

Supplementary Table 1. Comparison of Gastric Contractile Parameters for Distal Propagating Contractions in Healthy Subjects and Dyspepsia

	Controls	Patients with Normal GE	Patients with Rapid GE	Odds Ratios (95% CI) by Multiple Variable Analysis	
				Controls vs Normal GE	Controls vs Rapid GE
N of subjects with distal contractions	13	7	8		
Number of propagating distal contractions*	1.4 ± 0.1	1.0 ± 0	1.2 ± 0.1	NA	NA
Summary parameters for contraction					
Period (seconds)	19.6 ± 0.5	24.4 ± 2.6	22.1 ± 1.3	1.70(1.03, 2.80)	1.57 (0.95, 2.60)
Proximal limit (mm)	43.3 ± 8.5	44.9 ± 10.0	48.1 ± 6.6	NA	NA
Distal limit (mm)	7.8 ± 2.0	8.7 ± 2.8	4.6 ± 1.5	NA	NA
Length of contraction (mm)	35.1 ± 7.5	36.1 ± 10.2	43.5 ± 6.3	NA	NA
Velocity of propagation (mm/s) [‡]	4.1 ± 0.6	2.7 ± 0.8	2.6 ± 0.3	0.39 (0.13, 1.24)	0.29 (0.08, 1.04)
Average relative amplitude change [†]	0.38 ± 0.04	0.36 ± 0.06	0.60 ± 0.06	1.63 (0.34, 7.72) [§]	9.33 (1.43, 60.85) [§]
Mean duration (s)	7.2 ± 0.2	7.9 ± 0.5	8.2 ± 0.5	NA	NA
Duration of contraction – CV (%) [†]	11 ± 2	13 ± 3	19 ± 2	NA	NA

Values are Mean + SEM

* This is the number of all propagating contractions. The summary parameters are for the longest propagating contraction in each subject.

[†] p = 0.01 [‡] p = 0.08 by Kruskal-Wallis test

[§] per 0.1 unit change in relative amplitude

NA – not applicable (not included in multiple variable model)

Supplementary Table 2. Comparison of gastric volumes measured by different MR pulse sequences in healthy subjects and patients

Measurement*	HASTE	LAVA	CCC (95% CI)	p value for Bland Altman Assessment #
Fasting volume	175 ± 9	166 ± 8	0.90 (0.85, 0.95)	0.06
Postprandial change (5 min)	355 ± 8	399 ± 9	0.54 (0.37, 0.71)	0.19
Postprandial change (10 min)	340 ± 8	383 ± 8	0.58 (0.43, 0.73)	0.05
Postprandial change (20 min)	327 ± 9	359 ± 8	0.60 (0.42, 0.78)	0.03
Postprandial change (30 min)	312 ± 9	339 ± 9	0.60 (0.42, 0.79)	0.23

Numbers reflect imaging time, in minutes, relative to meal ingestion. Postprandial change is the difference between postprandial and fasting volume.

Test for (Pearson) correlation of differences versus overall mean