

## Brazilian Oral Research

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### Abstract

[CLARO, Cristiane Aparecida de Assis](#); [ABRAO, Jorge](#); [REIS, Silvia Augusta Braga](#) and [FANTINI, Solange Mongelli de](#). Correlation between transverse expansion and increase in the upper arch perimeter after rapid maxillary expansion. *Braz. oral res.* [online]. 2006, vol.20, n.1, pp. 76-81. ISSN 1806-8324. doi: 10.1590/S1806-83242006000100014.

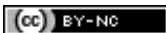
The purpose of the present study was to assess the correlation between transverse expansion and the increase in upper arch perimeter, after maxillary expansion. Dental casts of eighteen patients were obtained before treatment and again five months after maxillary expansion. Measurements of intermolar width, intercanine width, arch length and arch perimeter were made with a digital caliper on photocopies taken from the dental casts. After assessment of the method error, a multiple regression model was developed following the identification of the best subset of variables. The resulting equation led to the conclusion that the increase in arch perimeter is approximately given by the addition of 0.54 times the intercanine expansion, and 0.87 times the arch length alteration.

Keywords : Orthodontics; Palatal expansion technique; Dental arch.

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