

References

As of 31 August 2024



CERASMART





CERASMART

1. Mechanical properties of composite resin blocks for CAD/CAM. S. Lauvahutanon, H. Takahashi, M. Shiozawa, N. Iwasaki, Y. Asakawa, M. Oki, W.J. Finger & M. Arksornnukit. *Dental Materials Journal*, 2014, 33(5), pp. 705-710.
DOI: 10.4012/dmj.2014-208
2. Mechanical Properties of New Chairside CAD/CAM Materials. A. Awada & D. Nathanson. Oral presentation (21/03/2014). International Association for Dental Research.
3. Characterization of resin ceramic as compared to polymer-infiltrated ceramic-network material and dense ceramics. H. Abouelleil, A. Goujat, D. Seux, J. Bosco, P. Colon, B. Grosgeat & N. Pradelle. Université Claude Bernard Lyon, Conseuro 2015 poster.
4. Effects of air abrasion with alumina or glass beads on surface characteristics of CAD/CAM composite materials and the bond strength of resin cements. Nobuaki A, Keiichi Y, Takashi S. *J Appl Oral Sci*. 2015 Dec;23(6):629-36
DOI: 10.1590/1678-775720150261
5. Surface roughness and gloss of current CAD/CAM resin composites before and after toothbrush abrasion. H. Koizumi, O. Saiki, H. Nogawa, H. Hiraba, T. Okazaki, H. Matsumura. *Dent Mater J*. 2015;34(6):881-7
DOI: 10.4012/dmj.2015-177
6. Evaluation of mechanical and optical behavior of current esthetic dental restorative CAD/CAM composites. Stawarczyk B., Liebermann A., Eichberger M., Güth JF. *J Mech Behav Biomed Mater*. 2015 Mar;55:1-11
DOI: 10.1016/j.jmbbm.2015.10.004
7. Mechanical properties of resin-ceramic CAD/CAM restorative materials. A. Awada & D. Nathanson. *J Prosthet Dent*. 2015 Oct;114(4):587-93.
DOI: 10.1016/j.prosdent.2015.04.016
8. Evaluation of Gloss-retention and Self-polishing Property of CAD/CAM Composite Block. S. Akiyama, R. Akatsuka & K.Sasaki. IADR/AADR/CADR General Session & Exhibition (March 11-14, 2015) (Boston, Massachusetts)
9. Testing Fracture Toughness of CAD-CAM Blocks Using a Mini Method. D. Lise , P. Pongprueksa, A. Van Ende, B. Van Meerbeek, J. De Munck. Abstract 0489, 2014 IADR/PER Congress (September 10-13, 2014) (Dubrovnik)
10. Staining Resistance of Different Non-Fireable CAD/CAM Resin-Ceramics. O. Sagsoz. Abstract 0228, 47th CED-IADR Meeting (October 15-17, 2015) (Belek-Antalya, Turkey).
11. Characteristics of polymer based CAD/CAM Blocks for permanent restorations. R. Böhner. Abstract 0579, 47th CED-IADR Meeting (October 15-17, 2015) (Belek-Antalya, Turkey)
12. Gloss of CAD/CAM Ceramics. M. Garcia. Abstract 0641. IADR/AADR/CADR General Session & Exhibition (March 11-14, 2015) (Boston, Massachusetts)
13. Bonding Behavior of CAD/CAM Restoration Using New Hybrid-resin-composite-block and Resin-adhesive-cement. N. Ishii, M. Maeno, S. Ogawa, T. Maseki, and Y. Nara. Abstract 0788. IADR/AADR/CADR General Session & Exhibition (March 11-14, 2015) (Boston, Massachusetts)
14. Effect of Tooth Treatment on TBS of Resin Cement. H. Minamisawa, A. Fujimi, S. Fukushima, F. Fusejima & T. Kumagai. Abstract 0797. IADR/AADR/CADR General Session & Exhibition (March 11-14, 2015) (Boston, Massachusetts)



15. In Vitro Abrasion Wear of Nano and Hybrid Ceramic CAD/CAM Materials. R. Pande, J. Seetner, F. Ozer, O. Irmak & M. Blatz. Abstract 3529 IADR/AADR/CADR General Session & Exhibition (March 11-14, 2015) (Boston, Massachusetts)
16. Evaluation of Gloss-retention and Self-polishing Property of CAD/CAM Composite Block. S. Akiyama, R. Akatsuka & K. Sasaki. Abstract 3560 IADR/AADR/CADR General Session & Exhibition (March 11-14, 2015) (Boston, Massachusetts)
17. Toothbrushing alters the surface roughness and gloss of composite resin CAD/CAM blocks. K. Kamonkhantikul, M. Arksornnukit, S. Lauvahutanon and H. Takahashi. Dental Materials Journal 2016; 35(2): 225-232
DOI: 10.4012/dmj.2015-228
18. Influence of different composite materials and cavity preparation designs on the fracture resistance of mesio-occluso-distal inlay restoration. N. Tekçe, K. Pala, M. Demirci & S. Tuncer. Dental Materials Journal 2016, 35(3), pp. 523-531
DOI: 10.4012/dmj.2015-287
19. In vitro performance and fracture resistance of CAD/CAM-fabricated implant supported molar crowns. M. Rosentritt, S. Hahnel, F. Engelhardt, M. Behr, V. Preis. Clin Oral Invest DOI 10.1007/s00784-016-1898-9. Published online July 2016 DOI: 10.1007/s00784-016-1898-9
20. Which is the maximum load that adhesive resin-reinforced single crowns can withstand in molar regions? A. Infelise, R. Sorentino, G. Bonadeo, M. Ferrari.
https://s3-eu-west-1.amazonaws.com/aiop/webroot/pdf/bando_martignoni_2016/Infelise_Arianna_Abstract_AIOP.pdf
21. Microtensile Bond Strength of Composite Cement to Novel CAD/CAM Materials as a Function of Surface Treatment and Aging. D.P. Lise, A. Van Ende, J. De Munck, L.C.C. Vieira, L.N. Baratieri, B. Van Meerbeek. Operative Dentistry, 2016, 41-6, 000-000 DOI: 10.2341/15-263-L
22. The effects of different polishing techniques on the staining resistance of CAD/CAM resinoceramics. O. Sagsoz, T. Demirci, G. Demirci, N. Polat Sagsoz, M. Yildiz. J Adv Prosthodont 2016;8:417-22 DOI: 10.4047/jap.2016.8.6.417
23. Investigation: Margin Performance of Cerasmart. Hsuan. (2017). Cerec Asia Digital Digest. Consulted by:
<http://www.cerecdigest.net/2017/09/10/investigation-margin-performance-cerasmart/>
24. Inlay made of CAD/CAM resin-composite nano ceramics block (Cerasmart™):A Case Report. A. Goujat, H. Abouelleil, M. Ducret, D. Seux, B. Grosgeat. (2017).
25. Mechanical properties and internal fit of 4 CAD-CAM block materials. A. Goujat, H. Abouelleil, P. Colon, C. Jeannin, N. Pradelle, D. Seux, B. Grosgeat. J Prosthet Dent 2017. Pp. 1-6. DOI: 10.1016/j.prosdent.2017.03.001
26. Roughness, surface energy, and superficial damages of CAD/CAM materials after surface treatment. T. Strasser, V. Preis, M. Behr, M. Rosentritt. Clin Oral Investig 2018 Feb 5. doi: 10.1007/s00784-018-2365-6 DOI: 10.1007/s00784-018-2365-6
27. The effect of glazing and aging on the surface properties of CAD/CAM resin blocks. N. Tekçe, S. Fidan, S. Tuncer, D. Kara, M. Demirci. J Adv Prosthodont 2018;10:50-7. DOI: 10.4047/jap.2018.10.1.50
28. Comparative color and surface parameters of current esthetic restorative CAD/CAM materials. F. Egilmez, G. Ergun, I.I Cekic-Nagas, P. Kalevi Vallittu, L. Lassila. J Adv Prosthodont 2018;10:32-42. DOI: 10.4047/jap.2018.10.1.32



29. Characteristics of polymer based CAD/CAM blocks for permanent restorations Ralf Böhner, Manuela Claude, Cornelia Kopfmann - COLTENE, Switzerland; www.scientific.coltene.com
30. Edge strength of CAD/CAM materials. M. Pfeilschifter, V. Preis, M. Behr, M. Rosentritt. *J Dent.* 2018 May 16. <https://www.ncbi.nlm.nih.gov/pubmed/29777736>
DOI: 10.1016/j.jdent.2018.05.004
31. Polishing effects and wear performance of chairside CAD/CAM materials. M. Matzinger, S. Hahnel, V. Preis, M. Rosentritt. DOI: 10.1007/s00784-018-2473-3
32. Optical properties of contemporary monolithic CAD-CAM restorative materials at different thicknesses. B. Gunal, MM. Ulusoy . *J Esthet Restor Dent.* 2018 Jun 19. doi: 10.1111/jerd.12382. [Epub ahead of print]
33. Microtensile bond strengths of adhesively bonded polymer-based CAD/CAM materials to dentin. N. Capa, E. Can Say, C. Celebi, A. Casur. *Dent Mater J* 2018 DOI: 10.4012/dmj.2017-442
34. Contact Damage of New Chairside CAD/CAM-materials for Full Posterior Crowns. M. Schlenz, A. Schmidt, B. Wöstmann. 2018 IADR/PER General Session (London, England)
35. Debonding of Resin Ceramic Crowns on CAD/CAM-milled Human Third Molars. M. Schlenz, T. Niem, A. Schmidt, B. Wöstmann. 2018 IADR/PER General Session (London, England)
36. Short-term and long-term release of monomers from newly developed resin-modified ceramics and composite resin CAD-CAM blocks. P. Mourouzis, E. Andreasidou, V. Samanidou, K. Tolidis. *The Journal of Prosthetic Dentistry*, 22 Feb 2019 (proof) DOI: 10.1016/j.prosdent.2019.01.012
37. Fatigue damage of monolithic posterior computer aided designed/computer aided manufactured crowns. M.A. Schlenz, A. Schmidt, P. Rehmann, B. Wöstmann. *Journal of Prosthodontic Research.* 13 March 2019 <https://doi.org/10.1016/j.jpor.2019.02.003>
38. Assessment of marginal adaptation and fracture resistance of endocrown restorations utilizing different machinable blocks subjected to thermomechanical aging. Doaa Taha, Sebastian Spintzyk, Ahmed Sabet, Marwa Wahsh, Tarek Salah. *J Esthet Restor Dent.* 2018;1-9. DOI: 10.1111/jerd.12396
39. Fracture resistance and failure modes of endocrowns manufactured with different CAD/CAM materials under axial and lateral loading. W. El Ghoul. M. Özcan, M. Silwadi, Z. Salameh. *J Esthet Restor Dent.* 2019;1-10.. DOI:10.1111/jerd.12486
40. Evaluation of the Adaptation and Fracture Resistance of Three CAD-CAM Resin Ceramics: An *In vitro* Study. N. Naffah, H. Ounsi, M. Ozcan, H. Bassal, Z. Salameh. *The Journal of Contemporary Dental Practice*, Volume 20 Issue 5 (May 2019)
41. Surface Evaluation of Resilient CAD/CAM Ceramics After Contouring and Polishing. G. Siddanna et al. *J Dent Res J Dent Res Vol 99 (Spec Iss A): 2772*, DOI: 10.1111/jerd.12735
42. Survival of implant-supported resin-matrixceramic crowns: In silico and fatigue analyses. E.T.P. Bergamo, S. Yamaguchi, P.G. Coelho, A.C.O. Lopes, Ch. Lee, G. Bonfante, E.B. Benalcázar Jalkh, E.N.S. de Araujo-Júniora, E. A. Bonfante. *Dent Mater* (2020), <https://doi.org/10.1016/j.dental.2020.12.009>



43. Influence of surface treatment on bonding of resin luting cement to CAD/CAM composite blocks. Takahashi N, Yabuki C, Kurokawa H, Takamizawa T, Kasahara Y, Saegusa M, Suzuki M, Miyazaki M. *Dent Mater J*. 2020 May 19. doi: 10.4012/dmj.2019-247. Online ahead of print. 10.4012/dmj.2019-247
44. Effect of thermocycling on the surface properties of resin-matrix CAD-CAM ceramics after different surface treatments. G. Çakmak, M. Gülce Subas, B. Yilmaz. *Journal of the Mechanical Behavior of Biomedical Materials* 117 (2021) 104401 DOI: 10.1016/j.jmbbm.2021.104401
45. One-year clinical evaluation of class II indirect porcelain, hybrid and composite blocks restorations. *Cumhuriyet Dental Journal*: 2021; 24(1) e-ISSN 2146-2852 Doi:10.7126/cumudj.809092
46. The influence of aging on the fracture load of milled monolithic crowns. C. Güleç, I. Sarıkaya. *BMC Oral Health* (2022) 22:516 <https://doi.org/10.1186/s12903-022-02529-z>
47. Color Stability of Different CAD/CAM Blocks Against Coloration With Coffee P. Uluç, E. Çoban, A. Canan Tutku Çelik, H. E. ÜLKER. Abstract P275 – PER-IADR Marseille, September 2022
48. Inlay Cavity Design and Bonding Effect on Tooth Fracture Load. T. Yli-Urpo, L. Lassila, P. Vallittu, T. Närhi. Abstract P302, PER-IADR Marseille, September 2022
49. Surface Pretreatments/Proximal Box Elevation on Adhesion of CAD/CAM Materials. M. a. fildisi, E. Dalkilic, B. Oglakci, Z.C. Ozduman. Abstract O200 – PER-IADR Marseille, September 2022
50. Comparative study on the impact-sliding wear behaviour of CAD/CAM resin-ceramic materials and tooth enamel. Chunxiao Jin, JiuHong Deng, Peiyue Pan, Yuhuan Xiong, Liqing Zhu, Shanshan Gao. *Dental materials* 39 (2023) 25–40 <https://doi.org/10.1016/j.dental.2022.11.010>
51. Effects of background color and thickness on the optical properties of CAD-CAM resin-matrix ceramics. Alfouzan, A. F., Alnafaiy, S. M., Alsaleh, L. S., Bawazir, N. H., Al-Otaibi, H. N., Taweel, S. M. A., Alshehri, H. A., & Labban, N. (2022). *Journal of Prosthetic Dentistry*, 128(3), 497.e1-497.e9. <https://doi.org/10.1016/j.prosdent.2022.06.009>
52. Digital Volumetric Analysis of CAD/CAM Polymeric Materials after Tooth Brushing. Abad-Coronel, C., Palomeque, A., Mena Córdova, N., & Aliaga, P. (2022). *Polymers*, 14(17), 3499. <https://doi.org/10.3390/polym14173499>
53. Effect of aging on color, gloss and surface roughness of CAD/CAM composite materials. Papathanasiou, I., Zinelis, S., Papavasiliou, G., & Kamposiora, P. (2023). *Journal of Dentistry*, 130, 104423. <https://doi.org/10.1016/j.jdent.2023.104423>
54. Effect of various beverages on adhesion of repaired CAD/CAM restorative materials. E. Yigit, H.G. Erdogan, T. F. Eyüboğlu, M. Özcan. *J. Funct. Biomater.* 2023, 14, 380. <https://doi.org/10.3390/jfb14070380>.
55. Color stability of two different resin matrix ceramics: randomized clinical trial. Aliaa Ibrahim Mahrous, Aya A. Salama, Alshaimaa Ahmed Shabaan, Ahmed Abdou, Mohamed Mostafa Radwan6 Mahrous et al. *BMC Oral Health* (2023) 23:665. <https://doi.org/10.1186/s12903-023-03364-6>



56. Effect of CAD/CAM Thickness and Translucency on the Polymerisation of Resin Cements. Babaier, R., Silikas, N., & Watts, D. (2023). *Dental Materials*, 39, e10–e11. <https://doi.org/10.1016/J.DENTAL.2023.08.023>
57. 3-body wear of 3D printed vs milled composites: an in vitro study. Gaetano, D., Mazzoni, A., Baldi, A., Comba, A., Rossi, T., & Scotti, N. (2023). *Collegio Dei Docenti Universitari Di Discipline Odontostomatologiche ETS*. <https://doi.org/10.19256/abstract.cduo.03.2023>
58. Randomized clinical trial on cad-cam chairside adhesive crowns: 3 years report. Rosato, R., Rossi, T., Comba, Baldi, A., Russo, A., Provera, M., Monticone, L., Alovisi, M., Pasqualini, D., & Scotti, N. (2023). *ETS*. <https://doi.org/10.19256/abstract.cduo.03.2023>
59. A randomized clinical study evaluating the 30-month clinical performance of class II indirect restorations in endodontically treated teeth using ceramic, hybrid, and composite computer-aided design/computer-aided production blocks. Arslan, S., Karagön, M., Balkaya, H., & Köse, B. (2024). *Journal of Conservative Dentistry and Endodontics*, 27(1), 68–75. https://doi.org/10.4103/JCDE.JCDE_213_23
60. Influence of polishing technique and coffee thermal cycling on the surface roughness and color stability of additively and subtractively manufactured resins used for definitive restorations. Çakmak, G., Oosterveen-Rüegsegger, A. L., Akay, C., Schimmel, M., Yılmaz, B., & Donmez, M. B. (2023). *Journal of Prosthodontics*. <https://doi.org/10.1111/jopr.13730>
61. Hardness and Wear Characteristics of Novel Zirconia-Based PICN. I. Soshi, Y. Nagamatsu, Ch. Masaki, R. Hosokawa, H. Ikeda. IADR New Orleans, March 2024, Presentation Number: 0486. [Online Planner \(ativ.me\)](https://www.ativ.me)
62. Long-Term Bonding Efficacy of CAD/CAM Hybrid Restorative Materials and Universal Adhesives. Bashary, N., Brewster, J., Gill, P., Janal, M. N., Özcan, M., Husain, N. A.-H., & Zhang, Y. (2024). *European Journal of Prosthodontics and Restorative Dentistry*. https://www.ejprd.org/unpublished_view.php?article_id=300
63. A Completely Digital Workflow for Nanoceramic Endocrowns: A 5-Year Prospective Study. Vervack, V., Keulemans, F., Hommez, G., De Bruyn, H., & Vandeweghe, S. (2022). *The International Journal of Prosthodontics*, 35(3), 259–268. <https://doi.org/10.11607/ijp.7545>
64. Evaluation of two different CAD-CAM inlay-onlays in a split-mouth study: 2-year clinical follow-up. Coşkun, E., Aslan, Y. U., & Özkan, Y. K. (2020). *Journal of Esthetic and Restorative Dentistry*, 32(2), 244–250. <https://doi.org/10.1111/jerd.12541>
65. Effect of different polishing methods on roughness and color stability of air-abraded restorative materials after artificial accelerated aging. Ozdogan, M. S., Unsal, G., Aydemir, K. A., Tural, M., & Aykent, F. (2024). *American Journal of Dentistry*. <https://pubmed.ncbi.nlm.nih.gov/38899994/>
66. The effect of different deep margin elevation methods on the fracture strength of CAD-CAM restorations. Balci, Ş. N., Tekçe, N., Tuncer, S., & Demirci, M. (2024). *American Journal of Dentistry*, 37(3), 115–120. <https://pubmed.ncbi.nlm.nih.gov/38899989/>



67. Effects of two dentifrices on the surface properties and staining susceptibility of polymer-based materials. R. Babaier, A. Alhotan, J. Haider, N. Silikas, D.C. Watts. Journal of Prosthodontics, online record 23 August 2024. <https://doi.org/10.1111/jopr.13927>

Articles in Dental magazines

1. Cerasmart. IDS Today magazine, IDS 2015
2. New study compares properties of CAD/CAM composites. DrBicuspid.com
3. Cerasmart, a step-by step description in the form of a clinical case report. A. Mattmüller. GC Get Connected 4, March 2015
4. CAD/CAM to mill or not to mill? The Dental Advisor, March 2016, vol. 33, n°02
5. Eine Hybridkeramik als ergänzendes CAD/CAM-Material für Einzelzahn- und Implantat-Versorgungen. Querdencken gefragt. C. Fischer. Dental Dialogue, 17. Jahrgang – 3/16
6. Le contact interdentaire des restaurations céramique en CFAO directe. M. Dehurtevent, L. Robberecht, P. Corne & C. Satis. Les cahiers de prothèse, Juin 2016(174), pp. 59-69.
7. Zerwij z konwencją – bądź twórcz Ceramika hybrydowa w technologiach CAD/CAM – pojedyncze uzupełnienia i rekonstrukcje na implantach. Querdenken gefragt: Eine Hybridkeramik als ergänzendes CAD/CAMMaterial für Einzelzahn- und Implantat-Versorgungen. Carsten Fischer. Dental Dialog Tom/Volume 7; Numer/Number 2 (23), 2016: 102-114
8. A CAD/CAM fabricated GC Cerasmart onlay patient case. A. Cantagalli. Spectrum Dialogue, Vol.18 No8, October 2019