

# **Systematic Review of Facial Asymmetry**

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Facial asymmetry could have a significant impact on perceived attractiveness. It's also a common chief complaint of patients with various type of dentofacial deformities. However, perfect bilateral facial symmetry is almost a theoretical concept that it seldom exists in the nature. A mild degree of asymmetry is commonly seen and acceptable and could even add to attractiveness whereas a greater degree of asymmetry might lead to severe psychosocial problems. Major asymmetry involving both the upper and lower jaws often requires a combination of orthodontic treatment and orthognathic surgery.

This systematic review was based on structured search of electronic databases and hand searching, and covered two aspects in facial asymmetry. First, scientific evidence was searched to define a range of facial asymmetry that is esthetically acceptable and clinically significant threshold value or cutoff point at which a facial asymmetry is perceived as unattractive was investigated. Second, relevant literature was reviewed to assess the treatment outcome of facial asymmetry corrected by orthognathic surgery. Finally, the surgical outcome of facial asymmetry was compared with the threshold of visual perception of facial asymmetry. And we hope the systematic review could provide a clinical guide for treating patient with facial asymmetry.