

## Supplemental Tables:

### Table S1. Swallow type and peristaltic classification on high-resolution

manometry (HRM). Each of the ten supine liquid test swallows was assigned a swallow type and then cumulative proportions of each were applied to designate a peristaltic or contractility classification. Normal, weak, and hypercontractile swallows all with distal latency (DL) >4.5 seconds. DCI – distal contractile integral.

	Definition
<b>Swallow type</b>	
<b>Normal</b>	<ul style="list-style-type: none"> <li>• DCI 450-8,000 mmHg•s•cm without peristaltic break &gt;5cm</li> </ul>
<b>Ineffective:</b>	
<ul style="list-style-type: none"> <li>• Weak</li> <li>• Failed</li> </ul>	<ul style="list-style-type: none"> <li>• DCI 100-450 mmHg•s•cm or DCI &gt;450 mmHg•s•cm with peristaltic break &gt;5cm</li> <li>• DCI &lt;100 mmHg•s•cm</li> </ul>
<b>Hypercontractile</b>	<ul style="list-style-type: none"> <li>• DCI &gt;8,000 mmHg•s•cm</li> </ul>
<b>Premature</b>	<ul style="list-style-type: none"> <li>• DL &lt;4.5 seconds with DCI &gt;450 mmHg•s•cm</li> </ul>
<i>////</i>	<i>////</i>
<b>Peristaltic / contractile classification</b>	
<b>Absent contractility</b>	<ul style="list-style-type: none"> <li>• 100% failed peristalsis</li> </ul>
<b>Ineffective esophageal motility</b>	<ul style="list-style-type: none"> <li>• &gt;70% ineffective swallows or ≥50% failed swallows</li> </ul>
<b>Hypercontractile</b>	<ul style="list-style-type: none"> <li>• ≥20% hypercontractile swallows</li> </ul>
<b>Spasm</b>	<ul style="list-style-type: none"> <li>• ≥20% premature swallows</li> </ul>
<b>Normal peristalsis</b>	<ul style="list-style-type: none"> <li>• Not meeting above criteria</li> </ul>

**Table S2. Association of endoscopy sedation strategy on FLIP Panometry**

**contractile response pattern.** Each of the ten supine liquid high-resolution manometry (HRM) test swallows was assigned a swallow type and then cumulative proportions of each were applied to designate a peristaltic or contractility classification per Table S1.

MAC = monitored Anesthesia Care.

HRM-peristalsis pattern	Sedation strategy	FLIP Panometry Contractile Response Pattern					P-value
		Normal	Borderline	Impaired-disordered	Absent	Spastic-reactive	
Normal	Conscious, n (%)	88 (35)	77 (30)	54 (21)	15 (6)	20 (8)	0.102
	MAC, n (%)	4 (11)	12 (33)	12 (33)	6 (17)	2 (6)	
Ineffective	Conscious, n (%)	7 (14)	12 (23)	16 (31)	12 (23)	5 (10)	0.407
	MAC, n (%)	0	6 (25)	10 (42)	5 (21)	3 (13)	
Absent	Conscious, n (%)	0	5 (3)	41 (26)	104 (65)	10 (6)	0.544
	MAC, n (%)	0	1 (2)	10 (17)	43 (74)	4 (7)	
Spasm	Conscious, n (%)	6 (8)	8 (11)	32 (44)	6 (8)	20 (28)	0.645
	MAC, n (%)	0	3 (14)	9 (43)	3 (14)	6 (29)	
Hypercontractile	Conscious, n (%)	1 (5)	6 (29)	5 (24)	4 (19)	24 (3)	0.331
	MAC, n (%)	2 (25)	2 (25)	1 (13)	0	3 (38)	