## **Supplementary Material**

## Survey on Clinical Practice for Esophageal High-resolution Manometry

Thank you for spending your time in responding to this nationwide survey developed by Dysphagia Research Group Under the Korean Society of Neurogastroenterology and Motility. The purpose of this survey is to understand current practice patterns on esophageal high-resolution manometry (HRM) and to promote the development of standardized study protocol. The results of this survey will be reproduced and used for research purpose only. Please respond to each question and provide a detailed description when necessary.

Q1. Institution setup and equipm	nent				
Name of institution:					
1-1) Hospital setting: □ primary care hospital □ secondary care hospital □ tertiary care hospital					
1-2) Equipment used for HRM	<ol> <li>□ Given Imaging sys</li> </ol>	stem [	☐ Sandhill Scientific ☐ Medical	Measurements Syste	ms
Q2. Study indications (multiple	answers)				
- , 1 8 -			ritation		
☐ refractory gastroesophageal r			sophageal symptoms		
1	_	0,			
□ before bariatric surgery □	others:				
Q3. Symptom questionnaires					
3-1) Do you utilize specific surv 3-2) Select the category of quest  ☐ reflux questionnaire: ☐ dysphagia questionnaire ☐ quality of life questionna ☐ others:	tionnaires and write thei				
Q4. Study protocol and data rep	orting				
<ul> <li>4-1) Fasting before HRM: □ 6 hours □ before midnight □ others:</li> <li>4-2) Methods for local pharyngeal anesthesia: □ lidocaine jelly □ others:</li> <li>4-3) Do you recommend withdrawal of usual medication that can affect esophageal motility prior to HRM? □ yes □ no (go to Q4-4)</li> <li>4-3-1) Select the medication that should be withdrawn before HRM (multiple answers).</li> </ul>					
☐ antispasmodics ☐ calcium channel blockers ☐ nitroglycerin ☐ muscle relaxant ☐ opioids ☐ others: 4-3-2) Duration of withdrawal (days or weeks):  4-4) Study position (multiple answers)					
, , , ,	*	ition (	head elevation for 30°) □ Trend	delenburg position	others:
4-5-1) Consistency (multiple answers)					
□ wet (eg, saline, half saline, water):					
□ viscous (eg, apple sauce):					
$\square$ solid (eg, bread):					
□ others:					
4-5-2) Volume of each swallow: mL 4-5-3) Total number of swallows for each consistency: times					
4-5-4) Interval between swallows: seconds					
4-6) Do you perform the provocation test? □ yes □ no (go to Q4-8)					
4-6-1) To whom should the provocation test be performed? □ all patients □ as indicated					
4-6-2) Which provocation test do you conduct? (multiple answers)					
☐ multiple rapid swallow ☐ multiple drinking challenge ☐ standardized meal ☐ others:					
4-7) Reference pressure: □ atmospheric pressure □ gastric pressure □ others:					
4-8) What parameters do you analyze and report? (multiple answers)					
□ LES length	☐ resting LES pressu	ure	□ EGJ morphology	□ EGJ-CI	□ IRP
□ DCI	☐ distal latency	_	□ CFV	□ bolus transit	□ intrabolus pressure
☐ transition zone defect	☐ UES measurement	L	□ pharyngeal swallow	□ others:	

LES, lower esophageal sphincter; EGJ, esophagogastric junction; EGJ-CI, EGJ-contractile integral; IRP, integrated relaxation pressure; DCI, distal contractile integral; CFV, contractile front velocity; UES, upper esophageal sphincter.

This is the end of the survey. Thank you for responding.