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Titel

Effektivität nach zweijährigem Orthesen-Design mit CAD/CAM und Simulationen bei
adoleszenter idiopathischer Skoliose - Eine randomisierte kontrollierte Studie

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Zusammenfassung

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Einführung

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Methodik

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Ergebnisse

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Schlußfolgerung

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Literaturreferenzen

Weinstein SL, Dolan LA, Wright JG, Dobbs MB. Effects of bracing in adolescents with idiopathic scoliosis. *N Engl J Med.* 2013;369(16):1512-1521.

Climent JM, Sánchez J. Impact of the type of brace on the quality of life of adolescents with spine deformities. *Spine (Phila Pa 1976).* 1999;24(18):1903.

Cobetto N, Aubin CE, Clin J, et al. Braces Optimized With Computer-Assisted Design and Simulations Are Lighter, More Comfortable, and More Efficient Than Plaster-Cast Braces for the Treatment of Adolescent Idiopathic Scoliosis. *Spine Deform.* 2014;2(4):276-284.

Wong M, Cheng J, Lo K. A comparison of treatment effectiveness between the CAD/CAM method and the manual method for managing adolescent idiopathic scoliosis. *Prosthet Orthot Int.* 2005;29

Desbiens-Blais F, Clin J, Parent S, Labelle H, Aubin CE. New brace design combining CAD/CAM and biomechanical simulation for the treatment of adolescent idiopathic scoliosis. *Clin Biomech (Bristol, Avon)*. 2012;27(10):999-1005.

Cobetto N, Aubin CE, Parent S, et al. Effectiveness of braces designed using computer-aided design and manufacturing (CAD/CAM) and finite element simulation compared to CAD/CAM only for the conservative treatment of adolescent idiopathic scoliosis: a prospective randomized controlled trial. *Eur Spine J*. 2016;25(10):3056-3064.