

1 **Table 6 Comparison of water-perfused HRM manometric parameters studies**

Manometric parameters		Present article (channel = 36) London Protocol	Deshmukh et al. ¹⁹ (channel = 20)	Vierbig et al. ²⁰ (channel = 24)	Rasijeff et al. ²¹ (channel = 10)
Resting manometric parameters					
Mean maximum pressure(mmHg)		n = 25	n = 29	n = 30	n = 40
Female	Mean(SD)	61.1(16.3)			64.0
	Med(IQR)	59.9[51.9;74.0]	94.0[48.0;117.0]		[34.0;101.0]
	5th; 95th	[31.9;77.9]			
Male		n = 25	n = 64	n = 20	n = 20
	Mean (SD)	62.8 (14.7)			67.0
	Med (IQR)	60.9[50.7;75.3]	88.0[33.0;132.0]		[40.0;116.0]
	5th; 95th	[43.0; 86.4]			
Mean pressure (mmHg)		n = 25	n = 29	n = 30	n = 40
Female	Mean (SD)	38.4(9.6)		79.8(4.0)	
	Med IQR)	38.9[30.7;46.0]			
Male		n = 25	n = 64	n = 20	n = 20
	Mean (SD)	42.1 (9.2)		72.20(3.0)	
	Med (IQR)	40.0[35.4;45.1]			
Functional anal canal length (cm)		n = 25	n = 29	n = 30	n = 40
Female	Mean(SD)	3.5(1.0)		3.0(0.1)	
	Med(IQR)	3.6[2.7;4.4]	1.5[1.0;3.2]		
Male		n = 25	n = 64	n = 20	n = 20
	Mean (SD)	3.9 (0.8)		3.3(0.1)	
	Med (IQR)	3.9[3.3;4.6]	2.5[1.1;3.8]		
Squeeze manometric parameters					
Maximum incremental pressure(mmHg)		n = 25	n = 29	n = 30	n = 40
Female	Mean(SD)	108.7(42.7)			105.0
	Med(IQR)	102.5[83.6;126.2]	66.0[10.0;160.0]		[27.0;188.0]
	5th; 95th	[64.5;178.8]			
Male		n = 25	n = 64	n = 20	n = 20
	Mean (SD)	143(50.5)			177.0
	Med (IQR)	146.3[114.0;168.8]	90.0[32.0;150.0]		[36.0;305.0]
	5th; 95th	[64.7;216.2]			
Maximum absolute squeeze pressure(mmHg)		n = 25	n = 29	n = 30	n = 40
Female	Mean(SD)	169.9 (44.0)		170.7(8.0)	
	Med(IQR)	168.5[142.8;183.5]	147.0[83.0;259.0]		
Male		n = 25	n = 64	n = 20	n = 20
	Mean (SD)	205.7(45.2)		229.50(17.0)	
	Med (IQR)	211.6[180.0;239.6]	165.0[90.0;377.0]		
Cough manometric parameters					
Maximum incremental pressure(mmHg)		n = 25	n = 29	n = 30	n = 40
Female	Mean(SD)				79.0
	Med(IQR)				[28.0;136.0]
	5th; 95th				
Male		n = 25	n = 64	n = 20	n = 20
	Mean (SD)				91.0
	Med (IQR)				[29.0;152.0]
	5th; 95th				

Push manometric parameters					
Maximum pressure anal canal(mmHg)		n = 25	n = 29	n = 30	n = 40
Female	Mean(SD)	47.4 (19.0)			
	Med(IQR)	43.9[35.7;53.9]	63.0[18.0-100.0]		
Male		n = 25	n = 64	n = 20	n = 20
	Mean (SD)	61.3 (26.5)			
	Med (IQR)	51.3[46.7;71.1]	82.0[36.0-170.0]		
Maximum pressure rectum(mmHg)		n = 25	n = 29	n = 30	n = 40
Female	Mean(SD)	27.9(20.5)			
	Med(IQR)	23.9[19.0;33.2]	54.0[26.0-117.0]		
Male		n = 25	n = 64	n = 20	n = 20
	Mean (SD)	42.5 (18.5)			
	Med (IQR)	34.9 [31.1;54.1]	70.0[34.0-133.0]		
Rectum-anal gradient pressure(mmHg)		n = 25	n = 29	n = 30	n = 40
Female	Mean(SD)	-16.1(22.5)			
	Med(IQR)	-17.9[-24.2; -1.5]	6.0[-39.0;51.0]		
Male		n = 25	n = 64	n = 20	n = 20
	Mean (SD)	-22.9 (13.2)			
	Med (IQR)	-20.2[-31.4; -13.9]	-6.0[-78.0;66.0]		
Anal canal relaxation (%)		n = 25	n = 29	n = 30	n = 40
Female	Mean(SD)	6.4 (36.0)			
	Med(IQR)	10.2[-22.0;36.4]	42.0[-24.0;80.0]		
Male		n = 25	n = 64	n = 20	n = 20
	Mean (SD)	-23.7(54.1)			
	Med (IQR)	-5.7[-48.8;10.2]	16.0[-38.0;53.0]		
Rectal sensory thresholds parameters and RAIR					
First sensation volume(ml)		n = 25	n = 29	n = 30	n = 40
Female	Mean(SD)	22.9(17.9)		31.0(1.2)	
	Med(IQR)	16.0[10.0;32.0]	30.0[10.0;80.0]		
Male		n = 25	n = 64	n = 20	n = 20
	Mean(SD)	20.70(20.40)		43.0(4.8)	
	Med(IQR)	12.0[6.0;22.0]	40.0[10.0;170]		
Desire to defaecate volume(ml)		n = 25	n = 29	n = 30	n = 40
Female	Mean(SD)	38.5(19.70)		100.0(7.0)	
	Med(IQR)	34.0[23.0;48.0]	90.0[50.0;170.0]		
Male		n = 25	n = 64	n = 20	n = 20
	Mean(SD)	39.20(24.0)		102.0(9.4)	
	Med(IQR)	34.0 [20.0;50.0]	105.0[40.0;250.0]		
Maximum tolerated volume(ml)		n = 25	n = 29	n = 30	n = 40
Female	Mean(SD)	141.4(53.10)		162.0(10.9)	
	Med(IQR)	132.0[106.0;164.0]	140.0[80.0;270.0]		
Male		n = 25	n = 64	n = 20	n = 20
	Mean(SD)	133.4(44.3)		167.0(9.8)	
	Med(IQR)	125.0[100.0;140.0]	160.0[80.0;310]		
Anal canal relaxation (%)		n = 25	n = 29	n = 30	n = 40
Female	Mean(SD)	36.8 (15.8)			
	Med(IQR)	33.3 [25.7;44.9]	44.0[17.0;80.0]		
Male		n = 25	n = 64	n = 20	n = 20
	Mean(SD)	38.4 (13.9)			
	Med(IQR)	39.4 [29.5;45.4]	49.5[0.0;87.0]		

SD (standard deviation); Med (median); IQR (interquartile range); n (volunteers)