

Supplementary Data

SUPPLEMENTARY TABLE S1. BASELINE CHARACTERISTICS FOR PATIENTS IN THE 1-YEAR FOLLOW-UP STUDY COHORT

	<i>Toupet (n=61)</i>	<i>Nissen (n=35)</i>	P
Demographics			
Female, <i>n (%)</i>	43 (70.5)	15 (42.9)	.01
Age, mean \pm SD	60.4 \pm 12.8	51.4 \pm 15.7	.003
BMI, mean \pm SD	30.42 \pm 5.06	30.12 \pm 4.19	.77
Reoperative fundoplication, <i>n (%)</i>	10 (16.4)	6 (17.1)	.92
Presenting complaint(s), <i>n (%)</i>			
Reflux	52 (85.3)	29 (82.9)	.76
Pain	15 (24.6)	5 (14.3)	.30
Dysphagia	27 (44.3)	16 (45.7)	.89
Preoperative workup			
Hiatal hernia on barium esophagram, <i>n (%)</i> ^a	36 (80.0)	17 (70.8)	.39
EGD ^b			
Barrett's, <i>n (%)</i>	10 (17.9)	5 (14.3)	.78
Esophagitis, <i>n (%)</i>	14 (25.5)	11 (31.4)	.54
No. of reflux episodes on impedance testing, mean \pm SD ^c	91.3 \pm 44.5	77.4 \pm 38.2	.47
Manometry ^d			
Mean amplitude, mean \pm SD	77.0 \pm 51.0	86.1 \pm 28.9	.11
% failed contractions, mean \pm SD	21.9 \pm 29.7	6.9 \pm 20.0	.04
% simultaneous contractions, mean \pm SD	13.8 \pm 26.8	2.8 \pm 6.7	.25
Duration of surgery (minutes), mean \pm SD	136.4 \pm 42.7	122.4 \pm 54.7	.04

^a45 (73.8%) patients in the Toupet group and 24 (68.6%) patients in the Nissen group underwent barium esophagram.

^b57 (93.4%) patients in the Toupet group and 35 (100.0%) patients in the Nissen group underwent EGD.

^c23 (37.7%) patients in the Toupet group and 17 (48.6%) patients in the Nissen group underwent impedance testing.

^d32 (53.3%) patients in the Toupet group and 27 (77.1%) patients in the Nissen group underwent manometry.

BMI, body mass index; EGD, esophagogastroduodenoscopy; SD, standard deviation.

SUPPLEMENTARY TABLE S2. BASELINE CHARACTERISTICS FOR PATIENTS IN THE 3-YEAR FOLLOW-UP STUDY COHORT

	<i>Toupet (n = 79)</i>	<i>Nissen (n = 44)</i>	<i>P</i>
Demographics			
Female, <i>n (%)</i>	54 (68.4)	26 (59.1)	.30
Age, mean ± SD	53.4 ± 15.2	50.9 ± 14.5	.38
BMI, mean ± SD	29.88 ± 5.65	29.45 ± 5.47	.68
Reoperative fundoplication, <i>n (%)</i>	21 (26.6)	11 (25.0)	.85
Presenting complaint(s), <i>n (%)</i>			
Reflux	73 (92.4)	42 (95.5)	.71
Pain	17 (21.5)	11 (25.0)	.66
Dysphagia	36 (45.6)	6 (13.6)	<.001
Preoperative workup			
Hiatal hernia on barium esophagram (%) ^a	37 (58.7)	21 (70.0)	.29
EGD ^b			
Barrett's, <i>n (%)</i>	11 (14.5)	7 (17.1)	.71
Esophagitis, <i>n (%)</i>	10 (14.1)	7 (16.7)	.71
No. of reflux episodes on impedance testing, mean ± SD ^c	80.3 ± 43.4	65.6 ± 50.1	.11
Manometry ^d			
Mean amplitude, mean ± SD	64.0 ± 33.3	95.5 ± 47.3	.001
% failed contractions, mean ± SD	19.4 ± 23.4	15.8 ± 30.3	.16
% simultaneous contractions, mean ± SD	10.8 ± 21.5	5.0 ± 14.3	.31
Duration of surgery (minutes), mean ± SD	122.9 ± 41.5	119.3 ± 33.4	.95

^a65 (82.3%) patients in the Toupet group and 31 (70.5%) patients in the Nissen group underwent barium esophagram.

^b76 (96.2%) patients in the Toupet group and 42 (95.5%) patients in the Nissen group underwent EGD.

^c47 (60.3%) patients in the Toupet group and 27 (61.4%) patients in the Nissen group underwent impedance testing.

^d55 (69.6%) patients in the Toupet group and 32 (72.7%) patients in the Nissen group underwent manometry.

BMI, body mass index; EGD, esophagogastroduodenoscopy; SD, standard deviation.

SUPPLEMENTARY TABLE S3. BASELINE CHARACTERISTICS FOR PATIENTS IN THE 5-YEAR FOLLOW-UP STUDY COHORT

	<i>Toupet</i> (n=12)	<i>Nissen</i> (n=82)	P
Demographics			
Female, <i>n</i> (%)	10 (83.3)	51 (62.2)	.20
Age, mean ± SD	63.0 ± 12.7	52.0 ± 12.8	.006
BMI, mean ± SD	29.17 ± 6.61	30.21 ± 5.03	.52
Reoperative fundoplication, <i>n</i> (%)	3 (25.0)	8 (9.8)	.15
Presenting complaint(s), <i>n</i> (%)			
Reflux	9 (75.0)	73 (89.2)	.18
Pain	1 (8.3)	21 (25.6)	.28
Dysphagia	3 (25.0)	10 (12.2)	.36
Preoperative workup			
Hiatal hernia on barium esophagram, <i>n</i> (%) ^a	4 (44.4)	36 (69.2)	.25
EGD ^b			
Barrett's, <i>n</i> (%)	0 (0.0)	5 (6.9)	1.00
Esophagitis, <i>n</i> (%)	4 (33.3)	12 (16.2)	.22
No. of reflux episodes on impedance testing, mean ± SD ^c	72.3 ± 51.0	77.4 ± 54.9	.91
Manometry ^d			
Mean amplitude, mean ± SD	63.1 ± 30.3	77.2 ± 38.2	.40
% failed contractions, mean ± SD	55.0 ± 35.4	13.3 ± 18.7	.07
% simultaneous contractions, mean ± SD	3.3 ± 5.8	2.6 ± 4.5	.83
Duration of surgery (minutes), mean ± SD	106.7 ± 34.9	116.9 ± 34.4	.34

^a10 (83.3%) patients in the Toupet group and 54 (65.1%) patients in the Nissen group underwent barium esophagram.

^b12 (100.0%) patients in the Toupet group and 75 (90.4%) patients in the Nissen group underwent EGD.

^c7 (58.3%) patients in the Toupet group and 43 (51.8%) patients in the Nissen group underwent impedance testing.

^d7 (58.3%) patients in the Toupet group and 38 (46.3%) patients in the Nissen group underwent manometry.

BMI, body mass index; EGD, esophagogastroduodenoscopy; SD, standard deviation.