

Supplementary Information

Muscle	Mean %MVIC					Overall <i>p</i> -value	post-hoc					
	Total	#16	#26	#36	#46		#16 vs. #26	#16 vs. #36	#16 vs. #46	#26 vs. #36	#26 vs. #46	#36 vs. #46
Rt. Upper trapezius	17.47±9.00	16.70±11.04 ^{a,b,c}	17.38±7.83 ^{I,II,III}	18.52±10.34 ^{α,β}	17.28±8.98 ^{1,2,3}	0.99	0.999	0.988	>.999	0.997	>.999	0.996
Lt. Upper trapezius	12.74±5.46	8.56±2.46 ^{b, c}	11.66±2.37 ^{II,III,IV}	16.73±7.07 ^{α,β}	13.99±5.68 ^{1,2,3}	0.051	0.69	0.039	0.244	0.297	0.837	0.763
Rt. SCM	8.67±5.18	7.99±4.87 ^{b, c}	8.12±5.06 ^{III,IV}	9.93±5.52 ^{α,β,γ}	8.67±6.41 ^{1,2,3}	0.925	>.999	0.927	0.996	0.94	0.998	0.978
Lt. SCM	10.02±4.36	11.33±4.96 ^{b, c}	11.87±5.89 ^{II,III,IV}	8.51±3.22 ^{β,γ}	8.39±2.39 ^{2,3}	0.383	0.996	0.678	0.649	0.548	0.519	>.999
Rt. Erector spinae	21.75±9.36	19.46±8.12 ^{a, b}	20.61±8.51 ^{I,II}	23.05±10.66 ^α	23.87±11.65 ¹	0.851	0.997	0.921	0.864	0.973	0.939	0.999
Lt. Erector spinae	21.53±10.99	24.13±11.34 ^a	23.22±8.73 ^I	18.27±10.29 ^{α,β}	20.50±14.82 ^{1,2}	0.81	0.999	0.815	0.947	0.878	0.976	0.987
Rt. Ant. deltoid	8.34±5.00	6.04±2.98 ^c	6.26±4.72 ^{III,IV}	9.33±5.40 ^{α,β,γ}	11.72±5.31 ^{1,2,3}	0.148	>.999	0.628	0.189	0.677	0.217	0.813
Lt. Ant. deltoid	3.16±1.68	4.02±2.12 ^c	3.90±1.93 ^{IV}	2.36±0.78 ^γ	2.37±1.01 ³	0.136	0.999	0.289	0.294	0.349	0.354	>.999

Supplementary Table S1. Mean %MVIC of muscles according to tooth position. Values are mean ± SD in each muscle of 6 participants during crown preparation. The average of the mean %MVIC of three types of visual aids was used. Different alphabets indicate significant differences in mean %MVIC of muscles during crown preparation of #16. Different Roman numbers indicate significant differences in mean %MVIC during crown preparation of #26. Different Greek alphabets indicate significant difference in mean %MVIC during crown preparation of #36. Different Arabic numbers indicate significant difference in mean %MVIC during crown preparation of #46. SCM, sternocleidomastoid; MVIC, maximum voluntary isometric contractions.

Tooth position		Mean %MVIC				Overall <i>p</i> -value	post-hoc		
		Total	Naked eye (N)	Loupe (L)	Microscope (M)		N vs. L	N vs. M	L vs. M
#16	Occlusal	12.140±10.587	13.541±9.235	13.666±13.319	9.214±8.077	0.0628	>.9999	0.1334	0.1163
	Buccal	11.490±12.404	14.231±13.896	12.333±14.036	7.906±7.517	0.0363	>.9999	0.0366	0.233
	Palatal	12.242±11.765	15.689±13.785	13.488±12.498	7.550±6.222	0.0018	>.9999	0.0017	0.0338
	Proximal	13.241±11.843	16.203±13.921	14.291±11.398	9.228±8.746	0.0108	>.9999	0.0109	0.1004
#26	Occlusal	13.167±11.391	16.633±12.135	13.119±10.236	9.749±10.889	0.0116	0.3712	0.0086	0.419
	Buccal	12.536±12.947	17.287±16.282	13.113±12.147	7.207±6.706	0.0005	0.2999	0.0003	0.0617
	Palatal	12.460±10.948	16.677±13.419	12.732±9.683	7.973±7.213	0.0004	0.1974	0.0002	0.0805
	Proximal	13.345±11.111	16.229±12.058	16.033±11.586	7.774±6.958	<.0001	>.9999	0.0004	0.0005
#36	Occlusal	14.161±13.859	18.791±17.609	13.702±13.324	9.991±7.546	0.0069	0.1991	0.0051	0.5381
	Buccal	12.953±11.867	14.921±12.555	13.972±13.796	9.967±8.146	0.0941	>.9999	0.1221	0.2917
	Lingual	12.558±11.097	14.876±11.191	13.068±11.538	9.731±10.119	0.0694	>.9999	0.069	0.4149
	Proximal	13.672±12.625	18.510±15.282	12.727±11.046	9.778±9.440	0.0022	0.0642	0.0018	0.7119
#46	Occlusal	13.538±11.976	15.924±12.836	14.249±12.687	10.441±9.721	0.0703	>.9999	0.0742	0.3517
	Buccal	13.060±11.766	16.049±12.776	14.119±10.994	9.013±10.493	0.0094	>.9999	0.0094	0.0923
	Lingual	12.182±12.485	14.312±12.605	12.980±11.856	9.254±12.679	0.1202	>.9999	0.1421	0.4283
	Proximal	14.615±12.501	18.321±12.838	14.504±12.368	11.021±11.424	0.0156	0.3848	0.012	0.495

Supplementary Table S2. Mean %MVIC with different types of visual aid according to tooth surfaces. Values are mean ± SD of the average value of the 6 participants' mean %MVIC. MVIC, maximum voluntary isometric contractions.