CHAPTER 5

CONCLUSIONS

- 1) When using NiTi closed coil spring (continuous force 6 ounces), the IL-1 β and IL-8 levels were elevated and reached a peak at 24 hours after force application. The levels of both cytokines were decreased but still higher than the baseline level after one month of force application.
- 2) For elastic c-chain (intermittent force 6 ounces), the IL-1 β and IL-8 levels were increased and highest at 24 hours after force application. However the levels of both cytokines were decreased to the baseline level within one month of force application.
- 3) The IL-1 β and IL-8 levels measuring from NiTi closed coil spring group were significantly higher than those from elastic c-chain at any time.
- 4) The rate of maxillary canine retraction from NiTi closed coil spring was significantly higher than from elastic c-chain.