V-notch to Prevent Sliding of Crimpable Hook

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ABSTRACT

En-mass retraction of anterior teeth most commonly involves the use of crimpable hooks which often dislodge when retracting force is applied. A V-notch distal to the hook may prevent such sliding when sandblasting and dental adhesives are not available.

Keywords: crimpable hook, retraction, sliding, V-notch

INTRODUCTION

Most of the orthodontic treatment involves the retraction of anterior teeth. We use soldered hooks or crimpable hooks to the archwire for applying force. The disadvantage of soldering is that it is time consuming, requires laboratory set up and may anneal the archwire. So crimpable hooks are often used which is quick and easy, can also be crimped intraorally.

The problem encountered with crimpable hooks is that excessive force can cause gabling leading to unwanted force into the wire whereas less force may lead to dislodgement of the hook during retraction. To prevent dislodgement of the hook, tungsten carbide coating or sandblasting along with the use of dental adhesives have been tried.

TECHNIQUE

We present a simple method to prevent dislodgement of the hook during retraction. A V-shaped notch is placed on the archwire just distal to crimpable hook (Figure 1 & 2). The ‘V’ should be made as narrow as possible so that it occupies minimum mesio-distal dimension. A large V notch may interfere with the bracket distal to the hook. This V-notch prevents sliding of the hook along the archwire during retraction of the anterior teeth.

REFERENCES