



## Leo R. Cullinan, DDS, MS

Board Certified Orthodontic Specialist

### Surgical Orthodontic Treatment

There are certain malocclusions (faulty bites) that result from underlying skeletal abnormalities related to genetics, faulty growth and development or trauma. Surgical Orthodontic Treatment involves pre-surgical orthodontic tooth movement to align the teeth prior to Orthognathic (Jaw) Surgery in close coordination with an Oral & Maxillofacial Surgeon.

This includes:

- Deficient lower jaw
- Deficient upper jaw
- Excess vertical growth of the upper jaw (“gummy smile”)
- Strong forward growth of the lower jaw (skeletal “underbite”)
- Skeletal crossbite caused by a narrow upper jaw
- Anterior open bite relationship (front teeth don’t touch when biting)
- Posterior open bite relationship (back teeth don’t touch when biting)
- Skeletal asymmetry
- Facial/jaw traumatic fractures



Strong Forward Lower Jaw Growth



Deficient Lower Jaw



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## Surgical Orthodontic Treatment (continued)

### Anterior Open Bite (case 1)



Before Orthodontics & Surgery



After Orthodontics & Surgery

### Anterior Open Bite (case 2)



Before Orthodontics & Surgery



After Orthodontics & Surgery



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## Surgical Orthodontic Treatment (continued)

### Traumatic Fracture of the Lower Jaw



Before Orthodontics



After Orthodontics (No Surgery)

