

CONSTIPATION CASE



Diagnostic Anorectal Manometry

Patient:

Name:
Patient ID:
Gender: Female
DOB/Age: 07/13/1981

Physician:
Operator:
Referring Physician:

Summary:

Resting

Anal mean (mmHg) 59
Anal max (mmHg) 62

Squeeze

Anal mean (mmHg) 81
Anal max (mmHg) 120
Squeeze Duration (sec) 2

Sensation

Rectal Capacity (cc)
RAIR (%) present, 37
RB Volume at RAIR Threshold (cc) 60

Expel Empty

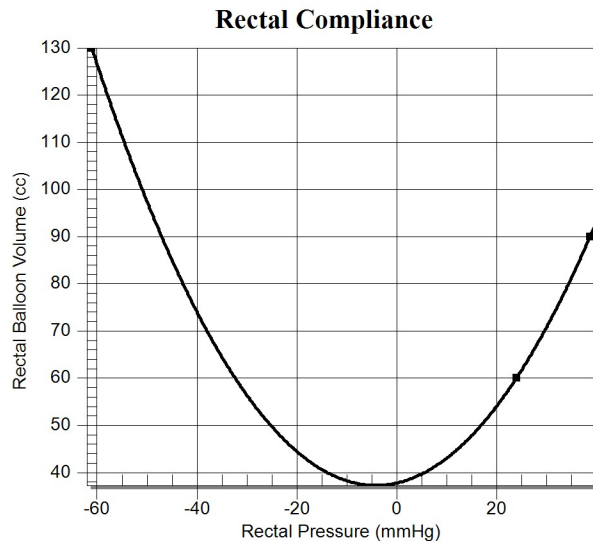
Rectal Pressure (Gradient) (mmHg) 15
Anal Pressure (Gradient) (mmHg) 60
Anorectal Gradient (mmHg) -45

Expel Full

Rectal Pressure (Gradient) (mmHg) 22
Anal Pressure (Gradient) (mmHg) 65
Anorectal Gradient (mmHg) -42

Exhale

Anal mean (mmHg) 75
Anal max (mmHg) 114



Indications:

Constipation

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: 59 mmHg
Mean Squeezing Pressure: 81 mmHg
Expel Empty Pressure Gradient: -45 mmHg
Expel Full Pressure Gradient: -42 mmHg
Rectoanal Inhibitory Reflex: present, 37%
Balloon Sensation was first noted at: 60 cc
Desire Sensation: 90 cc
Urge Sensation: 130 cc
Exhale Pressures: 75 mmHg

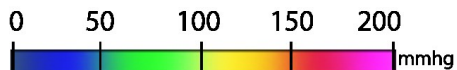
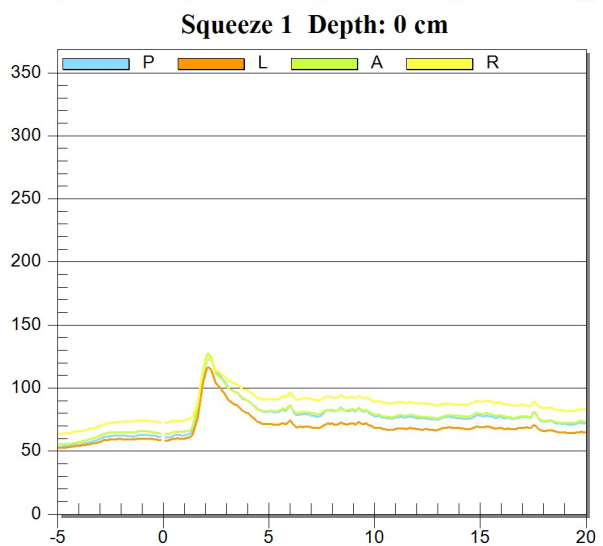
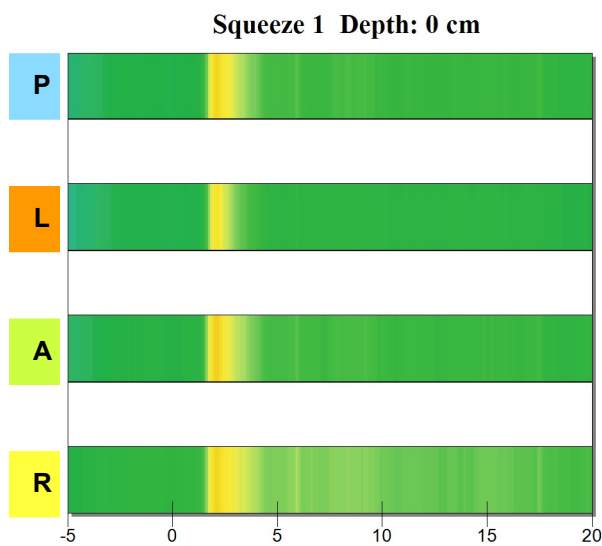
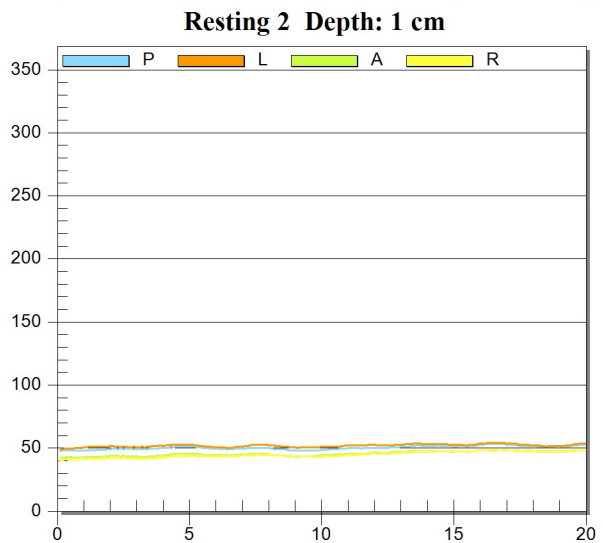
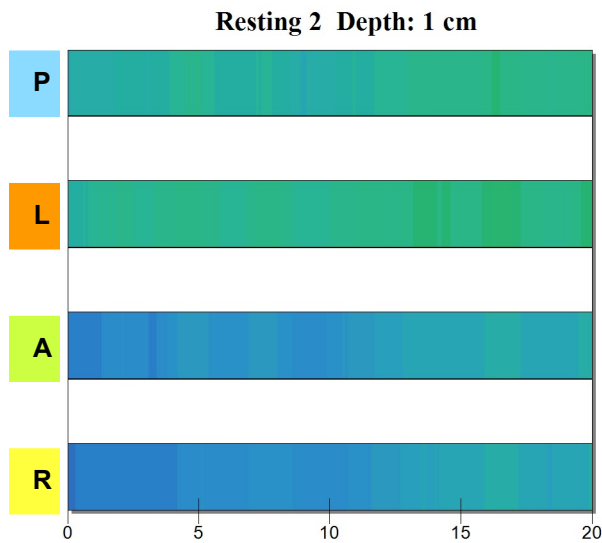
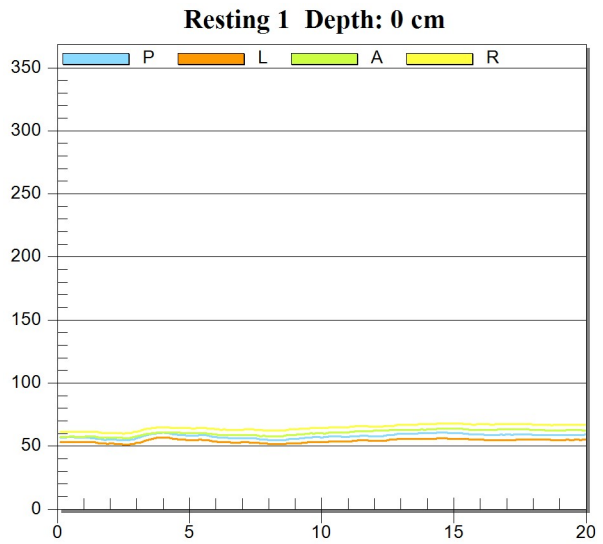
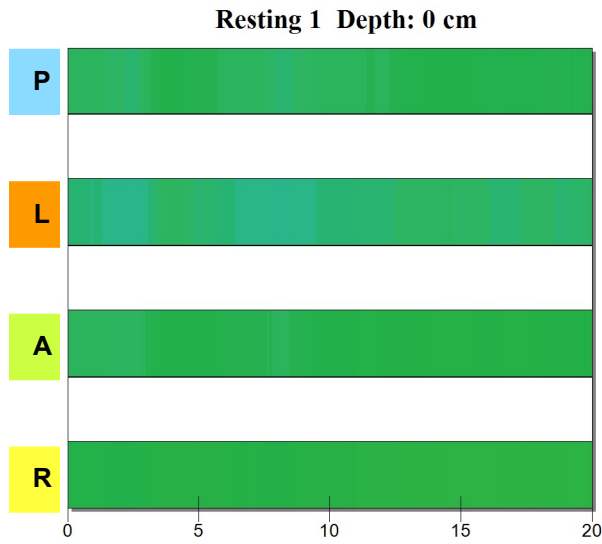
Summary:

1. Normal resting pressures.
2. Decreased squeezing pressures.
3. Evidence of paradoxical activity during expulsion (straining) consistent with moderate dyssynergia.
4. RAIR present, 37%
5. 1st Sensation, Desire and Urgency were perceived at 60, 90, 130 CCs, which are slightly delayed.
6. Decreased exhale pressures.

Impression: Low anal pressures, with moderate dyssynergia, RAIR present. Slightly delayed volume perception. Exhale pressures not suggestive of FI.

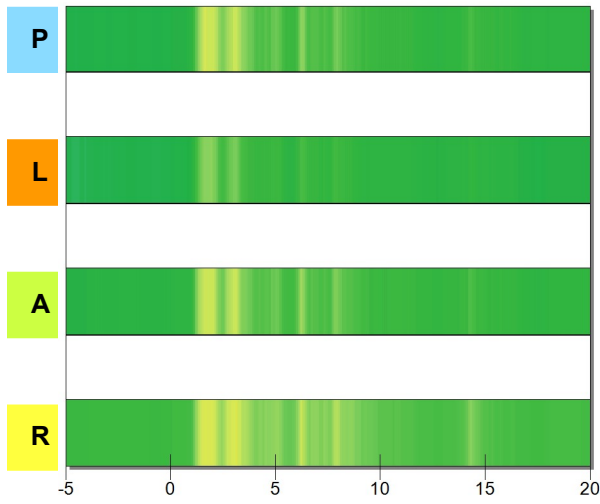
Recommendation: Patient will benefit from bowel regimen with fiber supplementations. Obtain EMG and biofeedback therapy.

Patient ID:

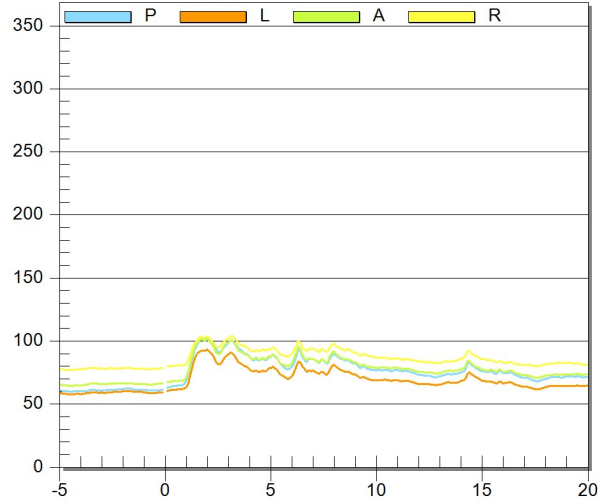


Patient ID:

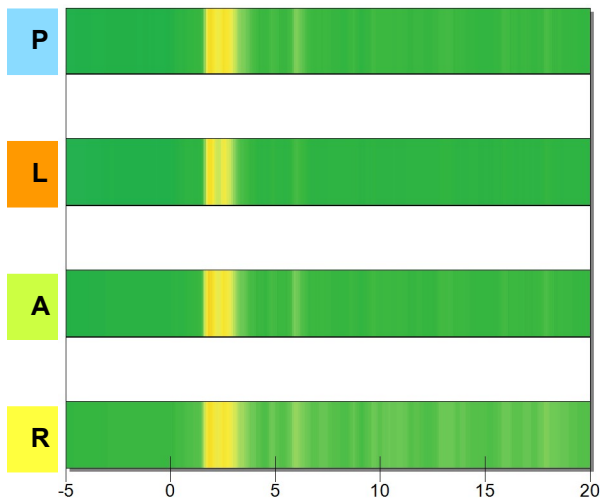
Squeeze 2 Depth: 0 cm



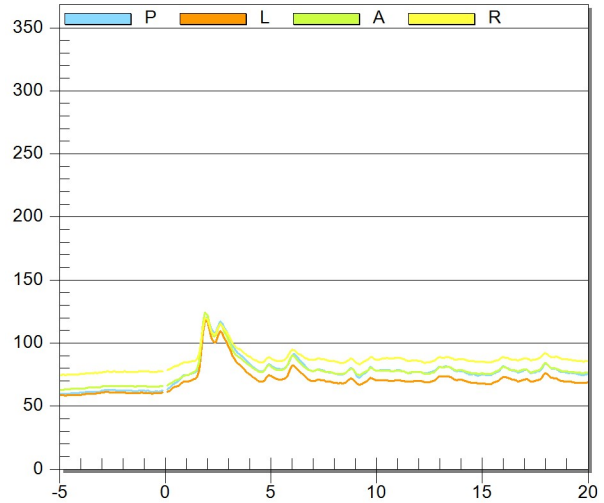
Squeeze 2 Depth: 0 cm



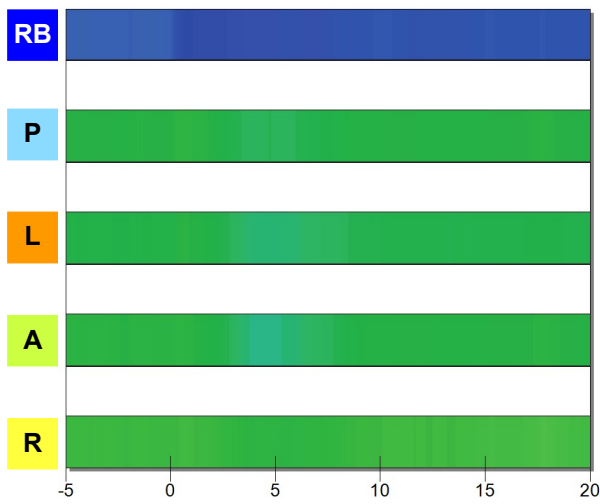
Squeeze 3 Depth: 0 cm



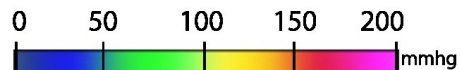
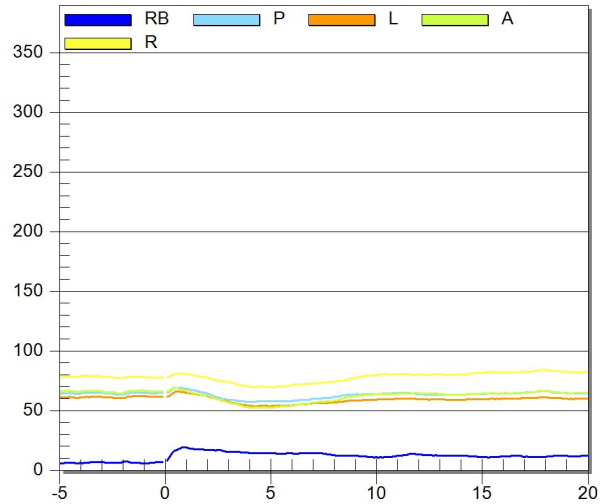
Squeeze 3 Depth: 0 cm



Expel Empty Depth: 0 cm

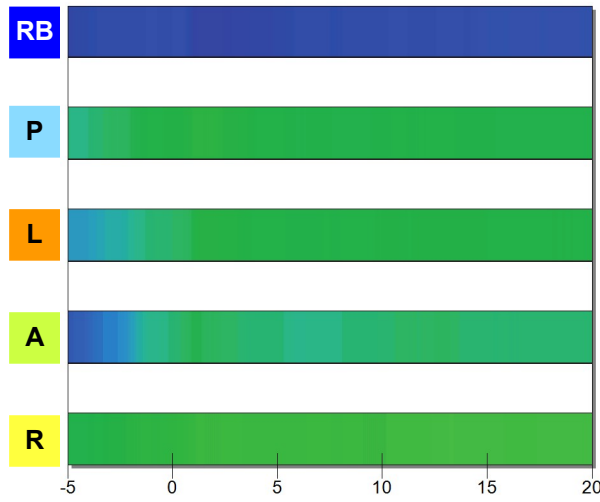


Expel Empty Depth: 0 cm



Patient ID:

Expel Full Depth: 0 cm

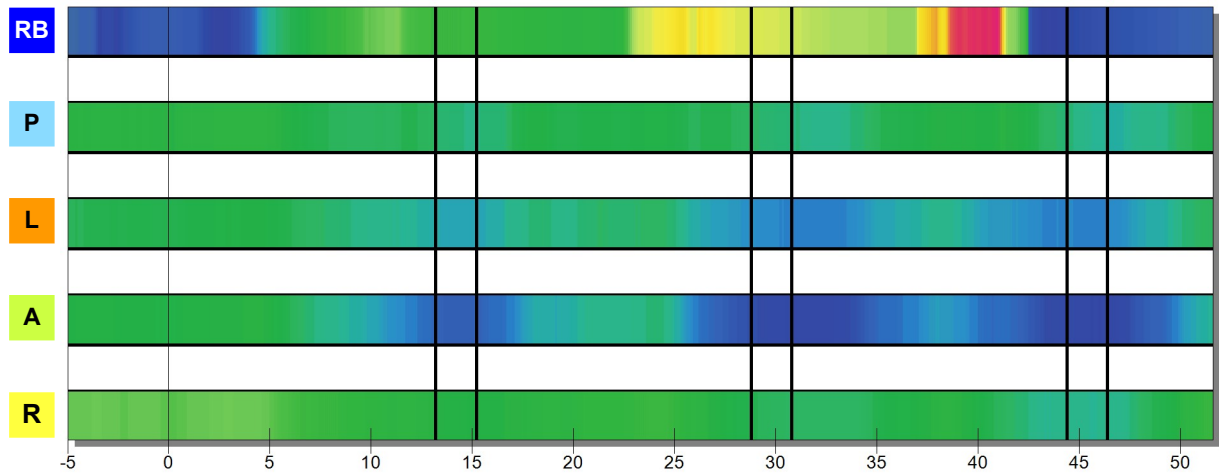


Sensation Depth: 0 cm

SENS

DES

URG

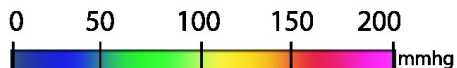
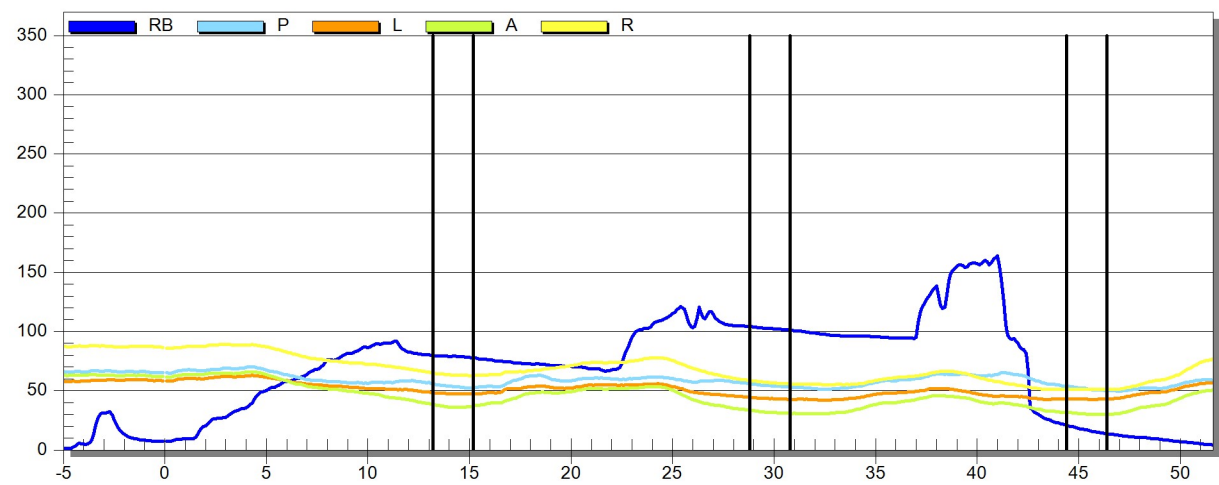


Sensation Depth: 0 cm

SENS

DES

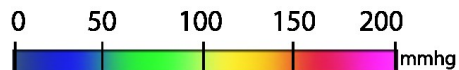
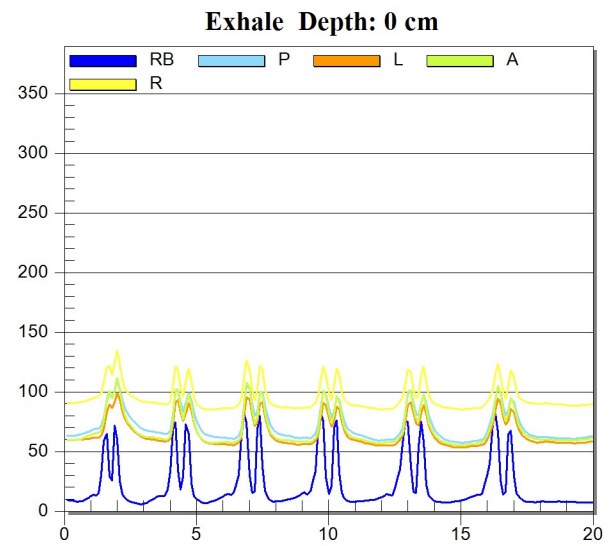
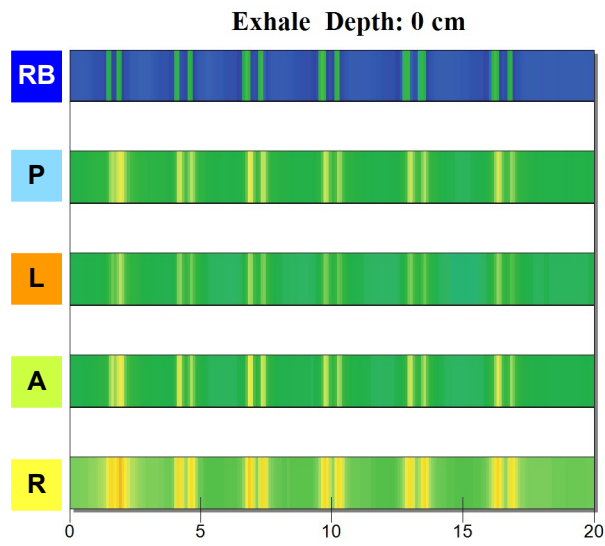
URG



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Patient ID:

Resting

Maneuver #	1	2
Catheter Depth (cm)	0	1
P Max (mmHg)	61	53
L Max (mmHg)	57	54
A Max (mmHg)	64	48
R Max (mmHg)	68	48
P Mean (mmHg)	58	50
L Mean (mmHg)	54	52
A Mean (mmHg)	61	46
R Mean (mmHg)	65	45
Anal Max (mmHg)	62	51
Anal Mean (mmHg)	59	48

Squeeze

Maneuver #	1	2	3
Catheter Depth (cm)	0	0	0
P Max (mmHg)	123	102	120
L Max (mmHg)	116	93	118
A Max (mmHg)	127	102	125
R Max (mmHg)	124	104	120
P Mean (mmHg)	80	79	81
L Mean (mmHg)	71	72	74
A Mean (mmHg)	81	81	81
R Mean (mmHg)	90	88	89
Anal Max (mmHg)	123	100	120
Anal Mean (mmHg)	81	80	81
Squeeze Duration (sec)	2	4	2

Patient ID:

Expel Empty

Maneuver #	1
Catheter Depth (cm)	0
RB Volume (cc)	10
P Min (mmHg)	57
L Min (mmHg)	54
A Min (mmHg)	52
R Min (mmHg)	70
P Mean (mmHg)	63
L Mean (mmHg)	59
A Mean (mmHg)	62
R Mean (mmHg)	78
Anal Min (mmHg)	58
Anal Mean (mmHg)	65
RB Max Pressure (mmHg)	19
RB Mean Pressure (mmHg)	13
Anal Relaxation (%)	3
Rectal Pressure Change (%)	107
Rectal Pressure (Gradient) (mmHg)	15
Anal Pressure (Gradient) (mmHg)	60
Anorectal Gradient (mmHg)	-45

Expel Full

Maneuver #	1
Catheter Depth (cm)	0
RB Volume (cc)	50
RB Diameter (mm)	48
P Min (mmHg)	59
L Min (mmHg)	55
A Min (mmHg)	52
R Min (mmHg)	72
P Mean (mmHg)	61
L Mean (mmHg)	62
A Mean (mmHg)	54
R Mean (mmHg)	79
Anal Min (mmHg)	61
Anal Mean (mmHg)	64
RB Max Pressure (mmHg)	26
RB Mean Pressure (mmHg)	17
Anal Relaxation (%)	-19
Rectal Pressure Change (%)	-2
Rectal Pressure (Gradient) (mmHg)	22
Anal Pressure (Gradient) (mmHg)	65
Anorectal Gradient (mmHg)	-42

Patient ID:

Sensation

Maneuver #	1		
Catheter Depth (cm)	0		
Rectal Capacity (cc)			
RAIR (%)	present, 37		
RB Volume at RAIR Threshold (cc)	60		
Type	SENS	DES	URG
P Max (mmHg)	56	56	54
L Max (mmHg)	48	45	43
A Max (mmHg)	38	34	32
R Max (mmHg)	65	59	51
P Mean (mmHg)	54	54	52
L Mean (mmHg)	48	43	43
A Mean (mmHg)	37	32	31
R Mean (mmHg)	64	57	51
Anal Max (mmHg)	52	48	45
Anal Mean (mmHg)	50	47	44
RB Volume (cc)	60	90	130
RB Diameter (mm)	51	57	64
RB Mean Pressure (mmHg)	24	39	-61

Exhale

Maneuver #	1
Catheter Depth (cm)	0
RB Volume (cc)	10
P Max (mmHg)	109
L Max (mmHg)	99
A Max (mmHg)	112
R Max (mmHg)	135
P Mean (mmHg)	72
L Mean (mmHg)	65
A Mean (mmHg)	69
R Mean (mmHg)	95
Anal Max (mmHg)	114
Anal Mean (mmHg)	75