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HYBRID BRACKET POSITIONER

Orthodontics

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KEYWORDS

Bracket placement is considered an important step in the success of orthodontic treatment. Bracket angulation was found to be a more expertise procedure than horizontal or vertical position in PEA[1]. Moreover, direct bonding consumes double the time required for indirect bonding, which is mainly spent on precise bracket positioning[2]. In order to increase the accuracy of bracket position and to reduce the chairside time by eliminating the need to keep shifting between instruments like mouth mirror, bracket positioning gauge and probe, a modification of the available Boones gauge was done.

MODIFICATION

The head of a mouth mirror was separated and marked with horizontal and vertical line perpendicular to each other intersecting at the center of the mirror. The horizontal line was calibrated in millimetres. The separated mouth mirror was attached to the edges of Boones gauge such that the vertical line coincides with center of the measuring platform of the gauge (Fig.A).

Fig. A: Hybrid Bracket Positioner

The stainless steel pointer on the gauge helps in positioning the bracket height vertically, the calibrated lines helps in accurate identification of mesiodistal center of the crown and the long vertical center line guides in placing the bracket along the long axis of the tooth i.e; the angulation of the tooth (Fig.B,C).

Fig. B: Bracket positioning on a study model

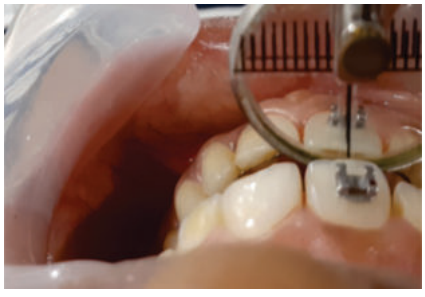

Fig.C: Bracket positioning intraorally

CONCLUSION

This modification helps us in easy and precise positioning of the brackets in all 3 axes and reduce the chairside duration because the time consumed for shifting between the instruments is eliminated

REFERENCES

1. Balut N, Klapper L, Sandrik J, Bowman D. Variations in bracket placement in the preadjusted orthodontic appliance. Am J Orthod Dentofacial Orthop. 1992;102(1):6267
2. Aguirre MJ, King GJ, Waldron JM. Assessment of bracket placement and bond strength when comparing direct bonding to indirect bonding techniques. Am J Orthod. 1982;82(4):269.276