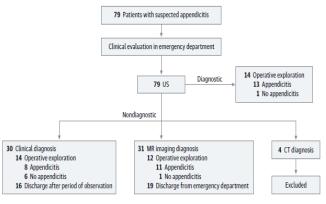


Variable	Appendicitis (n = 32)	No Appendicitis (n = 43)	P Value <sup>b</sup>	
Pregnancy trimester, No. (%)			.97	
1	15 (47)	19 (44)		
2	11 (34)	16 (37)		
3	6 (19)	8 (19)		
Anorexia, No. (%)	20 (63)	14 (33)	.02	
Nausea, No. (%)	30 (94)	33 (77)	.10	
Vomiting, No. (%)	26 (81)	22 (51)	.01	
Fever, No. (%)	4 (13)	1 (2)	.20	
Abdominal pain, No. (%)	32 (100)	43 (100)		
Duration of symptoms, mean (median), h	33.4 (24)	47.6 (24)	.13	
Right lower quadrant tenderness, No. (%)	31 (97)	41 (95)	.80	
Guarding, No. (%)	20 (63)	11 (26)	.002	
Rebound, No. (%)	11 (34)	6 (14)	.07	
Rovsing sign, No. (%)	11 (34)	4 (9)	.02	
Generalized peritonitis, No.	0	0		Abbreviations: ellipsis, not applicable
Fetal distress, No.	0	0		MR, magnetic resonance;
White blood cell count, mean (SD), /µL	14 600 (3900)	11 300 (3500)	<.001	US, ultrasonography.
Attempted mechanism of diagnosis, No. (%)			<.001	SI conversion factor: To convert whit
Clinical diagnosis	8 (25)	22 (51)		blood cell count to ×10 <sup>9</sup> /L, multipl by 0.001.
US diagnosis	13 (41)	1 (2)		<sup>a</sup> The 79 total patients in the study
MR imaging diagnosis	11 (34)	20 (47)		include 4 patients evaluated by
Dperative intervention, No. (%)	32 (100)	8 (19)	<.001	computed tomography.
Adverse fetal outcome, No. (%)	2 (6)	7 (16)	.33	<sup>b</sup> t Test, χ <sup>2</sup> test, or Fisher exact test where appropriate.

Figure 1. Diagnostic Modalities and Management of Pregnant Patients With Suspected Appendicitis



Variable	No MR Imaging (n = 44)	MR Imaging (n = 31)	<b>P</b> Value <sup>a</sup>	Odds Ratio (95% CI)
Time to operative exploration, mean (SD), h <sup>b</sup>	13.6 (9.6)	10.5 (6.0)	.23	
Operative exploration, No. (%)	27 (61)	12 (39)	.07	0.45 (0.18-1.16)
Perforated appendicitis, No./total No. (%)	5/44 (11)	3/31 (10)	.82	1.20 (0.26-5.42)
Nontherapeutic exploration, No. (%)	7 (16)	1 (3)	.13	0.44 (0.08-2.32)
Admission for observation, No. (%)	22 (50)	8 (26)	.04	0.35 (0.13-0.94)
Adverse fetal outcome, No. (%)	4 (9)	5 (16)	.47	1.09 (0.90-1.31)
LOS, mean (SD), h <sup>b</sup>	64.8 (33.9)	33.7 (32.3)	<.001	
LOS among nonoperated patients, mean (SD), h <sup>b</sup>	55.1 (35.7)	16.4 (11.8)	<.001	

Figure 2. Sensitivity, Specificity, and Likelihood Ratios Associated With Various Diagnostic Modalities in the Management of Pregnant Patients With Suspected Appendicitis

30 Suspected appendicitis 4 Operative exploration 2 Appendicitis 2 No appendicitis 26 Admission and observation 10 Operative exploration 6 Appendicitis 4 No appendicitis

16 Discharge

31 MR imaging 11 Positive MR imaging 11 Appendicitis 20 Negative MR imaging 20 No appendicitis

79 US 14 Positive US 13 Appendicitis 1 No appendicitis 65 Nondiagnostic US 20 Appendicitis 45 No appendicitis

	Clinical Diagnosis	US Diagnosis	MR Imaging Diagnosis
Sensitivity	25%	39%	100%
Specificity	91%	98%	100%
Positive likelihood ratio	11.00	18.07	20.00
Negative likelihood ratio	0.82	0.62	0.00



