

Table 1. Demographics of patients with suspected laryngopharyngeal reflux

Variable	Patients with no reflux	Patients with LPR	<i>P</i> -value
	(n = 28)	(n = 80)	
Age	51.43 ± 12.62	55.24 ± 12.78	0.1762
Sex (male:female)	12:16	31:49	0.8746
Diabetes mellitus	2 (7.14%)	5 (6.25%)	1
Hypertension	11 (39.29%)	23 (28.75%)	0.4256
Alcohol	8 (28.57%)	21 (26.25%)	1
Smoking	7 (25.00%)	14 (17.50%)	0.5581
Coffee	15 (53.57%)	29 (36.25%)	0.1820
RSI (Pre-treatment)	13.79 ± 4.31	14.05 ± 5.40	0.8154
RFS (Pre-treatment)	5.57 ± 5.84	7.70 ± 4.92	0.0636
Responder (after 2 month)	8 (28.57%)	46 (57.50%)	0.0157 *
Medication periods (months)	4.96 ± 1.53	4.34 ± 1.40	0.0485 *

LPR, laryngopharyngeal reflux; RSI, reflux symptom index; RFS, reflux finding score

* *p* < 0.05

Table 2. Demographics of patients with laryngopharyngeal reflux according to the response to proton pump inhibitor therapy

Variable	Non-responders (n = 19)	Responders (n = 61)	<i>P</i> -value
Age	56.38 ± 12.56	54.88 ± 12.93	0.6585
Sex (male:female)	9:10	22:39	0.5296
Diabetes mellitus	1 (5.26%)	4 (6.56%)	1
Hypertension	3 (15.79%)	20 (32.79%)	0.2546
Alcohol	8 (42.11%)	13 (21.31%)	0.1335
Smoking	6 (31.58%)	8 (13.11%)	0.1326
Coffee	8 (42.11%)	21 (34.43%)	0.6195
RSI (Pre-treatment)	12.42 ± 3.86	14.56 ± 5.73	0.1329
RFS (Pre-treatment)	6.58 ± 5.48	8.05 ± 4.73	0.2580
Medication periods (months)	4.32 ± 1.25	4.34 ± 1.45	0.9387

LPR, laryngopharyngeal reflux; RSI, reflux symptom index; RFS, reflux finding score

Table 3. Parameters of 24-h multichannel intraluminal impedance-pH monitoring in patients with laryngopharyngeal reflux according to the response to proton pump inhibitor therapy

Parameters	Non-responders (n = 19)	Responders (n = 61)	<i>P</i> -value
pH1 parameter			
DeMeester score	0.8105 ± 0.0315	1.3573 ± 4.0808	0.2995
Acid exposure time (%)	0.0053 ± 0.0230	0.2197 ± 1.5731	0.2915
Reflux episode	0.1158 ± 0.3468	0.6689 ± 1.4434	0.0075 *
Longest reflux time (min)	0.0579 ± 0.1924	0.5656 ± 1.4305	0.0089 *
pH8 parameter			
DeMeester score	3.6421 ± 5.2860	6.9424 ± 9.9233	0.0675
Acid exposure time (%)	0.9211 ± 1.6400	1.9712 ± 3.4754	0.0789
Reflux episode	9.3263 ± 9.8913	12.5407 ± 13.4707	0.3409
Longest reflux time (min)	3.6947 ± 5.2877	7.7051 ± 14.0278	0.0714
Proximal MII parameter			
All reflux time (%)	0.0212 ± 0.0535	0.1624 ± 0.3569	0.0040 *
Longest reflux time (min)	0.3283 ± 0.5207	0.9814 ± 1.9653	0.0216 *
Acid reflux episode	0.3684 ± 0.7609	0.9016 ± 2.4338	0.1395
Weak acid reflux episode	4.5789 ± 4.8912	4.9508 ± 6.0730	0.8085
Weak alkali reflux episode	0.3158 ± 0.5824	0.7213 ± 1.5930	0.1004

All reflux episode	5.2632 ± 5.2265	6.5738 ± 7.4486	0.4781
Distal MII parameter			
All reflux time (%)	2.1684 ± 3.6443	1.8800 ± 1.9834	0.7447
Longest reflux time (min)	12.3725 ± 38.8413	6.5680 ± 16.1568	0.5331
Acid reflux episode	12.5789 ± 12.0891	16.2000 ± 13.8072	0.3088
Weak acid reflux episode	23.8947 ± 13.2828	22.1166 ± 13.5922	0.6188
Weak alkali reflux episode	3.4211 ± 4.5131	2.4833 ± 3.3623	0.3340
All reflux episode	40.4211 ± 19.2911	41.3017 ± 19.8368	0.8657

MII, multichannel intraluminal impedance; LPR, laryngopharyngeal reflux

* $p < 0.05$