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Biomaterials and Oral Biology Department - University of São Paulo - Brazil

The Use of Take-home Whitening Gels Associated with Biomaterials

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#1946

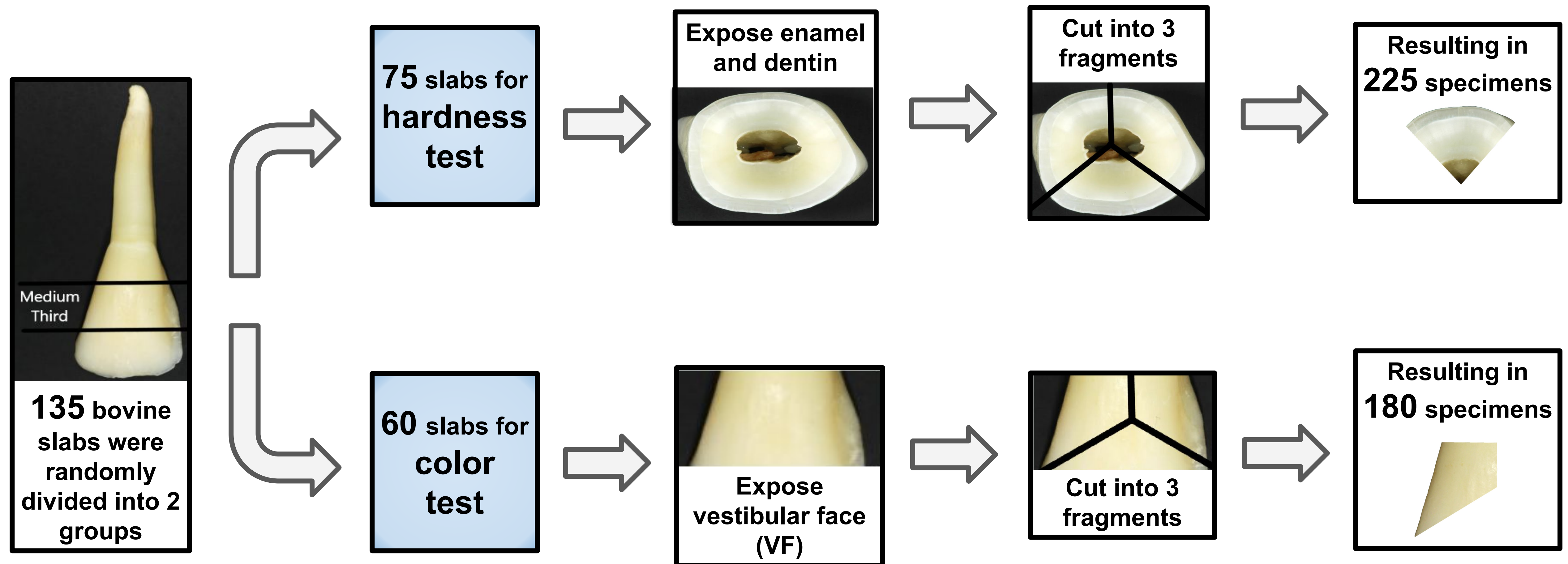


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OBJECTIVES

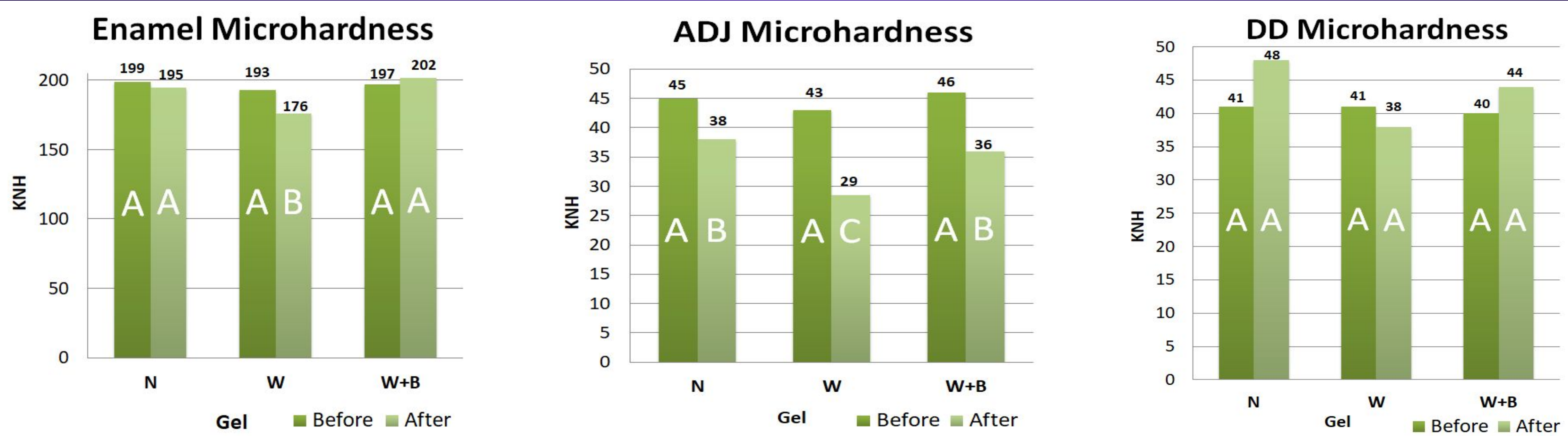
Evaluate the benefits of biomaterials associated with take-home whitening gels on enamel (E) and dentin hardness, near the amelo-dentinal junction (ADJ) and on deep-dentin (DD), and the impact of the addition of these biomaterials in color change.

MATERIAL AND METHODS

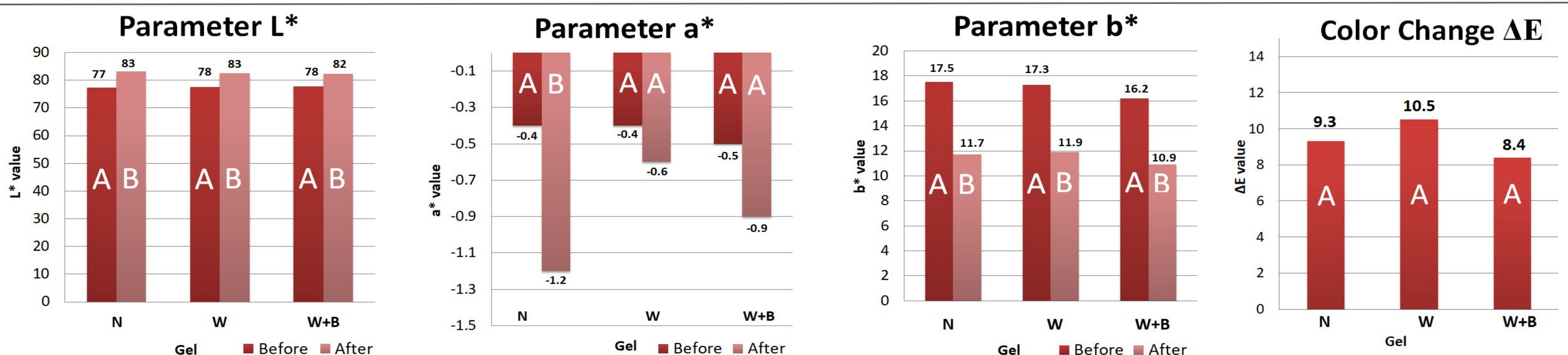


	1st Measures before gel application	2nd Gel application	3rd Measures after gel application																				
Microhardness		<table border="1"> <thead> <tr> <th>Experimental Group</th> <th>Brand (Manufacturer)</th> <th>Bioactive Material</th> <th>Application Time</th> <th>Active Ingredient</th> </tr> </thead> <tbody> <tr> <td>N</td> <td>NiteWhite (Philips)</td> <td>ACP</td> <td>8h/day during 14 days</td> <td>Carbamide Peroxide 16%</td> </tr> <tr> <td>W</td> <td>Whitness Perfect (FGM)</td> <td>-</td> <td>8h/day during 14 days</td> <td>Carbamide Peroxide 16%</td> </tr> <tr> <td>W+B</td> <td>Whitness Perfect (FGM)</td> <td>Biosilicate</td> <td>8h/day during 14 days</td> <td>Carbamide Peroxide 16%</td> </tr> </tbody> </table>	Experimental Group	Brand (Manufacturer)	Bioactive Material	Application Time	Active Ingredient	N	NiteWhite (Philips)	ACP	8h/day during 14 days	Carbamide Peroxide 16%	W	Whitness Perfect (FGM)	-	8h/day during 14 days	Carbamide Peroxide 16%	W+B	Whitness Perfect (FGM)	Biosilicate	8h/day during 14 days	Carbamide Peroxide 16%	
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Color change																							

RESULTS



Different letters within the same group of gel indicate statistically significant differences (p<0.05).



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CONCLUSION

This study indicates that biomaterials associated with whitening gels are beneficial, preventing demineralization in enamel and reducing demineralization in ADJ and with no decrease on whitening results, as all gels tested led to whitening without statistically significant differences among them.