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Professor, Department of Craniofacial Orthodontics, Chang Gung Memorial Hospital,
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Professor, Graduate Institute of Craniofacial and Dental Science, Chang Gung
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President, Taiwan Cleft Palate-Craniofacial Association

Councilor Committee Member, Taiwan Association of Orthodontists

Editor-in-Chief, Taiwanese Journal of Orthodontics

Focus of Interest:

Surgical-orthodontics

Biomechanics of orthodontics

Cleft lip and palate and craniofacial anomalies

3D image and surgical simulation

clear aligner orthodontics

Education:

1999 M.S., Master of Science, Medical College, University of Illinois at
Chicago, Chicago, Illinois, USA

1991 D.D.S., College of Dentistry, Taipei Medical University, Taipei, Taiwan

Publications (in recent 5 years)

1. Ko EWC, Chen PKT, Tai ICH, Huang CS. Fronto-facial monobloc distraction in

- syndromic craniosynostosis- three-dimensional evaluation of treatment outcome and facial growth. *Int J Oral Maxillofac Surg* 41(1):20-27, 2012 (SCI; IF=1.565, Dentistry, Oral Surgery & Medicine, 30/87, 34.5%)
2. Hsu SP, Huang CS, Chen PKT, Ko EWC*, Chen YR. The stability of mandibular prognathism corrected by bilateral sagittal split osteotomies: A comparison of bi-cortical osteosynthesis and mono-cortical osteosynthesis. *Int J Oral Maxillofac Surg* 41(2):142-149, 2012 (SCI; IF=1.565, Dentistry, Oral Surgery & Medicine, 30/87, 34.5%)
 3. Ko EWC*, Huang CS, Lo LJ, Chen YR. Longitudinal observation of mandibular Motion pattern in patients with skeletal Class III malocclusion subsequent to orthognathic surgery. *J Oral Maxillofac Surg* 70:e158e-e168, 2012/2 (SCI; IF=1.425; Dentistry, Oral Surgery & Medicine 37/87, 42.5%)
 4. Yang YL, Ko EWC*, Huang CS, Chen YR. Dental and skeletal correction of Möbius syndrome: a case report. *Taiwanese J Orthod* 24(1):55-63, 2012
 5. Wang YC, Ko EWC*, Chen PKT. Face asymmetry and mandibular bite collapse corrected with orthognathic surgery and miniscrews in patient with Wilson disease. *Taiwanese J Orthod* 24(2):4-15, 2012
 6. Hsu SP, Singhal D, Xia JJ, Gateno J, Lin CH, Huang CS, Lo LJ, Ko EWC, Chen YR. Planning the surgery-first approach in surgical-orthodontic treatment with a computer aided surgical simulation (CASS) planning protocol. *Taiwanese J Orthod* 24(2):24-37, 2012
 7. Lim H, Ko EWC*, Lo LJ. LeFort III Distraction Osteogenesis: Modification of the intraoral splint in the rigid external distraction. *J Craniofac Surg* 23(3):856-858, 2012 (May) (SCI, IF=0.678, Surgery 165/198, 83.3%)
 8. Liao YF*, Hsieh YJ, Chen I Ju, Ko EWC, Chen PKT. Comparative outcomes of two nasoalveolar molding techniques for unilateral cleft nose deformity. *Plastic*

Reconstr Surg 130(6):1289-1295, 2012(12) (SCI; IF=2.993; Surgery 366/198; 18.2%)

9. Ko EWC, Lin SC, Chen YR, Huang CS*. Skeletal and dental variables related to the stability of orthognathic surgery in Skeletal Class III Malocclusion with a Surgery-First Approach. J Oral Maxillofac Surg 71(5):e215-e223, 2013(55) (SCI; IF=1.425; Dentistry, Oral Surgery & Medicine 37/87, 42.5%)
10. Hsieh YJ, Ko EWC*, Liao YF, Huang CS. Correction of severe Class II division 1 malocclusion with miniscrew anchorage- a case report. Taiwanese J Orthod 25(1):31-45, 2013
11. Ko EWC*, Huang CS, Lo LJ, Chen YR. Alteration of masticatory electromyographic activity and stability of orthoganthic surgery in patients with skeletal Class III malocclusion. J Oral Maxillofac Surg 71:1249-1260, 2013/7 (SCI; IF=1.425; Dentistry, Oral Surgery & Medicine 37/87, 42.5%)
12. Wu TT, Ko EWC*, Chen PKT, Huang CS. Craniofacial characteristics in unilateral complete cleft lip and palate patients with congenitally missing teeth. Am J Orthod Dentofacial Orthop 144:381-90, 2013/9 (SCI; IF=1.382; Dentistry, Oral Surgery & Medicine 40/87, 46.0%)
13. Huang CS*, Syu JJS, Ko EWC, Chen YR. Quantitative evaluation of cortical bone thickness in mandibular prognathic patients with neurosensory disturbance after bilateral sagittal split osteotomy. J Oral Maxillofac Surg 71:2153.e1-2153.e10, 2013/10 (SCI; IF=1.425; Dentistry, Oral Surgery & Medicine 37/87, 42.5%)
14. Wang YM, Ju YR*, Ko EWC, Pan WL, Chang STJ. Root coverage with laterally positioned pedical flap and subepithelial connective tissue graft and localized severely denuded root surface after surgical orthodontic treatment in cleft lip and palate: a case report. Taiwanese J Orthod 26(1):41-48, 2014

15. Liao YF*, Wang YC, Chen IJ, Pai CJ, Ko EWC, Wang YC. Comparative outcomes of two nasoalveolar molding techniques for bilateral nose deformities. *Plast Reconstr Surg* 133(1):103-110, 2014/1 (SCI; IF=2.993; Surgery 36/198, 18.2%)
16. Chen YH, Lin CH, Ko EWC*. Comparison of the initial nasolabial Changes by 2 different alar base cinch suture techniques in Class III patients who received two-jaw orthognathic surgery. *Taiwanese J Orthod* 26(2):82-91, 2014
17. Teng TTY, Ko EWC*, Huang CS, Chen YR. Effect of early physiotherapy on the recovery of mandibular function after orthognathic surgery for Class III correction: part I— jaw-motion analysis. *J Cranio-maxillofac Surg* 43(1):131-137, 2015(1) (SCI, IF=2.933, Dentistry, Oral Surgery & Medicine, 11/87, 12.6%)
18. Ko EWC*, Teng TTY, Huang CS, Chen YR. Effect of early physiotherapy on the recovery of mandibular function after orthognathic surgery for Class III correction: part II—electromyography activity of masticatory muscles. *J Cranio-maxillofac Surg* 43(1):138-143, 2015(1) (SCI, IF=2.933, Dentistry, Oral Surgery & Medicine, 11/87, 12.6%)
19. Ko EWC*, Alazizi AI, Lin CH. The 3D surgical changes of mandibular proximal segments affect outcome of jaw motion analysis. *J Oral Maxillofac Surg* 73:971-984, 2015(5) (SCI; IF=1.425; Dentistry, Oral Surgery & Medicine 37/87, 42.5%)
20. Chen YH, Lin CH, Ko EWC*. Effects of two alar base suture techniques on nasolabial changes after bimaxillary orthognathic surgery in Taiwanese patients with Class III malocclusions. *Int J Oral Maxillofac Surg* 44:816-822, 2015(5) (SCI; IF=1.565, Dentistry, Oral Surgery & Medicine 30/87, 34.5%)
21. Huang YC, Lin CL, Ko EWC*. Effects of proximal grooves and abutment

height on the resistance of resin-cemented crowns in teeth with inadequate resistance: an in vitro study. *Biomedical J* 38(4):336-341, 2015(8)

22. Lin WC, Ko EWC*. Orthodontic treatment in periodontal compromised patient with Class II posterior cross bite and deep overbite. *Taiwanese J Orthod* 27(4):186-195, 2016
23. Fan SW, Ko EWC*, Chen PKT. Long-term Evaluation and Treatment for a Patient with Costochondral Graft to Reconstruct Bony Deficiency in Hemifacial Microsomia- A case report. *Taiwanese J Orthod* 28(304):152-165, 2017
24. Ko EWC, Chen PKT, Lo LJ. Comparison of adult 3D craniofacial features of patients with unilateral hemifacial microsomia with and without early mandibular distraction osteogenesis. *Int J Oral Maxillofac Surg* 46(6):811-818, 2017(6)
25. Lin CW, Wang YC, Chen YH, Ko EWC*. Dentoskeletal Parameters Related to Visual Perception of Facial Asymmetry in Patients with Skeletal Class III Malocclusion After Orthognathic Surgery. *Int J Oral Maxillofac Surg* 2017 (in press)
26. Chen CYH, Ko EWC*. Relationship of the surface electromyography in masticatory muscles with the vertical facial patterns and orthodontic tooth movement. *Taiwanese J Orthod* 29(2):68-77, 2017
27. Patchanee S, Ko EWC*, Lin CH. Definitive surgical orthodontic treatment to correct the problems subsequent to early skeletal Class III camouflage. *Taiwanese J Orthod* 29(2):108-117, 2017