



DAFTAR PUSTAKA

- Aghili, A.H., Hoseini, S.M., Yassaei, S., Fatahi, S.A., Zaeim, M.H., Moghadam, M.G., 2015, Effects of Carbonated Soft Drink on Consumption on Orthodontic Tooth Movements in Rates, *J Dent Tehran*, 11(2):123– 30.
- Aksakali, S., Malkoc, S., 2013, Esthetic Orthodontic Archwire: Literarture Review, *J Orthod*, 1(1):2-4.
- Alavi, S., Hosseini, N., 2012, Load-deflection and surface properties of coated and conventional superelastic orthodontic archwires in conventional and metal-insert ceramic brackets, *Dent Res J*, 9(2): 133-8.
- Ariffin, Z., Yamamoto, Z., Abidin, I., Wahab, R., 2011, Cellular and Molecular Changes in Orthodontic Tooth Movement, *Sci World J*, 11:1788-803.
- Arango, S., Paleaz-Vegas, A., Garcia, C., 2013, Coating and surface treatments on orthodontic metallic materials, *Coatings*, 3(3):1-15.
- Barcelos, A.M., Luna, A.S., Ferreira, N.A., Braga, A.V., Lago, D.C., Senna, L.F., 2013, Corrosion Evaluation of Orthodontic Wires in Artificial Saliva Solutions by Using Response Surface Methodology, *Mater Res*, 16(1):50-64.
- Bartzelaa, T.N., Sennb, C., Wichelhausc, A., 2007, Load-Deflection Characteristics of Superelastic Nickel-Titanium Wires, *Angle Orthod*, 77 (6):991-2.
- Brar, A.S., Singla, A., Mahajan, V., Jaj, H.S., Seth, V., Negi, P., 2015, Reliability of Organic Mouthwashes Over Inorganic Mouthwashes in The Assessment of Corrosion Resistance of NiTi Arch Wires, *J Indian Orthod Soc*, 49:129-33.
- Carpenter, B.G., 2014, Effect of Topical Fluoride Prophylactic Agents on The Mechanical Properties of Orthodontic Nickel-Titanium Closed Coil Springs and Stainless Steel Closed Coil Springs, *Thesis*, University of Missouri-Kansas, Missouri, p.37.
- Castro, S.M., Ponces, M.J., Lopes, J.D., Vasconcelos, M., Pollmann, M.C.F., 2014, Orthodontic Wires and Its Corrosion- The Spesific Case of Stainless Steel and Beta-titanium, *J Dent Sci*, 20:1-7.
- Chandnani, L.P., Atit,M.B., Naik, C., Rahalkar, J., Dombe, S., 2014, Force Deflection Comparison of Various Heat-Activated Superelastic Nickel-Titanium Archwires: An in-vitro study, *APOS Trends Orthod*, 4(3):60-5.
- Chaturvedi, T.P., Upadhayay, S.N., 2010, An Overview of Orthodontic Material Degradation in Oral Cavity, *Indian J Dent Res*, 21(2):279-80



Chaturvedi, T.P., Dubey, dan Ram, S., 2012, Perilaku Korosi Kabel Titanium: Studi in vitro, *Jurnal Penelitian Gigi India*, Vol. 3(4): 479-83.

Cho, E., Kanno, Z., Yonemitsu, I., Kiyokawa, H., Ohira, N., Ono, T., Uo, M., 2002, Effect of Rhodium Plating on The Ion Dissolution from Nickel-Titanium and Pure Nickel Wires, *Asian Pac J Dent*, 22: 21-8.

Danaei, S.M., Safavi, A., Roeinpeikar, S.M., Oshagh, M., Iranpour, S., Omidkhoda, M., 2011, Ion Release from Orthodontic Brackets in 3 Mouthwashes: An In-vitro Study, *Am J Orthod Dentofac Orthop*, 139(6):730-4.

Dokku, A., Peddu, A., Sai, P., Padhmanabhan, J., Kalyani, J., Devikanth, 2018, Surface and Mechanical Properties of Different Coated Orthodontic Archwires, *JIOS*, 52(4):238-42.

Doshi, U.H., Mahindra, R.K., 2013, Comparison of the load deflection characteristics of esthetic and metal orthodontic wires on ceramic brackets using three point bending test, *J Indian Orthod Soc*, 47(4):400-4.

Dos Santos, I.R., Moreira, A.C., Costa, M.C., Barbosa, M.C., 2014, Effect of 0.12% Chlorhexidine in Reducing Microorganisms Found in Aerosol Used for Dental Prophylaxis of Patients Submitted to Fixed Orthodontic Treatment, *Dent Press J Orthod*, 19(3):95-101.

Dutt, D.P., Rathore, D.P., Khurana D.D., 2014, Chlorhexidine – An Antiseptics in Periodontics, *IOSR-JDMS*, 13(9):85-8.

Eliades, T., Athanasiou, A.E., 2002, In Vivo Aging of Orthodontic Alloys: Implications for Corrosion Potensial, Nickel Release, and Biocompatibility, *Angle Orthod*, 72(3):227-37.

Fernandes, D.J., Peres, R.V., Mendes, A.M., Elias, C.N., 2011, *Understanding The Shape-memory Alloys Used in Orthodontic*, ISRN Dentistry, pp.1-6.

Ferreira, M.A., Luersen, M.A., Borges, P.C., 2012, Nickel-titanium Alloys: A Systematic Review, *Dent Press J Orthod*, 17(3):71-82.

Foster, T.D., 1999, *Buku Ajar Ortodontia I*, Universitas Gajah Mada, Yogyakarta, h.168.

Garcia, R., Baez, A.P., 2012, *Atomic Absorption Spectrometry (AAS)*, Intech, Mexico, pp.1-3.

Gatto, E., Matarese, G., Bella, G. D., Nucera, R., Borsellino, C., Cordasco, G., 2013, Load-deflection characteristics of superelastic and thermal nickel-titanium wires, *Eur J Orthod*, 35:115-23.



Graber, T. M., Vanarsdall, R. L., Vig, K. W, 2017, *Orthodontics Current Principles and Techniques*, 6th Ed, Mosby, India, p. 360.

Gurgell, J.A., Kerr, S., Powers, J.M., LeCrone, V., 2001, Force-deflection Properties of Superelastic Nickel-Titanium Archwire, *Am J Orthod Dentofacial Orthop*, 120:378-82.

Haryani, J., Ranabhatt, R., 2016, Contemporary Esthetic Ortodontic Archwires – A Review, *J Dent Mater Tech*, 5(3):125-30.

Hasyim, H Devi, L., Sumono, A., 2016, Pengaruh Perendaman Kawat Nikel-Titanium Termal Ortodonti dalam Minuman Teh Kemasan terhadap Gaya Defleksi Kawat (The Effect of Immersion Thermal Nickel-Titanium Archwire in The Bottled Tea Drinks to The Archwire Force Deflection), *J.P.K.*, 4(2): 375-80.

Iflah, D., Wibowo, D., Widodo, 2017, Perbandingan Daya Lenting Pegas Jari Dengan Diameter Kawat 0,5 mm dan 0,6 mm Pada Alat Ortodonti Lepasan, *J.K.G.*, 2(1):35-8.

Kaur, J., Mahajan, N., Jindal, S., 2015, A Review Orthodontic Wires, *J Dent Her*, 4(2):16.

Kharbanda, O.P., 2019, *Orthodontics: Diagnosis and Management of Malocclusion and Dentofacial Deformities*, 3rd Ed, Elsevier, New Delhi, pp. 449-60.

Kim, H., dan Johnson, J. W., 1999, Corrosion of Stainless Steel, Nickel-Titanium, Coated Nickel-Titanium, and Titanium Orthodontic Wires, *Angle Orthod*, 69(1):39-44.

Kim, Y., Cha, J. Y., Hwang, C. J., Yu, H. S., Tahk, S. G., 2014, Comparison of frictional forces between aesthetic orthodontic coated wires and self- ligation brackets, *Korean J Orthod*, 44 (4):157-67.

Karnam, S., Reddy, A., Manjith, C., 2012, Comparison of Metal Ion Release from Different Bracket Archwire Combinations: An in vitro Study, *J Contemp Dent Pract.*, 13(3):376-81.

Katic, V., Curkovic, L., Bosnjak, M.U., Peros, K., Mandic, D., Spalj, S., 2017. Effect of pH, fluoride and hydrofluoric acid concentration on ion release from NiTi wires with various coatings. *Dent Mater J.*, 36:149–56.

Kotha, R. S., Alla, R. K, Shammas M., Ravi., 2014, An Overview of Orthodontic Wires. *Trends Biomater, Artif Organs*, 28(1):32-6.

Krishnamurthy, N., Vallinayagam, P., Madhavan, D., 2014, *Engineering Chemistry*, Third Ed, PHI, New Delhi, p. 303



Kristianingsih, R., Joelijanto, R., Praharani, D., 2014, Analisis Pelepasan Ion Ni dan Cr Kawat Ortodontik *Stainless Steel* yang Direndam dalam Minuman Berkarbonasi, *J.M.J*, Universitas Jember, Jember.

Kuhta, M., Pavlin, D., Slaj, M., Varga, S., Lapter-Varga, M., 2009, Type of Archwire and Level of Acidity: Effects on the Release of Metal Ions From Orthodontics Appliances, *Angle Orthod*, 79(1):102-10.

Kusumadewy, W., 2012, Perbandingan Kadar Interleukin 1 β (1L-1 β) dalam Cairan Krevikular Gingiva Anterior Mandibular Pasien pada Tahap Awal Perawatan Ortodontia Menggunakan Braket Self-ligating Pasif dengan Braket Konvensional Pre-adjusted MBT, *Tesis*, Universitas Indonesia, Jakarta, h. 33.

Laviana, A., Hambali, T.S., Thahar, B., Mardiati, E., 2015, Pengaruh Heat Treatment untuk Mengembalikan Sifat Mekanik Kawat T-loop Segmental Stainless Steel Terhadap Besaran Gaya yang Dihasilkan, *Bandung Med J*, 47:168.

Leliana, S., 2015, Corrosion Rate of Titanium Orthodontic Wire After Immersion in Artificial Saliva, *J.K.G*, 7(1):56-61.

Leonarto, M.N., 2017, Pengaruh Berkumur Chlorhexidinegluconate 0,2% terhadap Jumlah Koloni Bakteri Penyebab Plak pada Pengguna Ortodontik Cekat, *J Dentomaxillofac Sci*, 1(3):946-91.

Lindauer, S. J., Shroff, B., Tufekci, E., Taylor, M., 2015, *Mosby's Review for The NBDE Part Two*, 2nd Ed, Elsevier, Missouri, p.173.

Luft, S., Keilig, L., Jäger, A., Bourauel, C., 2009, In-Vitro Evaluation Of The Corrosion Behavior Of Orthodontic Brackets, *Orthod Craniofac Res*, 12(1):43-51.

Madigan, M.T., Martinko, J.M., Stahl, D.A., Clark, D.P., 2012, *Brock Biology of Microorganisms*, 13th Edition, Benjamin Cummings, San Francisco, p.134-9.

Mawaddah, C. A., 2016, Perbedaan Defleksi Kawat Ortodonti Nikel-Titanium dan NiTi Epoxy Resin Coated pada Perendaman dalam Saliva Buatan dan Minuman Berkarbonasi, *J.P.K*, 4(3):519-24.

Mervrayano, J., Rahmatini, Bahar, E., Perbandingan Efektivitas Obat Kumur yang Mengandung Chlorhexidine dengan Povidone Iodine terhadap Sterptococcus Mutans, *Jurnal Kesehatan*, 4(1):168-71.

Mitchell, L., 2013, *Introduction to Orthodontic*, 4th Ed, Oxford University Press, United Kingdom, p.258.



Mosby, 2008, *Dental Dictionary*, Second Ed, Elsevier Mosby, St Louis Misoury, p.32.

Murayama, M., Namura, Y. & Shimizu, N., 2013, Relationship Between Friction Force and Orthodontic Force at the Leveling Stage Using A coated Wire, *J Appl Oral Sci*, 21(6):554-9.

Nik, T.H., Hooshmand, T., Farazdaghi, H., Mehrabi, A., Razavi, E.S.E., 2013, Effect of Chlorhexidine-containing Prophylactic Agent on the Surface Characterization and Frictional Resistance Between Orthodontic Brackets and Archwires: An In Vitro Study, *Prog Orthod*, 14(48):2-8.

O'Brien, W.J., 2002, *Dental Material and Their Selections*, 3rd Ed, Quintessence Publishing Company, Chicago, p.57.

Oktafiani, M., Fransiska, A., Yohana, N., 2023, Pengaruh Minuman Probiotik Lactobacillus casei Shirota strain Terhadap Pelepasan Ion Nikel Braket Stainless Steel, *A.D.J.*, 11(1):21-7.

Parvizi, F., Rock., W.P., 2003, The Load/Deflection Characteristics of Thermally Activated Orthodontic Archwires, *Eur J Orthod*: 25, 417–21.

Phulari, B. S., 2013, *Orthodontics Principle and Practice*, Jaypee Brothers Medical Publisher, New Delhi, pp. 117, 118, 405.

Proffit, W.R., 2007, *Contemporary Orthodontic*, 4th ed, St. Louis, Mosby Elsevier, pp.1-23.

Purba, M., 2009, Perbandingan Ph Saliva Sebelum Dan Sesudah Menyikat Gigi Dengan Pasta Gigi Yang Mengandung Sorbitol Dan Xylitol Pada Mahasiswa FKG USU Angkatan 2007/2008, *Skripsi*, USU, h.8.

Quintao, C.C.A., Brunharo, I.H.V.P., 2009, Orthodontic Wire: Knowledges Ensures Clinical Optimization, *Dent Press J Orthod*, 14(6) :144-57.

Rakhman, Fatimah., 2020, Obat Kumur Povidone Iodine sebagai Tindakan Praproseduraluntuk Mengurangi Risiko Penularan SARS-CoV-2 dalam Praktik Kedokteran Gigi, *Med Hosp*, 7(1A):337–43.

Rahardjo, Pambudi., 2009, *Ortodonti Dasar*, Edisi Pertama, Airlangga University Press, Surabaya, h.82.

Rasyid, N.I., Pudyani, P.S., Heryuman, JCP., 2014, Pelepasan Ion Nikel dan Kromium Kawat Australia dan Stainless Steel Dalam Saliva Buatan, *Dent. J. (Maj. Ked. Gigi)*, 47(3):171.

Rayner-Canham, G., 2000, *Descriptive Inorganic Chemistry*, W.H. Freeman and Company, Newyork, p.30.



Roloff, J., 2015, Influence of Fluoride and Stress on The mechanical Properties of Nickel-Titanium Coils, *Thesis*, Marquette University, Wisconsin, p.36.

Rongo, R., Valletta, R., Bucci, R., Rivieccio, V., Galeotti, A., Michelotti, A., D'Anto, V., 2016, In Vitro Biocompatibility of Nickel-Titanium Esthetic Orthodontic Wires, *Angle Orthod*, 86(5):789-95.

Rosdayanti, R., Wibowo, D., Kusuma, F., 2018, Analisis Laju Korosi Kawat Ortodontik Lepasan Stainless Steel Pada Media Air Kelapa, *J.K.G.*, 2(1): 58-62.

Santoro, M., Nicolay, O. F., Cangialosi, T. J., 2001, Pseudoelasticity and Thermoelasticity of Nickel Titanium Alloys: A Clinically Oriented Review, *Am J Orthod Dentofac Orthop*, 119(3):594-603.

Schmaltz, G., Arenholt, B.D., 2009, *Biokompatibilitas Bahan Gigi*, Springer-Verlag, Berlin, h. 224-5.

Sekaran, Uma, Bougie, R., 2017, *Metode Penelitian untuk Bisnis: Pendekatan Pengembangan-Keahlian*, Edisi 6, Buku 1, Cetakan Kedua, Salemba Empat, Jakarta Selatan, h.53.

Sholeh, M.I., Tindangen, M., Nurhadi, 2022, Analisis Penerapan Analogi Dalam Pembelajaran Kimia, *Seminar Nasional Pendidikan Profesi Guru*, h. 36.

Silberberg, M.S., 2000, *Chemistry The Molecular Nature of Matter*, McGraw Hill Companies, USA, p.23.

Singh, G., 2015, *Textbook of Orthodontics*, 2nd Ed. Jaypee Brothers, New Delhi, pp. 325,331-2.

Srivastava, K., Chandra, P.K., Kamat, N., 2012, Effect of Fluoride Mouth Rinses on Various Orthodontic Archwire Alloys Tested by Modified Bending Test: An In Vitro Study, *Indian J Dent Res*, 23(3):433-4.

Staffolani, N., Damiani, F., Lilli, C., Guerra, M., Staffolani, N.J., Belcastro, S., Locci, P., 1999, Ion Release from Orthodontic Appliances, *J Dent*, 27(6):449-54.

Tada, E., Sugawara, K., Kaneko, H, 2004, Distribution of pH during Galvanic Corrosion of a Zn/Steel Couple, *Electrochim. Acta*, 49 (2004):1019–26.

Tang, X., Wang, L., Qian, L., Li, Y., Zonghu, L., Donghai, Zhang, Y., 2015, Corrosion Behavior Of Nickel Base Alloys, Stainless Steel And Titanium Alloy In Supercritical Water Containing Chloride, Phosphate And Oxygen, *Chem Eng Res Des*, 100(5): 530-41.



Tecky, I., 2011, Perbedaan Laju Aliran Saliva dan pH Saliva karena Pengaruh Stimulus Kimia dan Mekanis., *J.K.M.*, FKG Universitas Jember, 17(44):1-5.

Tikku, T., Khanna, R., Agarwal, A., Srivastava, K., Shekhar, S., Shukla, I., 2019, Load Deflection Characteristics of Coated and Noncoated Nickel-Titanium Wires in Self-Ligating Brackets Using a Modified Bending Test: An in Vitro Study, *Dent Res J*, 16(1):1-6.

Troy, D. B., Beringer, P., 2006, *Remington: The Science and Practice of Pharmacy*, 21st Ed., Lippincott Williams & Wilkins, Philadelphia, p. 739.

Wirasatyawan, I., Ardhana, W., Karunia, D., 2015, Pengaruh Penggunaan Air Polisher dan Jenis Kawat Terhadap Daya Lenting Kawat Busur Ortodonti Setelah Direndam Dalam Saliva Buatan, *J.K.G*, 6(4): 347-53.

Yamaguchi, M., 2009, RANK/RANKL/OPG During Orthodontic Tooth Movement, *Orthod Craniofac Res*, 12(2):113-9.