

Patient Elaine Su age 18 years with a severe lateral and anterior open bite and tongue thrusting. (The patient has also been referred to a new dentist in Toronto to restore endodontically treated upper right second molar, and oral hygiene reviewed extensively).

The patient and parent refused extraction treatment and RME, where the mid palatal suture fused near age 16 years. We started a therapeutic diagnosis with non-extraction treatment, with the plan to re-visit extractions in 4 months.

1. The TS2s will be uniquely placed from upper molar to molar (12 in total in upper) with lower canine to canine (6 more) to prevent the tongue from protruding laterally as we also expand the maxillary constriction (18 TS2s in total).

However, we started today by placing TS2s in 3 separate stages for comfort with the unique application of the first set of TS2s attached from first molars to the first premolars Image #1 to provide patient comfort. The second stage will include adding the TS2s upper canine to canine in second appt, and the third stage will be lower canine to canine for the total of 18 tongues stars for this patient in the third appointment.

2. Bond strength with mesh pads were good at the initial appointment with good bonding pad adaptations as can be observed in Image #1 occlusal view. Further reporting will follow.

3. The small size and rounded 9 protrusions did not cut, or hurt Elaine. Further follow-up pending as well.

4. Important Note, in Images #2-4 the undercuts in tie-wings in the TS2s permitted the placement of crossbite box elastics shown to correct the maxillary constriction and to make space for the severe crowding. The ortho hygienists were especially pleased to be able to control the tongue with TS2s, while also being able to place the crossbite elastics for Simultaneous correction of the crossbite bilaterally and provide the necessary maxillary space.

5. Elaine elected initial placement of ceramic active self-ligating brackets L 6-6 for anchorage of the elastics due to her sensitive teenage adolescent age that required attention to esthetics. The upper arch will receive the same upper ceramic brackets on the next appointment in conjunction with the upper 3-3 TS2 in the second stage indicated above.



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