

Appendix Figure 1. The consort flow chart of patients` eligibility, allocation and analysis



Appendix Figure 2. Represents CW group treatment of upper arch (A) Pre-operative (B) 4th week postoperatively (C) 3 years postoperatively



Appendix Figure 3. Represents pulsed group treatment of upper arch (A) Pre-operative view (B) 4th week postoperatively (C) 3 years postoperatively