

東北大学大学院歯学研究科
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Forum for Interface Oral Health Science

**Clinical application of microimplant
for orthodontic treatment**

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ABSTRACT: Control of anchorage is one of the most important aspects of orthodontic treatment. To obtain absolute anchorage, prosthetic implants have been used as intraoral anchorage. However, previous implant could not produce efficient orthodontic treatment with its bulky size and high cost. To compensate these drawbacks, we developed orthodontic microimplant (Absoanchor®) which is exclusively used for orthodontic treatment and modified its upper structure as lingual button shape. Also giving inclination on cervical area of button allows natural separation of elastomer from gingival when elastomer like Ni-Ti coil spring is applied. A hole is made in upper structure for smooth application of elastomer such as elastomeric thread, or ligature wire. At present, the small diameter (from 1.2 mm to 1.6 mm) microimplants are widely used and is possible to place in-between roots. Several thousands of cases have been treated with successful achievement of obtaining absolute anchorage by placing these microimplants in between roots. Here, I would like to introduce types and placement of microimplants can be used effectively for antero-posterior tooth movement.

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