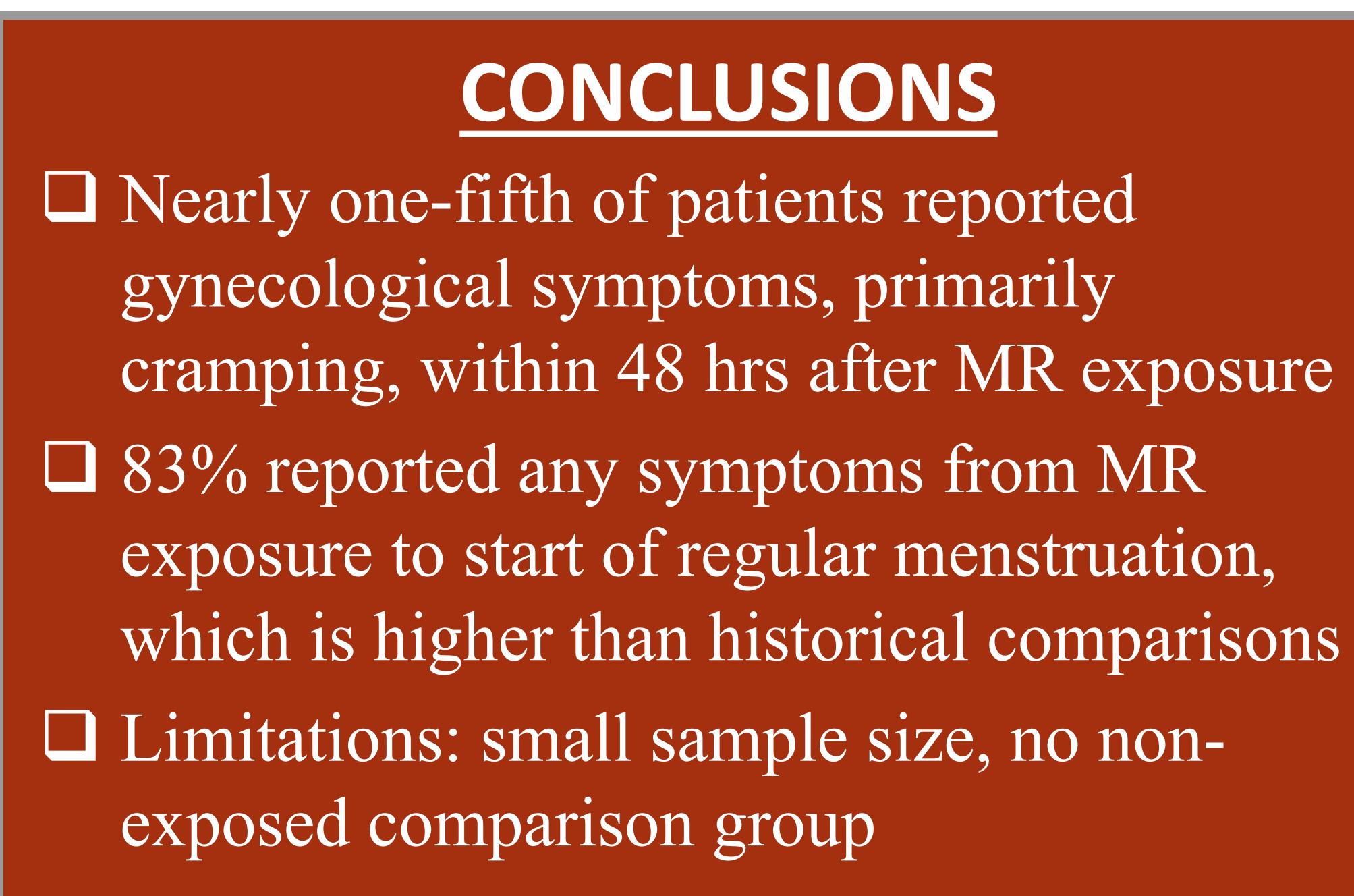
Total enrolled

Gynecologic symptoms* in first 48 hou MR exposure^{**}

Pelvic pain or cramping in first 48 hou Spotting in first 48 hours

Any gynecologic symptoms from MR exposure to start of regular menstruation

* Spotting, light/moderate/heavy bleeding, pelvic pain/cra ** No statistical significance (p > 0.05) was found when comparing demographic, bleeding patterns, or MR imaging info in subjects who reported symptoms and those that did not



	Subjects, n (%)	
	36	
urs after	7 (19%)	
ILL	6 (17%)	
	1 (3%)	
	30 (83%)	
on**		
amping, menstrual clotting		

ABSTRACT



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