
Article

Biological Response Induced in Primary Human Gingival Fibroblasts upon Exposure to Various Types of Injectable Astringent Retraction Agents

Danuta Nowakowska ¹, Julita Kulbacka ², Joanna Wezgowiec ^{3,*}, Anna Szewczyk ², Dagmara Baczynska ², Marek Zietek ³, Włodzimierz Wieckiewicz ¹ and Jolanta Saczko ²

¹ Department of Prosthetic Dentistry, Wrocław Medical University, Wrocław 50-425, Poland; danuta.nowakowska@umed.wroc.pl (D.N.); wlodzimierz.wieckiewicz@umed.wroc.pl (W.W.)

² Department of Molecular and Cellular Biology, Wrocław Medical University, Wrocław 50-556, Poland; julita.kulbacka@umed.wroc.pl (J.K.); a.szewczyk@umed.wroc.pl (A.S.); dagmara.baczynska@umed.wroc.pl (D.B.); jolanta.saczko@umed.wroc.pl (J.S.)

³ Department of Experimental Dentistry, Wrocław Medical University, Wrocław 50-425, Poland; marek.zietek@umed.wroc.pl

* Correspondence: joanna.wezgowiec@umed.wroc.pl

Supplementary Table S1. Results of a post-hoc Tukey's HSD tests showing significance of differences between different types of formulation (gel, paste and foam) and the untreated control, revealed in various assays; red color denotes statistically significant differences (p-values < 0.05).

MTT	1:10	5 min			MTT	1:10	10 min			MTT	1:10	30 min		
F(3, 85)=17.770, p=0.00000					F(3, 84)=26.677, p=0.00000					F(3, 76)=53.978, p=0.0000				
Tukey's HSD test; MS = 146.74, df = 85.000					Tukey's HSD test; MS = 122.50, df = 4.000					Tukey's HSD test; MS = 183.16, df = 6.000				
	control	gel	paste	foam		control	gel	paste	foam		control	gel	paste	foam
control		0.861889	0.036013	0.987731	control		0.696372	0.007736	0.996533	control		0.289465	0.000190	0.087235
gel	0.861889		0.000145	0.948708	gel	0.696372		0.000146	0.670467	gel	0.289465		0.000148	0.000149
paste	0.036013	0.000145		0.000615	paste	0.007736	0.000146		0.000201	paste	0.000190	0.000148		0.080633
foam	0.987731	0.948708	0.000615		foam	0.996533	0.670467	0.000201		foam	0.087235	0.000149	0.080633	

MTT	1:20	5 min			MTT	1:20	10 min			MTT	1:20	30 min		
F(3, 85)=15.726, p=0.00000					F(3, 86)=22.907, p=0.00000					F(3, 84)=51.392, p=0.0000				
Tukey's HSD test; MS = 96.388, df = 85.000					Tukey's HSD test; MS = 85.732, df = 86.000					Tukey's HSD test; MS = 147.90, df = 84.000				
	control	gel	paste	foam		control	gel	paste	foam		control	gel	paste	foam
control		0.961144	0.026021	0.899823	control		0.982420	0.003398	0.190645	control		0.678830	0.000162	0.245380
gel	0.961144		0.000145	0.306897	gel	0.982420		0.000145	0.002470	gel	0.678830		0.000146	0.000372
paste	0.026021	0.000145		0.035172	paste	0.003398	0.000145		0.331595	paste	0.000162	0.000146		0.003408
foam	0.899823	0.306897	0.035172		foam	0.190645	0.002470	0.331595		foam	0.245380	0.000372	0.003408	

BrdU	1:10	5 min			BrdU	1:10	10 min			BrdU	1:10	24 h		
F(3, 32)=72.655, p=0.00000					F(3, 139)=69.572, p=0.0000					F(3, 70)=74.708, p=0.0000				
Tukey's HSD test; MS = 271.11, df = 32.000					Tukey's HSD test; MS = 614.28, df = 139.00					Tukey's HSD test; MS = 601.92, df = 70.000				
	control	gel	paste	foam		control	gel	paste	foam		control	gel	paste	foam
control		0.999954	0.000165	0.000165	control		0.977717	0.000008	0.003966	control		0.709024	0.000156	0.000152
gel	0.999954		0.000165	0.000165	gel	0.977717		0.000008	0.000008	gel	0.709024		0.000150	0.000150
paste	0.000165	0.000165		0.407340	paste	0.000008	0.000008		0.001996	paste	0.000156	0.000150		0.461918
foam	0.000165	0.000165	0.407340		foam	0.003966	0.000008	0.001996		foam	0.000152	0.000150	0.461918	

Griess 1:10 10 min					Griess 1:10 24 h					MTT 1:10 24 h				
F(3, 74)=2.1411, p=0.10224					F(3, 36)=3.6336, p=0.02178					F(3, 245)=456.16, p=0.0000				
Tukey's HSD test; MS = 4.3961, df = 74.000					Tukey's HSD test; MS=1.5382, df = 36.000					Test HSD				
	control	gel	paste	foam		control	gel	paste	foam		control	gel	paste	foam
control		0.999092	0.483873	0.985844	control		0.995641	0.274672	0.970410	control		0.628177	0.000008	0.000008
gel	0.999092		0.101339	0.990776	gel	0.995641		0.013002	0.852025	gel	0.628177		0.000008	0.000008
paste	0.483873	0.101339		0.291148	paste	0.274672	0.013002		0.575156	paste	0.000008	0.000008		0.654788
foam	0.985844	0.990776	0.291148		foam	0.970410	0.852025	0.575156		foam	0.000008	0.000008	0.654788	

SOD1 1:10 24 h					SOD2 1:10 24 h					SOD3 1:10 24 h				
F(3, 26)=20.704, p=0.00000					F(3, 26)=6.1116, p=0.00274					F(3, 26)=8.6511, p=0.00038				
Tukey's HSD test; MS = 0.08437, df = 26.000					Tukey's HSD test; MS = 0.38501, df = 26.000					Tukey's HSD test; MS = 0.14010, df = 26.000				
	control	gel	paste	foam		control	gel	paste	foam		control	gel	paste	foam
control		0.000169	0.001002	0.000385	control		0.139937	0.988357	0.999728	control		0.000423	0.000855	0.001672
gel	0.000169		0.001491	0.667385	gel	0.139937		0.003615	0.110984	gel	0.000423		0.997986	0.943240
paste	0.001002	0.001491		0.400421	paste	0.988357	0.003615		0.996891	paste	0.000855	0.997986		0.916860
foam	0.000385	0.667385	0.400421		foam	0.999728	0.110984	0.996891		foam	0.001672	0.943240	0.916860	

HMOX1 1:10 24 h					GPX1 1:10 24 h									
F(3, 26)=1.3521, p=0.27928					F(3, 26)=20.451, p=0.00000									
Tukey's HSD test; MS = 0.10598, df = 26.000					Tukey's HSD test; MS = 0.25487, df = 26.000									
	control	gel	paste	foam		control	gel	paste	foam					
control		0.999991	0.629703	0.865304	control		0.000169	0.000370	0.000945					
gel	0.999991		0.269913	0.767636	gel	0.000169		0.006149	0.253515					
paste	0.629703	0.269913		0.994048	paste	0.000370	0.006149		0.957308					
foam	0.865304	0.767636	0.994048		foam	0.000945	0.253515	0.957308						