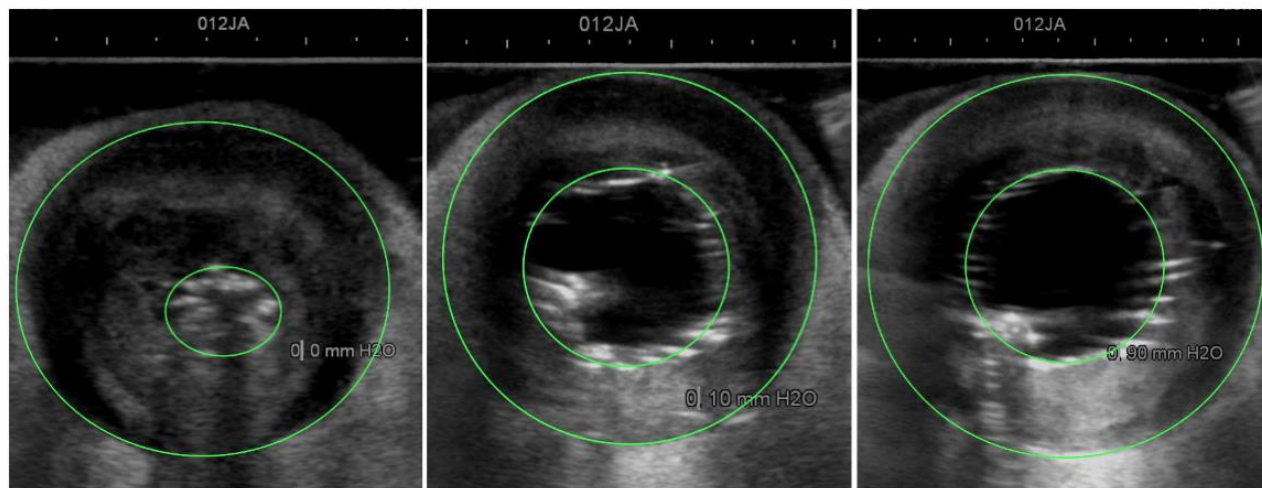


Figure S1. Regions of Interests



Regions of interests drawn in OsiriX. Patient 012 at location "0" at 0, 10 and 90 cmH<sub>2</sub>O. On US falsely labeled mm instead of cm

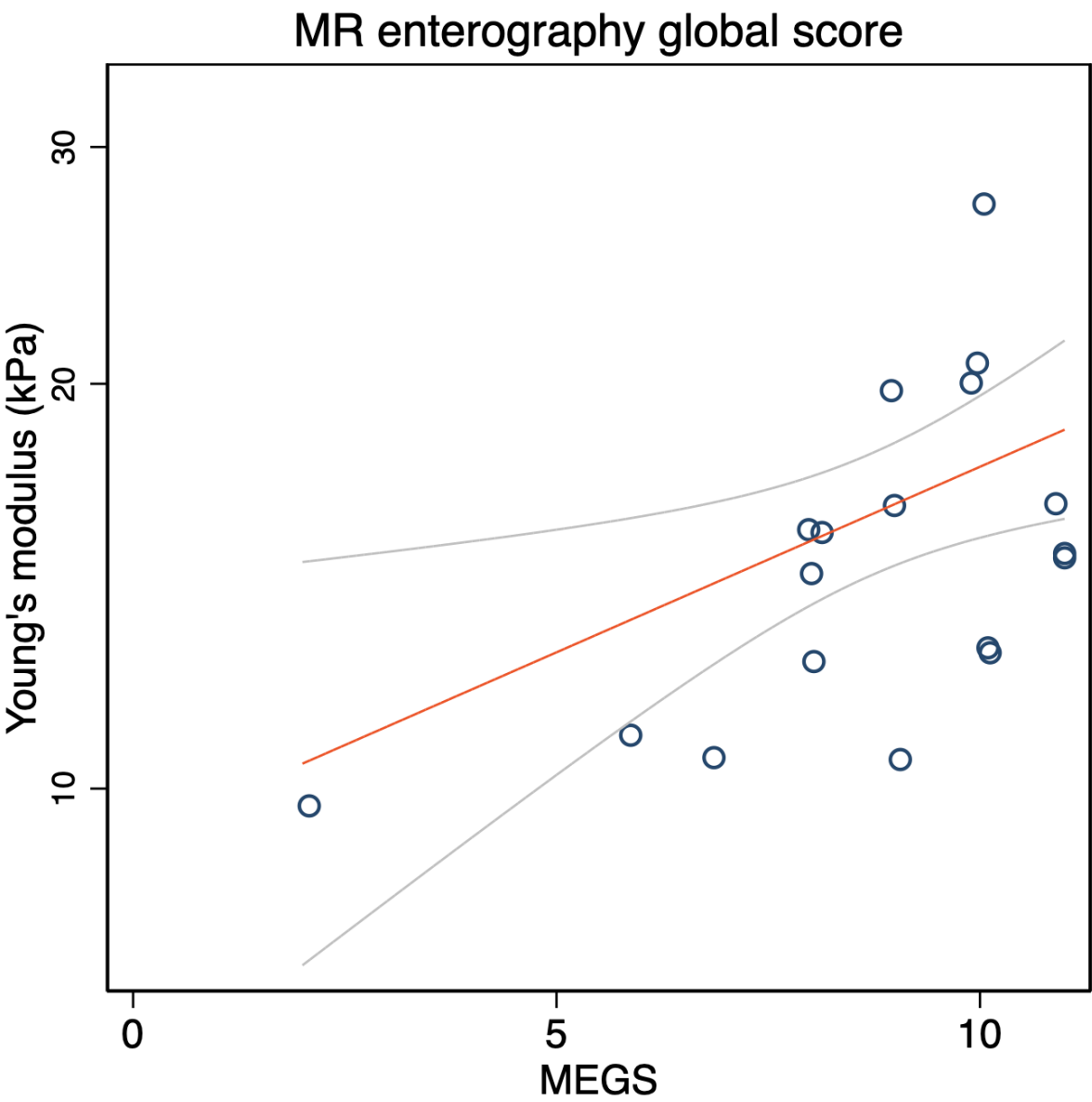
Table S1

Demographics	
Parameter	No. of Patients
Included patients	18
Females	10 (56 %)
Age, years	43 [19-66]
Body mass index (kg/m <sup>2</sup> )	25.0 [20.2-32.0]
Disease duration	8.8 [0-25.3]
< 2 years	5 (28 %)
2-10 years	6 (33 %)
>10 years	7 (39 %)
Location of disease	
L1, Terminal Ileum	12 (67 %)
L2, Colon	0 (0 %)
L3, Ileocolon	5 (28 %)
L4, Upper disease	1 (6 %)
Crohn Disease Activity Index	210 ± 94
Harvey Bradshaw Index	8.0 ± 4.6
Fecal Calprotectin (µg/g)*	251 [49-1422]
C-Reactive Protein (mg/l)*	4.3 [0.6-29.4]
Hemoglobin (mmol/l)	8.9 ± 0.7
Albumin (g/l)	36.3 ± 3.8
Vitamin D (nmol/l)	69.5 ± 20.8
Hematocrit	0.42 ± 0.04
Time between examinations, days*	0 [0-4]
Time between US and Surgery, days*	7.5 [1-26]
Symptoms within last flair, n (%), days*	
Pain	16 (89 %)
Nausea	13 (72 %)
Vomit	6 (33 %)
Diarrhea	11 (61 %)
Bloody stools	5 (28 %)
Bloating	12 (67 %)
Weight loss	8 (44 %)
Fatigue	3 (17 %)
IBD Treatment, n (%)	
None	5 (28 %)
Steroids	5 (28 %)
Immunosuppressors	3 (17 %)
Biological therapy	4 (22 %)
Combo treatment	1 (6 %)
Note – Numbers in parenthesis are percentages. Numbers in brackets are ranges. Unless indicated otherwise, data are means ± standard deviations. * Median values and ranges. US = Ultrasonography	

Table S2

Correlation between Young's modulus and imaging		
Parameter	Spearman's rho	P value
CEUS		
Peak Enhancement	0.00	P = .99
Area Under Curve	-0.04	P = .89
Wash-in Rate	0.08	P = .76
Wash-in Perfusion index	0.00	P = .99
Rise Time	-0.22	P = .41
Fall Time	-0.09	P = .74
DCE-MRE		
Peak Enhancement	0.24	P = .35
Area Under Curve 70 s	-0.04	P = .89
Initial Slope	0.63	P = .007
Initial Slope Max	0.30	P = .25
Wash-in Perfusion Index	0.03	P = .90
Rise Time	-0.33	P = .19
Wash-out Slope 60 s	0.10	P = .71
Wash-out Slope 120 s	-0.17	P = .52
Note – § P value for One-way analysis of variance.		
CEUS = Contrast enhanced ultrasonography, DCE-MRE =		
Dynamic Contrast Enhanced MR Enterography.		

Figure S2. Correlation with MR enterography global score



Association between stiffness of the stricture and MR enterography global score (MEGS) (Spearman's  $\rho=0.55$ ,  $P=0.018$ ).