**Apache POI works well!**

Oesophageal Physiology Report

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Procedure date: 25/11/2019

Procedure: High resolution manometry and 24 hour Reflux Monitoring

Indications: persistent belching and dyspepsia

Dear Dr XXXX,

Thank you for referring this pleasant gender for oesophageal physiology testing. Please see the following report and do let me know if I can be of any assistance.

HRM

Upper Oesophageal Sphincter: The UOS was sms smsa sms and showed value2 on wet-swallows.

Tubular oesophagus: The oesophageal body produced ; ----/10 swallows were weak, ---/10 failed.

Lower Oesophageal Sphincter: The LOS was and showed on wet-swallows. There was hiatus hernia.

Diagnosis of HRM:

24 hour pH-Impedance Reflux Monitoring:

Distal Oesophagus: total: 6.4%, normal <; upright: 4.1%, normal <; supine: 8.1%, normal <; DeMeester score: 23.4, normal <14.72; : total 72,

Reflux-symptom correlations: Symp1 =belching: 184 episodes, SI=82%, SAP=100%; Positive SI >= 50%, Positive SAP >95%;

Conclusion of reflux monitoring: ;

Physician: Ronald J Ede Consultant physician and Gastroenterologist

Patient: patientname

Lower Esophageal Sphincter Region Normal Esophageal Motility Normal

Landmarks Number of swallows evaluated 10

Proximal LES (from nares)(cm) 43.7 Evaluated @ 3.0 - 11.0 above LES

LES length(cm) 3.4 2.7-4.8 Peristaltic (velocity ≤ 6.25 cm/s)(%) 100

Esophageal length (LES-UES centers)(cm) 24.0 Simultaneous (vel. ≥ 6.25 cm/s)(%) 0 ≤10%

Intraabdominal LES length(cm) 1.1 Failed(%) 0 0%

Hiatal hernia? No Evaluated @ 3.0 & 7.0 above LES

LES Pressures Mean wave amplitude(mmHg) 61.5 43-152

Pressure meas. method eSleeve,IRP Mean wave duration(s) 2.7 2.7-5.4

Basal (respiratory min.)(mmHg) 16.9 4.8-32.0 Double-peaked waves(%) 0 ≤15%

Basal (respiratory mean)(mmHg) 25.9 13-43 Triple-peaked waves(%) 0 0%

Residual (mean)(mmHg) 13.2 <15.0 Velocity (11.0-3.0 above LES)(cm/s) 3.4 2.8-6.3

High Resolution Parameters

Upper Esophageal Sphincter Normal Distal contractile integral(mean)(mmHg-cm-s) 693.1 500-5000

Mean basal pressure(mmHg) 36.5 34-104 Contractile front velocity(cm/s) 3.4 <9.0

Mean residual pressure(mmHg) 8.1 <12.0 Intrabolus pressure (@LESR)(mmHg) 7.6 <8.4

Intrabolus pressure (avg max)(mmHg) 21.5 <17.0

Chicago Classification

Distal latency 6.8

% small breaks 10

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