

CHAPTER VI

CONCLUSIONS

The result of the present *in vitro* study show that the high intensity light emitting diode (intensity = 1,250 Mw/cm²) reduces the curing time for bonding orthodontic stainless steel brackets to a minimum of eight seconds per tooth. The shear bond strength values achieved were comparable with the values obtained from the conventional halogen lamp at 40 seconds per tooth. And there was a tendency for adhesives to be left on the tooth surface after de-bonding when the curing time was decreased.

Further recommendations

1. Clinical trials should be conducted, if possible, for more practical and reliable data.
2. Site of failure evaluation and microstructure evaluation of surface enamel should be performed, using scanning electron microscopy, for more meaningful derived data.