



제 56차 대한악안면성형재건외과학회 종합학술대회 및 정기총회



The 56th Congress of the Korean Association of
Maxillofacial Plastic and Reconstructive Surgeons
November 3(Fri) – 4(Sat), 2017 | Global Convention Plaza, Seoul

Symposium 2



Prof. Su-Jung Kim

*Orthodontics Kyung Hee University School of
Dentistry*

Korea

경희대학교 치과대학 졸업
경희대학교 부속 치과병원 인턴, 레지던트 수료
경희대학교 대학원 석사, 박사
미국 UCLA 방문 교수
(현) 경희대학교 치과대학 교정학교실 교수, 치과병원 교정과 과장
세계 수면학회 회원



제 56차 대한악안면성형재건외과학회 종합학술대회 및 정기총회



The 56th Congress of the Korean Association of
Maxillofacial Plastic and Reconstructive Surgeons
November 3(Fri) – 4(Sat), 2017 | Global Convention Plaza, Seoul

Significance of modified maxillomandibular advancement surgery

Su-Jung Kim

Orthodontics Kyung Hee University School of Dentistry

Maxillomandibular advancement (MMA) is regarded as the best surgical modality to increase whole pharyngeal airway in patients with obstructive sleep apnea (OSA). A modified surgical method combined with anterior segmental osteotomy (ASO) has been introduced to overcome the shortcomings of conventional MMA which might cause unfavorable facial profile in already protrusive Asian patients. Recently, four types of modified MMA have been suggested in consideration of the amounts of maxillary protrusion, occlusal plane steepness, lower incisor inclination, and upper incisor exposure, aiming at esthetic and respiratory improvement at the same time. Additionally, in other aspect, multi-piece maxillary osteotomy is combined with MMA in order to maximize airway expansion as well as to correct skeletal transverse discrepancy.

However, controversies still exist on the stretching effect of pharyngeal soft tissues following skeletal structural expansion in relation to the stability of bony segments after modified MMA surgery. In terms of osseo-pharyngeal reconstruction to focus on increasing airway patency especially of lateral pharyngeal walls, should we compromise esthetic treatment goal for fear of skeletal and pharyngeal relapse?

This lecture will update you on the clinical significance of modified MMA surgery from orthodontic point of view where esthetic and respiratory improvements are pursued simultaneously.