**Introduction**

Class II malocclusion with retrognathic mandible and normal maxilla in growing patients could be treated with growth modification. Twin Block Appliance is the most favourable to treat this case. Growth modification treatment is most effectively done in growth spurt period (MC Namara, 1998; Fishman, 1982).

**Case Report**

- A 10-year-old female patient with chief complaint: upper teeth more forward than the lower teeth.
- Extra oral examination: leptoprosop facial type, convex facial profile, facial symmetry.
- Intra oral examination: overbite 5 mm and overjet 8 mm.
- The cephalometric analysis: skeletal class II malocclusion with retrognathic mandible (Steiner).
- The hand-wrist assessment: SMI 4 (Fishman).
- She hasn't got menarche yet.

**Aim of Treatment**

To correct the retrognathic mandible using Twin Block Appliance.

**Diagnosis**

Class II dentoskeletal malocclusion with deep bite, upper anterior teeth protrusion, convex profile, increased overjet, and retrognathic mandible.

**Treatment Procedures**

- Bite registration in molar class I relation, bite opening 5 mm.
- Insertion the Twin Block Appliance.
- Patient instruction: wearing Twin Block minimally 16 hours/day.
- Control: every 3-4 weeks.

**Results**

- After 19 months of treatment, there were significantly changes on skeletal and dental.
- Treatment progress shows: skeletal class I, molar class I, canine left and right class II, deep bite and overjet was corrected.

**Discussion**

- The Twin Block appliance forced and hold mandible forward. Growth modification treatment needs a proper diagnosis and treatment timing, in growth spurt period.
- Patient and parents cooperation played an important role.

**Conclusion**

Class II malocclusion with retrognathic mandible in growing patients can be treated by growth modification treatment using Twin Block Appliance.