

# FECAL INCONTINENCE CASE



## Diagnostic Anorectal Manometry

### Patient:

Name:  
Patient ID:  
Gender: Female  
DOB/Age: 07/24/1948

Physician:  
Operator:  
Referring Physician:  
Examination Date:

### Summary:

#### Resting

Anal mean (mmHg) 40  
Anal max (mmHg) 46

#### Squeeze

Anal mean (mmHg) 49  
Anal max (mmHg) 59  
Squeeze Duration (sec) 1

#### Sensation

Rectal Capacity (cc)  
RAIR (%) absent  
RB Volume at RAIR Threshold (cc) absent

#### Expel Empty

Rectal Pressure (Gradient) (mmHg) 35  
Anal Pressure (Gradient) (mmHg) 48  
Anorectal Gradient (mmHg) -14

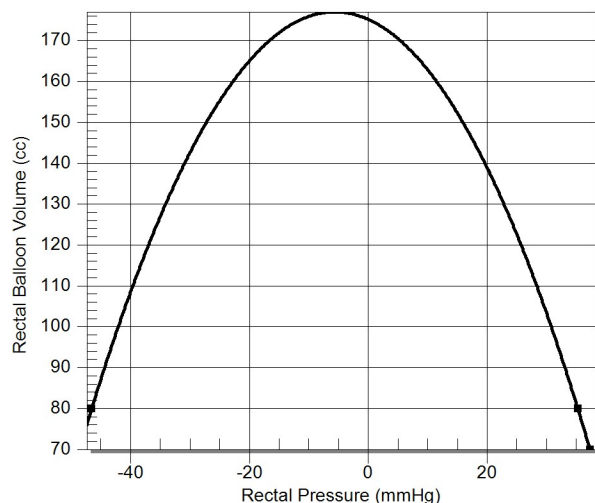
#### Expel Full

Rectal Pressure (Gradient) (mmHg) 54  
Anal Pressure (Gradient) (mmHg) 39  
Anorectal Gradient (mmHg) 16

#### Exhale

Anal mean (mmHg) 31  
Anal max (mmHg) 57

Rectal Compliance



### Indications:

fecal incontinence

Patient ID:

**Notes:**

**Test Description:**

After patient completed pre-procedure enema a digital rectal exam was performed. The ARM system was calibrated and the catheter with balloon attached was inserted to zero station and resting pressures were obtained. A second series of resting pressures were obtained at station 1 and 2, and the highest of these pressures were used for baseline resting pressure. Three separate squeezing tests were performed each for 20 seconds followed by straining on an empty balloon and a 60cc balloon. Finally, we measured how much volume in the balloon was required for the patient to first feel the balloon, to have the desire and urge to defecate, and to feel uncomfortable with the balloon. RAIR was calculated. Medspira mcompass software was used to evaluate the data and the curve was reviewed.

**Results of Studies:**

Mean Resting Pressure: 40 mmHg  
Mean Squeezing Pressure: 49 mmHg  
Expel Empty Pressure Gradient: -14 mmHg  
Expel Full Pressure Gradient: 16 mmHg  
Rectoanal Inhibitory Reflex: absent  
Balloon Sensation was first noted at: 70 cc  
Desire Sensation: 80 cc  
Urge Sensation: 80 cc  
Exhale Pressures: 31 mmHg

**Summary:**

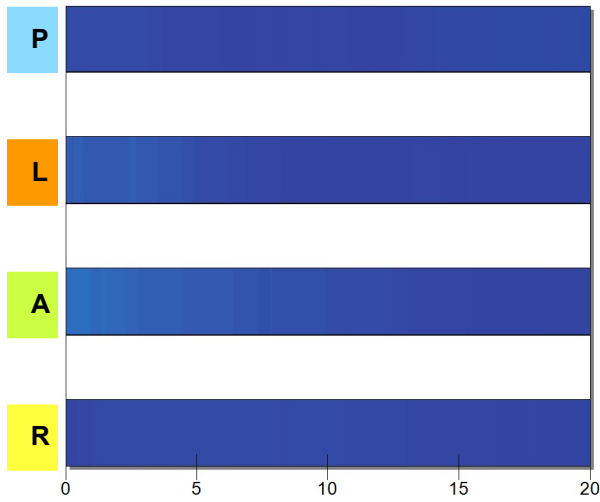
1. Decreased resting pressures.
2. Low squeezing pressures.
3. Evidence of paradoxical activity during expulsion (straining) consistent with mild dyssynergia.
4. RAIR was absent.
5. 1st Sensation, Desire and Urgency were perceived at 70, 80, 80 CCs, which are slightly delayed.
6. Low exhale pressures.

**Impression:** Low anal pressures, with mild dyssynergia, RAIR absent. Delayed volume perception for sensation. Low exhale pressures are consistent and suggestive of FI.

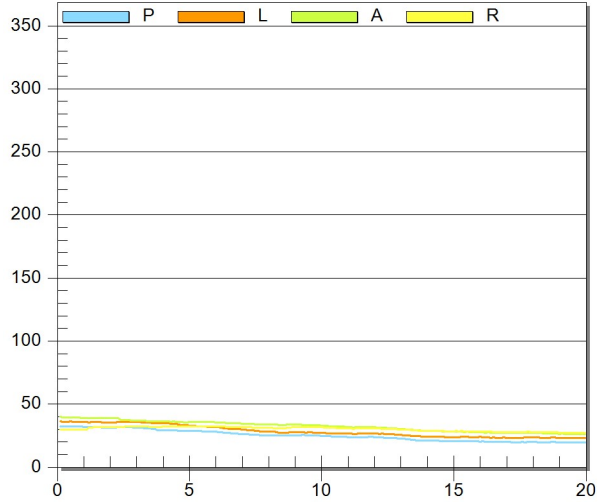
**Recommendation:** Patient will benefit from bowel regimen with fiber supplementations. Obtain EMG and investigative biofeedback therapy session. In case of no/minimal results from biofeedback, order sacral nerve modulation therapy (InterStim).

Patient ID:

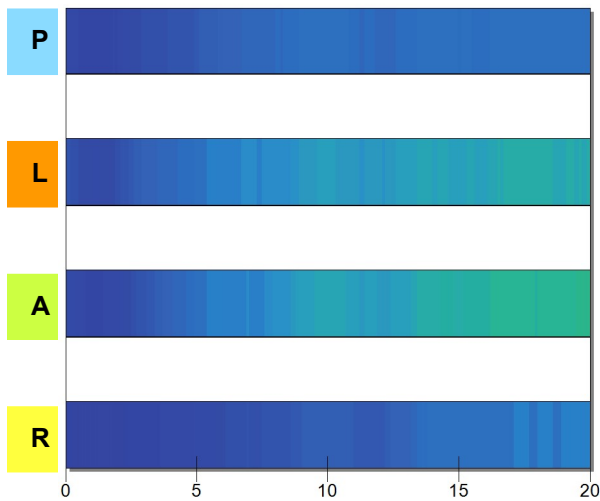
Resting 1 Depth: 0 cm



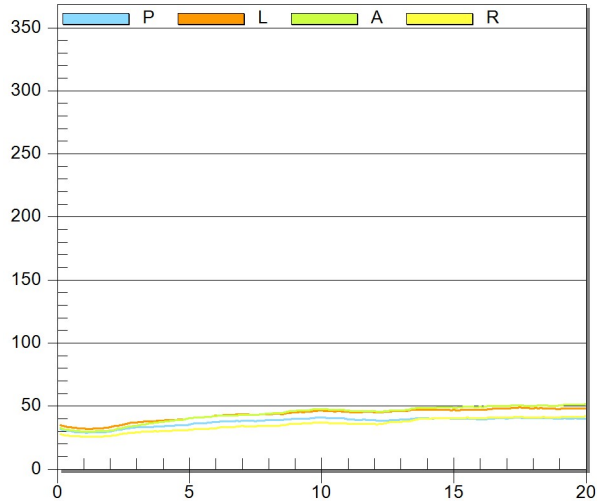
Resting 1 Depth: 0 cm



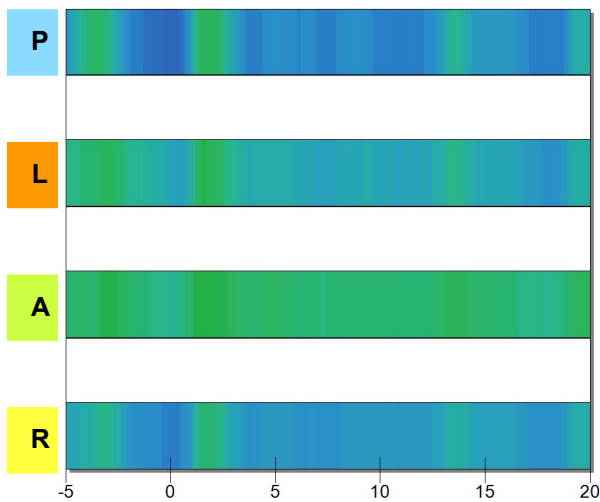
Resting 2 Depth: 1 cm



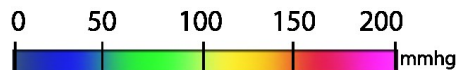
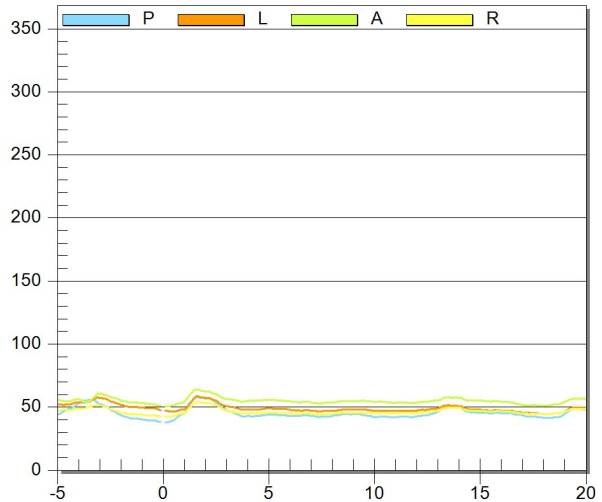
Resting 2 Depth: 1 cm



Squeeze 1 Depth: 1 cm

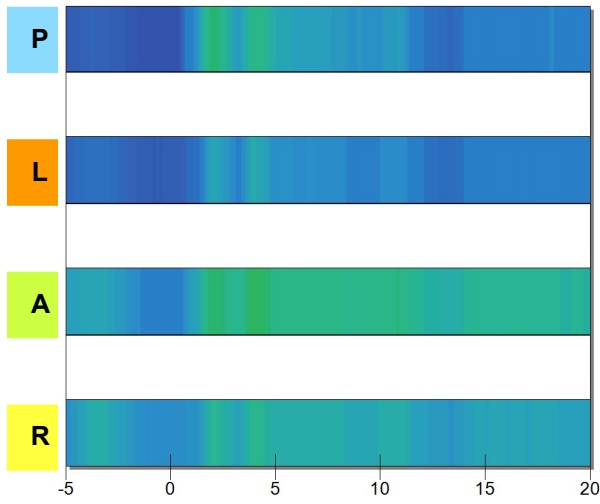


Squeeze 1 Depth: 1 cm

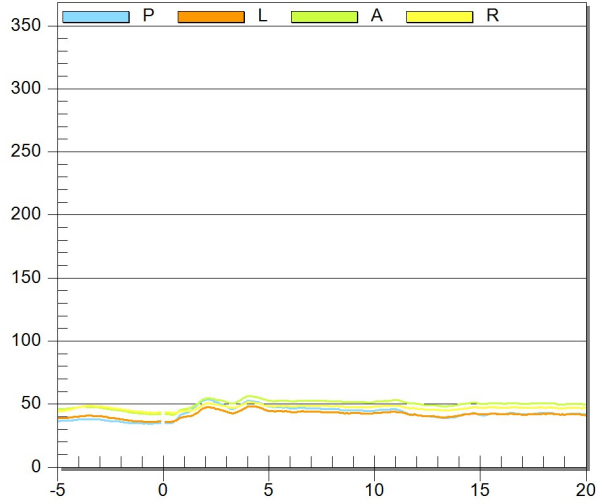


Patient ID:

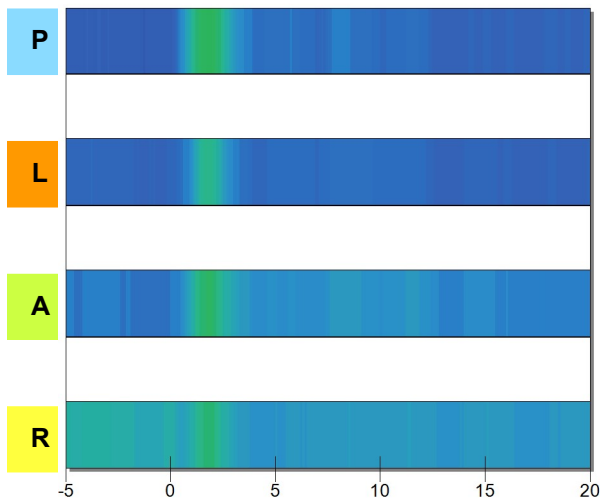
Squeeze 2 Depth: 1 cm



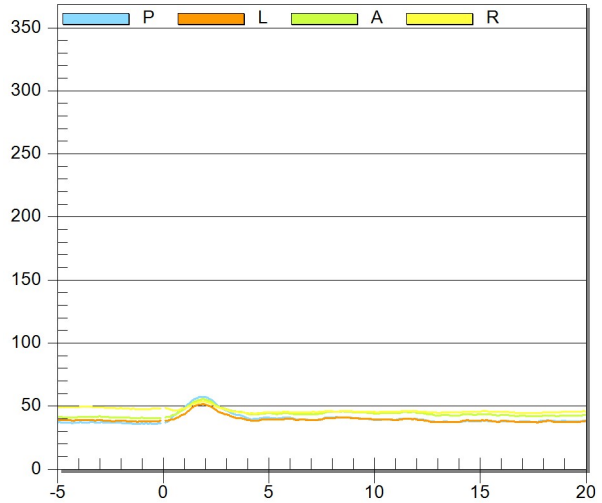
Squeeze 2 Depth: 1 cm



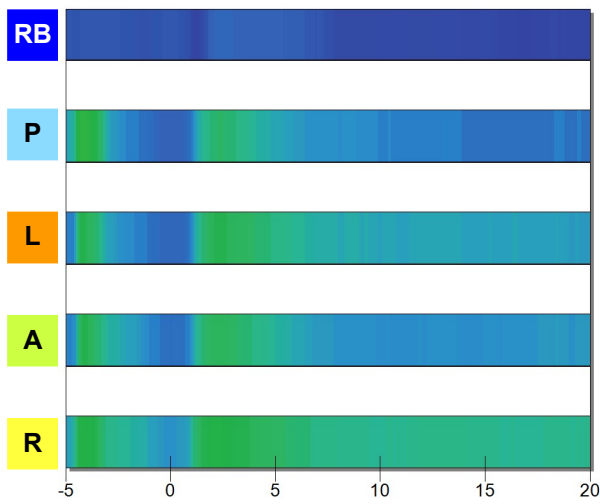
Squeeze 3 Depth: 1 cm



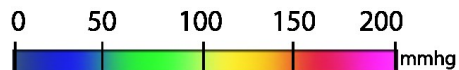
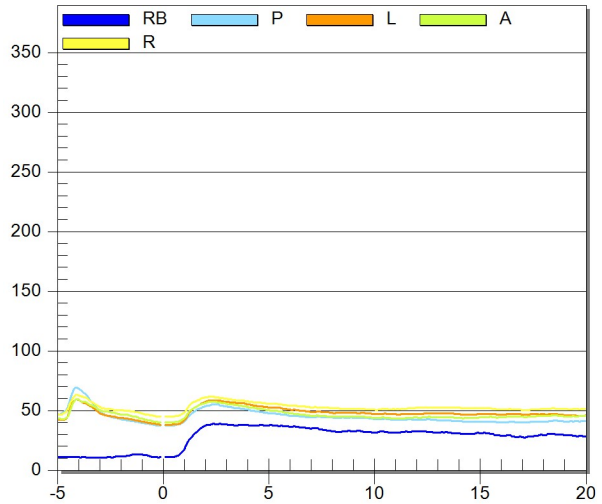
Squeeze 3 Depth: 1 cm



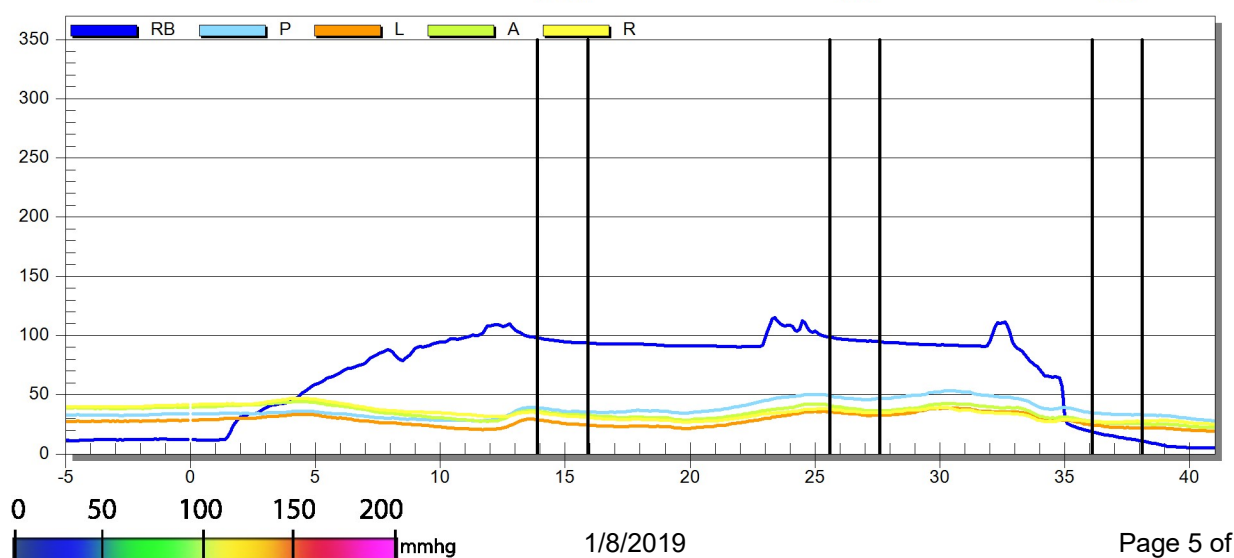
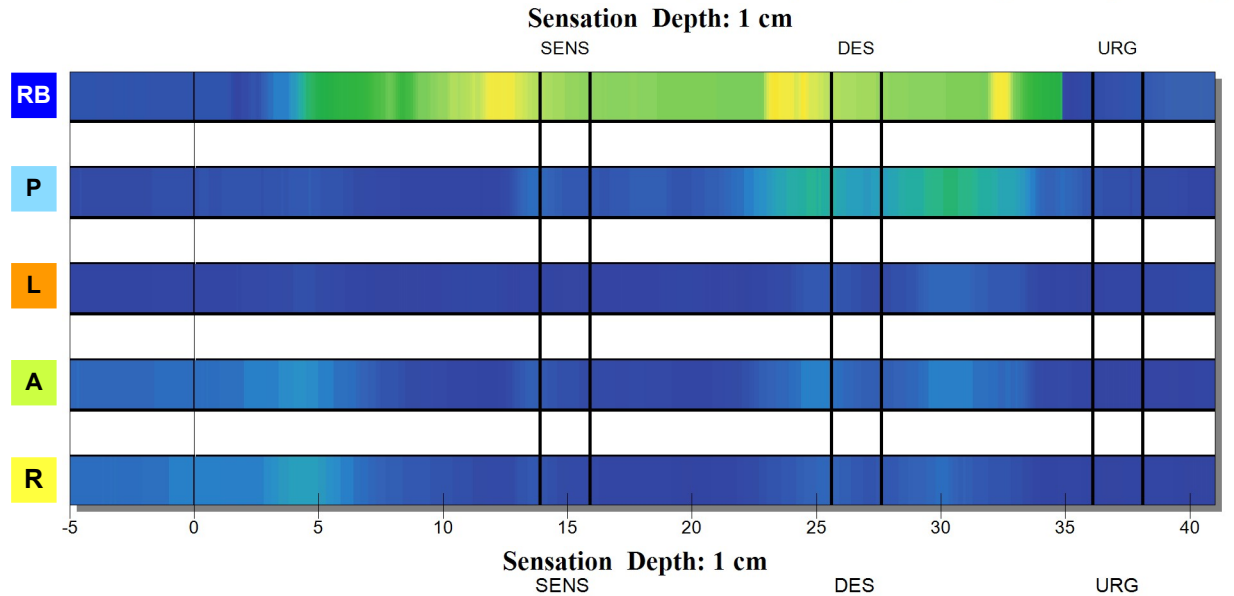
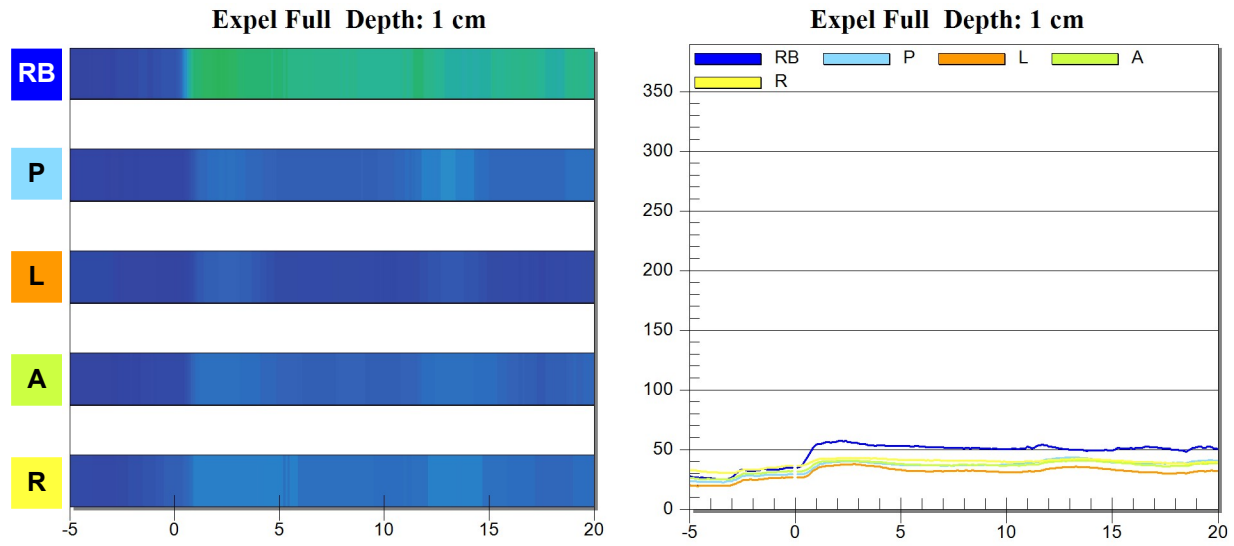
Expel Empty Depth: 1 cm



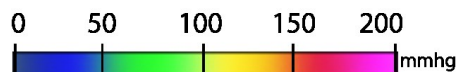
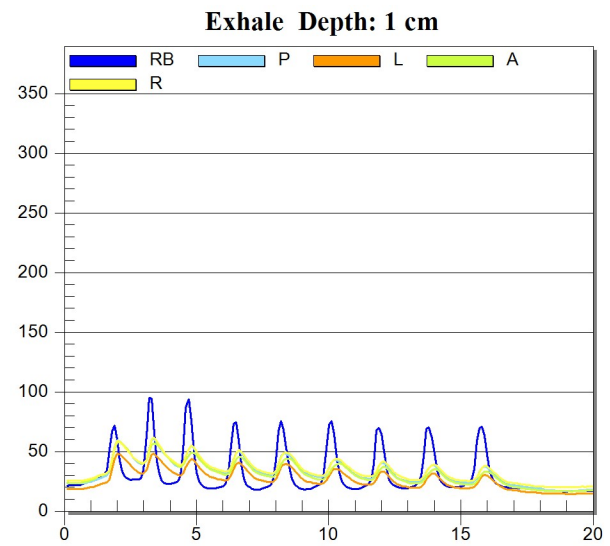
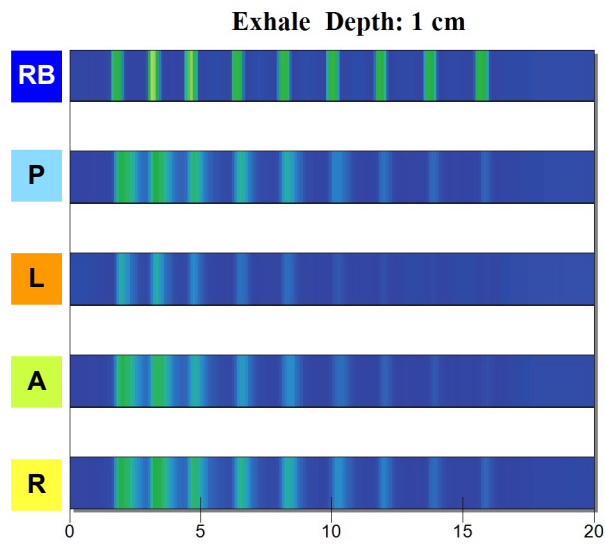
Expel Empty Depth: 1 cm



Patient ID:



Patient ID:



1/8/2019

Patient ID:

**Resting**

Maneuver #	1	2
Catheter Depth (cm)	0	1
P Max (mmHg)	33	41
L Max (mmHg)	36	49
A Max (mmHg)	40	51
R Max (mmHg)	32	42
P Mean (mmHg)	25	38
L Mean (mmHg)	28	43
A Mean (mmHg)	32	44
R Mean (mmHg)	30	35
Anal Max (mmHg)	35	46
Anal Mean (mmHg)	29	40

**Squeeze**

Maneuver #	1	2	3
Catheter Depth (cm)	1	1	1
P Max (mmHg)	58	54	57
L Max (mmHg)	59	48	51
A Max (mmHg)	64	56	56
R Max (mmHg)	54	52	54
P Mean (mmHg)	45	44	41
L Mean (mmHg)	48	43	40
A Mean (mmHg)	55	51	45
R Mean (mmHg)	46	47	46
Anal Max (mmHg)	59	52	55
Anal Mean (mmHg)	49	46	43
Squeeze Duration (sec)	1	5	2

Patient ID:

**Expel Empty**

Maneuver #	1
Catheter Depth (cm)	1
RB Volume (cc)	10
P Min (mmHg)	37
L Min (mmHg)	38
A Min (mmHg)	40
R Min (mmHg)	45
P Mean (mmHg)	44
L Mean (mmHg)	49
A Mean (mmHg)	46
R Mean (mmHg)	53
Anal Min (mmHg)	40
Anal Mean (mmHg)	48
RB Max Pressure (mmHg)	39
RB Mean Pressure (mmHg)	32
Anal Relaxation (%)	1
Rectal Pressure Change (%)	179
Rectal Pressure (Gradient) (mmHg)	35
Anal Pressure (Gradient) (mmHg)	48
Anorectal Gradient (mmHg)	-14

**Expel Full**

Maneuver #	1
Catheter Depth (cm)	1
RB Volume (cc)	50
RB Diameter (mm)	48
P Min (mmHg)	29
L Min (mmHg)	26
A Min (mmHg)	31
R Min (mmHg)	36
P Mean (mmHg)	38
L Mean (mmHg)	33
A Mean (mmHg)	38
R Mean (mmHg)	41
Anal Min (mmHg)	31
Anal Mean (mmHg)	37
RB Max Pressure (mmHg)	57
RB Mean Pressure (mmHg)	51
Anal Relaxation (%)	-36
Rectal Pressure Change (%)	71
Rectal Pressure (Gradient) (mmHg)	54
Anal Pressure (Gradient) (mmHg)	39
Anorectal Gradient (mmHg)	16



Patient ID:

**Sensation**

Maneuver #	1			
Catheter Depth (cm)	1			
Rectal Capacity (cc)				
RAIR (%)	absent			
RB Volume at RAIR Threshold (cc)	absent			
Type	SENS	DES	URG	
P Max (mmHg)	39	49	35	
L Max (mmHg)	29	36	25	
A Max (mmHg)	36	41	28	
R Max (mmHg)	35	38	28	
P Mean (mmHg)	37	47	34	
L Mean (mmHg)	26	34	23	
A Mean (mmHg)	34	38	26	
R Mean (mmHg)	33	36	27	
Anal Max (mmHg)	35	41	29	
Anal Mean (mmHg)	32	39	27	
RB Volume (cc)	70	80	80	
RB Diameter (mm)	53	55	55	
RB Mean Pressure (mmHg)	37	35	-47	

**Exhale**

Maneuver #	1
Catheter Depth (cm)	1
RB Volume (cc)	10
P Max (mmHg)	60
L Max (mmHg)	48
A Max (mmHg)	58
R Max (mmHg)	62
P Mean (mmHg)	33
L Mean (mmHg)	26
A Mean (mmHg)	31
R Mean (mmHg)	34
Anal Max (mmHg)	57
Anal Mean (mmHg)	31