

Supplementary Table 1 Overall parameters of 24 hours MII-pH monitoring and HRM of RH patients

	<i>N</i>	mean	SD
The lowest pH value	107	2.013	1.3265
Acidic reflux/ times	107	11.91	16.172
Weak acidic reflux/ times	107	74.10	62.624
Non-acid reflux/ times	107	57.79	58.258
Liquid reflux/ time	107	53.51	36.213
Mixture reflux/ times	107	48.03	42.052
Gas reflux/ times	107	42.27	51.163
Total reflux/ times	107	143.79	95.411
Upright AET/ %	107	1.2231	1.80800
Supine AET/ %	107	0.537	1.0947
Total AET/ %	107	0.9179	1.20457
DeMeester score	107	4.2126	4.60704
Average resting pressure of the LES/ mmHg	107	13.085	9.2128
IRP	107	3.7772	7.22582
DCI/ mmHg.s.cm	107	491.97	464.036
DL/ s	107	7.181	1.3238
FPL/ cm	107	5.717	3.8673

AET: Acid exposure time; LES: Lower esophagus sphincter; IRP: Integrated relaxation pressure; DCI: Distal contractile integral; DL: Distal latency; FPL: Fragmented peristalsis length.