

# Methodik zur quantitativen Erfassung dreidimensionaler Gesichtsasymmetrie

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## Literatur

- 1 Baek C, Paeng JY, Lee JS, Hong J. Morphologic evaluation and classification of facial asymmetry using 3-dimensional computed tomography. *J Oral Maxillofac Surg.* 2012 May;70(5):1161-9.
- 2 Braun, C., Gruendl, M., Marberger, C. & Scherber, C. Beautycheck – Ursachen und Folgen von Attraktivitaet. Report. [http:// www.beautycheck.de/english/bericht/bericht.htm](http://www.beautycheck.de/english/bericht/bericht.htm). 2001
- 3 Cunningham MR. Measuring the physical in physical attractiveness: Quasi-experiments on the sociobiology of female facial beauty. *Journal of Personality and Social Psychology*, Vol 50(5), May 1986, 925-935. doi: 10.1037/0022-3514.50.5.925
- 4 Gordon P, Wander P. Techniques for dental photography. *Br Dent J.* 1987 Apr 25;162(8):307-16.
- 5 Haraguchi S, Takada K, Yasuda Y. Facial asymmetry in subjects with skeletal Class III deformity. *Angle Orthod.* 2002 Feb;72(1):28-35.
- 6 Hwang HS, Yuan D, Jeong KH, Uhm GS, Cho JH, Yoon SJ. Three-dimensional soft tissue analysis for the evaluation of facial asymmetry in normal occlusion individuals. *Korean J Orthod.* 2012 Apr;42(2):56-63. doi: 10.4041/kjod.2012.42.2.56. Epub 2012 Apr 27.
- 7 Meyer-Marcotty P, Alpers GW, Gerdes AB, Stellzig-Eisenhauer A. Impact of facial asymmetry in visual perception: a 3-dimensional data analysis. *Am J Orthod Dentofacial Orthop.* 2010 Feb;137(2):168.e1-8
- 8 Langlois J H, Roggmann L A. Attractive faces are only average. *Psychological Science* 1. 1990; 115-121.
- 9 O’Grady KF, Antonyshyn OM. Facial asymmetry: three-dimensional analysis using laser surface scanning. *Plast Reconstr Surg* 1999;104:928Y937
- 10 Rasse M, Forkert G, Waldhäusl P. Stereophotogrammetry of facial soft tissue. *Int J Oral Maxillofac Surg.* 1991 Jun;20(3):163-6.
- 11 Scheib JE, Gangestad SW, Thornhill R. Facial attractiveness, symmetry and cues of good genes. *Proc Biol Sci.* 1999 Sep 22;266(1431):1913-7.
- 12 Verzé L, Bianchi FA, Schellino E, Ramieri G. Soft tissue changes after orthodontic surgical correction of jaws asymmetry evaluated by three-dimensional surface laser scanner. *J Craniofac Surg.* 2012 Sep;23(5):1448-52.
- 13 Yoon SJ, Wang RF, Na HJ, Palomo JM. Normal range of facial asymmetry in spherical coordinates: a CBCT study. *Imaging Sci Dent.* 2013 Mar;43(1):31-6. doi: 10.5624/isd.2013.43.1.31. Epub 2013 Mar 11.