

REFERENCES

- [1] M. Halanski and K. Noonan, "Cast and splint immobilization: complications," *JAAOS-Journal of the American Academy of Orthopaedic Surgeons*, vol. 16, no. 1, pp. 30-40, 2008.
- [2] C. Capper, "Synthetic casting tapes: benefits and uses of Delta-Cast Conformable," *British Journal of Nursing*, vol. 7, no. 19, pp. 1162-1166, 1988.
- [3] S. Satryb, T. Wilson and M. Patterson, "Casting: all wrapped up," *Orthopaedic Nursing*, vol. 30, no. 1, pp. 37-41, 2011.
- [4] V. Sathyendra and M. Darowish, " Basic science of bone healing," *Hand clinics*, vol. 29, no. 4, pp. 473-481, 2013.
- [5] R. Marsell and T. Einhorn, "The biology of fracture healing," *Injury*, vol. 42, no. 6, pp. 551-555, 2011.
- [6] F. Hankin, A. Gragg and H. Kaufer, "Bleeding Beneath Postoperative Plaster Casts," *Orthopaedic Nursing*, vol. 2, no. 1, pp. 27-32, 1983.
- [7] M. Raoufi, H. Abedtash and A. Mohagheghzadeh, "The historical background of plaster cast," *Archives of Iranian medicine*, vol. 20, no. 7, pp. 461-464, 2017.
- [8] A. Boyd, H. Benjamin and C. Asplund, "Splints and casts: indications and methods.," *American family physician*, vol. 80, no. 5, pp. 491-499, 2009.
- [9] R. Hohn, "Principles and application of plaster casts," *The Veterinary clinics of North America*, vol. 5, no. 2, pp. 291-303, 1975.
- [10] A. Althoff and R. Reeves, "Splinting," 2020.

- [11] D. Sinacore, "Healing times of diabetic ulcers in the presence of fixed deformities of the foot using total contact casting," *Foot & ankle international*, vol. 19, no. 9, pp. 613-618, 1998.
- [12] M. DeMaio, KathleenMcHale, M. Lenhart, J. Garland, C. McIlvaine and M. Rhode, "Plaster: Our Orthopaedic Heritage," *THE JOURNAL OF BONE AND JOINT SURGERY*, Vols. 94-A, no. 20, pp. 1-8, 2012.
- [13] B. Szostakowski, P. Smitham and W. Khan, "Plaster of Paris–Short History of Casting and Injured Limb Immobilization," *The Open Orthopaedics Journal*, vol. 11, pp. 291-296, 2017.
- [14] D. H. W., J. F. Orrxy and A. S. Bahranixys, "A Comparative Evaluation of Modern Fracture Casting Materials," *Engineering in Medicine*, 1988.
- [15] J. C.Colditz, "Plaster of Paris: The forgotten hand splinting material," *Journal of Hand Therapy*, vol. 15, no. 2, pp. 144-157, 2002.
- [16] M.S.Cohen and T.Frillman, "Distal radius fractures: a prospective randomized comparison of fibreglass tape with QuickCast™," *Injury*, vol. 28, no. 4, pp. 305-309, 1997.
- [17] J. C. Colditz, "Plaster of Paris:The Forgotten Hand Splinting Material," *JOURNAL OF HAND THERAPY*, vol. 15, pp. 144-157, 2002.
- [18] V. Risdonne, C. Hubbard, V. López Borges and C. Theodorakopoulos, "Materials and Techniques for the Coating of Nineteenth-century Plaster Casts: A Review of Historical Sources," *Studies in Conservation*, pp. 1-23, 2021.
- [19] J. Luck, "Plaster of Paris casts: An experimental and clinical analysis," *Journal of the American Medical Association*, vol. 124, no. 1, pp. 23-29, 1944.
- [20] K. Nielsen and J. Lauritzen, "A New Thermoplastic Casting Material: A Comparison Between Plaster of Paris and Hexelite®," *Acta Orthopaedica Scandinavica*, vol. 52, no. 1, pp. 27-29, 1981.

- [21] G. Smith, R. Hart and T. Tsai, "Fiberglass cast application," *The American journal of emergency medicine*, vol. 23, no. 3, pp. 347-350, 2005.
- [22] M. Hutchinson and M. Hutchinson, "Factors contributing to the temperature beneath plaster or fiberglass cast material," *Journal of orthopaedic surgery and research*, vol. 3, no. 1, pp. 1-8, 2008.
- [23] H. Selesnick and G. Griffiths, "A waterproof cast liner earns high marks," *The Physician and sportsmedicine*, vol. 25, no. 9, pp. 67-74, 1997.
- [24] F. Abd Kati, Y. I. and W. Razak, "Effect of adding some additives and drying method on compressive strength of gypsum products," *Tikrit Journal for Dental Sciences*, vol. 5, no. 1, pp. 25-32, 2017.
- [25] A. J. Burrows and A. J. Milne, "Plaster of paris bandage containing an additive". France Patent WO1990002538A1, 22 03 1990.
- [26] A. Abbood, A. Atshan and A. AL-Ridha, "Improvement of Local Gypsum Plaster Setting Time by the Combined Usage of (TGP) and (PVA) Additives.," in *Materials Science and Engineering (Vol. 870, No. 1, p., 012106)*, 2020, June.
- [27] R. Wytch, N. Ross and D. Wardlaw, "Glass fibre versus non-glass fibre splinting bandages," *Injury*, vol. 23, no. 2, pp. 101-106, 1992.
- [28] W. Mihalko, A. Beaudoin and W. Krause, "Mechanical properties and material characteristics of orthopaedic casting material," *Journal of orthopaedic trauma*, vol. 3, no. 1, pp. 57-63, 1989.
- [29] C. Agisparayan, K. Low, S. Lim and K. Wong, "Impact Behaviour of Hybrid Bandage Casts," *Innovations in Corrosion and Materials Science (Formerly Recent Patents on Corrosion Science)*, vol. 9, no. 1, pp. 66-73, 2019.
- [30] M. Inglis, B. McClelland, L. Sutherland and P. Cundy, "Synthetic versus plaster of Paris casts in the treatment of fractures of the forearm in children: a

randomised trial of clinical outcomes and patient satisfaction.," *The bone & joint journal*, vol. 95, no. 9, pp. 1285-1289, 2013.

- [31] R. Wytch, C. Mitchell, I. Ritchie, D. Wardlaw and W. Ledingham, "New splinting materials," *Prosthetics and orthotics international*, vol. 11, no. 1, pp. 42-45, 1987.
- [32] R. Wytch, G. Ashcroft, G. McKenzie, D. Wardlaw and W. Ledingham, "Radiographic assessment of splinting bandages," *Injury*, vol. 22, no. 1, pp. 41-44, 1991.
- [33] T. Cresswell, M. Flowers, L. Barton and V. Martindale, "Staff opinions on casting material brands: A prospective study," *Injury*, vol. 39, no. 12, pp. 1467-1473, 2008.
- [34] D. Rowley, D. Pratt, E. Powell, S. Norris and T. Duckworth, "The comparative properties of plaster of Paris and plaster of Paris substitutes," *Archives of orthopaedic and traumatic surgery*, vol. 103, no. 6, pp. 402-407, 1985.
- [35] P. Lane and M. Lee, " New synthetic casts: what nurses need to know," *Orthopaedic Nursing*, vol. 1, no. 6, pp. 13-22, 1982.
- [36] M. Zhu, E. Lokino, C. Chan, A. Gan, L. Ong and K. Lim, " Cast immobilisation for the treatment of paediatric distal radius fracture: fibreglass versus polyolefin," *Singapore medical journal*, vol. 60, no. 4, p. 183, 2019.
- [37] L. Adkins, "Cast changes: synthetic versus plaster," *Pediatric nursing*, vol. 23, no. 4, pp. 422-426, 1997.
- [38] P. Martin, D. Weimann, J. Orrxy and A. Bahranixys, " A comparative evaluation of modern fracture casting materials," *Engineering in medicine*, vol. 17, no. 2, pp. 63-70, 1988.
- [39] S. Ahmed and K. Carmichael, " Plaster and synthetic cast temperatures in a clinical setting: an in vivo study," *Orthopedics*, vol. 34, no. 2, 2011.

- [40] M. Yalçınözan and E. Sarı, "The Impact of Different Application Techniques on Fiberglass Casts: A Mechanical Experimental Study," *Indian Journal of Orthopaedics*, vol. 54, no. 1, pp. 178-182, 2020.
- [41] T. Philbin and M. Gittins, "Hybrid casts: a comparison of different casting materials," *Journal of Osteopathic Medicine*, vol. 99, no. 6, pp. 311-311, 1999.
- [42] D. Kelly, "The Use of Fiberglass as Reinforcement Plaster Cast," *Orthopaedic Nursing*, vol. 2, no. 6, pp. 33-36, 1983.
- [43] M. Charles and D. Yen, "Properties of a hybrid plaster-fibreglass cast," *Canadian Journal of Surgery*, vol. 43, no. 5, p. 365, 2000.
- [44] R. Gogoi, U. Niyogi, M. Alam and D. Mehra, "Study of effect of NCO/OH molar ratio and molecular weight of polyol on the physico-mechanical properties of polyurethane plaster cast," *World Applied Sciences Journal*, vol. 21, no. 2, pp. 276-283, 2013.
- [45] M. Bullen, J. Kinealy, R. Blanchard, C. Rodda and P. Pivonka, "Comparison of the moulding ability of Plaster of Paris and polyester cast material in the healthy adult forearm," *Injury*, vol. 48, no. 11, pp. 2586-2589, 2017.
- [46] A. Petty and C. Wardman, "A randomized, controlled comparison of adjustable focused rigidity primary casting technique with standard plaster of Paris/synthetic casting technique in the management of fractures and other injuries," *Journal of Orthopaedic Nursing*, vol. 2, no. 2, pp. 95-102, 1998.
- [47] K. Kunze and K. Haberer, "Comparative studies of synthetic and nonsynthetic cast dressings," *Der Unfallchirurg*, vol. 97, no. 6, pp. 325-331, 1994.
- [48] I. Ritchie, R. Wytch and D. Wardlaw, "Flammability of modern synthetic bandages," *Injury*, vol. 19, no. 1, pp. 31-32, 1988.
- [49] J. Compton and J. Edelstein, "New plastics for forming directly on the patient," *Prosthetics and orthotics international*, vol. 2, no. 1, pp. 43-47, 1978.

- [50] D. Breger-Lee and W. Buford Jr, "Properties of thermoplastic splinting materials," *Journal of Hand Therapy*, vol. 5, no. 4, pp. 202-211, 1992.
- [51] P. Bowker and E. Powell, " A clinical evaluation of plaster-of-Paris and eight synthetic fracture splinting materials," *Injury*, vol. 23, no. 1, pp. 13-20, 1992.
- [52] Jø, U. gensen and P. Nordkild, "Hexcelite (R) versus plaster of Paris: A controlled trial of the below-knee walking cast," *Prosthetics and orthotics international*, vol. 10, no. 3, pp. 114-116, 1986.
- [53] F. Bassett III, T. Malone and R. Gilchrist, "A protective splint of silicone rubber.," *The American journal of sports medicine*, vol. 7, no. 6, pp. 358-360, 1979.
- [54] M. DeCarlo, K. Malone, J. Darmelio and A. Rettig, "Casting in sport," *Journal of athletic training*, vol. 29, no. 1, p. 37, 1994.
- [55] M. Canelon, "Silicone rubber splinting for athletic hand and wrist injuries," *Journal of Hand Therapy*, vol. 8, no. 4, pp. 252-257, 1995.
- [56] B. JA, W. GG, A. JT and H. R., "Soft playing splint for protection of significant hand and wrist injuries in sports," *Am J Sports Med*, vol. 10, pp. 293-296, 1982.
- [57] K. Müller, C. Zollfrank and M. Schmid, "Natural polymers from biomass resources as feedstocks for thermoplastic materials," *Macromolecular Materials and Engineering*, vol. 304, no. 5, p. 1800760, 2019.
- [58] P. E. Chatzistergosa, E. Ganniari-Papageorgioub and N. Chockalingam, "Comparative study of the strength characteristics of a novel wood-plastic composite and commonly used synthetic casting materials," *Clinical Biomechanics*, Vols. 77, p.105064, 2020.
- [59] woodcast, "The safe way to do casting," Onbone Oy, 2021. [Online]. Available: <https://www.woodcast.com/>. [Accessed 20 04 2021].

- [60] Forest.fi, "Splinting material made from wood and bioplastics," ONBONE, 14 12 2016. [Online]. Available: <https://forest.fi/products-services/splinting-material-made-from-wood-and-bioplastics/#373380b3>. [Accessed 10 05 2021].
- [61] L. NC. and S. J, "A novel nontoxic wood-plastic composite cast," *The Open Medical Devices Journal*, vol. 4, no. 1, pp. 1-5, 2012.
- [62] J. Hirsimäki, N. Lindfors and J. Salo, "Novel ankle cast designs with non-toxic material," *Foot Ankle Online J.*, vol. 7, pp. 1-5, 2014.
- [63] E. Pirhonen, A. Pärssinen and M. Pelto, " Comparative study on stiffness properties of WOODCAST and conventional casting materials," *Prosthetics and orthotics international*, vol. 37, no. 4, pp. 336-339, 2013.
- [64] N. Lindfors and J. Salo, "New ecological wood–plastic composite materials for scaphoid-type casting: Material properties and clinical evaluation," *Hand Therapy*, vol. 19, no. 3, pp. 67-72, 2014.
- [65] A. Thorndike Jr and W. Garrey, "A Useful Type of Light, Waterproof Cast: Preliminary Report," *New England Journal of Medicine*, vol. 218, no. 5, pp. 205-211, 1938.
- [66] fraunhofer, "Thermoplastic, compostable splint for bone fractures," fraunhofer, 2021. [Online]. Available: <https://www.fraunhofer.de/en/research/current-research/bioeconomy/health/splint-for-bone-fractures.html>. [Accessed 23 04 2021].
- [67] S. AW, G. AD, A. G, P. B, S. LM and C. P, "Waterproof cast liners in paediatric forearm fractures: A randomized trial," *J Child Orthop* , vol. 7, pp. 123-130, 2013.

- [68] E. Shirley, K. Maguire, A. Mantica and R. Kruse, "Alternatives to traditional cast immobilization in pediatric patients," *JAAOS-Journal of the American Academy of Orthopaedic Surgeons*, vol. 28, no. 1, pp. e20-e27, 2020.
- [69] M. Prior and S. Miles, "Casting: part one," *EMERGENCY nurse*, vol. 2, p. 7, 1999.
- [70] M. Halanski, A. Halanski, A. Oza, R. Vanderby, A. Munoz and K. Noonan, "Thermal injury with contemporary cast-application techniques and methods to circumvent morbidity," *JBJS*, vol. 89, no. 11, pp. 2369-2377, 2007.
- [71] R. Lavalette, M. Pope and H. Dickstein, "Setting temperatures of plaster casts. The influence of technical variables," *The Journal of bone and joint surgery.American volume*, vol. 64, no. 6, pp. 907-911, 1982.
- [72] M. Pope, G. Callahan and R. Lavalette, "Setting temperatures of synthetic casts," *The Journal of bone and joint surgery. American volume*, vol. 67, no. 2, pp. 262-264, 1985.
- [73] M. Goto and K. Ogata, "Experimental study on thermal burns caused by plaster bandage.," *Nihon Seikeigeka Gakkai Zasshi*, vol. 60, no. 6, pp. 671-680, 1986.
- [74] L. Metzman, J. Gamble and L. Rinsky, "Effectiveness of ice packs in reducing skin temperature under casts," *Clinical Orthopaedics and Related Research®*, vol. 330, pp. 217-221, 1996.
- [75] I. Autti-Rämö, J. Suoranta, H. Anttila, A. Malmivaara and M. Mäkelä, "Effectiveness of upper and lower limb casting and orthoses in children with cerebral palsy: an overview of review articles," *American journal of physical medicine & rehabilitation*, vol. 85, no. 1, pp. 89-103, 2006.
- [76] F. Lewis, M. Cork, A. MCDONAGH and D. Gawkrödger, "Allergic contact dermatitis from resin-reinforced plaster," *Contact dermatitis*, vol. 28, no. 1, pp. 40-41, 1993.

- [77] J. Silfverskiold, " Fiberglass versus plaster casts: How to choose between them," *Postgraduate medicine*, vol. 86, no. 5, pp. 71-74, 1989.
- [78] M. MF, L. W and M. A., "Calamine lotion to reduce skin irritation in children with cast immobilisation," *J Orthop Surg (Hong Kong)* , vol. 21, pp. 221-225., 2013.
- [79] N. DM, R. LG and R. DM, "Keeping plaster casts dry: What works?," *Injury*, vol. 36, pp. 73-74., 2005.
- [80] J. Davids, S. Frick, E. Skewes and D. Blackhurst, "Skin surface pressure beneath an above-the-knee cast: plaster casts compared with fiberglass casts.," *JBJS*, vol. 79, no. 4, pp. 565-569, 1997.
- [81] V. Alexandre and J. Hodax, " Splinting and Casting Techniques," in *The Orthopedic Consult Survival Guide* , Springer, Cham., 2017, pp. 25-39.
- [82] C. Zaino, M. Patel, M. Arief and R. Pivec, "The effectiveness of bivalving, cast spreading, and webril cutting to reduce cast pressure in a fiberglass short arm cast," *JBJS*, vol. 97, no. 5, pp. 374-380, 2015.
- [83] A. Roberts, K. Shaw, S. Boomsma and C. Cameron, "Effect of casting material on the cast pressure after sequential cast splitting," *Journal of Pediatric Orthopaedics*, vol. 37, no. 1, pp. 74-77, 2017.
- [84] B. Miller, B. Taylor, R. Widmann, D. Bae, B. Snyder and P. Waters, "Cast immobilization versus percutaneous pin fixation of displaced distal radius fractures in children: a prospective, randomized study," *Journal of Pediatric Orthopaedics*, vol. 25, no. 4, pp. 490-494, 2005.
- [85] A. Puddy, J. Sunkin, J. Aden, K. Walick and J. Hsu, " Cast saw burns: evaluation of simple techniques for reducing the risk of thermal injury," *Journal of Pediatric Orthopaedics*, vol. 34, no. 8, pp. e63-e66, 2014.

- [86] R. Rezaei, "The Easy Wrap Orthopedic Cast," *Rochester Institute of Technology*, 2017.
- [87] H. Suojalehto, I. Linström, M. Henriks-Eckerman, S. Jungewelter and K. Suuronen, "Occupational asthma related to low levels of airborne methylene diphenyl diisocyanate (MDI) in orthopedic casting work," *American journal of industrial medicine*, vol. 54, no. 12, pp. 906-910, 2011.
- [88] C. Chatterton and R. ELLIOTT, "Acute acetone poisoning from leg casts of a synthetic plaster substitute," *Journal of the American Medical Association*, vol. 130, no. 17, pp. 1222-1223, 1946.
- [89] M.S.Cohen and T.Frillman, "Distal radius fractures: a prospective randomized comparison of fibreglass tape with QuickCast™," *Injury*, vol. 28, no. 4, pp. 305-309, 1997.
- [90] K. Selvaranjan, S. Navaratnam, J. Gamage, J. Thamboo, R. Siddique, J. Zhang and G. Zhang, "Thermal and environmental impact analysis of rice husk ash-based mortar as insulating wall plaster," *Construction and Building Materials*, vol. 283, p. 12, 2021.
- [91] U. L. E. C.N and A. P.P, "Rice rush ash- an alternative to gypsum in pop board," *International journal of Engineering , Science and Mathematics*, vol. 4, no. 4, pp. 24-35, 2015.
- [92] J. Hadipramana, F. Riza, I. Rahma, L. Loon, S. Adnan and A. Zaidi, "Pozzolanic characterization of waste Rice husk ash (RHA),," in *Materials Science and Engineering*, Muar, Malaysia, 2016.
- [93] M. Morsy and H. Mohamed, "ENGINEERING CHARACTERISTICS OF ECO-FRIENDLY COMPOSITE MADE FROM STEEL SLAG-RICE HUSK AND GYPSUM," *Misr Journal of Agricultural Engineering*, vol. 35, no. 4, pp. 1457-1472, 2018.

- [94] M. Chauhan, M. Teotia and R. K. Soni, "Improvement of Thermal Insulation and Crack Resistance of Plaster of Paris Composites at High Temperature," *Journal of Scientific & Industrial Research*, vol. 79, pp. 344-347, 2020.
- [95] N. Amulah, A. El-Jumma, A. Hammajam and U. Ibrahim, "Experimental Investigation on the Thermal Properties of Gypsum Plaster-Rice Husk Ash Composite," *Open Journal of Composite Materials*, vol. 12, no. 4, pp. 131-138, 2022.
- [96] G. Srikanth, A. Fernando, K. Selvaranjan, J. Gamage and L. Ekanayake, "Development of a plastering mortar using waste bagasse and rice husk ashes with sound mechanical and thermal properties," *Case Studies in Construction Materials*, vol. 16, p. 00956, 2022.
- [97] F. Farjadian, S. Abbaspour, M. Sadatlu, S. Mirkiani, A. Ghasemi, M. Hoseini-Ghahfarokhi, N. Mozaffari, M. Karimi and M. Hamblin, "Recent developments in graphene and graphene oxide: Properties, synthesis, and modifications: A review," *Chemistry Select*, vol. 5, no. 33, pp. 10200-10219, 2020.
- [98] T. Ginigaddara, J. Ekanayake, P. Mendis, P. Devapura, A. Liyanage and P. Vaz-Serra, "An Introduction to High Performance Graphene Concrete," *Electronic journal of structural engineering*, vol. 22, no. 3, pp. 11-18, 2022.
- [99] Y. Zhu, S. Murali, W. Cai, X. Li, J. Suk, J. Potts and R. Ruoff, "Graphene and graphene oxide: synthesis, properties, and applications," *Advanced materials*, vol. 22, no. 35, pp. 3906-3924, 2010.
- [100] A. Lewry, *The relationship between the microstructure and mechanical properties of setting gypsum plasters*, 1987.
- [101] I. Darmawan, O. Willy and J. Budiman, "Setting time of construction gypsum, dental plaster, and white orthodontic gypsum," *Journal of Dental Research, Dental Clinics, Dental Prospects*, vol. 14, no. 3, p. 167, 2020.

- [102] J. Langlois, G. Mary, H. Bluzat, A. Cascio, N. Balcar, Y. Vandenberghe and M. Cotte, "Analysis and conservation of modern modeling materials found in Auguste Rodin's sculptures," *Studies in Conservation*, vol. 62, no. 5, pp. 247-265, 2017.
- [103] P. Schlosser, A. Bale, C. Gibbons, A. Wilkins and G. Cooper, "Human health effects of dichloromethane: key findings and scientific issues," *Environmental health perspectives*, vol. 123, no. 2, pp. 114-119, 2015.
- [104] E. J. Joseph, "Plaster bandage and method and composition for making same". United States Patent US2557083A, 22 07 1947.
- [105] F. Mouhat, F. Coudert and M. Bocquet, "Structure and chemistry of graphene oxide in liquid water from first principles," *Nature communications*, vol. 11, no. 1, p. 1566, 2020.
- [106] T. Kiran, S. Yadav, N. Anand, M. Mathews, D. Andrushia and V. Kodur, "Performance evaluation of lightweight insulating plaster for enhancing the fire endurance of high strength structural concrete," *Journal of Building Engineering*, vol. 57, p. 104, 2022.
- [107] K.-M. Song, J. Mitchell and L. Gladden, "Observing Microstructural Evolution During Plaster Hydration," 2009.
- [108] C. Shen, H. Mohammed and A. Kamar, "Effect of K₂SO₄ and CaSO₄ dihydrate solutions on crystallization and strength of gypsum," *Journal of Dental Research*, vol. 60, no. 8, pp. 1410-1417, 1981.
- [109] A. Khalil, A. Tawfik and A. Hegazy, "Plaster composites modified morphology with enhanced compressive strength and water resistance characteristics," *Construction and Building Materials*, vol. 167, pp. 55-64, 2018.

- [110] E. Badens, S. Veessler and R. Boistelle, "Crystallization of gypsum from hemihydrate in presence of additives," *Journal of Crystal Growth*, vol. 198, pp. 704-709, 1999.
- [111] C. Ezugwu, L. A. Uneke and P. Akpan, "Rice rusk ash-an alternative to gypsum in pop board," *International Journal of Engineering, Science and Mathematics*, vol. 4, pp. 24-35, 2015.
- [112] D. O. Nduka, B. J. Olawuyi, E. O. Fagbenle and B. G. Fonteboa, "Mechanical and microstructural properties of high-performance concrete made with rice husk ash internally cured with superabsorbent polymers," *Heliyon*, vol. 8, no. 9, p. e10502, 2022.
- [113] M. Alam and S. Ahmad, "POSSIBILITIES OF INCREASING SETTING TIME USING RICE HUSK ASH (RHA) CEMENT AS BINDING MATERIAL," in *2nd International Conference on Advances in Civil Engineering*, Chittagong , Bangladesh, 2014.
- [114] M. Junaidi, N. Ahmad, C. Leo and H. Yee, "Near superhydrophobic coating synthesized from rice husk ash: Anti-fouling evaluation," *Progress in Organic Coatings*, vol. 99, pp. 140-146, 2016.
- [115] T. V. Lam, B. Bulgakov, Y. Bazhenov, O. Aleksandrova and P. N. Anh, "Effect of rice husk ash on hydrotechnical concrete behavior," *IOP Conference Series: Materials Science and Engineering*, 2018.
- [116] A. Afshar, D. Steensma and R. Kyle, "Antonius Mathijssen and Plaster Casts," in *Mayo Clinic Proceedings (Vol. 92, No. 5)*, Elsevier Limited, 2017, p. E83.
- [117] T. Fisher, "Casts," *Canadian Medical Association Journal*, vol. 101, no. 11, p. 79, 1969.

- [118] S. C. Smeltzer, B. G. Bare, H. J. L. and K. H. Cheever, Textbook of medical-surgical nursing (11th ed.), Philadelphia: Lippincott, Williams & Wilkins, 2008.
- [119] C. F Young and F. Haddad, "Principles of plaster application," *British Journal of Hospital Medicine*(2005), vol. 68, no. Sup 1, pp. M13-M14, 2007.
- [120] G. Warren, "Plaster Casts," *Leprosy review*, vol. 42, no. 1, pp. 55-59, 1971.
- [121] F. Schuind, F. Moulart, J. Liegeois, L. Dejaie, C. Strens and F. Burny, "Orthopedic immobilization," *Acta Orthopaedica Belgica*, vol. 68, no. 5, pp. 439-461, 2002.
- [122] L. Vaughan, "The use of Bandages and Splints for the Support of Limbs in Cats and Dogs," *Journal of Small Animal Practice*, vol. 5, no. 3, pp. 235-243, 1964.
- [123] N. A. A. Hatim, I. K. Al-Khayat and M. A. Abdulla, "Modification of gypsum products (Part I): physical and mechanical properties of adding some additives on different types of gypsum products," *Al-Rafidain Dental Journal*, vol. 7, no. 2, pp. 206-212, 2007.
- [124] M. Sanad, E. Combe and A. Grant, " The use of additives to improve the mechanical properties of gypsum products," *Journal of Dental Research*, vol. 61, no. 6, pp. 808-810, 1982.
- [125] N. Hatim, I. Al-Khayat and M. Abdulla, " Modification of Gypsum Products (Part II): The Effect of Drying Methods on The Compressive Strength and Surface Hardness of Modified Gypsum Products," *Al-Rafidain Dental Journal*, vol. 9, no. 2, pp. 162-167, 2009.
- [126] B. AT and P. BG., "A comparison of the mechanical properties of fiberglass cast materials and their clinical relevance.," *Journal of Orthopedic Trauma*, vol. 4, no. 1, pp. 85 - 92, 1990.
- [127] M. Tofighi, "Do all fractures need full immobilisation?," 2008.

- [128] C. Ekanayake, J. C. P. H. Gamage, P. Mendis and P. Weerasinghe, "Revolution in orthopedic immobilization materials: A comprehensive review," *Heliyon*, vol. 9, no. 3, p. e13640, 2023.
- [129] C. Ekanayake, J. Gamage, P. Mendis and P. Weerasinghe, "Sustainable fillers to address inherent drawbacks of orthopedic plaster," in *ICSBE*, Kandy, 2022.
- [130] C. Ekanayake, P. Medis, S. Fernando and M. Soufi, "Sustainable construction with hemp-towards net zero 2050," in *ICBSE*, Kandy, 2023.
- [131] T. Ginigaddara, C. Ekanayake, T. Gunawardena and P. Mendis, "Resilience and Performance of Prefabricated Modular Buildings Against Natural Disasters," *Electronic Journal of Structural engineering* , vol. 23, no. 4, pp. 85-92, 2023.
- [132] S. J. Rowley-Neale, E. P. Randviir, A. S. A. Dena and C. E. Banks, "An overview of recent applications of reduced graphene oxide as a basis of electroanalytical sensing platforms," *Applied Materials today*, vol. 10, pp. 218-226, 2018.