ROKband
Pediatric Headshape Clinic

Positional Plagiocephaly and Cranial Remodelling Orthosis: Reference Guide

1. Arti, M., & Nagaratna, V. (2018). "Positional Plagiocephaly." *International Journal of Advanced Scientific Research and Management. 2,* 173-179.
2. Bialocerkowski, A. E., Vladusic, S. L., & Wei Ng, C. (2008). Prevalence, risk factors, and natural history of positional plagiocephaly: a systematic review. *Developmental Medicine and Child Neurology, 50*(8), 577–586. https://doi.org/10.1111/j.1469-8749.2008.03029.x
3. Biggs W. S. (2003). Diagnosis and management of positional head deformity. *American Family Physician, 67*(9), 1953–1956.
4. Branch, L. G., Kesty, K., Krebs, E., Wright, L., Leger, S., & David, L. R. (2015). Argenta clinical classification of deformational plagiocephaly. *The Journal of Craniofacial Surgery, 26*(3), 606–610. https://doi.org/10.1097/SCS.0000000000001511
5. Branch, L. G., Kesty, K., Krebs, E., Wright, L., Leger, S., & David, L. R. (2015). Deformational plagiocephaly and craniosynostosis: Trends in diagnosis and treatment after the "back to sleep" campaign. *The Journal of Craniofacial Surgery, 26*(1), 147–150. https://doi.org/10.1097/SCS.0000000000001401
6. Çevik, S., Işık, S., & Özkılıç, A. (2019). The role of age on helmet therapy in deformational plagiocephaly and asymmetric brachycephaly. *Child's Nervous System.* https://doi.org/10.1007/s00381-019-04354-2
7. Cho, H. G., Ryu, J. Y., Lee, J. S., Yang, J. D., Chung, H. Y., & Choi, K. Y. (2024). A Study on the Effectiveness of Helmet Therapy for Cranial Deformations According to Cranial Shape. *The Journal of Craniofacial Surgery.* https://doi.org/10.1097/SCS.0000000000010018
8. Choi, H., Lim, S. H., Kim, J. S., & Hong, B. Y. (2020). Outcome Analysis of the Effects of Helmet Therapy in Infants with Brachycephaly. *Journal of Clinical Medicine, 9*(4), 1171. doi:10.3390/jcm9041171
9. Choi, H., Lim, S. H., Kim, J. S., & Hong, B. Y. (2020). Outcome Analysis of the Effects of Helmet Therapy in Infants with Brachycephaly. *Journal of Clinical Medicine, 9*(4), 1171. https://doi.org/10.3390/jcm9041171
10. Fish, Deanna & Lima, Dulcey. (2003). An Overview of Positional Plagiocephaly and Cranial Remolding Orthoses. *JPO: Journal of Prosthetics and Orthotics. 15.* 37-45. 10.1097/00008526-200304000-00002.
11. Flannery, A. B., Looman, W. S., & Kemper, K. (2012). Evidence-based care of the child with deformational plagiocephaly, part II: management. *Journal of pediatric health care : official publication of National Association of Pediatric Nurse Associates & Practitioners, 26*(5), 320–331. https://doi.org/10.1016/j.pedhc.2011.10.002
12. Graham, T., & Wang, J. (2022). Side Effects of Cranial Remolding Orthoses: A Multi-Site Review. *The Journal of Craniofacial Surgery, 33*(5), 1358–1362. https://doi.org/10.1097/SCS.0000000000008529
13. Graham, T., Adams-Huet, B., Gilbert, N., Witthoff, K., Gregory, T., & Walsh, M. (2019). Effects of Initial Age and Severity on Cranial Remolding Orthotic Treatment for Infants with Deformational Plagiocephaly. *Journal of Clinical Medicine, 8*(8), 1097. https://doi.org/10.3390/jcm8081097

14. Graham, T., Millay, K., Wang, J., Adams-Huet, B., O'Briant, E., Oldham, M., & Smith, S. (2020). Significant Factors in Cranial Remolding Orthotic Treatment of Asymmetrical Brachycephaly. *Journal of Clinical Medicine, 9*(4), 1027. https://doi.org/10.3390/jcm9041027
15. Hashemi, H., Babaee, T., Moradi, V., Bagheri, M., Moghadam, M. J., Ashkar, M., Tavakoli, B., Gordahani, A. A., & Habibi, Z. (2024). Cranial remolding orthosis for children with deformational skull deformities: A systematic review on the factors affecting success and duration of treatment. *World Neurosurgery: X, 23,* 100386. https://doi.org/10.1016/j.wnsx.2024.100386
16. Hauc, S. C., Long, A. S., Rivera, J. C., Ihnat, J., Littlefield, T. R., Shah, H. P., Pondugula, N., Junn, A. H., Almeida, M. N., Alper, D., Persing, J., & Alperovich, M. (2023). Predictive Factors of Outcomes in Helmet Therapy for Deformational Plagiocephaly and Brachycephaly. *The Journal of Craniofacial Surgery, 34*(1), 231–234. https://doi.org/10.1097/SCS.0000000000009048
17. Ho, J. P., Mallitt, K. A., Jacobson, E., & Reddy, R. (2016). Use of external orthotic helmet therapy in positional plagiocephaly. *Journal of Clinical Neuroscience : Official Journal of the Neurosurgical Society of Australasia, 29*, 46–51. https://doi.org/10.1016/j.jocn.2015.12.023
18. Jung, B. K., & Yun, I. S. (2020). Diagnosis and treatment of positional plagiocephaly. *Archives of Craniofacial Surgery, 21*(2), 80–86. https://doi.org/10.7181/acfs.2020.00059
19. Kajita, H., Tanaka, I., Komuro, H., Nishimaki, S., Kusakawa, I., & Sakamoto, K. (2024). *Efficacy of Cranial Orthosis for Plagiocephaly Based on 2D and 3D Evaluation. Archives of Plastic Surgery, 51*(2), 169–181. https://doi.org/10.1055/a-2222-1494
20. Karimi, M. T., & M., Kavyani. (2023). Evaluation of the Effects of Helmet Therapy on Head Deformities: A Systematic Review of Literature. *Journal of Head & Neck Physicians and Surgeons, 11*(2), 74–82. https://doi.org/10.4103/jhnps.jhnps_46_23
21. Kelly, K. M., Joganic, E. F., Beals, S. P., Riggs, J. A., McGuire, M. K., & Littlefield, T. R. (2018). Helmet Treatment of Infants With Deformational Brachycephaly. *Global Pediatric Health, 5*, 2333794X18805618. https://doi.org/10.1177/2333794X18805618
22. Kim, J., Kim, J., & Chae, K. Y. (2024). Effectiveness of Helmet therapy for infants with moderate to severe positional plagiocephaly. *Clinical and Experimental Pediatrics, 67*(1), 46–53. https://doi.org/10.3345/cep.2023.00626
23. Kim, M. J., Kang, M. K., Deslivia, M. F., Kim, Y. O., & Choi, J. W. (2020). Applicative Factors of Helmet Molding Therapy in Late-diagnosed Positional Plagiocephaly. *Journal of Korean Medical Science, 35*(36), e295. https://doi.org/10.3346/jkms.2020.35.e295
24. Kim, S. Y., Park, M. S., Yang, J. I., & Yim, S. Y. (2013). Comparison of helmet therapy and counter positioning for deformational plagiocephaly. *Annals of Rehabilitation Medicine, 37*(6), 785–795. https://doi.org/10.5535/arm.2013.37.6.785
25. Kunz, F., Schweitzer, T., Große, S., Waßmuth, N., Stellzig-Eisenhauer, A., Böhm, H., Meyer-Marcotty, P., & Linz, C. (2019). Head orthosis therapy in positional plagiocephaly: longitudinal 3D-investigation of long-term outcomes, compared with untreated infants and with a control group. *European Journal of Orthodontics, 41*(1), 29–37. https://doi.org/10.1093/ejo/cjy012
26. Lally, K., Feldhacker, D.R., Ploeger, K., & Stryker, B. (2024). Effectiveness of Cranial Remolding Orthosis in Treatment of Nonsynostotic Plagiocephaly. *Journal of Prosthetics and*

Orthotics, 36, 198 - 204.

27. Marshall, J. M., & Shahzad, F. (2020). Safe Sleep, Plagiocephaly, and Brachycephaly: Assessment, Risks, Treatment, and When to Refer. *Pediatric Annals, 49*(10), e440–e447. https://doi.org/10.3928/19382359-20200922-02
28. Matarazzo, C. G., Pinto, F. C. G., Peccin, M. S., & Schreen, G. (2016). Orthotic Treatment of Cranial Asymmetries. *JPO Journal of Prosthetics and Orthotics, 28*(1), 15–22. https://doi.org/10.1097/jpo.0000000000000084
29. Mawji, A., Vollman, A. R., Hatfield, J., McNeil, D. A., & Sauvé, R. (2013). The incidence of positional plagiocephaly: a cohort study. *Pediatrics, 132*(2), 298–304. https://doi.org/10.1542/peds.2012-3438
30. Munabi, N. C. O., Nelson, M. S., & Francis, S. H. (2020). Risk Factors for Delayed Diagnosis of Positional Plagiocephaly: A Retrospective Review of 25,322 Patients. *Plastic and Reconstructive Surgery Global Open, 8*(9 Suppl), 50-51. https://doi.org/10.1097/01.GOX.0000720548.05982.48
31. Noto, T., Nagano, N., Kato, R., Hashimoto, S., Saito, K., Miyabayashi, H., Sasano, M., Sumi, K., Yoshino, A., & Morioka, I. (2021). Natural-Course Evaluation of Infants with Positional Severe Plagiocephaly Using a Three-Dimensional Scanner in Japan: Comparison with Those Who Received Cranial Helmet Therapy. *Journal of Clinical Medicine, 10*(16), 3531. https://doi.org/10.3390/jcm10163531
32. Okamoto, T., Harada, A., Takamatsu, A., Kyutoku, S., Kaneko, T., & Ueda, K. (2023). Molding Helmet Therapy for Severe Deformational Brachycephaly: Position of Eurion and Therapeutic Effect. *Plastic and Reconstructive Surgery, 152*(1), 136–143. https://doi.org/10.1097/PRS.0000000000010275
33. Picart, T., Beuriat, P. A., Szathmari, A., Di Rocco, F., & Mottolese, C. (2020). Positional cranial deformation in children: A plea for the efficacy of the cranial helmet in children. *Neuro-Chirurgie, 66*(2), 102–109. https://doi.org/10.1016/j.neuchi.2019.10.011
34. Richards, C. J., Petz, A. M., Vallery, C. E., Yosef, M., Khalatbari, S. H., Frank, C. J., & Richards, J. A. (2023). Success Rates of Cranial Remolding Orthosis Treatment of Plagiocephaly Based on Initial Presentation. *JPO: Journal of Prosthetics and Orthotics.* https://doi.org/10.1097/jpo.0000000000000481
35. Shetty, N. U., Rani, P. S., & Kumar, K. U. D. (2021). Effectiveness of Helmet Therapy in Infants with Positional Skull Deformity: A Literature Review. *Journal of Pharmaceutical Research International, 33*(56B), 290–295. https://doi.org/10.9734/jpri/2021/v33i56B33955
36. Steinberg, J. P., Rawlani, R., Humphries, L. S., Rawlani, V., & Vicari, F. A. (2015). Effectiveness of conservative therapy and helmet therapy for positional cranial deformation. *Plastic and Reconstructive Surgery, 135*(3), 833–842. https://doi.org/10.1097/PRS.0000000000000955
37. Takamatsu, A., Hikosaka, M., Kaneko, T., Mikami, M., & Kaneko, A. (2021). Evaluation of the Molding Helmet Therapy for Japanese Infants with Deformational Plagiocephaly. *JMA Journal, 4*(1), 50–60. https://doi.org/10.31662/jmaj.2020-0006

38. Tamber, M. S., Nikas, D., Beier, A., Baird, L. C., Bauer, D. F., Durham, S., Klimo, P., Jr, Lin, A. Y., Mazzola, C., McClung-Smith, C., Mitchell, L., Tyagi, R., & Flannery, A. M. (2016). Congress of Neurological Surgeons Systematic Review and Evidence-Based Guideline on the Role of Cranial Molding Orthosis (Helmet) Therapy for Patients With Positional Plagiocephaly. *Neurosurgery, 79*(5), E632–E633. https://doi.org/10.1227/NEU.0000000000001430

39. Van Cruchten, C., Feijen, M. M. W., & Van Der Hulst, R. R. W. J. (2021). Demographics of Positional Plagiocephaly and Brachycephaly; Risk Factors and Treatment. *The Journal of Craniofacial Surgery, 32*(8), 2736–2740. https://doi.org/10.1097/SCS.0000000000007811

40. Wen, J., Qian, J., Zhang, L., Ji, C., Guo, X., Chi, X., & Tong, M. (2020). Effect of helmet therapy in the treatment of positional head deformity. *Journal of Paediatrics and Child Health, 56*(5), 735–741. https://doi.org/10.1111/jpc.14717

41. Wilbrand, J. F., Lautenbacher, N., Pons-Kühnemann, J., Streckbein, P., Kähling, C., Reinges, M. H., Howaldt, H. P., & Wilbrand, M. (2016). Treated Versus Untreated Positional Head Deformity. *The Journal of Craniofacial Surgery, 27*(1), 13–18. https://doi.org/10.1097/SCS.0000000000002167