



Figure 1. Lip-closing force meter "Beauty Health Checker" (Patakara Inc.).



Figure 2. Adapters for 10mm, 17mm and 30mm thickness.



Figure 3. Tongue force meter "Tongue de Up" (Cosmo Instruments, Co., Ltd.).

examined to see if there is a significant difference in the lip-closing force between males and females.

Also, because force was continuously applied during the 10-second measurement, we treated the maximum-to-minimum change in force as muscle fatigue in lip closure and analyzed the data accordingly.

Furthermore, we measured the tongue force and examined its correlation with the lip-closing force. For the tongue force measurement, the tongue force meter "Tongue-de-Up" from Cosmo Instruments, Co., Ltd. was used. Force-measuring piece was placed near incisive

papilla, and the subject was asked to press his/her tongue with maximum force. The average of four measurements was taken as the subject's tongue force. The subjects were instructed not to have occlusal contacts during the measurement. **DA**

In our next issue, Dental Asia will examine in-depth the final conclusions of this study and will present the results of evaluating lip-closing force and tongue functions.

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