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The relationship between bite depth and incisor angular change

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ABSTRACT

A geometric, two-dimensional model was developed, which estimates the effect of changing incisal angular position to the effective bite depth. Because of the constant lengths of incisors whose long axes can be viewed as the sides of a triangle, it is possible to calculate the amount of their overlap as a function of changing angle. Additionally, a distinction is made between controlled and uncontrolled tipping, defined in respect to their centers of rotation. It is suggested that an average of 0.1 to 0.2 millimeter change in overbite occurs for every degree of incisal angular change.

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