

[\[Print Version\]](#)

[\[PubMed Citation\]](#) [\[Related Articles in PubMed\]](#)

*The Angle Orthodontist*: Vol. 60, No. 3, pp. 215–220.

## **A study of the relationship of maximal perioral muscle pressure and tonic resting pressure using a pneumohydraulic capillary infusion system**

Erwin C. Lubit, BA, DDS;<sup>a</sup> Mark A. Wallach, BS, DDS; Ronald Schwalb, DDS

<sup>a</sup>New York University College of Dentistry, 345 East 24th Street, New York, New York 10010

### **ABSTRACT**

The tonic (resting) and peak (maximum) lip pressures of 100 subjects were measured. The purpose was to evaluate the validity of the assumption that high peak pressures are indicative of high tonic pressures and vice versa. This paper describes the equipment and techniques devised to test these pressures. The results showed no statistically significant relationship whatsoever between tonic and peak lip pressures. We, therefore, suggest that maximum lip pressures not be used as a diagnostic aid in orthodontics.

E.C. Lubit is a Clinical Professor of Orthodontics at New York University College of Dentistry

M.A. Wallach is a former Associate Professor of Pediatric Dentistry at New York University College of Dentistry

R. Schwalb is a postgraduate orthodontic student at New York University College of Dentistry

**KEY WORDS:** Lip pressure, Oral muscular pressure, Pneumohydraulic capillary infusion system.