Independent Research Using the STARband / STARscanner / SmartSoc and Systematic Reviews Related to the Orthotic Management of Deformational Head Shapes

Baird LC, Klimo P, et al. (2016). Congress of Neurological Surgeons systematic review and evidence-based guideline for the management of patients with positional plagiocephaly: The role of physical therapy. Neurosurgery, 79(5), e630-e631.

Beuriat P-A, Szathmari a, et al. (2019). Deformational plagiocephaly: State of the art and review of the literature. Neurochirurgie, 65(5), 322-329.

Bonnar MF, Ventura M, Winans A & Scott AR (2013). Helmet modification for soft-band bone-anchored hearing aid use during cranial orthosis. Laryngoscope, 124(2), 558-560.

Braun TL & Hollier LH (2017). Review of 5 articles of "Congress of Neurological Surgeons Systematic Review and Evidence-Based Guidelines for the Patients with Positional Plagiocephaly" articles in Neurosurgery 79. J Craniofac Surg, 28(4), 1113.

Cevik S, Isik S & Ozkilic A (2020). The role of age on helmet therapy in deformational plagiocephaly and asymmetric brachycephaly. Childs Nerv Syst, 36(4), 803-810.

Chou P-Y, Hallac RR, et al. (2017). Three-dimensional changes in head shape after extended sagittal strip craniectomy with wedge ostectomies and helmet therapy. J Neurosurg Pediatr, 19, 684-689. STARscanner STARband Craniosynostosis

DeBock F, Braun V, et al. (2017). Deformational plagiocephaly in normal infants: A systematic review of causes and hypotheses. Arch Dis Child, 102(6), 535-542.

Eberle NA, Stelnicki EJ, et al. (2015). Efficacy of conservative and cranial orthotic therapy in over 4000 patients treated for positional plagiocephaly over a 5-year period. Plast Reconstruc Surg, 136(4S), 5-6.

Ellwood J, Draper-Rodi J, et al. (2020). The effectiveness and safety of conservative interventions for positional plagiocephaly and congenital muscular torticollis: A synthesis of systematic reviews and guidance. Chiropr Man Therap, 28(1), 31.

Faucett EA, Lam-Bellissimo S, Zawawi et al. (2018). Cranial orthosis after cochlear implantation in an infant: Helmet modifications. Int J Pediatr Otorhinolaryngol, 114, 101-105.

Flannery AM, Tamber MS, et al. (2016). Congress of Neurological Surgeons systematic review and evidence-based guidelines for the management of patients with positional plagiocephaly: Executive summary. Neurosurgery, 79(5), 623-624.

Geil MD & Smith A (2008). Accuracy and reliability of a system for the digital capture of infant head shapes in the treatment of cranial deformities. J Prosthet Orthot, 20(2), 35-38.

Gociman B, Marengo J, et al. (2012). Minimally invasive strip craniectomy for sagittal synostosis. J Craniofac Surg, 23, 825-828. STARscanner and STARband Craniosynostosis

Graham T, Adams-Huet B, et al. (2019). Effects of initial age and severity on cranial remolding orthotic treatment for infants with deformational plagiocephaly. J Clin Med, 8(8), 1097.

Graham T, Millay K, et al. (2020). Significant factors in cranial remolding orthotic treatment of asymmetrical brachycephaly. J Clin Med, 9(4), 1027.

Graham T & Wang J (2022). Development and validation of a prediction model for the treatment time of deformational head shapes using a cranial remolding orthosis. Children, 9, 354.

Han M, Kang JY, et al. (2017). Relationship between starting age of cranial-remolding-orthosis therapy and effectiveness of treatment in children with deformational plagiocephaly. Childs Nerv Syst, 33(8), 1349-1356.

Holowka MA, Reisner A, Giavedoni B et al. (2017). Plagiocephaly severity scale to aid in clinical treatment recommendations. J Craniofac Surg, 3, 717-722.

Ifflaender S, Rüdiger M, et al. (2013). Three-dimensional digital capture of head size in neonates: A method evaluation. PLOS One, 8(4), e61274.

Ifflaender S, Rüdiger M, et al. (2013). Prevalence of head deformity in pre-term infants at term-equivalent age. Early Hum Dev, 89(12), 1041-1047.

Ifflaender S, Rudiger M, Konstantelos D et al. (2014). Individual course of cranial symmetry and proportion in preterm infants up to 6 months of corrected age. Early Hum Dev, 90(9), 511-515.

Lyer RR, Ye X et al. (2018). Optimal duration of postoperative helmet therapy following endoscopic strip craniectomy for sagittal craniosynostosis.

J Neurosurg Pediatr, 22, 610-615. STARscanner and STARband Craniosynostosis

Jimenez DF & Barone CM (2013). Early treatment of coronal synostosis with endoscopy-assisted craniectomy and post-operative cranial orthosis therapy: 16-year experience. J Neurosurg Pediatr, 12, 207-219. STARscanner and STARband Craniosynostosis

Kaplan SL, Coulter C, et al. (2018). Physical therapy management of congenital muscular torticollis: A 2018 evidence-based clinical practice guideline from the APTA Academy of Pediatric Physical Therapy. Pediatr Phys Ther, 30(4), 240-290.

Kim SY, Park M-S, et al. (2013). Comparison of helmet therapy and counter positioning for deformational plagiocephaly. Ann Rehabil Med, 37(6), 785-795.

Klimo P, Lingo PR, et al. (2016). Congress of Neurological Surgeons systematic review and evidence-based guidelines for the management of patients with positional plagiocephaly: The role of repositioning. Neurosurgery, 79(5), 627-629.

Lam S, Pan IW, et al. (2017). Factors influencing outcomes in the treatment of positional plagiocephaly in infants: A 7-year experience. J Neurosurg Pediatr, 19(3), 273-281.

Lam S, Luerssen TG, et al. (2017). The health belief model and factors associated with adherence to treatment recommendations for positional plagiocephaly. J Neurosurg Pediatr, 19(3), 282-288.

Lee HS, Kim SJ & Kwon J-Y (2018). Parents' perspectives and clinical effectiveness of cranial-molding orthoses in infants with plagiocephaly. Ann Rehabil Med, 42(5), 737-747.

Mackel CE, Bonnar M, et al. (2017). The role of age and initial deformation on final cranial asymmetry in infants with plagiocephaly treated with helmet therapy. Pediatr Neurosurg, 52(5), 318-322.

Martiniuk Al, Vujovich-Dunn C, et al. (2017). Plagiocephaly and developmental delay: A systematic review. J Dev Behav Pediatr, 38(1), 67-78.

Matarazzo CG, Schreen G, et al. (2017). Orthotic treatment of positional brachycephaly associated with osteogenesis imperfecta. Prosthet Orthot Int, 41(6), 595-600.

Mazzola C, Baird LC, et al. (2016). Congress of Neurological Surgeons systematic review and evidence-based guideline for the diagnosis of patients with positional plagiocephaly: The role of imaging. Neurosurg, 79(5), e625-626.

Naidoo SD & Cheng AL (2014). Long-term satisfaction and parental decision making about treatment of deformational plagiocephaly. J Craniofac Surg, 25(1), 160-165. STARscanner and STARband

Naidoo SD, Skolnick GB, et al. (2019). Head shape retention following helmet therapy for deformational plagiocephaly. J Craniofac Surg, 30(6), 1842-1844.

Naidoo SD, Skolnick GB, et al. (2015). Long-term outcomes in treatment of deformational plagiocephaly and brachycephaly using helmet therapy and repositioning: A longitudinal cohort study. Childs Nerv Syst, 31, 1547-1552.

Ozkilic A, Cevik S & Isik S (2020). The role of age on effectiveness of active repositioning therapy in positional skull deformities. J Basic Clin Health, 1, 33-37.

Plank LH, Giavedoni B, et al. (2006). Comparison of infant head shape changes in deformational plagiocephaly following treatment with a cranial remolding orthosis using a noninvasive laser shape digitizer. J Craniofac Surg, 17(6), 1084-91.

Schreen G & Matarazzo CG (2013). Plagiocephaly and brachycephaly treatment with cranial orthosis: A case report. Einstein (Sao Paulo), 11(1), 114-118.

Shweikeh F, Nuño M, et al. (2013). Positional plagiocephaly: An analysis of the literature on the effectiveness of current guidelines. Neurosurg Focus, 35(4), E1.

Siegenthaler MH (2015). Methods to diagnose, classify and monitor infantile deformational plagiocephaly and brachycephaly: A narrative review. J Chiropr Med, 14(3), 191–204.

Steinberg JR, Rawlani R, et al. (2015). Effectiveness of conservative therapy and helmet therapy for positional cranial deformation. Plast. Reconstr Surg, 135, 833-842.

Tamber MS, Nikas D, et al. (2016). Congress of Neurological Surgeons systematic review and evidence-based guideline for the diagnosis of patients with positional plagiocephaly: The role of cranial molding orthosis (helmet) therapy. Neurosurgery, 79(5).

Weathers WM, Khechoyan D, et al. (2014). A novel quantitative method for evaluating surgical outcomes in craniosynostosis: Pilot analysis for metopic synostosis. Craniomaxillofac Trauma Reconstr, 7(1), 1-8. STARscanner

Weersma et al. (2020). The effect of age on the rate of correction in infants with head shape deformities treated with cranial remolding orthoses. JPO, 32(4), 286-294.

Weissler EH, Sherif RD, et al. (2016). An evidence-based approach to nonsynostotic plagiocephaly. Plast Reconstr Surg, 138, 682e.

Wen J, Qian J, Zhang L, et al. (2019). Effect of helmet therapy in the treatment of positional head deformity. J Paediatr Child Health, 56(5), 735-741.