

Supplementary material S2: Summary of primary and secondary outcomes for the VR and control groups

Outcome measure	VR group, (n=58)	Control group, (n =59)	P-value
Pain score (median, IQR)	5(4, 6)	7(6, 8)	<0.001 <sup>1*</sup>
Skin conductance before colonoscope insertion (median, IQR)	0.295(0.230, 0.450)	0.280(0.210, 0.360)	0.080 <sup>1</sup>
Skin conductance 5 min after colonoscope insertion (median, IQR)	0.390(0.280, 0.600)	0.660(0.490, 0.840)	<0.001 <sup>1*</sup>
Heart rate before colonoscope insertion (median, IQR)	62.500(60, 67.250)	64(60.000, 71)	0.547 <sup>1</sup>
Heart rate 5 min after colonoscope insertion (median, IQR)	67(61.750, 72.250)	78(71, 86)	<0.001 <sup>1*</sup>
Systolic arterial pressure before colonoscope insertion (mean±95%CI)	117.017±2.703	119.661±2.413	0.146 <sup>2</sup>
Systolic arterial pressure 5 min after colonoscope insertion (mean±95%CI)	129.414±2.496	132.373±3.153	0.144 <sup>2</sup>
Diastolic arterial pressure before colonoscope insertion (mean±95%CI)	73.190±1.959	74.135±2.219	0.202 <sup>2</sup>
Diastolic arterial pressure 5 min after colonoscope insertion (mean±95%CI)	75.172±2.502	77.864±3.309	0.198 <sup>2</sup>
Satisfaction level of patient			0.001 <sup>1*</sup>
Not at all	2(1.7%)	5(4.3%)	
Very low	9(7.7%)	25(21.4%)	
Moderate	22(18.8%)	20(17.1%)	
Complete satisfaction	25(21.4%)	9(7.7%)	
Willingness to repeat the procedure			0.893 <sup>1</sup>
Not at all	8(6.8%)	6(5.1%)	
Very low	12(10.3%)	15(12.8%)	
Moderate	30(25.6%)	29(24.8%)	
Complete satisfaction	8(6.8%)	9(7.7%)	
Difficulty of the procedure			0.011 <sup>1*</sup>
Not at all	5(4.3%)	4(3.4%)	
Very low	19(16.2%)	6(5.1%)	
Moderate	23(19.7%)	31(26.5%)	
Difficulty	11(9.4%)	18(15.4%)	
Duration of the procedure (median, IQR)	15(13, 17)	16(14, 18)	0.038 <sup>1*</sup>
Bowel preparation			0.175 <sup>1</sup>
8-9 points	17(14.5%)	9(7.7%)	
7 points	28(23.9%)	34(29.1%)	
≤6 points	13(11.1%)	16(13.7%)	

VR: virtual reality, IQR: Interquartile Range, CI: Confidence interval.

1 Mann-Whitney U test.

2 t-test.

\*P<0.05, significant.