The Role of Multiple Segment Osteotomies in Orthognathic Surgery
V K L Yeow,* MBBS, FRCS (Edin), FRCS (Glas), Y R Chen,** MD, C P Su,** DDS, PhD

Abstract

Multiple segment orthognathic (MSO) surgery is an effective approach to deal with a wide range of dento-facial deformities that have occlusal problems. The indications for MSO surgery were patients with dento-facial deformities and malocclusion requiring stable correction within a short overall treatment period.

From 1991 to 1998, 107 patients had MSO orthognathic procedures done at Chang Gung Memorial Hospital for maxillary protrusion/deformity (34 cases), maxillary protrusion and mandibular prognathism (69 cases), and non-cleft maxillary retrusion (4 cases). Follow up period ranged from 6 months to 7 years and results showed stability in movements with only 3 complications. The average overall treatment time was approximately 15 months.

Our experience with 107 consecutive patients have shown the results of MSO surgery to be good and the procedure safe with no tooth or segment loss.

Key words: Jaw, Maxillofacial, Segmental, Surgery

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* Associate Consultant
  Department of Plastic Surgery
  Singapore General Hospital

** Superintendant
  Chang Gung Memorial Hospital, Taiwan

*** Head
  Professional Dental Clinic, Taipei, Taiwan

Address for Reprints: Dr Yu-Ray Chen, Craniofacial Center, Department of Plastic and Reconstructive Surgery, Chang Gung Memorial Hospital, 199 Tung Hwa North Road, Taipei, Taiwan.