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| Patient:  BREGER, Ilia  E2431020 | Gender: | Male | Physician: | WONG Terry Dr |
| DOB / Age: | 08/16/1970 | Operator: | DR JAFAR JAFARI |
| Height: | 5 ft 7 in | Referring Physician: |  |
| Procedure: | HIGH RESOLUTION MANOMETRY | Examination Date: | 02/12/2019 |

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| **Swallow Composite (mean of 10 swallows)** | **Resting Pressure Profile & Anatomy** | |
| C:\Program Files (x86)\SSI\ManoView ESO 3.0\Temp\@2019-12-08 23-21-44\@comp000.bmp | C:\Program Files (x86)\SSI\ManoView ESO 3.0\Temp\@2019-12-08 23-21-44\@comp001.bmp | **Basal Pressures\***  LES, respiratory min(mmHg) 7.3 (4.8-32.0)  LES, respiratory mean(mmHg) **9.8** (13-43)  UES mean(mmHg) **27.9** (34-104)  **Anatomy\***  LES proximal(cm) 45.8  LES distal(cm) 49.2  LES length(cm) 3.3 (2.7-4.8)  LES intraabdominal(cm) 0.8  PIP(cm) 48.4  UES (center)(cm) 20.8  Esophageal length(cm) 26.4  Hiatal hernia No |
| **Motility\***  LES percent relaxation(%) 58  Dist. wave amplitude(mmHg) 69.6 (43-152)  Wave dur. @ LES -3.0 & 7.0(s) 3.1 (2.7-5.4)  Onset vel. (LES -11.0 to -3.0)(cm/s) **2.6** (2.8-6.3)  Percent peristaltic(%) 100  Percent simultaneous(%) 0 (≤10%)  Percent failed(%) 0 (0%)  Distal contr. integral(mmHg-cm-s) 698.9 (500-5000)  Distal contr. int. (highest)(mmHg-cm-s) 979.0  Intrabolus P (@LESR)(mmHg) 1.8 (<8.4)  Intrabolus P (avg max)(mmHg) 11.5 (<17.0) | | **Residual Pressures\***  LES (mean)(mmHg) 6.8 (<15.0)  LES (highest)(mmHg) 8.5  UES (mean)(mmHg) 3.9 (<12.0) |

\*Notes. Motility values are mean among swallows; Normal values in (xxx.x): Simultaneous contractions: Velocity > 8.0 cm/s; eSlv: eSleeve; 3SN, IRP, DCI, IBP - See manual definitions

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| **Lower Esophageal Sphincter Region** |  | Normal | **Esophageal Motility** |  | Normal |
| Landmarks |  |  | Number of swallows evaluated | 10 |  |
| Proximal LES (from nares)(cm) | 45.8 |  | Evaluated @ 3.0 - 11.0 above LES |  |  |
| Distal LES (from nares)(cm) | 49.2 |  | Peristaltic (velocity ≤ 6.25 cm/s)(%) | 100 |  |
| LES length(cm) | 3.3 | 2.7-4.8 | Simultaneous (vel. ≥ 6.25 cm/s)(%) | 0 | ≤10% |
| Esophageal length (LES-UES centers)(cm) | 26.4 |  | Failed(%) | 0 | 0% |
| PIP (from nares)(cm) | 48.4 |  | Evaluated @ 3.0 & 7.0 above LES |  |  |
| Intraabdominal LES length(cm) | 0.8 |  | Mean wave amplitude(mmHg) | 69.6 | 43-152 |
| Hiatal hernia? | No |  | Mean wave duration(s) | 3.1 | 2.7-5.4 |
| LES Pressures |  |  | Double-peaked waves(%) | **20** | ≤15% |
| Pressure meas. method | eSleeve,IRP |  | Triple-peaked waves(%) | **10** | 0% |
| Basal (respiratory min.)(mmHg) | 7.3 | 4.8-32.0 | Velocity (11.0-3.0 above LES)(cm/s) | **2.6** | 2.8-6.3 |
| Basal (respiratory mean)(mmHg) | **9.8** | 13-43 | High Resolution Parameters |  |  |
| Residual (mean)(mmHg) | 6.8 | <15.0 | Distal contractile integral(mean)(mmHg-cm-s) | 698.9 | 500-5000 |
| Residual (highest)(mmHg) | 8.5 |  | Distal contractile integral(highest)(mmHg-cm-s) | 979.0 |  |
| Percent relaxation(%) | 58 |  | Contractile front velocity(cm/s) | 2.5 | <9.0 |
|  |  |  | Intrabolus pressure (@LESR)(mmHg) | 1.8 | <8.4 |
|  |  |  | Intrabolus pressure (avg max)(mmHg) | 11.5 | <17.0 |
|  |  |  | Chicago Classification |  |  |
|  |  |  | Distal latency | 7.4 |  |
|  |  |  | % failed (Chicago Classification) | 0 |  |
|  |  |  | % panesophageal pressurization | 0 |  |
|  |  |  | % premature contraction | 0 |  |
|  |  |  | % rapid contraction | 0 |  |
|  |  |  | % large breaks | 0 |  |
|  |  |  | % small breaks | 10 |  |
|  |  |  |  |  |  |
| **Upper Esophageal Sphincter** |  | Normal | **Pharyngeal / UES Motility** |  | Normal |
| Location (center, fr. nares)(cm) | 20.8 |  | No. swallows evaluated | 10 |  |
| Mean basal pressure(mmHg) | **27.9** | 34-104 | Evaluated @ 3.0 & N/A above UES |  |  |
| Mean residual pressure(mmHg) | 3.9 | <12.0 | Mean peak pressure(mmHg) | 12.6 |  |
| Relaxation time-to-nadir(ms) | 128 | 74-365 |  |  |  |
| Relaxation duration(ms) | 666 | 480-1020 |  |  |  |

**Procedure**

**Indications**

**Interpretation / Findings**

**Impressions**

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| Swallow #1  C:\Program Files (x86)\SSI\ManoView ESO 3.0\Temp\@2019-12-08 23-21-44\@plot000.bmp | Swallow #2  C:\Program Files (x86)\SSI\ManoView ESO 3.0\Temp\@2019-12-08 23-21-44\@plot001.bmp |
| Swallow #3  C:\Program Files (x86)\SSI\ManoView ESO 3.0\Temp\@2019-12-08 23-21-44\@plot002.bmp | Swallow #4  C:\Program Files (x86)\SSI\ManoView ESO 3.0\Temp\@2019-12-08 23-21-44\@plot003.bmp |
| Swallow #5  C:\Program Files (x86)\SSI\ManoView ESO 3.0\Temp\@2019-12-08 23-21-44\@plot004.bmp | Swallow #6  C:\Program Files (x86)\SSI\ManoView ESO 3.0\Temp\@2019-12-08 23-21-44\@plot005.bmp |
| Swallow #7  C:\Program Files (x86)\SSI\ManoView ESO 3.0\Temp\@2019-12-08 23-21-44\@plot006.bmp | Swallow #8  C:\Program Files (x86)\SSI\ManoView ESO 3.0\Temp\@2019-12-08 23-21-44\@plot007.bmp |
| Swallow #9  C:\Program Files (x86)\SSI\ManoView ESO 3.0\Temp\@2019-12-08 23-21-44\@plot008.bmp | Swallow #10  C:\Program Files (x86)\SSI\ManoView ESO 3.0\Temp\@2019-12-08 23-21-44\@plot009.bmp |
| Landmark Id  C:\Program Files (x86)\SSI\ManoView ESO 3.0\Temp\@2019-12-08 23-21-44\@plot010.bmp |  |

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|  | **Normal** | Group / Mean | Swal.  #1 | Swal.  #2 | Swal.  #3 | Swal.  #4 | Swal.  #5 | Swal.  #6 | Swal.  #7 | Swal.  #8 | Swal.  #9 | Swal.  #10 |
| ESOPHAGEAL MOTILITY |  |  |  |  |  |  |  |  |  |  |  |  |
| LES residual pressure (mmHg) | <15.0 | 6.8 | 6.3 | 7.3 | 4.6 | 6.1 | 6.7 | 8.5 | 7.5 | 6.7 | 6.8 | 7.1 |
| Classic ManoView |  |  |  |  |  |  |  |  |  |  |  |  |
| Wave amplitude (mean, 3.0 & 7.0 above LES) (mmHg) | 43-152 | 69.6 | 63.8 | 78.4 | 70.1 | 70.8 | 75.9 | 73.0 | 70.2 | 65.4 | 63.6 | 64.6 |
| Wave duration (mean at 3.0 & 7.0 above LES) (sec) | 2.7-5.4 | 3.1 | 2.8 | 3.7 | 2.6 | 2.7 | 3.1 | 3.0 | 3.1 | 3.4 | 3.1 | 3.3 |
| Onset velocity (between 11.0 & 3.0 above LES) (cm/s) | 2.8-6.3 | **2.6** | 2.6 | 2.6 | 2.7 | 2.3 | 2.7 | 2.6 | 2.5 | 2.8 | 2.7 | 2.4 |
| % peristaltic (between 11.0 & 3.0 above LES) |  | 100 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| % simultaneous (between 11.0 & 3.0 above LES) | ≤10% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % failed (between 11.0 & 3.0 above LES) | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Double peaked swallows (% of Swallows) | ≤15% | **20** | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Triple peaked swallows (% of Swallows) | 0% | **10** | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| High Resolution Parameters |  |  |  |  |  |  |  |  |  |  |  |  |
| Distal contractile integral (mmHg-cm-s) | 500-5000 | 698.9 | 686.5 | 979.0 | 565.3 | 701.1 | 684.6 | 776.1 | 661.0 | 707.9 | 524.8 | 702.0 |
| Distal contractile integral (highest in group) (mmHg-cm-s) |  | 979.0 |  |  |  |  |  |  |  |  |  |  |
| Contractile front velocity (cm/s) | <9.0 | 2.5 | 2.6 | 2.4 | 2.6 | 2.9 | 2.1 | 2.7 | 2.5 | 2.3 | 2.1 | 2.5 |
| Intrabolus pressure (@LESR,mmHg) | <8.4 | 1.8 | 0.3 | 2.7 | 0.4 | 1.4 | 1.8 | 2.9 | 2.5 | 1.9 | 1.3 | 3.1 |
| Intrabolus pressure (avg max,mmHg) | <17.0 | 11.5 | 9.0 | 11.3 | 9.8 | 10.1 | 13.6 | 10.6 | 14.6 | 11.8 | 11.3 | 13.2 |
| Chicago Classification |  |  |  |  |  |  |  |  |  |  |  |  |
| Distal latency (sec) |  | 7.4 | 6.5 |  | 7.5 | 7.0 | 8.3 | 6.8 | 7.2 | 7.6 | 8.2 | 7.4 |
| % failed (Chicago Classification) |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % panesophageal pressurization |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % premature contraction |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % rapid contraction |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % large breaks |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % small breaks |  | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| UES / PHARYNGEAL MOTILITY |  |  |  |  |  |  |  |  |  |  |  |  |
| UES residual pressure (mean) (mmHg) | <12.0 | 3.9 | 3.1 | 4.0 | 3.9 | 1.5 | 2.4 | 2.1 | 4.7 | 5.4 | 5.7 | 6.2 |
| UES relaxation time-to-nadir (msec) | 74-365 | 128 | 220 | 70 | 60 | 80 | 100 | 220 | 140 | 140 | 100 | 150 |
| UES relaxation duration (msec) | 480-1020 | 666 | 530 | 690 | 620 | 580 | 620 | 650 | 670 | 650 | 780 | 870 |