

Supplemental Material 1: Data and statistical analysis

Supplemental Table 1: Total responses for Clarity ratings

	Ratings (total number)				
	Clear	Somewhat Clear	Acceptable	Somewhat Unclear	Very Unclear
Phone Clip Microscope	13	19	21	34	33
Endoscope with Screen	65	41	19	4	1
Dissecting Microscope	80	33	15	4	0
Compound Microscope with Screen	124	12	5	1	1

Supplemental Table 2: P-values for each pairwise comparison of Clarity ratings¹

	Endoscope with Screen	Dissecting Microscope	Compound Microscope with Screen
Phone Clip Microscope	8×10^{-23}	6×10^{-27}	1×10^{-41}
Endoscope with Screen		4×10^{-1}	5×10^{-10}
Dissecting Microscope			5×10^{-6}

¹P-value indicating a significant difference was set at 0.008 (0.05/6) using a Bonferroni correction.

Supplemental Table 3: Total responses for User Friendliness ratings

	Ratings (total number)				
	Very Easy to use	Somewhat easy to use	Neither easy nor difficult to use	Somewhat difficult to use	Very difficult to use
Phone Clip Microscope	22	27	23	25	16
Endoscope with Screen	74	29	12	3	0
Dissecting Microscope	64	28	19	8	0
Compound Microscope with Screen	94	18	3	2	1

Supplemental Table 4: P-values for each pairwise comparison of Clarity ratings¹

	Endoscope with Screen	Dissecting Microscope	Compound Microscope with Screen
Phone Clip Microscope	6×10^{-215}	3×10^{-10}	2×10^{-22}
Endoscope with Screen		3×10^{-1}	1×10^{-2}
Dissecting Microscope			2×10^{-5}

¹P-value indicating a significant difference was set at 0.008 (0.05/6) using a Bonferroni correction.

Supplemental Table 5: Clarity ratings by age and microscope

Microscope	Age range	Ratings (total number) ¹				
		Clear	Somewhat Clear	Acceptable	Unclear	Very unclear
Phone Clip Microscope	Age 5-10	0	0	1	0	1
	Age 11-13	5	6	7	8	9
	Age 14-18	8	13	13	26	21
Endoscope with Screen	Age 5-10	3	6	3	0	0
	Age 11-13	18	12	4	2	0
	Age 14-18	44	23	13	1	1
Dissecting Microscope	Age 5-10	5	5	2	0	0
	Age 11-13	26	8	3	2	0
	Age 14-18	48	21	10	2	0
Compound Microscope with Screen	Age 5-10	15	1	3	0	0
	Age 11-13	33	1	1	0	0
	Age 14-18	74	11	1	0	1

¹P-value indicating a significant difference was set at 0.01 (0.05/3) using a Bonferroni correction. There were no significant differences in the ratings among age groups.

Supplemental Table 6: Use Friendliness ratings by age and microscope

Microscope	Age range	Ratings (total number) ¹				
		Clear	Somewhat Clear	Acceptable	Unclear	Very unclear
Phone Clip Microscope ²	Age 5-10	0	0	0	0	2
	Age 11-13	6	10	7	3	7
	Age 14-18	16	17	16	21	9
Endoscope with Screen	Age 5-10	8	3	1	0	0
	Age 11-13	25	9	1	1	0
	Age 14-18	51	20	10	2	0
Dissecting Microscope	Age 5-10	10	13	2	3	0
	Age 11-13	23	11	6	1	0
	Age 14-18	35	12	12	3	0
Compound Microscope with Screen ³	Age 5-10	20	16	1	0	0
	Age 11-13	34	4	2	0	0
	Age 14-18	54	9	1	0	1

¹P-value indicating a significant difference was set at 0.01 (0.05/3) using a Bonferroni correction.

²There were significant differences between the ratings for ages 5-10 and those for ages 14-18 (0.002).

³There were significant differences between the ratings for ages 5-10 and those for ages 11-13 (0.002) and 14-18 (0.002).