

Ramus vertical elongation and mandibular advancement by intraoral approach: Presentation of a new osteotomy technique

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Different surgical procedures have been proposed for the treatment of the hyperdivergent dentoskeletal deformities. We propose a new osteotomy technique allowing lengthening of and advancement of the mandibular ramus with an intraoral approach. This technique differs from the conventional sagittal split osteotomy in the anterior osteotomy line which is not continued until the basilar edge but stopped 5-6mm above it. Cutting of the pterygomasseteric sling is systematically done allowing lowering of the mandibular angle. Osteosynthesis is performed thanks to transjugal and intraoral approaches, using two adjustable miniplates.

Our supra-angle technique allows both elongation of the ramus and advancement of the mandible. Unlike the vertical ramus osteotomy proposed by Caldwell-Letterman, external incision and significant cervical mobilization are not required.

Vertical ramus elongation and mandibular advancement by endobuccal approach: Presentation of a new osteotomy technique. Grimaud F, Bertin H, Fauvel F, Corre P, Perrin JP. J Stomatol Oral Maxillofac Surg. 2017 Feb;118(1):66-69. doi: 10.1016/j.jormas.2016.12.003. Epub 2017 Feb 3. PMID: 28330579