

PUBLICATIONS: Scientific Peer Reviewed Journal Articles

1. *Trotman, C.-A.* and Ross, R.B. Craniofacial growth in bilateral cleft lip and palate: Six years to adulthood. *Cleft Palate Craniofac. J.* 30:261-173, 1993.
2. *Trotman, C.-A.*, Collett, A.R., McNamara, J.A., Jr., Cohen, S.R. Analyses of craniofacial and dental morphology in monozygotic twins discordant for cleft lip and unilateral cleft lip and palate. *Angle Orthod.* 63:135-140, 1993.
3. Ursi, W., *Trotman, C.-A.*, McNamara, J.A., Jr., Behrents, R.G. Sexual dimorphism in normal craniofacial growth. *Angle Orthod.* 63:47-56, 1993.
4. Cohen, S.R., Chen, L., *Trotman, C.-A.*, Burdi, A.R. Soft palate myogenesis: A developmental field paradigm. *Cleft Palate Craniofac. J.* 30:441-446, 1993.
5. *Trotman, C.-A.* and McNamara, T. Four maxillary incisors: A case report. *J. Spec. Care Dentist.* 14:112-115, 1994.
6. Cohen, S.R., Chen, L., Burdi, A.R., *Trotman, C.-A.* Patterns of abnormal myogenesis in human cleft palates. *Cleft Palate Craniofac. J.* 31:345-350, 1994.
7. Cohen, S.R., Corrigan, M.L., Bookstein, F.L., *Trotman, C.-A.*, Burdi, A.R., Barr, M. Log-linear allometry of normal fetal craniofacial growth. *J. Craniofac. Surg.* 6:190-194, 1995.
8. Cohen, S.R., Corrigan, M.L. Bookstein, F.L., *Trotman, C.-A.*, Burdi, A.R., Barr, M. Log-linear allometry of fetal craniofacial growth in Down's syndrome. *J. Craniofac. Surg.* 6:184-189, 1995.
9. *Trotman, C.-A.*, Hou, D., Burdi, A.R., Cohen, S.R., Carlson, D.S. Histomorphologic analysis of the soft palate musculature in prenatal cleft and non-cleft A/Jax mice. *Cleft Palate Craniofac. J.* 32:455-462, 1995.
10. Cohen, S.R., Corrigan, M., Wilmot, J., *Trotman, C.-A.* Cumulative operative procedures in patients age 14 years and older with unilateral or bilateral cleft lip and palate. *Plast. Reconstr. Surg.* 96:267-271, 1995.
11. McNamara, T., *Trotman, C.-A.*, Hewson, A., Walshe, M. Facial developmental vascular anomalies. *J. Spec. Care. Dent.* 15:107-112, 1995.
12. *Trotman, C.-A.*, Long, R.E., Rosenstein, S.W., Murphy, C., Johnston, L.E., Jr. Comparison of facial form in primary alveolar bone-grafted and nongrafted unilateral cleft lip and palate patients: Intercenter study. *Cleft Palate Craniofac. J.* 33:91-95, 1996.
13. Chung, K.C, Buchman, S.R., Aly, H.M., *Trotman, C.-A.* Use of modern craniofacial techniques for comprehensive reconstruction of the acromegalic. *Annals Plast. Surg.* 36:403-408; discussion 408-409, 1996.
14. *Trotman, C.-A.*, Gross, M.M., Moffatt, K. Reliability of a three-dimensional method for measuring facial animation: A case report. *Angle Orthod.* 66:195-198, 1996.
15. Gross, M.M., *Trotman, C.-A.*, Moffatt, K.S. A comparison of three-dimensional and two-dimensional analyses of facial motion. *Angle Orthod.* 66:189-194, 1996.
16. McNamara, T., *Trotman, C.-A.*, Hahessy, A.M., Kavanagh, P. Focal dermal hypoplasia (Goltz-Gorlin) syndrome with taurodontism. *J. Spec. Care Dent.* 16:26-28, 1996.
17. Dibbets, J.M., *Trotman, C.-A.*, McNamara, J.A., Jr., van der Weele, L.T., Janosky, J.E. Multiple linear regression as an analytical tool in cephalometric studies. *Br. J. Orthod.* 24:61-66, 1997.

18. Ayoub, A.F., *Trotman, C.-A.*, Stirrups, D.R., Wilmot, J.J. Stability of bimaxillary osteotomy following surgical correction of class II skeletal deformities: a two-centre study. *Br. J. Oral Maxillofac. Surg.*, 35:107-115, 1997.
19. *Trotman, C.-A.*, Papillon, F., Ross, R.B., McNamara, J.A., Jr., Johnston, L.E., Jr. A retrospective comparison of frontal facial dimensions in alveolar bone grafted and non-grafted unilateral cleft lip and palate patients. *Angle Orthod.* 67:389-394, 1997.
20. *Trotman, C.-A.*, McNamara, J.A. Jr., Dibbets, J.M., van der Weele, L.T. Association of lip posture and the dimensions of the tonsils and sagittal airway with facial morphology. *Angle Orthod.* 67:425-432, 1997.
21. *Trotman, C.-A.*, Stohler, C.S., Johnston, L.E., Jr. Measurement of facial soft tissue mobility in man. *Cleft Palate Craniofac. J.* 35:16-25, 1998.
22. *Trotman, C.-A.*, Faraway, J.J., Silvester, K.T., Greenlee, G.M., Johnston, L.E., Jr. Sensitivity of a method for the analysis of facial mobility: I. Vector of displacement. *Cleft Palate Craniofac. J.* 35:132-141, 1998.
23. *Trotman, C.-A.*, Faraway, J.J. Sensitivity of a method for the analysis of facial mobility: II. Inter-landmark separation. *Cleft Palate Craniofac. J.* 35:142-153, 1998.
24. McNamara, T., *Trotman, C.-A.*, Russell, K.A. Gorlin Goltz: What's in a name? *J. Spec. Care. Dent.* 18:84-87, 1998.
25. Levitt, T., Long, R.E., *Trotman, C.-A.* Maxillary growth in patients with clefts following secondary alveolar bone grafting. *Cleft Palate Craniofac. J.* 36:398-406, 1999.
26. *Trotman, C.-A.*, Faraway, J.J., Essick, G.K. 3-D Nasolabial displacement during movement in repaired cleft lip and palate patients. *J. Plastic & Reconstr. Surg.* 105:1273-1283, 2000. PMID:10744215.
27. Marsh, C.M., Hannum, W.H., *Trotman, C.-A.*, Proffit, W.R. Design and effectiveness of a computer-based continuing education program for orthodontists. *Angle Orthod.* 71:71-75, 2001.
28. Weeden, J.C., *Trotman, C.-A.*, Faraway, J.J. Three-dimensional analysis of facial movement in normal adults: Influence of sex and facial shape. *Angle Orthod.* 71:132-140, 2001.
29. Ritter, K., *Trotman, C.-A.*, Phillips, C. Validity of subjective evaluations for the assessment of lip scarring and impairment. *Cleft Palate Craniofac. J.* 39:587-596, 2002. PMID:12401105.
30. *Trotman, C.-A.*, Bennett, E., Scheffler, N., Tulloch, J.C. Faculty recruitment, retention, and success in dental academia. *Am. J. Ortho. Dentofac. Orthop.* 122:2-8, 2002.
31. *Trotman, C.-A.*, Phillips, C., Faraway, J.J., Ritter, K. Association between subjective and objective measures of lip form and function: An exploratory analysis. *Cleft Palate Craniofac. J.* 40:241-248, 2003. PMID:12733951.
32. Lee, J.Y., Han, Q., *Trotman, C.-A.* Three-dimensional facial imaging: Accuracy and considerations for clinical applications in orthodontics. *Angle Orthod.* 74:587-593, 2004. PMID:15529491.
33. *Trotman, C.-A.*, Faraway, J.J. Modelling facial movement: I. A dynamic analysis of differences based on skeletal characteristics. *In Press J. Oral Maxillofac. Surg.* 62:1372-1379, 2004. PMID:15510358.
34. Nooreyazdan, M., *Trotman, C.-A.*, Faraway, J.J. Modelling facial movement: II. A dynamic analysis of differences due to orthognathic surgery. *J. Oral Maxillofac. Surg.* 62:1380-1386, 2004. PMID:15510359.

35. Essick, G.K., Dorion, C., Rumley, S., Rogers, L., Young, M., *Trotman, C.-A.* Report of altered sensation in patients with cleft lip. *Cleft Palate-Craniofac. J.* 42:178-184, 2005. PMID:15748109.
36. *Trotman, C.-A.*, Faraway, J.J., Phillips, C. Visual and statistical modeling of facial movement in patients with cleft lip. *Cleft Palate-Craniofac. J.* 42:245-254, 2005. PMID:18565457.
37. Hsu, R.H., Roberts, M.W., Tulloch, J.F.C., *Trotman, C.-A.* A study of military recruitment strategies for dentists: possible implications for academia. *J. Dent. Educ.* 71: 501-510, 2007.
38. *Trotman, C.-A.*, Phillips, C., Essick, G.K., Faraway, J.J., Barlow, S.M., Losken, H.W., van Aalst, J., Rogers, L. Functional outcomes of cleft lip surgery. Part I: Study design and surgeon ratings of lip disability and the need for lip revision. *Cleft Palate-Craniofac. J.* 44:598-606, 2007. PMID:18177192.
39. *Trotman, C.-A.*, Faraway, J.J., Losken, H.W., van Aalst, J. Functional outcomes of cleft lip surgery. Part II: Quantification of nasolabial movement. *Cleft Palate-Craniofac. J.* 44:607-616, 2007. PMID:18177193.
40. *Trotman, C.-A.*, Barlow, S.M., Faraway, J.J. Functional outcomes of cleft lip surgery. Part III: Measurement of lip forces. *Cleft Palate-Craniofac. J.* 44:617-623, 2007. PMID:18177195.
41. Essick, G.K., Phillips, C., *Trotman, C.-A.* Functional outcomes of cleft lip surgery. Part IV: Factors affecting lip vermilion sensory thresholds. *Cleft Palate-Craniofac. J.* 44:624-634, 2007. PMID:18177194.
42. *Trotman, C.-A.*, Haden, N.K., Hendricson, W. Does the dental school work environment promote successful academic careers? *J Dent. Educ.* 71:713-725, 2007.
43. Tanikawa, C., Takada, K., van Aalst, J., *Trotman, C.-A.* Objective 3D assessment of lip form in patients with repaired cleft lip. *Cleft Palate-Craniofac. J.* 47(6):611-622, 2010. PMID:20500076. PMCID:PMC2970757.
44. *Trotman, C.-A.*, Faraway, J.J., Phillips, C., van Aalst, J. Effects of Lip Revision Surgery in Cleft Lip/Palate Patients. *J. Dent. Res.* 89(7):728-732, 2010. PMID:20439935. PMCID:PMC2967701.
45. Barlow, S.M., *Trotman, C.-A.*, Chu, S.Y., Lee, J. Modification of perioral stiffness in children with repaired cleft lip and palate. *Cleft Palate-Craniofac J.* 49(5):524-529, 2012. PMID:21247345.
46. Faraway, J.J. and *Trotman, C.-A.* Shape change along geodesics with application to cleft lip surgery. *J. Royal Stat. Society Appl. Statist.* 60(5):743-755, 2011. PMID:22639469. PMCID:PMC3359093.
47. *Trotman, C.-A.* Faces in 4D—Why do we care and why the 4th dimension? *Am. J. Ortho. Dentofac. Orthop.* 140(6):895-899, 2011. PMID:22133956. PMCID:PMC3387984.
48. Liu, J., Zhou, Z., Weir, M.D., Xu, H.H.K., Chen, Q., *Trotman, C.-A.* Fast-degradable microbeads encapsulating human umbilical cord stem cells in alginate for muscle tissue engineering. *Tissue Eng:Part A.* 18(21-22):2303-2314, 2012. PMID:22697426. PMCID:PMC3482877.
49. Liu, J., Xu, H.H.K., Zhou, Z., Weir, M.D., Chen, Q., *Trotman, C.-A.* Human umbilical cord stem cell encapsulation in novel macroporous and injectable fibrin for muscle tissue engineering. *Acta Biomaterialia.* 9(1):4688-4697, 2013. PMID:22902812. PMCID:PMC3535490.
50. *Trotman, C.-A.*, Faraway, J.J., Soltmann, R., Hartman, T., vanAalst, J. Facial soft tissue dynamics before and after primary lip repair. *Cleft Palate-Craniofac. J.* 50(3):315-322, 2013. PMID:23050657.
51. Essick, G., Phillips, C., Chung, Y., *Trotman, C.-A.* Effects of lip revision surgery on long-term orosensory function in patients with cleft lip/palate. *Cleft Palate-Craniofac. J.* 50(3):507-512, 2013. [Epub 2012]. PMID:22906391.

52. Trotman, C.-A., Phillips, C., Faraway, J.J., Hartman, T., vanAalst J.A. Influence of objective three dimensional measures and movement images on surgeon treatment planning for lip revision surgery. *Cleft Palate Craniofac. J.* Epub 2013 Jul. 2013 Nov;50(6):684-95. PMID: 23855676, PMCID: PMC3830636.
53. Mercado, A.M., Phillips, C., Vig, K.W.L., Trotman, C.-A. Effects of lip revision surgery on nasolabial esthetics in patients with cleft lip. *Orthod Craniofac Res.* 2014 Nov;17(4):216-25. doi: 10.1111/ocr.12046. Epub 2014 May 20. PMID: 24846148.
54. Kanavakis, G., Curran, K.M., Wiseman, K.C., Barone, N.P., Finkelman, M.D., Srinivasan, S., Lee, M.B., Trotman, C.A. Evaluation of crown-root angulation of lateral incisors adjacent to palatally impacted canines. *Prog Orthod.* 2015 Feb 26;16:4. doi: 10.1186/s40510-015-0074-0. PMID: 25749110.
55. Papathanasiou, E., Trotman, C.A., Scott, A., van Dyke, T. Current and emerging treatments for post-surgical cleft lip scarring. *J Dent Res.* 2017 Nov;96(12):1370-1377. doi: 10.1177/0022034517717261. Epub 2017 Jun 26. Review. PMID: 28650705
56. Trotman, C.A., Faraway, J.J., Hadlock, T., Banks, C., Jowett, N., Regan, D. Diagnosing and assessing facial soft tissue shape and symmetry: Patients with repaired cleft lip/palate and facial paralysis. *Plastic and Reconstructive Surgery - Global Open.* 6(3):e1715, MAR 2018 DOI: 10.1097/GOX.0000000000001715. PMID: 29707466
57. Trotman, C.A., Faraway, J.J., Hadlock, T., Banks, C., Jowett, Jung, J. Facial soft tissue mobility: Baseline dynamics of patients with unilateral facial paralysis. *Plastic and Reconstructive Surgery - Global Open.* 6(10):e1955, OCT 2018 DOI: 10.1097/GOX.0000000000001955 PMID: 30534499.
58. Alkadhi, R.M., Finkelman, M.D., Trotman, C.A., Kanavakis, G. The role of lip thickness in upper lip response to sagittal change of incisor position. *Orthod Craniofac Res.* 2019 Feb;22(1):53-57. doi: 10.1111/ocr.12257. Epub 2018 Dec 28. PMID: 30549432.
59. Alhazmia, N., Trotman, C.A., Finkelman, M., Hawley, D., Zoukhrie, D., Papathanasiou, E. Salivary alkaline phosphatase activity and chronological age as indicators for skeletal maturity. *The Angle Orthodontist* 2018. *Angle Orthod.* 2019 Mar 6. doi: 10.2319/030918-197.1. [Epub ahead of print] PMID: 30840495.
60. Trotman, C.A., Faraway, J., Hadlock, T.A. [Facial mobility and recovery in patients with unilateral facial paralysis.](#) *Orthod Craniofac Res.* 2019 Sep 16. doi: 10.1111/ocr.12346. [Epub ahead of print] PMID:31529611.
61. Sitzman, T.J., Carle, A.C., Lundberg, J.N., Heaton, P.C., Helmrath, M.A, Trotman, C.A., Britto, M.T. [Marked Variation Exists Among Surgeons and Hospitals in the Use of Secondary Cleft Lip Surgery.](#) *Cleft Palate Craniofac J.* 2020 Feb;57(2):198-207. doi: 10.1177/1055665619880056. Epub 2019 Oct 9. PMID: 31597471.
62. Dusseldorp, J.R., Faraway, J., Razavi, L., Hadlock, T.A., Trotman, C.A. Nasolabial fold dynamics: Implications for facial paralysis and facial reanimation surgery. *Orthod Craniofac Res.* 2021 Feb;24(1):62-69. doi: 10.1111/ocr.12400. Epub 2020 Oct 9 PMID: 32543100.
63. Papathanasiou, E., Trotman, C.A., Beale, C., van Dyke, T.E., Scott, A. A novel animal model for simulating scarring after cleft lip repair. *J. Facial Plastic Surgery & Aesthetic Medicine* (in press).
64. Akyalcin, S., Rutkowski, P., Arrigo, M., Trotman, C.A., Kasper, F.K. Evaluation of current additive manufacturing systems for orthodontic three-dimensional (3D) printing. *Am. J. Ortho. Dentofac. Orthop* (in press).