

AMCOP bio-activators: an innovative solution in interceptive orthodontics for the treatment of malocclusions and orofacial dysfunctions

Benito Francesco Pio Pennacchio^{1*}

Roberto Vito Giorgio^{1*}

Filippo Cardarelli¹

Nicola Sguera¹

Micaela Del Vecchio¹

Lucia Memè²

Fabrizio Bambini²

Ioana Roxana Bordea^{3*}

Erda Qorri⁴

Gustavo Vicentis Oliveira Fernandes⁵

Lwai Almasri⁷

Marwa Alkassab⁸

Maher Almasri⁸

Andrea Palermo⁶

¹ Department of Interdisciplinary Medicine, University of Bari "Aldo Moro" Bari, Italy.

² D.I.S.C.O. School of Dentistry, Polytechnic University of Marche, Ancona, Italy.

³ Department of Oral Rehabilitation, Faculty of Dentistry, Iuliu Hațieganu University of Medicine and Pharmacy, Cluj-Napoca, Romania.

⁴ Department of Dentistry, Faculty of Medical Sciences, Albanian University, Tirana, Albania.

⁵ Missouri School of Dentistry & Oral Health, A. T. Still University, MO, United States.

⁷ King's College London, U.K.

⁸ The University of Buckingham, U.K.

⁶ University of Salento. Lecce, Italy

Corresponding author: Ioana Roxana Bordea

e-mail: roxana.bordea@gmail.com

*All authors contributed equally to this work.

Abstract

Early orthodontic intervention is essential for effectively managing malocclusions and associated orofacial dysfunctions. A significant development in this area is the application of Cranium-Occluded-Postural Multifunctional Harmonizers (AMCOP) Bio-activators. These devices integrate elastodontic principles emphasizing muscle function to treat skeletal and muscular imbalances and promote ideal tooth alignment, mandibular growth, and orofacial muscle coordination. Focusing on enhancing tongue posture and swallowing function, AMCOP Bio-activators are especially useful in treating Class II and Class III malocclusions, atypical swallowing, and related muscular dysfunctions.

Because of its less invasive form, less discomfort, and ease of use, AMCOP provides more patient compliance than more conventional devices like Twin Blocks or Activators. The gadgets are appropriate for children and adults since they reduce treatment duration and provide flexibility for various stages of treatment. The effectiveness of AMCOP Bio-activators in attaining long-term improvements in muscular function and dental alignment, hence decreasing the need for more intrusive procedures, is supported by preliminary clinical evidence. This review investigates their potential in interceptive orthodontics, highlighting their advantages over conventional approaches.

Keywords: AMCOP Bio-activators, Elastodontic Principles, Orthodontics.

Authors

Benito Francesco Pio Pennacchio - Roberto Vito Giorgio - Filippo Cardarelli - Nicola Sguera - Micaela Del Vecchio - Department of Interdisciplinary Medicine, University of Bari "Aldo Moro" Bari, Italy

Lucia Memè - Fabrizio Bambini - D.I.S.C.O. School of Dentistry, Polytechnic University of Marche, Ancona, Italy

Ioana Roxana Bordea - Department of Oral Rehabilitation, Faculty of Dentistry, Iuliu Hațieganu University of Medicine and Pharmacy, Cluj-Napoca, Romania

Erda Qorri - Department of Dentistry, Faculty of Medical Sciences, Albanian University, Tirana, Albania

Gustavo Vicentis Oliveira Fernandes - Missouri School of Dentistry & Oral Health, A. T. Still University, MO, United States

Lwai Almasri - King's College London, U.K.

Marwa Alkassab - Maher Almasri - The University of Buckingham, U.K.

Andrea Palermo - University of Salento. Lecce, Italy



License

This work is licensed under a [Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International License](https://creativecommons.org/licenses/by-nc-nd/4.0/).

Authors contributing to Oral and Implantology agree to publish their articles under the [Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International License](https://creativecommons.org/licenses/by-nc-nd/4.0/), which allows third parties to copy and redistribute the material providing appropriate credit and a link to the license but does not allow to use the material for commercial purposes and to use the material if it has been remixed, transformed or built upon.

How to Cite

B.F.P. Pennacchio, R.V. Giorgio, F. Cardarelli, N. Sguera, M. Del Vecchio, L. Memè, F. Bambini, I. R. Bordea, E. Qorri, G.V.O. Fernandes, A. Palermo, L. Almasri, M. Alkassab, M. Almasri. AMCOP bio-activators: an innovative solution in interceptive orthodontics for the treatment of malocclusions and orofacial dysfunctions. Oral and Implantology Vol. 16 No. 3 (S1) (2024), 162-175. [https://doi.org/10.11138/oi.v16i3\(S1\).68](https://doi.org/10.11138/oi.v16i3(S1).68)

Introduction

Early orthodontic intervention is crucial for treating a variety of malocclusions that, if untreated, can cause serious issues as adults (1-4). A frequent issue known as malocclusion occurs when the top and lower teeth do not have the best relationship possible, making it harder to chew, swallow, and maintain a beautiful face (5-7) (8-10). Correcting these abnormalities and directing dental-skeletal growth are the goals of early orthodontic treatments, especially when using functional devices, to attain ideal tooth alignment and healthy orofacial muscle function (11-14,16).

The Cranium-Occluded-Postural Multifunctional Harmonizers (AMCOP) Bio-activators, founded on elastodontic principles, represent a noteworthy advancement in this sector (17-21). These devices aim to promote the harmonious development of the mandible and dental arches, enhance posture and tongue function, and treat swallowing disorders (SD) (22-26) (Figure 1). Their use has been wildly successful in treating Class II and III malocclusions and related muscle dysfunctions (MD) (27-31).

The purpose of this article is to thoroughly investigate the efficacy of AMCOP Bio-activators in interceptive orthodontics by examining the theoretical underpinnings of their operation, the different kinds of devices that are available, the advantages over alternative orthodontic techniques, and the clinical data pertaining to their use (32-38).

Mechanism of Action of AMCOP Bio-activators

AMCOP Bio-activators are novel devices combining a muscle approach with a biomechanical theory based on functional and elastodontic orthodontics (39, 291, 292, 293) concepts(41-43). In addition to moving teeth with conventional orthodontic forces, these devices also affect the orofacial muscles, which affects swallowing, mandibular function, and tongue posture (44-46). The purpose of bioactivators is to increase the synchronization between the tongue and teeth during chewing and swallowing by stimulating the oral muscles (47) (49-51). Correcting atypical swallowing, a prevalent problem in kids and teens that can result in occlusal and skeletal dysfunctions is a crucial component of these devices

(52-56). The tongue fundamentally determines the position of the upper and lower teeth (57-58). By rebalancing orofacial muscle activity, AMCOP Bio-activators enhance tongue placement and support natural swallowing function (59-62). AMCOP devices seek a more comprehensive approach to orthodontic therapy by addressing the underlying causes of these dysfunctions, emphasizing not only tooth alignment but also the general functionality of the orofacial system (63-64).

The stability of growth during developmental periods is another essential idea (65-66). AMCOP devices enhance teeth alignment and encourage the growth or contraction of the dental arches (67-71). Devices that address Class II and III malocclusions, such as the AMCOP INTEGRAL or AMCOP Third Class (TC), have demonstrated beneficial effects on mandibular growth and malocclusion control (72-74). These tools function by continuously and gently pressing on the teeth and surrounding tissues, which aids in more physiologically directing jaw development and tooth alignment (75-79).

AMCOP Bio-activators work by combining muscle and biomechanical stimulation in their process (80)-(81). To maintain constant engagement of the orofacial muscles, the devices are made to be worn for specified times both during the day and at night (82-83). By retraining the muscles, this continuous engagement improves function and posture (84-86). Because the bio-activators are composed of flexible and long-lasting materials, they can exert the required stresses on the oral tissues without causing pain or irritation (87) (89-91).

The capacity of AMCOP Bio-activators to affect the posture and function of the tongue is one of their unique qualities (92-93). A vital component of the orofacial system is the tongue, which influences not just swallowing but also jaw growth and tooth location (94) (96). AMCOP devices contribute to developing a more functional and balanced oral environment by enhancing tongue position (97-98). This is especially crucial when treating atypical swallowing since improper tongue posture can result in various problems, such as crossbites and open bites (99-103).

Additionally, AMCOP Bio-activators are made to be flexible enough to accommodate each patient's unique requirements (104-108). The devices can be tailored to

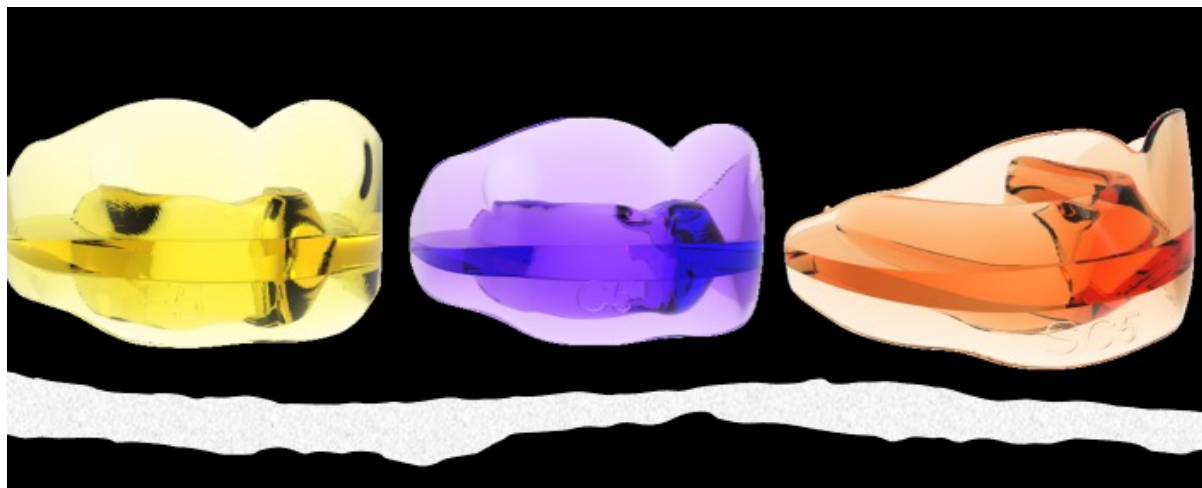


Figure 1. Some AMCOP devices.

treat particular orthodontic problems such as crowding, spacing, or malocclusion(110). Each patient will receive a customized treatment plan that optimizes the bio-activator's efficiency thanks to this personalization (111-117). The devices are useful for patients and practitioners because they are simple to use and come with clear instructions for wear and maintenance (118-119). AMCOP Bio-activators can improve general oral health in addition to their orthodontic advantages (120-121). These devices can lower the risk of bruxism, temporomandibular joint (TMJ) problems, and other related illnesses by enhancing the function and coordination of the orofacial muscles (122-126). Patients with higher muscle function may also have better oral hygiene because they can more efficiently clean their teeth and gums (127-128).

Types of AMCOP Devices and Their Applications

AMCOP Bio-activators come in various forms, each intended to treat a particular orthodontic problem (129-130). The following are the primary categories of AMCOP devices:

- **AMCOP Bio-Activator Devices:** These gadgets provide a novel approach to the functional and orthopedic management of children's dental abnormalities, especially those involving deciduous dentition (131-132). The D and DC devices are intended to treat typical issues, including open bite and transverse deficits brought on by extended pacifier use (133)-(134-136). In addition to replacing pacifiers, these gadgets help treat oral dysfunctions and promote healthy mandibular and dental growth (137)-(138-141). By preventing malocclusions, these devices encourage the emergence of more balanced dental arches (142-143).
- **First Class Bio-Activator:** Another essential tool in this area, especially for patients with deep bites (144-147). This device's thicker anterior occlusal plane efficiently addresses deep bite problems while enhancing mandibular posture and masticatory performance (148-149). Greater adaptability to orthodontic treatment is made possible by the different arch configurations—S, OS, F, and C—which enable customization based on the unique demands of the patient (150-151). Each arch type is made to meet specific therapeutic demands (152) to maximize long-term results(153-155).

1. AMCOP INTEGRAL:

- **Indications:** The AMCOP INTEGRAL device mainly treats unusual swallowing problems and rectifies Class II malocclusions (156). Its design attempts to enhance mandibular posture and align the tongue (157). The device is used throughout the treatment's active phase and again at night for maintenance (161)three on human subjects (162).
- **Function:** Light force to the teeth by AMCOP INTEGRAL to encourage alignment and proper mandibular posture (163-167)overjet, sagittal molar relationship, and dental crowding. Cephalometric tracings were computed by a single blinded observer using Dolphin Imaging software. Statistical analysis was performed with SPSS (version 25.00; IBM Corp, Armonk, NY. Furthermore, since the tongue is a significant factor in defining malocclusion, tongue correction is an essential component (168-169).

2. AMCOP TC:

- **Indications:** Class III malocclusions, namely those involving a prognathic mandible, are the primary target of this device (170)-(171). By reducing mandibular growth, the treatment seeks to balance the growth of the two maxillae and facilitate upper arch alignment (172-176).
- **Function:** By gently pressing the jaw to restrict its growth, AMCOP TC promotes appropriate mandibular posture and supports normal alignment of the upper and lower arches (177-178).

Benefits of AMCOP Devices Over Other Functional Appliances

Compared to conventional functional orthodontic devices like the Twin Block or the Activator, which are frequently more intrusive and need more patient adaption, AMCOP Bio-activators have many advantages (179-183). These devices are a popular option for the early treatment of malocclusions and orofacial MD because of their many benefits, which include comfort, efficacy, and adaptability (184)requiring multiple interventions. One of the main challenges of contemporary orthodontics is to reduce treatment time by accelerating orthodontic tooth movements. Among the currently used methods, micro-osteoperforations (MOPs-(185)-(186).

1. **Increased Patient Compliance:** Patients' greater adoption of AMCOP Bio-activators, especially youngsters and early adolescents, is one of their most noteworthy features (187)in combination with autologous blood-derived PRP.
MATERIALS AND METHODS: Partially edentulous patients with severe atrophy of posterior maxillary treated by means of the split bone technique in a two-stage grafting procedures were observed for up to seven years after implants placement. After surgeries, the natural porous fluorohydroxyapatite (FHA (188-191). AMCOP devices are less intrusive and lighter than rigid appliances like the Twin Block or Activator, which are more extensive and frequently difficult to wear (192-193)cognitive impairment (CI. By using elastic materials that better fit the oral cavity, their design lowers the possibility of discomfort and mucosal irritation while in use (194-198). Additionally, during the active stages of treatment, their inherent flexibility improves patient comfort by applying more consistent pressure on the teeth and dental arches (199)-(200). This improves patient compliance, which is crucial for treating young children who often refuse to utilize painful or uncomfortable devices (201-202).
2. **Effectiveness in Correcting MD:** AMCOP Bio-activators' capacity to influence both tooth movement and orofacial musculature is a key benefit over conventional orthodontic equipment (203-207). AMCOP devices provide a multifunctional approach by additionally influencing the position and behavior of the tongue and mandible. In contrast, traditional devices such as the Twin Block concentrate primarily on addressing dental malocclusions (208) this commentary aimed to focus on the auxiliary role of MSCs to reduce inflammatory processes of acute respiratory infections caused by the 2019 novel coronavirus (COVID-19-(209-212). Children and early teenagers who are still developing their skeletons and muscles would significantly benefit

from this (213-214). One primary reason for dental misalignments is abnormal swallowing, which AMCOP devices can address by working on the tongue (215-216). More stable and natural dental alignment results from better orofacial muscle activity and tongue position (217-218).

3. **Flexibility of Use:** From the interceptive phase to the maintenance phase, AMCOP Bio-activators are intended for use at various orthodontic treatment (219)phases(220) (84,221,222). Because of this, they are especially adaptable and can be used to improve adult dental arch alignment and address emerging malocclusions (223-224). They save time and lessen the necessity for more intrusive procedures like orthognathic surgery for severe misalignments or fixed appliances in later phases of treatment (225-226). Additionally, their effectiveness and widespread use among experts are increased by their application to a broad spectrum of malocclusions, including Class II, Class III, and SDs (227-228).
4. **Reduction of Treatment Time:** The shorter treatment duration of AMCOP when compared to conventional orthodontic equipment is a significant advantage (229)-(230)-(231). AMCOP devices enable the best outcomes in comparatively short amounts of time because of their capacity to efficiently stimulate growth and align the dental arches (232)-(233)-(234-236). This is particularly crucial in orthodontics, where patients may undergo drawn-out and taxing procedures (237)-(238)-(239). Without needing more involved surgeries or drawn-out treatments, AMCOP devices improve teeth alignment and speed up the correction of malocclusions (240)-(241)-(242-244). This lessens the patient's physical and mental strain throughout treatment and produces satisfying outcomes faster (245-246).

AMCOP Bio-activators offer many benefits over conventional orthodontic appliances and are a convenient and efficient way to treat malocclusions (247-251). Many orthodontists and patients use them because of their capacity to enhance patient compliance, correct MD, adjust to various treatment stages, and shorten treatment duration overall (252-256).

Current Studies on AMCOP

Even though AMCOP Bio-activators are becoming increasingly popular in orthodontics, studies on their long-term impacts are still in the early stages of development (257-259). Nonetheless, early clinical data indicates that these tools hold great promise for the early management of orofacial dysfunctions and malocclusions (260-264).

Applying bio-activators appears to drastically alter tongue alignment during swallowing, which reduces atypical swallowing and improves orofacial muscle performance (265)-(266)-(267-269). This makes tongue posture correction a prominent topic of research (270-274). This improves the long-term functional health of the mouth in addition to the placement of the teeth (275-276). Additionally, studies have demonstrated that when significant misalignment occurs, AMCOP lessens the need for more invasive orthodontic procedures such as orthognathic surgery or permanent appliances (277)-(280).

Furthermore, some research indicates that long-term usage of AMCOP, through the activation and maintenance stages, may have long-lasting, sustainable benefits on mandibular growth and dental alignment (281-285) This is particularly crucial for interceptive treatment since prompt action can avoid the need for more invasive remedial measures later in life (286)-(287)-(288-290).

Conclusion

AMCOP Bio-activators are a significant advancement in interceptive orthodontics. They provide a practical means of treating malocclusions and orofacial dysfunctions early on. These devices can address problems, including abnormal swallowing and misalignment of the dental arches, while favorably influencing skeletal growth. According to their elastodontic approach, which combines orthodontic movement with enhanced muscular function, AMCOP Bio-activators greatly enhance masticatory and swallowing abilities by promoting appropriate tongue posture and controlling orofacial muscular activity, improving facial appearance.

Higher patient compliance due to AMCOP's less intrusive nature is one of its primary advantages over more conventional devices like the Twin Block or Activator, which can be unwieldy and challenging for patients, particularly young ones, to tolerate.

Funding

There was no outside support for this study.

Conflicts of Interest

The authors disclose no conflicts of interest.

List of Abbreviations

AMCOP - Cranium-Occluded-Postural Multifunctional Harmonizers

MD - Muscle Dysfunctions

SD - Swallowing Disorders

TC - Third Class (riferito a un tipo di dispositivo)

TMJ - Temporomandibular Joint

References

1. Inchingolo, F.; Tatullo, M.; Abenavoli, F.M.; Marrelli, M.; Inchingolo, A.D.; Servili, A.; Inchingolo, A.M.; Dipalma, G. A Hypothetical Correlation between Hyaluronic Acid Gel and Development of Cutaneous Metaplastic Synovial Cyst. *Head Face Med* **2010**, *6*, 13, doi:10.1186/1746-160X-6-13.
2. A Comparison of the Herbst and Fränkel Appliances in the Treatment of Class II Malocclusion - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/2378319/> (accessed on 10 December 2024).
3. Romasco, T.; Tumedei, M.; Inchingolo, F.; Pignatelli, P.; Montesani, L.; Iezzi, G.; Petrini, M.; Piattelli, A.; Di Pietro, N. A Narrative Review on the Effectiveness of Bone Regeneration Procedures with OsteoBio® Collagenated Porcine Grafts: The Translational Research Experience over 20 Years. *Journal of Functional Biomaterials* **2022**, *13*, 121, doi:10.3390/jfb13030121.
4. Romita, P.; Foti, C.; Masciopinto, L.; Netti, E.; Di Leo, E.; Calogiuri, G.; Bonamonte, D.; Angelini, G.; Dipalma, G.; Ballini, A.; et al. Allergic Contact Dermatitis to Acrylates. *J Biol Regul Homeost Agents* **2017**, *31*, 529-534.
5. Bavetta, G.; Bavetta, G.; Randazzo, V.; Cavataio, A.; Paderni, C.; Grassia, V.; Dipalma, G.; Gargiulo Isacco,

- Parameters for Immediate Loading of Implants in Fresh Extraction Sockets. *Biomed Res Int* **2019**, 2019, 9720419, doi:10.1155/2019/9720419.
6. Inchingolo, F.; Tatullo, M.; Abenavoli, F.M.; Marrelli, M.; Inchingolo, A.D.; Corelli, R.; Inchingolo, A.M.; Dipalma, G. Surgical Treatment of Depressed Scar: A Simple Technique. *Int J Med Sci* **2011**, 8, 377–379, doi:10.7150/ijms.8.377.
7. Vargervik, K.; Harvold, E.P. Response to Activator Treatment in Class II Malocclusions. *Am J Orthod* **1985**, 88, 242–251, doi:10.1016/s0002-9416(85)90219-2.
8. So, L.L. A Class II Division 1 Case Treated with the Herbst and Edgewise Appliances. *Aust Orthod J* **1996**, 14, 81–86.
9. A Randomized Controlled Trial of Self-Perceived Pain, Discomfort, and Impairment of Jaw Function in Children Undergoing Orthodontic Treatment with Fixed or Removable Appliances - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/26185899/> (accessed on 17 December 2024).
10. Zhao, Z.H. (A review of the effectiveness and long-term stability of the functional appliance). *Zhonghua Kou Qiang Yi Xue Za Zhi* **2018**, 53, 590–593, doi:10.3760/cma.j.issn.1002-0098.2018.09.004.
11. Balzanelli, M.G.; Distratis, P.; Aityan, S.K.; Amatulli, F.; Cattucci, O.; Cefalo, A.; De Michele, A.; Dipalma, G.; Inchingolo, F.; Lazzaro, R.; et al. An Alternative “Trojan Horse” Hypothesis for COVID-19: Immune Deficiency of IL-10 and SARS-CoV-2 Biology. *Endocr Metab Immune Disord Drug Targets* **2022**, 22, 1–5, doi:10.2174/1871530321666210127141945.
12. A Functional Approach to Orofacial Orthopaedics - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/6932964/> (accessed on 10 December 2024).
13. Dento-Skeletal Class III Treatment with Mixed Anchored Palatal Expander: A Systematic Review Available online: <https://www.mdpi.com/2076-3417/12/9/4646> (accessed on 17 December 2024).
14. Accelerated Decomensation of Mandibular Incisors in Surgical Skeletal Class III Patients by Using Augmented Corticotomy: A Preliminary Study - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/22858329/> (accessed on 17 December 2024).
15. Inchingolo, A.M.; Dipalma, G.; Inchingolo, A.D.; Palumbo, I.; Guglielmo, M.; Morolla, R.; Mancini, A.; Inchingolo, F. Advancing Postoperative Pain Management in Oral Cancer Patients: A Systematic Review. *Pharmaceuticals (Basel)* **2024**, 17, 542, doi:10.3390/ph17040542.
16. Age-Related Alveolar Bone Maladaptation in Adult Orthodontics: Finding New Ways out - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/39085217/> (accessed on 17 December 2024).
17. Malcangi, G.; Patano, A.; Morolla, R.; De Santis, M.; Piras, F.; Settanni, V.; Mancini, A.; Di Venere, D.; Inchingolo, F.; Inchingolo, A.D.; et al. Analysis of Dental Enamel Remineralization: A Systematic Review of Technique Comparisons. *Bioengineering (Basel)* **2023**, 10, 472, doi:10.3390/bioengineering10040472.
18. Besombes, A.; Soulet, R. (A new instrument in simplified functional orthopedic treatment). *Rev Fr Odontostomatol* **1955**, 2, 483–490.
19. Inchingolo, A.M.; Inchingolo, A.D.; Latini, G.; Garofoli, G.; Sardano, R.; De Leonardi, N.; Dongiovanni, L.; Minetti, E.; Palermo, A.; Dipalma, G.; et al. Caries Prevention and Treatment in Early Childhood: Comparing Strategies. A Systematic Review. *Eur Rev Med Pharmacol Sci* **2023**, 27, 11082–11092, doi:10.26355/eurrev_202311_34477.
20. Bellocchio, L.; Inchingolo, A.D.; Inchingolo, A.M.; Lorusso, F.; Malcangi, G.; Santacroce, L.; Scarano, A.; Bordea, I.R.; Hazballa, D.; D’Oria, M.T.; et al. Cannabinoids Drugs and Oral Health-From Recreational Side-Effects to Medicinal Purposes: A Systematic Review. *Int J Mol Sci* **2021**, 22, 8329, doi:10.3390/ijms22158329.
21. Dimonte, M.; Inchingolo, F.; Minonne, A.; Arditi, G.; Dipalma, G. Bone SPECT in Management of Mandibular Condyle Hyperplasia. Report of a Case and Review of Literature. *Minerva Stomatol* **2004**, 53, 281–285.
22. Arrigoni, R.; Ballini, A.; Santacroce, L.; Cantore, S.; Inchingolo, A.; Inchingolo, F.; Di Domenico, M.; Quagliuolo, L.; Boccellino, M. Another Look at Dietary Polyphenols: Challenges in Cancer Prevention and Treatment. *Curr Med Chem* **2022**, 29, 1061–1082, doi:10.2174/0929867328666210810154732.
23. Schmitz, D. Adult Orthodontic and TMJ Retreatment with Elastodontic Appliance. An Early Progress Report. *Funct Orthod* **1990**, 7, 35–40.
24. Hugger, S.; Schindler, H.J.; Kordass, B.; Hugger, A. Surface EMG of the Masticatory Muscles (Part 3): Impact of Changes to the Dynamic Occlusion. *Int J Comput Dent* **2013**, 16, 119–123.
25. Suri, L.; Taneja, P. Surgically Assisted Rapid Palatal Expansion: A Literature Review. *Am J Orthod Dentofacial Orthop* **2008**, 133, 290–302, doi:10.1016/j.ajodo.2007.01.021.
26. Zhang, J.; Yang, Y.; Han, X.; Lan, T.; Bi, F.; Qiao, X.; Guo, W. The Application of a New Clear Removable Appliance with an Occlusal Splint in Early Anterior Crossbite. *BMC Oral Health* **2021**, 21, 36, doi:10.1186/s12903-021-01393-7.
27. Di Domenico, M.; Feola, A.; Ambrosio, P.; Pinto, F.; Galasso, G.; Zarrelli, A.; Di Fabio, G.; Porcelli, M.; Scacco, S.; Inchingolo, F.; et al. Antioxidant Effect of Beer Polyphenols and Their Bioavailability in Dental-Derived Stem Cells (D-dSCs) and Human Intestinal Epithelial Lines (Caco-2) Cells. *Stem Cells Int* **2020**, 2020, 8835813, doi:10.1155/2020/8835813.
28. Inchingolo, A.M.; Malcangi, G.; Ferrante, L.; Del Vecchio, G.; Viapiano, F.; Inchingolo, A.D.; Mancini, A.; Annicchiarico, C.; Inchingolo, F.; Dipalma, G.; et al. Surface Coatings of Dental Implants: A Review. *J Funct Biomater* **2023**, 14, 287, doi:10.3390/jfb14050287.
29. Minetti, E.; Dipalma, G.; Palermo, A.; Patano, A.; Inchingolo, A.D.; Inchingolo, A.M.; Inchingolo, F. Biomolecular Mechanisms and Case Series Study of Socket Preservation with Tooth Grafts. *J Clin Med* **2023**, 12, 5611, doi:10.3390/jcm12175611.
30. Inchingolo, F.; Paracchini, L.; DE Angelis, F.; Cielo, A.; Orefici, A.; Spitaleri, D.; Santacroce, L.; Gheno, E.; Palermo, A. Biomechanical Behaviour of a Jawbone Loaded with a Prosthetic System Supported by Monophasic and Biphasic Implants. *Oral Implantol (Rome)* **2016**, 9, 65–70, doi:10.11138/orl/2016.9.1S.065.
31. Minetti, E.; Palermo, A.; Inchingolo, A.D.; Patano, A.; Viapiano, F.; Ciocia, A.M.; de Ruvo, E.; Mancini, A.; Inchingolo, F.; Sauro, S.; et al. Autologous Tooth for Bone Regeneration: Dimensional Examination of Tooth Transformer® Granules. *Eur Rev Med Pharmacol Sci* **2023**, 27, 5421–5430, doi:10.26355/eurrev_202306_32777.
32. Inchingolo, A.M.; Patano, A.; Di Pede, C.; Inchingolo, A.D.; Palmieri, G.; de Ruvo, E.; Campanelli, M.; Buongiorno, S.; Carpentiere, V.; Piras, F.; et al. Autologous Tooth Graft: Innovative Biomaterial for Bone Regeneration. Tooth Transformer® and the Role of Microbiota in Regenerative Dentistry. A Systematic Review. *J Funct Biomater* **2023**, 14, 132, doi:10.3390/jfb14030132.
33. Malcangi, G.; Patano, A.; Ciocia, A.M.; Netti, A.; Viapiano, F.; Palumbo, I.; Trilli, I.; Guglielmo, M.; Inchingolo, A.D.; Dipalma, G.; et al. Benefits of Natural Antioxidants on Oral Health. *Antioxidants (Basel)* **2023**, 12, 1309, doi:10.3390/antiox12061309.
34. An Improved Version of the Cervical Vertebral Maturation (CVM) Method for the Assessment of Mandibular Growth - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/12169031/> (accessed on 10 December 2024).
35. Dipalma, G.; Inchingolo, A.D.; Inchingolo, A.M.; Piras, F.; Carpentiere, V.; Garofoli, G.; Azzollini, D.; Campanelli, M.; Paduanelli, G.; Palermo, A.; et al. Artificial Intelligence and Its Clinical Applications in Orthodontics: A Systematic Review. *Diagnostics (Basel)* **2023**, 13, 3677, doi:10.3390/diagnostics13243677.
36. Contaldo, M.; Lajolo, C.; Di Petrillo, M.; Ballini, A.; Inchingolo, F.; Serpico, R.; Romano, A. Analysis of Lip Pigmentations by Reflectance Confocal Microscopy: Report of Two Cases. *J Biol Regul Homeost Agents* **2019**, 33, 19–25. DENTAL SUPPLEMENT.
37. Analysis of Gene Single Nucleotide Polymorphisms in

- COVID-19 Disease Highlighting the Susceptibility and the Severity towards the Infection - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/36428884/> (accessed on 20 December 2024).
38. Gargiulo Isacco, C.; Balzanelli, M.G.; Garzone, S.; Lorusso, M.; Inchingolo, F.; Nguyen, K.C.D.; Santacroce, L.; Mosca, A.; Del Prete, R. Alterations of Vaginal Microbiota and Chlamydia Trachomatis as Crucial Co-Causative Factors in Cervical Cancer Genesis Procured by HPV. *Microorganisms* **2023**, *11*, 662, doi:10.3390/microorganisms11030662.
 39. Contaldo, M.; Luzzi, V.; Ierardo, G.; Raimondo, E.; Boccellino, M.; Ferati, K.; Bexheti-Ferati, A.; Inchingolo, F.; Di Domenico, M.; Serpico, R.; et al. Bisphosphonate-Related Osteonecrosis of the Jaws and Dental Surgery Procedures in Children and Young People with Osteogenesis Imperfecta: A Systematic Review. *J Stomatol Oral Maxillofac Surg* **2020**, *121*, 556–562, doi:10.1016/j.joms.2020.03.003.
 40. Analysis of Clinical Efficacy of Interceptive Treatment of Class II Division 2 Malocclusion in a Pair of Twins through the Use of Two Modified Removable Appliances - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/23285386/> (accessed on 10 December 2024).
 41. The Extraction of Permanent Second Molars and Its Effect on the Dentofacial Complex of Patients Treated with the Tip-Edge Appliance - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/12407946/> (accessed on 17 December 2024).
 42. Alhabshi, M.O.; Taweel, D.M.; Alahmary, H.M.; Al-Suhaymi, O.H.; Al-Bander, M.R.; Al-Suroor, T.A.; Al-Shahrani, A.M.; Alshallaa, B.H.; Bakhamis, B.A. The Role of Orthodontics in the Management of Maxillofacial Fractures in Children: A Review on Contemporary Approaches. *Cureus* **2024**, *16*, e63128, doi:10.7759/cureus.63128.
 43. Therapeutic Approach to Class II, Division 1 Malocclusion with Maxillary Functional Orthopedics - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/26352852/> (accessed on 17 December 2024).
 44. Inchingolo, F.; Pacifici, A.; Gargari, M.; Acitores Garcia, J.I.; Amantea, M.; Marrelli, M.; Dipalma, G.; Inchingolo, A.M.; Rinaldi, R.; Inchingolo, A.D.; et al. CHARGE Syndrome: An Overview on Dental and Maxillofacial Features. *Eur Rev Med Pharmacol Sci* **2014**, *18*, 2089–2093.
 45. Ballini, A.; Di Benedetto, A.; De Vito, D.; Scarano, A.; Scacco, S.; Perillo, L.; Posa, F.; Dipalma, G.; Paduano, F.; Contaldo, M.; et al. Stemness Genes Expression in Naïve vs. Osteodifferentiated Human Dental-Derived Stem Cells. *Eur Rev Med Pharmacol Sci* **2019**, *23*, 2916–2923, doi:10.26355/eurrev_201904_17570.
 46. Oral-Facial-Digital Syndrome - Symptoms, Causes, Treatment | NORD Available online: <https://rarediseases.org/rare-diseases/oral-facial-digital-syndrome/> (accessed on 17 December 2024).
 47. Inchingolo, F.; Tatullo, M.; Marrelli, M.; Inchingolo, A.D.; Corelli, R.; Inchingolo, A.M.; Dipalma, G.; Abenavoli, F.M. Clinical Case-Study Describing the Use of Skin-Perichondrium-Cartilage Graft from the Auricular Concha to Cover Large Defects of the Nose. *Head Face Med* **2012**, *8*, 10, doi:10.1186/1746-160X-8-10.
 48. Apical Root Resorption Comparison between Fränkel and Eruption Guidance Appliances - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/17561050/> (accessed on 10 December 2024).
 49. Xiaowei, W.; Haoran, L.; Xuehui, C.; Xiaogang, P. Analysis of Prefabricated Myofunctional Appliances with Different Overjet and Bumper Designs: A Three-Dimensional Finite Element Analysis. *BMC Oral Health* **2024**, *24*, 561, doi:10.1186/s12903-024-04325-3.
 50. Arunachalam, R.; Nathwani, N.; Nejatian, T.; Fine, P.; Leung, A. Assessing Dentists' Awareness of the Orthodontic-Restorative Interface. *J Dent* **2024**, *141*, 104811, doi:10.1016/j.jdent.2023.104811.
 51. Assessment of Masticatory Muscle Function in Patients with Bilateral Complete Cleft Lip and Palate and Posterior Crossbite by Means of Electromyography - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/32908658/> (accessed on 17 December 2024).
 52. Inchingolo, F.; Tatullo, M.; Marrelli, M.; Inchingolo, A.M.; Tarullo, A.; Inchingolo, A.D.; Dipalma, G.; Podo Brunetti, S.; Tarullo, A.; Cagiano, R. Combined Occlusal and Pharmacological Therapy in the Treatment of Temporomandibular Disorders. *Eur Rev Med Pharmacol Sci* **2011**, *15*, 1296–1300.
 53. Case Reports in Pediatric Dentistry Journals: A Systematic Review about Their Effect on Impact Factor and Future Investigations - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/31652916/> (accessed on 10 December 2024).
 54. Shah, S.S.; Agarwal, P.V.; Rath, N.; Agarwal, S.R.; Tasgaonkar, A. Tongues Tied by Orofacial Myofunctional Therapy about Tongue Tie: A Narrative Review. *Int J Clin Pediatr Dent* **2024**, *17*, 109–113, doi:10.5005/jp-journals-10005-2736.
 55. Gurgel, J.A.; Tiago, C.M.; Normando, D. Transverse Changes after Surgically Assisted Rapid Palatal Expansion. *Int J Oral Maxillofac Surg* **2014**, *43*, 316–322, doi:10.1016/j.ijom.2013.10.001.
 56. Koretsi, V.; Zymperdikas, V.F.; Papageorgiou, S.N.; Papadopoulos, M.A. Treatment Effects of Removable Functional Appliances in Patients with Class II Malocclusion: A Systematic Review and Meta-Analysis. *Eur J Orthod* **2015**, *37*, 418–434, doi:10.1093/ejo/cju071.
 57. Montenegro, V.; Inchingolo, A.D.; Malcangi, G.; Limongelli, L.; Marinelli, G.; Coloccia, G.; Laudadio, C.; Patano, A.; Inchingolo, F.; Bordea, I.R.; et al. Compliance of Children with Removable Functional Appliance with Microchip Integrated during Covid-19 Pandemic: A Systematic Review. *J Biol Regul Homeost Agents* **2021**, *35*, 365–377, doi:10.23812/21-2supp1-37.
 58. Cephalometric Evaluation of the Eruption Guidance Appliance in Class II, Division 1 Treatment - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/9511561/> (accessed on 10 December 2024).
 59. Geratti, C.; Maspero, C.; Consonni, D.; Caprioglio, A.; Connelly, S.T.; Inchingolo, F.; Tartaglia, G.M. Cone-Beam Computed Tomographic Assessment of the Mandibular Condylar Volume in Different Skeletal Patterns: A Retrospective Study in Adult Patients. *Bioengineering (Basel)* **2022**, *9*, 102, doi:10.3390/bioengineering9030102.
 60. Heideborn, M. (Clinical and electromyographic results of treatment with the splint-activator of Soulet-Besombes). *Fortschr Kieferorthop* **1965**, *26*, 293–299, doi:10.1007/BF02166057.
 61. Coscia, G.; Coscia, V.; Peluso, V.; Addabbo, F. Augmented Corticotomy Combined with Accelerated Orthodontic Forces in Class III Orthognathic Patients: Morphologic Aspects of the Mandibular Anterior Ridge with Cone-Beam Computed Tomography. *J Oral Maxillofac Surg* **2013**, *71*, 1760.e1-9, doi:10.1016/j.joms.2013.04.022.
 62. Wadia, R. Awareness of the Orthodontic-Restorative Interface. *Br Dent J* **2024**, *236*, 109, doi:10.1038/s41415-024-6772-6.
 63. Romita, P.; Foti, C.; Calogiuri, G.; Cantore, S.; Ballini, A.; Dipalma, G.; Inchingolo, F. Contact Dermatitis Due to Transdermal Therapeutic Systems: A Clinical Update. *Acta Biomed* **2018**, *90*, 5–10, doi:10.23750/abm.v90i1.6563.
 64. Inchingolo, A.M.; Inchingolo, A.D.; Nardelli, P.; Latini, G.; Trilli, I.; Ferrante, L.; Malcangi, G.; Palermo, A.; Inchingolo, F.; Dipalma, G. Stem Cells: Present Understanding and Prospects for Regenerative Dentistry. *J Funct Biomater* **2024**, *15*, 308, doi:10.3390/jfb15100308.
 65. Inchingolo, A.D.; Di Cosola, M.; Inchingolo, A.M.; Greco Lucchina, A.; Malcangi, G.; Pettini, F.; Scarano, A.; Bordea, I.R.; Hazballa, D.; Lorusso, F.; et al. Correlation between Occlusal Trauma and Oral Microbiota: A Microbiological Investigation. *J Biol Regul Homeost Agents* **2021**, *35*, 295–302, doi:10.23812/21-2supp1-29.
 66. Ballini, A.; Cantore, S.; Fotopoulou, E.A.; Georgakopoulos, I.P.; Athanasiou, E.; Bellos, D.; Paduanelli, G.; Saini, R.; Dipalma, G.; Inchingolo, F. Combined Sea Salt-Based Oral Rinse with Xylitol in Orthodontic Patients: Clinical and Microbiological Study. *J Biol Regul Homeost Agents* **2019**, *33*, 263–268.
 67. Lorusso, F.; Inchingolo, F.; Dipalma, G.; Postiglione, F.;

- Fulle, S.; Scarano, A. Synthetic Scaffold/Dental Pulp Stem Cell (DPSC) Tissue Engineering Constructs for Bone Defect Treatment: An Animal Studies Literature Review. *Int J Mol Sci* **2020**, *21*, 9765, doi:10.3390/ijms21249765.
68. Preventive Eruption Guidance in the 5-to-7-Year-Old - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/8617861/> (accessed on 10 December 2024).
69. Anti-Inflammatory Cytokines in Peri-Implant Soft Tissues: A Preliminary Study on Humans Using CDNA Microarray Technology Available online: <http://ouci.dntb.gov.ua/en/works/4yk1LL39/> (accessed on 20 December 2024).
70. Influence of Biphosphonates on the Integration Process of Endosseous Implants Evaluated Using Single Photon Emission Computerized Tomography (SPECT) - *Minerva Stomatologica* **2003** June;52(6):331-8 Available online: <https://www.minervamedica.it/en/journals/minerva-dental-and-oral-science/article.php?cod=R18Y-2003N06A0331> (accessed on 20 December 2024).
71. Custom-Made Additively Manufactured Subperiosteal Implant - *Minerva Dental and Oral Science* **2022** December;71(6):353-60 Available online: <https://www.minervamedica.it/en/journals/minerva-dental-and-oral-science/article.php?cod=R18Y2022N06A0353> (accessed on 20 December 2024).
72. Scarano, A.; Khater, A.G.A.; Gehrke, S.A.; Serra, P.; Francesco, I.; Di Carmine, M.; Tari, S.R.; Leo, L.; Lorusso, F. Current Status of Peri-Implant Diseases: A Clinical Review for Evidence-Based Decision Making. *J Funct Biomater* **2023**, *14*, 210, doi:10.3390/jfb14040210.
73. Ackerman, J.L.; Proffit, W.R. Preventive and Interceptive Orthodontics: A Strong Theory Proves Weak in Practice. *Angle Orthod* **1980**, *50*, 75–87, doi:10.1043/0003-3219(1980)050<0075:PAIOAS>2.0.CO;2.
74. Post-Traumatic Stress, Prevalence of Temporomandibular Disorders in War Veterans: Systematic Review with Meta-Analysis - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/37300526/> (accessed on 17 December 2024).
75. Inchingolo, A.M.; Malcangi, G.; Ferrante, L.; Del Vecchio, G.; Viapiano, F.; Mancini, A.; Inchingolo, F.; Inchingolo, A.D.; Di Venere, D.; Dipalma, G.; et al. Damage from Carbonated Soft Drinks on Enamel: A Systematic Review. *Nutrients* **2023**, *15*, 1785, doi:10.3390/nu15071785.
76. Galluccio, G.; Guarnieri, R.; Jamshir, D.; Impellizzeri, A.; Ierardo, G.; Barbato, E. Comparative Evaluation of Esthetic and Structural Aspects in Class II Functional Therapy. A Case-Control Retrospective Study. *Int J Environ Res Public Health* **2021**, *18*, 6978, doi:10.3390/ijerph18136978.
77. Bassani, S. Clinical Features of Class II Division 2 Malocclusion and Its Orthodontic Treatment. *Bilt Udruz Ortodontata Jugosl* **1988**, *21*, 65–72.
78. Flores-Mir, C. Clinical Significance of Early Treatment of Overjet Is Questionable. At What Age Should Orthodontic Treatment for Prominent Upper Teeth Be Carried Out? *Evid Based Dent* **2007**, *8*, 103–104, doi:10.1038/sj.ebd.6400523.
79. Kook, Y.-A.; Kim, G.; Kim, Y. Comparison of Alveolar Bone Loss around Incisors in Normal Occlusion Samples and Surgical Skeletal Class III Patients. *Angle Orthod* **2012**, *82*, 645–652, doi:10.2319/070111-424.1.
80. d'Apuzzo, F.; Nucci, L.; Strangio, B.M.; Inchingolo, A.D.; Dipalma, G.; Minervini, G.; Perillo, L.; Grassia, V. Dento-Skeletal Class III Treatment with Mixed Anchored Palatal Expander: A Systematic Review. *Applied Sciences* **2022**, *12*, 4646, doi:10.3390/app12094646.
81. Dentofacial Changes after Orthodontic Intervention with Eruption Guidance Appliance in the Early Mixed Dentition - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/18251597/> (accessed on 10 December 2024).
82. Patano, A.; Cirulli, N.; Beretta, M.; Plantamura, P.; Inchingolo, A.D.; Inchingolo, A.M.; Bordea, I.R.; Malcangi, G.; Marinelli, G.; Scarano, A.; et al. Education Technology in Orthodontics and Paediatric Dentistry during the COVID-19 Pandemic: A Systematic Review. *Int J Environ Res Public Health* **2021**, *18*, 6056, doi:10.3390/ijerph18116056.
83. Bergersen, E.O. Preventive Orthodontics for the 5- to 7-Year-Old with the Nite-Guide Technique. *Int J Orthod Milwaukee* **2009**, *20*, 31–35.
84. Grassi, F.R.; Ciccolella, F.; D'Apolito, G.; Papa, F.; Iuso, A.; Salzo, A.E.; Trentadue, R.; Nardi, G.M.; Scivetti, M.; De Matteo, M.; et al. Effect of Low-Level Laser Irradiation on Osteoblast Proliferation and Bone Formation. *J Biol Regul Homeost Agents* **2011**, *25*, 603–614.
85. Contaldo, M.; Boccellino, M.; Zannini, G.; Romano, A.; Sciarra, A.; Sacco, A.; Settembre, G.; Coppola, M.; Di Carlo, A.; D'Angelo, L.; et al. Sex Hormones and Inflammation Role in Oral Cancer Progression: A Molecular and Biological Point of View. *J Oncol* **2020**, *2020*, 9587971, doi:10.1155/2020/9587971.
86. Mandelaris, G.A.; Neiva, R.; Chambrone, L. Cone-Beam Computed Tomography and Interdisciplinary Dentofacial Therapy: An American Academy of Periodontology Best Evidence Review Focusing on Risk Assessment of the Dentoalveolar Bone Changes Influenced by Tooth Movement. *J Periodontol* **2017**, *88*, 960–977, doi:10.1902/jop.2017.160781.
87. Inchingolo, A.D.; Inchingolo, A.M.; Malcangi, G.; Avantario, P.; Azzollini, D.; Buongiorno, S.; Viapiano, F.; Campanelli, M.; Ciocia, A.M.; De Leonardis, N.; et al. Effects of Resveratrol, Curcumin and Quercetin Supplementation on Bone Metabolism-A Systematic Review. *Nutrients* **2022**, *14*, 3519, doi:10.3390/nu14173519.
88. Ramirez-Yañez, G.; Sidlauskas, A.; Junior, E.; Fluter, J. Dimensional Changes in Dental Arches after Treatment with a Prefabricated Functional Appliance. *J Clin Pediatr Dent* **2007**, *31*, 279–283, doi:10.17796/jcpd.31.4.d7p31201572n72h2.
89. Liu, P.; Chen, H.; Shi, X.; Guo, J. Conservative Treatment of a Young Adult Patient with a Moderate Skeletal Class III Malocclusion by Applying the Temporary Anchorage Devices and the Surgically Assisted Rapid Palatal Expansion. *Clin Case Rep* **2017**, *5*, 2003–2011, doi:10.1002/ccr3.1245.
90. Kim, S.-H.; Kim, I.; Jeong, D.-M.; Chung, K.-R.; Zadeh, H. Corticotomy-Assisted Decompression for Augmentation of the Mandibular Anterior Ridge. *Am J Orthod Dentofacial Orthop* **2011**, *140*, 720–731, doi:10.1016/j.ajodo.2009.12.040.
91. Paradowska-Stolarz, A.; Mikulewicz, M.; Duś-Illicka, I. Current Concepts and Challenges in the Treatment of Cleft Lip and Palate Patients-A Comprehensive Review. *J Pers Med* **2022**, *12*, 2089, doi:10.3390/jpm12122089.
92. Ballini, A.; Cantore, S.; Signorini, L.; Saini, R.; Scacco, S.; Gnoni, A.; Inchingolo, A.D.; De Vito, D.; Santacroce, L.; Inchingolo, F.; et al. Efficacy of Sea Salt-Based Mouthwash and Xylitol in Improving Oral Hygiene among Adolescent Population: A Pilot Study. *Int J Environ Res Public Health* **2020**, *18*, 44, doi:10.3390/ijerph18010044.
93. Bass, N.M. Simplified Bass Appliance. *J Clin Orthod* **1989**, *23*, 756–762.
94. Scarano, A.; Inchingolo, F.; Lorusso, F. Environmental Disinfection of a Dental Clinic during the Covid-19 Pandemic: A Narrative Insight. *Biomed Res Int* **2020**, *2020*, 8896812, doi:10.1155/2020/8896812.
95. Early Orthodontic Intervention - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/9457016/> (accessed on 10 December 2024).
96. Prevalence of Temporomandibular Disorders (TMD) in Obesity Patients: A Systematic Review and Meta-analysis - Minervini - 2023 - Journal of Oral Rehabilitation - Wiley Online Library Available online: <https://onlinelibrary.wiley.com/doi/10.1111/joor.13573> (accessed on 17 December 2024).
97. Signorini, L.; Ballini, A.; Arrigoni, R.; De Leonardis, F.; Saini, R.; Cantore, S.; De Vito, D.; Coscia, M.F.; Dipalma, G.; Santacroce, L.; et al. Evaluation of a Nutraceutical Product with Probiotics, Vitamin D, Plus Banaba Leaf Extracts (Lagerstroemia Speciosa) in Glycemic Control. *Endocr Metab Immune Disord Drug Targets* **2021**, *21*, 1356–1365, doi:10.2174/1871530320666201109115415.
98. Eirew, H.L. The Bionator. *Br J Orthod* **1981**, *8*, 33–36, doi:10.1179/bjo.8.1.33.
99. Cantore, S.; Ballini, A.; Farronato, D.; Malcangi, G.; Dipalma, G.; Assandri, F.; Garagiola, U.; Inchingolo, F.; De Vito,

- D.; Cirulli, N. Evaluation of an Oral Appliance in Patients with Mild to Moderate Obstructive Sleep Apnea Syndrome Intolerant to Continuous Positive Airway Pressure Use: Preliminary Results. *Int J Immunopathol Pharmacol* **2016**, *29*, 267–273, doi:10.1177/0394632015590949.
100. Inchingolo, F.; Tatullo, M.; Abenavoli, F.M.; Marrelli, M.; Inchingolo, A.D.; Villabruna, B.; Inchingolo, A.M.; Dipalma, G. Severe Anisocoria after Oral Surgery under General Anesthesia. *Int J Med Sci* **2010**, *7*, 314–318, doi:10.7150/ijms.7.314.
101. Koaban, A.; Al-Harbi, S.K.; Al-Shehri, A.Z.; Al-Shamri, B.S.; Aburazizah, M.F.; Al-Qahtani, G.H.; Al-Wusaybie, L.H.; Alkhalifa, L.B.; Al-Saad, M.M.; Al-Nehab, A.A.; et al. Current Trends in Pediatric Orthodontics: A Comprehensive Review. *Cureus* **2024**, *16*, e68537, doi:10.7759/cureus.68537.
102. Zheng, Y.; Zhu, C.; Zhu, M.; Lei, L. Difference in the Alveolar Bone Remodeling between the Adolescents and Adults during Upper Incisor Retraction: A Retrospective Study. *Sci Rep* **2022**, *12*, 9161, doi:10.1038/s41598-022-12967-y.
103. Mao, H.; Yang, A.; Pan, Y.; Li, H.; Lei, L. Displacement in Root Apex and Changes in Incisor Inclination Affect Alveolar Bone Remodeling in Adult Bimaxillary Protrusion Patients: A Retrospective Study. *Head Face Med* **2020**, *16*, 29, doi:10.1186/s13005-020-00242-2.
104. Farronato, M.; Farronato, D.; Inchingolo, F.; Grassi, L.; Lanteri, V.; Maspero, C. Evaluation of Dental Surface after De-Bonding Orthodontic Bracket Bonded with a Novel Fluorescent Composite: In Vitro Comparative Study. *Applied Sciences* **2021**, *11*, 6354, doi:10.3390/app11146354.
105. Klumper, G.T.; Beeman, C.S.; Hicks, E.P. Early Orthodontic Treatment: What Are the Imperatives? *J Am Dent Assoc* **2000**, *131*, 613–620, doi:10.14219/jada.archive.2000.0235.
106. Kravitz, N.D.; Hansa, I.; Vaid, N.R.; Moshiri, M.; Adel, S.M. Does Age Influence Deep Overbite Correction with Invisalign? A Prospective Study Evaluating Mandibular Incisor Intrusion in Adolescents vs Adults. *Angle Orthod* **2024**, *94*, 145–150, doi:10.2319/050223-320.1.
107. Kalha, A.S. Early Orthodontic Treatment Reduced Incisal Trauma in Children with Class II Malocclusions. *Evid Based Dent* **2014**, *15*, 18–20, doi:10.1038/sj.ebd.6400986.
108. Tzemach, M.; Aizenbud, D.; Einy, S. (Early orthodontic treatment for growth modification by functional appliances—pros and cons). *Refuat Hapeh Vehashinayim (1993)* **2014**, *31*, 25–31, 61.
109. Santacroce, L.; Di Cosola, M.; Bottalico, L.; Topi, S.; Charitos, I.A.; Ballini, A.; Inchingolo, F.; Cazzolla, A.P.; Dipalma, G. Focus on HPV Infection and the Molecular Mechanisms of Oral Carcinogenesis. *Viruses* **2021**, *13*, 559, doi:10.3390/v13040559.
110. Ramirez-Yañez, G.O.; Faria, P. Early Treatment of a Class II, Division 2 Malocclusion with the Trainer for Kids (T4K): A Case Report. *J Clin Pediatr Dent* **2008**, *32*, 325–329, doi:10.17796/jcpd.32.4.8833x52755364hx4.
111. Inchingolo, F.; Tatullo, M.; Abenavoli, F.M.; Inchingolo, A.D.; Inchingolo, A.M.; Dipalma, G. Fish-Hook Injuries: A Risk for Fishermen. *Head Face Med* **2010**, *6*, 28, doi:10.1186/1746-160X-6-28.
112. Ingelsson, M.; Forsberg, C.M. (Viggo Andresen—the originator of orthodontic therapy involving the use of oral activators). *Tandlakartidningen* **1988**, *80*, 820–827.
113. Investigation on the Application of Artificial Intelligence in Prosthodontics Available online: <https://www.mdpi.com/2076-3417/13/8/5004> (accessed on 21 December 2024).
114. Online Bruxism-Related Information: Can People Understand What They Read? A Cross-Sectional Study - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/37232129/> (accessed on 21 December 2024).
115. Almeida, L.E.; Cicciù, M.; Doetzer, A.; Beck, M.L.; Cervino, G.; Minervini, G. Mandibular Condylar Hyperplasia and Its Correlation with Vascular Endothelial Growth Factor. *J Oral Rehabil* **2023**, *50*, 845–851, doi:10.1111/joor.13487.
116. Langaliya, A.; Alam, M.K.; Hegde, U.; Panakage, M.S.; Cervino, G.; Minervini, G. Occurrence of Temporomandibular Disorders among Patients Undergoing Treatment for Obstructive Sleep Apnoea Syndrome (OSAS) Using Mandibular Advancement Device (MAD): A Systematic Review Conducted According to PRISMA Guidelines and the Cochrane Handbook for Systematic Reviews of Interventions. *J Oral Rehabil* **2023**, *50*, 1554–1563, doi:10.1111/joor.13574.
117. Can Bone Compaction Improve Primary Implant Stability? An In Vitro Comparative Study with Osseodensification Technique Available online: <https://www.mdpi.com/2076-3417/10/23/8623> (accessed on 21 December 2024).
118. Dipalma, G.; Inchingolo, A.D.; Inchingolo, F.; Charitos, I.A.; Di Cosola, M.; Cazzolla, A.P. Focus on the Cariogenic Process: Microbial and Biochemical Interactions with Teeth and Oral Environment. *J Biol Regul Homeost Agents* **2021**, *35*, doi:10.23812/20-747-A.
119. Scarano, A.; Noubissi, S.; Gupta, S.; Inchingolo, F.; Stilla, P.; Lorusso, F. Scanning Electron Microscopy Analysis and Energy Dispersion X-Ray Microanalysis to Evaluate the Effects of Decontamination Chemicals and Heat Sterilization on Implant Surgical Drills: Zirconia vs. Steel. *Applied Sciences* **2019**, *9*, 2837, doi:10.3390/app9142837.
120. Corriero, A.; Gadaleta, R.M.; Puntillo, F.; Inchingolo, F.; Moschetta, A.; Brienza, N. The Central Role of the Gut in Intensive Care. *Crit Care* **2022**, *26*, 379, doi:10.1186/s13054-022-04259-8.
121. Effectiveness of Early Orthodontic Treatment with the Twin-Block Appliance: A Multicenter, Randomized, Controlled Trial. Part 1: Dental and Skeletal Effects - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/12970656/> (accessed on 10 December 2024).
122. Inchingolo, A.D.; Dipalma, G.; Inchingolo, A.M.; Malcangi, G.; Santacroce, L.; D’Oria, M.T.; Isacco, C.G.; Bordea, I.R.; Candrea, S.; Scarano, A.; et al. The 15-Months Clinical Experience of SARS-CoV-2: A Literature Review of Therapies and Adjuvants. *Antioxidants (Basel)* **2021**, *10*, 881, doi:10.3390/antiox10060881.
123. Treatment Timing for Twin-Block Therapy - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/10935956/> (accessed on 10 December 2024).
124. Koletsi, D.; Makou, M.; Pandis, N. Effect of Orthodontic Management and Orofacial Muscle Training Protocols on the Correction of Myofunctional and Myoskeletal Problems in Developing Dentition. A Systematic Review and Meta-Analysis. *Orthod Craniofac Res* **2018**, *21*, 202–215, doi:10.1111/ocr.12240.
125. Benkert, K.K. The Effectiveness of Orofacial Myofunctional Therapy in Improving Dental Occlusion. *Int J Orofacial Myology* **1997**, *23*, 35–46.
126. Ureni, R.; Verdecchia, A.; Suárez-Fernández, C.; Mereu, M.; Schirru, R.; Spinaz, E. Effectiveness of Elastodontic Devices for Correcting Sagittal Malocclusions in Mixed Dentition Patients: A Scoping Review. *Dent J (Basel)* **2024**, *12*, 247, doi:10.3390/dj12080247.
127. Inchingolo, A.D.; Patano, A.; Coloccia, G.; Ceci, S.; Inchingolo, A.M.; Marinelli, G.; Malcangi, G.; Montenegro, V.; Laudadio, C.; Palmieri, G.; et al. Genetic Pattern, Orthodontic and Surgical Management of Multiple Supplementary Impacted Teeth in a Rare, Cleidocranial Dysplasia Patient: A Case Report. *Medicina (Kaunas)* **2021**, *57*, 1350, doi:10.3390/medicina57121350.
128. O’Brien, K.; Wright, J.; Conboy, F.; Sanjie, Y.; Mandall, N.; Chadwick, S.; Connolly, I.; Cook, P.; Birnie, D.; Hammond, M.; et al. Effectiveness of Treatment for Class II Malocclusion with the Herbst or Twin-Block Appliances: A Randomized, Controlled Trial. *Am J Orthod Dentofacial Orthop* **2003**, *124*, 128–137, doi:10.1016/s0889-5406(03)00345-7.
129. Effects of a Myofunctional Appliance on Orofacial Muscle Activity and Structures - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/9622762/> (accessed on 10 December 2024).
130. Janson, G.; Nakamura, A.; Chiqueto, K.; Castro, R.; de Freitas, M.R.; Henriques, J.F.C. Treatment Stability with the Eruption Guidance Appliance. *Am J Orthod Dentofacial Orthop* **2007**, *131*, 717–728, doi:10.1016/j.jado.2005.04.048.

131. Fari, G.; Megna, M.; Scacco, S.; Ranieri, M.; Raelle, M.V.; Chiaia Noya, E.; Macchiarola, D.; Bianchi, F.P.; Carati, D.; Panico, S.; et al. Hemp Seed Oil in Association with β -Caryophyllene, Myrcene and Ginger Extract as a Nutra-ceutical Integration in Knee Osteoarthritis: A Double-Blind Prospective Case-Control Study. *Medicina (Kaunas)* **2023**, *59*, 191, doi:10.3390/medicina59020191.
132. Toth, L.R.; McNamara, J.A. Treatment Effects Produced by the Twin-Block Appliance and the FR-2 Appliance of Fränkel Compared with an Untreated Class II Sample. *Am J Orthod Dentofacial Orthop* **1999**, *116*, 597–609, doi:10.1016/s0889-5406(99)70193-9.
133. Dipalma, G.; Inchingolo, A.D.; Memè, L.; Casamassima, L.; Carone, C.; Malcangi, G.; Inchingolo, F.; Palermo, A.; Inchingolo, A.M. The Diagnosis and Management of Infraoccluded Deciduous Molars: A Systematic Review. *Children (Basel)* **2024**, *11*, 1375, doi:10.3390/children11111375.
134. Li, W.; Lin, J.; Fu, M. Electromyographic Investigation of Masticatory Muscles in Unilateral Cleft Lip and Palate Patients with Anterior Crossbite. *Cleft Palate Craniofac J* **1998**, *35*, 415–418, doi:10.1597/1545-1569_1998_035_0415_eiommi_2.3.co_2.
135. Szyszka-Sommerfeld, L.; Matthews-Brzozowska, T.; Kawala, B.; Mikulewicz, M.; Machoy, M.; Więckiewicz, W.; Woźniak, K. Electromyographic Analysis of Masticatory Muscles in Cleft Lip and Palate Children with Pain-Related Temporomandibular Disorders. *Pain Res Manag* **2018**, *2018*, 4182843, doi:10.1155/2018/4182843.
136. Tagore, S.; Reche, A.; Paul, P.; Deshpande, M. Electromyography: Processing, Muscles' Electric Signal Analysis, and Use in Myofunctional Orthodontics. *Cureus* **2023**, *15*, e50773, doi:10.7759/cureus.50773.
137. Staderini, E.; Patini, R.; Camodeca, A.; Guglielmi, F.; Galenzi, P. Three-Dimensional Assessment of Morphological Changes Following Nasoalveolar Molding Therapy in Cleft Lip and Palate Patients: A Case Report. *Dent J (Basel)* **2019**, *7*, 27, doi:10.3390/dj7010027.
138. Sangwattanasat, T.; Thongudomporn, U. Effectiveness of Removable Anterior Bite Planes with Varied Mealtime Protocols in Correcting Deep Bites among Growing Patients: A Randomized Clinical Trial. *Angle Orthod* **2024**, *94*, 615–622, doi:10.2319/022124-129.1.
139. Wasinwasukul, P.; Nalamliang, N.; Pairatchawan, N.; Thongudomporn, U. Effects of Anterior Bite Planes Fabricated from Acrylic Resin and Thermoplastic Material on Masticatory Muscle Responses and Maximum Bite Force in Children with a Deep Bite: A 6-Month Randomised Controlled Trial. *J Oral Rehabil* **2022**, *49*, 980–992, doi:10.1111/joor.13351.
140. Cardarelli, F.; Drago, S.; Rizzi, L.; Bazzani, M.; Pesce, P.; Menini, M.; Migliorati, M. Effects of Removable Functional Appliances on the Dentoalveolar Unit in Growing Patients. *Medicina (Kaunas)* **2024**, *60*, 746, doi:10.3390/medicina60050746.
141. Elastodontic Appliances for the Interception of Malocclusion in Children: A Systematic Narrative Hybrid Review - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/38002912/> (accessed on 17 December 2024).
142. Dang, Q.T.; Huynh, T.D.; Inchingolo, F.; Dipalma, G.; Inchingolo, A.D.; Cantore, S.; Paduanelli, G.; Nguyen, K.C.D.; Ballini, A.; Isacco, C.G.; et al. Human Chondrocytes from Human Adipose Tissue-Derived Mesenchymal Stem Cells Seeded on a Dermal-Derived Collagen Matrix Sheet: Our Preliminary Results for a Ready to Go Biotechnological Cartilage Graft in Clinical Practice. *Stem Cells Int* **2021**, *2021*, 6664697, doi:10.1155/2021/6664697.
143. The Use of Functional Appliances in Contemporary Orthodontic Practice - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/25686429/> (accessed on 10 December 2024).
144. Clark, W.J. The Twin Block Technique. A Functional Orthopedic Appliance System. *Am J Orthod Dentofacial Orthop* **1988**, *93*, 1–18, doi:10.1016/0889-5406(88)90188-6.
145. Minervini, G.; Franco, R.; Marrapodi, M.M.; Fiorillo, L.; Cervino, G.; Cicciù, M. The Association between Parent Education Level, Oral Health, and Oral-Related Sleep Disturbance. An Observational Crosssectional Study. *Eur J Paediatr Dent* **2023**, *24*, 218–223, doi:10.23804/ejpd.2023.1910.
146. Szyszka-Sommerfeld, L.; Machoy, M.E.; Wilczyński, S.; Lipski, M.; Woźniak, K. Superior Orbicularis Oris Muscle Activity in Children Surgically Treated for Bilateral Complete Cleft Lip and Palate. *J Clin Med* **2021**, *10*, 1720, doi:10.3390/jcm10081720.
147. Szyszka-Sommerfeld, L.; Lipski, M.; Woźniak, K. Surface Electromyography as a Method for Diagnosing Muscle Function in Patients with Congenital Maxillofacial Abnormalities. *J Healthc Eng* **2020**, *2020*, 8846920, doi:10.1155/2020/8846920.
148. Coscia, M.F.; Monno, R.; Ballini, A.; Mirgaldi, R.; Dipalma, G.; Pettini, F.; Cristallo, V.; Inchingolo, F.; Foti, C.; de Vito, D. Human Papilloma Virus (HPV) Genotypes Prevalence in a Region of South Italy (Apulia). *Ann Ist Super Sanita* **2015**, *51*, 248–251, doi:10.4415/ANN_15_03_14.
149. The Primary Role of Functional Matrices in Facial Growth - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/5253955/> (accessed on 10 December 2024).
150. Dipalma, G.; Inchingolo, A.M.; Latini, G.; Ferrante, L.; Nardelli, P.; Malcangi, G.; Trilli, I.; Inchingolo, F.; Palermo, A.; Inchingolo, A.D. The Effectiveness of Curcumin in Treating Oral Mucositis Related to Radiation and Chemotherapy: A Systematic Review. *Antioxidants (Basel)* **2024**, *13*, 1160, doi:10.3390/antiox13101160.
151. Adamo, D.; Gasparro, R.; Marenzi, G.; Mascolo, M.; Cervaio, M.; Cerciello, G.; De Novellis, D.; Mignogna, M.D. Amyloidoma of the Tongue: Case Report, Surgical Management, and Review of the Literature. *J Oral Maxillofac Surg* **2020**, *78*, 1572–1582, doi:10.1016/j.joms.2020.04.022.
152. Scarano, A.; Rapone, B.; Amuso, D.; Inchingolo, F.; Lorusso, F. Hyaluronic Acid Fillers Enriched with Glycine and Proline in Eyebrow Augmentation Procedure. *Aesthetic Plast Surg* **2022**, *46*, 419–428, doi:10.1007/s00266-021-02412-2.
153. Expert Consensus on Pediatric Orthodontic Therapies of Malocclusions in Children - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/38627388/> (accessed on 17 December 2024).
154. Wiedel, A.-P. FIXED OR REMOVABLE APPLIANCE FOR EARLY ORTHODONTIC TREATMENT OF FUNCTIONAL ANTERIOR CROSSBITE. *Swed Dent J Suppl* **2015**, *10*, 72.
155. Wiedel, A.-P.; Bondemark, L. Fixed versus Removable Orthodontic Appliances to Correct Anterior Crossbite in the Mixed Dentition--a Randomized Controlled Trial. *Eur J Orthod* **2015**, *37*, 123–127, doi:10.1093/ejo/cju005.
156. The Effects of Myofunctional Appliance Treatment on the Perioral and Masticatory Muscles in Class II, Division 1 Patients - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/20552097/> (accessed on 10 December 2024).
157. Balzanelli, M.G.; Distratis, P.; Dipalma, G.; Vimercati, L.; Catucci, O.; Amatulli, F.; Cefalo, A.; Lazzaro, R.; Palazzo, D.; Aityan, S.K.; et al. Immunity Profiling of COVID-19 Infection, Dynamic Variations of Lymphocyte Subsets, a Comparative Analysis on Four Different Groups. *Microorganisms* **2021**, *9*, 2036, doi:10.3390/microorganisms9102036.
158. Rafflenbeul, F.; Hanriat, C.; Lefebvre, F.; Renkema, A.-M.; Bolender, Y. How Do General Dental Practitioners Perceive and Deal with Orthodontic Bonded Retainers? *Am J Orthod Dentofacial Orthop* **2021**, *160*, e1–e8, doi:10.1016/j.ajodo.2020.12.018.
159. Sambale, J.; Jablonski-Momeni, A.; Korbmacher-Steiner, H.M. Impact of Initial Lip Competence on the Outcome of Class II Functional Appliances Therapy. *Clin Oral Investig* **2024**, *28*, 126, doi:10.1007/s00784-024-05511-x.
160. Impact of Oral Myofunctional Therapy on Orofacial Myofunctional Status and Tongue Strength in Patients with Tongue Thrust - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/33113529/> (accessed on 17 December 2024).
161. Inchingolo, A.D.; Inchingolo, A.M.; Bordea, I.R.; Xhajanka, E.; Romeo, D.M.; Romeo, M.; Zappone, C.M.F.; Malcangi, G.; Scarano, A.; Lorusso, F.; et al. The Effectiveness of Osseodensification Drilling Protocol for Implant Site Os-

- teotomy: A Systematic Review of the Literature and Meta-Analysis. *Materials (Basel)* **2021**, *14*, 1147, doi:10.3390/ma14051147.
162. Autologous Fat Grafting in Facial Volumetric Restoration - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/25974786/> (accessed on 17 December 2024).
 163. The Eruption Guidance Myofunctional Appliances: How It Works, How to Use It - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/6593284/> (accessed on 10 December 2024).
 164. The Effectiveness of Autologous Platelet Concentrates in the Clinical and Radiographic Healing after Endodontic Surgery: A Systematic Review Available online: <https://www.mdpi.com/1996-1944/16/22/7187> (accessed on 17 December 2024).
 165. Lanteri, V.; Cagetti, M.G.; Ugolini, A.; Gaffuri, F.; Maspero, C.; Abate, A. Skeletal and Dento-Alveolar Changes Obtained with Customised and Preformed Eruption Guidance Appliances after 1-Year Treatment in Early Mixed Dentition. *Eur J Paediatr Dent* **2023**, *24*, 180–187, doi:10.23804/ejpd.2023.1727.
 166. R Drodge, D.; Staines, K.; Shipley, D. Skin Cancer - What General Dental Practitioners Should Look For. *Br Dent J* **2024**, *236*, 279–283, doi:10.1038/s41415-024-7084-6.
 167. Wiedel, A.-P.; Bondemark, L. Stability of Anterior Cross-bite Correction: A Randomized Controlled Trial with a 2-Year Follow-Up. *Angle Orthod* **2015**, *85*, 189–195, doi:10.2319/041114-266.1.
 168. Bonazza, V.; Borsani, E.; Buffoli, B.; Parolini, S.; Inchingolo, F.; Rezzani, R.; Rodella, L.F. In Vitro Treatment with Concentrated Growth Factors (CGF) and Sodium Orthosilicate Positively Affects Cell Renewal in Three Different Human Cell Lines. *Cell Biol Int* **2018**, *42*, 353–364, doi:10.1002/cbin.10908.
 169. Micro-Scale Surface Patterning of Titanium Dental Implants by Anodization in the Presence of Modifying Salts Available online: <https://www.mdpi.com/1996-1944/12/11/1753> (accessed on 17 December 2024).
 170. Inchingolo, A.D.; Cazzolla, A.P.; Di Cosola, M.; Greco Lucchina, A.; Santacroce, L.; Charitos, I.A.; Topi, S.; Malcangi, G.; Hazbala, D.; Scarano, A.; et al. The Integumentary System and Its Microbiota between Health and Disease. *J Biol Regul Homeost Agents* **2021**, *35*, 303–321, doi:10.23812/21-2supp1-30.
 171. Caggiano, M.; Gasparro, R.; D'Ambrosio, F.; Pisano, M.; Di Palo, M.P.; Contaldo, M. Smoking Cessation on Periodontal and Peri-Implant Health Status: A Systematic Review. *Dent J (Basel)* **2022**, *10*, 162, doi:10.3390/dj10090162.
 172. Maspero, C.; Abate, A.; Inchingolo, F.; Dolci, C.; Cagetti, M.G.; Tartaglia, G.M. Incidental Finding in Pre-Orthodontic Treatment Radiographs of an Aural Foreign Body: A Case Report. *Children (Basel)* **2022**, *9*, 421, doi:10.3390/children9030421.
 173. Non-Transfusional Hemocomponents: From Biology to the Clinic—A Literature Review Available online: <https://www.mdpi.com/2306-5354/5/2/27> (accessed on 17 December 2024).
 174. Guest, S.S.; McNamara, J.A.; Baccetti, T.; Franchi, L. Improving Class II Malocclusion as a Side-Effect of Rapid Maxillary Expansion: A Prospective Clinical Study. *Am J Orthod Dentofacial Orthop* **2010**, *138*, 582–591, doi:10.1016/j.ajodo.2008.12.026.
 175. Incisor Root Length in Individuals with and without Anterior Open Bite: A Comparative CBCT Study - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/32965383/> (accessed on 17 December 2024).
 176. Sunnak, R.; Johal, A.; Fleming, P.S. Is Orthodontics Prior to 11 Years of Age Evidence-Based? A Systematic Review and Meta-Analysis. *J Dent* **2015**, *43*, 477–486, doi:10.1016/j.jdent.2015.02.003.
 177. Inchingolo, F.; Hazbala, D.; Inchingolo, A.D.; Malcangi, G.; Marinelli, G.; Mancini, A.; Maggiore, M.E.; Bordea, I.R.; Scarano, A.; Farronato, M.; et al. Innovative Concepts and Recent Breakthrough for Engineered Graft and Constructs for Bone Regeneration: A Literature Systematic Review. *Materials (Basel)* **2022**, *15*, 1120, doi:10.3390/ma15031120.
 178. Mellion, Z.J.; Behrents, R.G.; Johnston, L.E. The Pattern of Facial Skeletal Growth and Its Relationship to Various Common Indexes of Maturation. *Am J Orthod Dentofacial Orthop* **2013**, *143*, 845–854, doi:10.1016/j.ajodo.2013.01.019.
 179. Santacroce, L.; Sardaro, N.; Topi, S.; Pettini, F.; Bottalico, L.; Cantore, S.; Cascella, G.; Del Prete, R.; Dipalma, G.; Inchingolo, F. The Pivotal Role of Oral Microbiota in Health and Disease. *J Biol Regul Homeost Agents* **2020**, *34*, 733–737, doi:10.23812/20-127-L-45.
 180. Efficacy of Elastodontic Devices in Overjet and Overbite Reduction Assessed by Computer-Aid Evaluation - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/34001097/> (accessed on 10 December 2024).
 181. Abdelmagid, S.M.E.; Abass, S.K. Knowledge and Practice towards Early Orthodontic Problems among General Dentists and Paediatric Dentists. *J Orthod* **2023**, *50*, 39–44, doi:10.1177/14653125221105905.
 182. Alhoraibi, L.; Alvetro, L.; Al-Jewair, T. Long-Term Effects of the Forsus Device in Class II Division I Patients Treated at Pre-Peak, Peak, and Post-Peak Growth Periods: A Retrospective Study. *Int Orthod* **2020**, *18*, 451–460, doi:10.1016/j.ortho.2020.07.003.
 183. Pairatchawan, N.; Viteporn, S.; Thongudomporn, U. Mandibular Incisor Root Volume Changes between Anterior Bite Planes Fabricated from Acrylic Resin and Thermoplastic Materials: A Prospective Randomized Clinical Trial. *Angle Orthod* **2022**, *92*, 755–763, doi:10.2319/021622-141.1.
 184. Maspero, C.; Cappella, A.; Dolci, C.; Cagetti, M.G.; Inchingolo, F.; Sforza, C. Is Orthodontic Treatment with Micro-perforations Worth It? A Scoping Review. *Children (Basel)* **2022**, *9*, 208, doi:10.3390/children9020208.
 185. Elastodontic Appliance Assisted Fixed Appliance Treatment: A New Two-Phase Protocol for Extraction Cases - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/31223070/> (accessed on 10 December 2024).
 186. Gasparro, R.; Adamo, D.; Masucci, M.; Sammartino, G.; Mignogna, M.D. Use of Injectable Platelet-Rich Fibrin in the Treatment of Plasma Cell Mucositis of the Oral Cavity Refractory to Corticosteroid Therapy: A Case Report. *Dermatol Ther* **2019**, *32*, e13062, doi:10.1111/dth.13062.
 187. Rapone, B.; Inchingolo, A.D.; Trasarti, S.; Ferrara, E.; Qorri, E.; Mancini, A.; Montemurro, N.; Scarano, A.; Inchingolo, A.M.; Dipalma, G.; et al. Long-Term Outcomes of Implants Placed in Maxillary Sinus Floor Augmentation with Porous Fluorohydroxyapatite (Algipore® FRIOS®) in Comparison with Anorganic Bovine Bone (Bio-Oss®) and Platelet Rich Plasma (PRP): A Retrospective Study. *J Clin Med* **2022**, *11*, 2491, doi:10.3390/jcm11092491.
 188. Platelet-rich Plasma Counteracts Detrimental Effect of High-glucose Concentrations on Mesenchymal Stem Cells from Bichat Fat Pad - D'Esposito - 2020 - Journal of Tissue Engineering and Regenerative Medicine - Wiley Online Library Available online: <https://onlinelibrary.wiley.com/doi/full/10.1002/term.3032> (accessed on 17 December 2024).
 189. Behnia, H.; Mohammad-Rahimi, H.; Behnaz, M. Treatment of an Adult Skeletal Class III Patient with Surgically Assisted Rapid Palatal Expansion and Facemask. *Case Rep Dent* **2019**, *2019*, 8251903, doi:10.1155/2019/8251903.
 190. True Vertical Changes in Patients with Skeletal Class III Malocclusion after Nonsurgical Orthodontic Treatment: A Retrospective Study Comparing Different Vertical Facial Patterns - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/35784149/> (accessed on 17 December 2024).
 191. UK Dentists' Attitudes and Behaviour towards Atraumatic Restorative Treatment for Primary Teeth - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/16184117/> (accessed on 17 December 2024).
 192. Laforgia, A.; Inchingolo, A.D.; Piras, F.; Colonna, V.; Giorgio, R.V.; Carone, C.; Rapone, B.; Malcangi, G.; Inchingolo, A.M.; Inchingolo, F.; et al. Therapeutic Strategies and Genetic Implications for Periodontal Disease Management: A Systematic Review. *Int J Mol Sci* **2024**, *25*, 7217, doi:10.3390/ijms25137217.
 193. Canfora, F.; Calabria, E.; Cuocolo, R.; Ugga, L.; Buono, G.; Marenzi, G.; Gasparro, R.; Pecoraro, G.; Aria, M.;

- D'Aniello, L.; et al. Burning Fog: Cognitive Impairment in Burning Mouth Syndrome. *Front Aging Neurosci* **2021**, *13*, 727417, doi:10.3389/fnagi.2021.727417.
194. Inchingolo, F.; Inchingolo, A.D.; Latini, G.; Trilli, I.; Ferrante, L.; Nardelli, P.; Malcangi, G.; Inchingolo, A.M.; Mancini, A.; Palermo, A.; et al. The Role of Curcumin in Oral Health and Diseases: A Systematic Review. *Antioxidants (Basel)* **2024**, *13*, 660, doi:10.3390/antiox13060660.
195. Tecco, S.; Quinzi, V.; Nota, A.; Giovannozzi, A.; Abed, M.R.; Marzo, G. Electromyography-Guided Adjustment of an Occlusal Appliance: Effect on Pain Perceptions Related with Temporomandibular Disorders. A Controlled Clinical Study. *Diagnostics (Basel)* **2021**, *11*, 667, doi:10.3390/diagnostics11040667.
196. Cui, Y.; Huang, T.; Yu, Z.; Zhou, S.; Zhang, L.; Han, Y.; Li, S.; Wang, Q.; Tian, Y. Mechanical Characterization and Structural Analysis of Elastodontic Appliances under Intra-oral and Artificial Aging Conditions. *BMC Oral Health* **2024**, *24*, 1337, doi:10.1186/s12903-024-05101-z.
197. Ahn, H.-W.; Seo, D.-H.; Kim, S.-H.; Park, Y.-G.; Chung, K.-R.; Nelson, G. Morphologic Evaluation of Dentoalveolar Structures of Mandibular Anterior Teeth during Augmented Corticotomy-Assisted Decompensation. *Am J Orthod Dentofacial Orthop* **2016**, *150*, 659–669, doi:10.1016/j.ajodo.2016.03.027.
198. Myofunctional Orofacial Examination Tests: A Literature Review - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/37268963/> (accessed on 17 December 2024).
199. Eruption Guidance Appliance Effects in the Treatment of Class II, Division 1 Malocclusions - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/10672211/> (accessed on 10 December 2024).
200. Gasparro, R.; Sammartino, G.; Mariniello, M.; di Lauro, A.E.; Spagnuolo, G.; Mareni, G. Treatment of Periodontal Pockets at the Distal Aspect of Mandibular Second Molar after Surgical Removal of Impacted Third Molar and Application of L-PRF: A Split-Mouth Randomized Clinical Trial. *Quintessence Int* **2020**, *51*, 204–211, doi:10.3290/j.qi.a43947.
201. Goldoni, R.; Sclaro, A.; Bocalari, E.; Dolci, C.; Scarano, A.; Inchingolo, F.; Ravazzani, P.; Muti, P.; Tartaglia, G. Malignancies and Biosensors: A Focus on Oral Cancer Detection through Salivary Biomarkers. *Biosensors (Basel)* **2021**, *11*, 396, doi:10.3390/bios11100396.
202. Eruption Guidance Appliance: A Review - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/25102468/> (accessed on 10 December 2024).
203. Inchingolo, F.; Inchingolo, A.D.; Palumbo, I.; Guglielmo, M.; Balestrieri, L.; Casamassima, L.; Ciccarese, D.; Marrotti, P.; Mancini, A.; Palermo, A.; et al. Management of Physiological Gingival Melanosis by Diode Laser Depigmentation versus Surgical Scalpel: A Systematic Review. *Dentistry Review* **2024**, *4*, 100146, doi:10.1016/j.dentre.2024.100146.
204. Ciavarella, D.; Tepedino, M.; Gallo, C.; Montaruli, G.; Zhuravivska, K.; Coppola, L.; Troiano, G.; Chimenti, C.; Laurenziello, M.; Lo Russo, L. Post-Orthodontic Position of Lower Incisors and Gingival Recession: A Retrospective Study. *J Clin Exp Dent* **2017**, *9*, e1425–e1430, doi:10.4317/jced.54261.
205. Myrland, R.; Dubland, M.; Keski-Nisula, K.; Kerosuo, H. One Year Treatment Effects of the Eruption Guidance Appliance in 7- to 8-Year-Old Children: A Randomized Clinical Trial. *Eur J Orthod* **2015**, *37*, 128–134, doi:10.1093/ejo/cju014.
206. Hamidaddin, M.A. Optimal Treatment Timing in Orthodontics: A Scoping Review. *Eur J Dent* **2024**, *18*, 86–96, doi:10.1055/s-0043-1768974.
207. Światała, J.; Sycińska-Dziarnowska, M.; Spagnuolo, G.; Woźniak, K.; Mańkowska, K.; Szyszka-Sommerfeld, L. Oral Microbiota in Children with Cleft Lip and Palate: A Systematic Review. *J Clin Med* **2023**, *12*, 5867, doi:10.3390/jcm12185867.
208. Balzanelli, M.G.; Distratis, P.; Catucci, O.; Cefalo, A.; Lazzaro, R.; Inchingolo, F.; Tomassone, D.; Aityan, S.K.; Ballini, A.; Nguyen, K.C.D.; et al. Mesenchymal Stem Cells: The Secret Children's Weapons against the SARS-CoV-2 Lethal Infection. *Applied Sciences* **2021**, *11*, 1696, doi:10.3390/app11041696.
209. Bishara, S.E.; Ziaja, R.R. Functional Appliances: A Review. *Am J Orthod Dentofacial Orthop* **1989**, *95*, 250–258, doi:10.1016/0889-5406(89)90055-3.
210. Malcangi, G.; Inchingolo, A.D.; Inchingolo, A.M.; Santacroce, L.; Marinelli, G.; Mancini, A.; Vimercati, L.; Maggiore, M.E.; D'Oria, M.T.; Hazballa, D.; et al. COVID-19 Infection in Children, Infants and Pregnant Subjects: An Overview of Recent Insights and Therapies. *Microorganisms* **2021**, *9*, 1964, doi:10.3390/microorganisms9091964.
211. Inchingolo, F.; Dipalma, G.; Paduanelli, G.; De Oliveira, L.A.; Inchingolo, A.M.; Georgakopoulos, P.I.; Inchingolo, A.D.; Malcangi, G.; Athanasios, E.; Fotopoulou, E.; et al. Computer-Based Quantification of an Atraumatic Sinus Augmentation Technique Using CBCT. *J Biol Regul Homeost Agents* **2019**, *33*, 31–39. DENTAL SUPPLEMENT.
212. Balzanelli, M.; Distratis, P.; Catucci, O.; Amatulli, F.; Cefalo, A.; Lazzaro, R.; Aityan, K.S.; Dalagni, G.; Nico, A.; De Michele, A.; et al. Clinical and Diagnostic Findings in COVID-19 Patients: An Original Research from SG Moscati Hospital in Taranto Italy. *J Biol Regul Homeost Agents* **2021**, *35*, 171–183, doi:10.23812/20-605-A.
213. History of Functional Appliances - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/16905051/> (accessed on 10 December 2024).
214. Dioguardi, M.; Di Gioia, G.; Illuzzi, G.; Ciavarella, D.; Laneve, E.; Troiano, G.; Lo Muzio, L. Passive Ultrasonic Irrigation Efficacy in the Vapor Lock Removal: Systematic Review and Meta-Analysis. *ScientificWorldJournal* **2019**, *2019*, 6765349, doi:10.1155/2019/6765349.
215. Mandibular Growth Changes and Maturation of Cervical Vertebrae--a Longitudinal Cephalometric Study - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/3164596/> (accessed on 10 December 2024).
216. Ciavarella, D.; Parziale, V.; Mastrovincenzo, M.; Palazzo, A.; Sabatucci, A.; Suriano, M.M.; Bossù, M.; Cazzolla, A.P.; Lo Muzio, L.; Chimenti, C. Condylar Position Indicator and T-Scan System II in Clinical Evaluation of Temporomandibular Intracapsular Disease. *J Craniomaxillofac Surg* **2012**, *40*, 449–455, doi:10.1016/j.jcms.2011.07.021.
217. Inchingolo, A.M.; Fatone, M.C.; Malcangi, G.; Avantario, P.; Piras, F.; Patano, A.; Di Pede, C.; Netti, A.; Ciocia, A.M.; De Ruvo, E.; et al. Modifiable Risk Factors of Non-Syndromic Orofacial Clefts: A Systematic Review. *Children (Basel)* **2022**, *9*, 1846, doi:10.3390/children9121846.
218. Minimally Invasive Orthodontics: Elastodontic Therapy in a Growing Patient Affected by Dentinogenesis Imperfecta - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/28736605/> (accessed on 10 December 2024).
219. Modified Periosteal Inhibition (MPI) Technique for Extraction Sockets: A Case Series Report Available online: <https://www.mdpi.com/2076-3417/12/23/12292> (accessed on 10 December 2024).
220. Polizzi, A.; Quinzi, V.; Santonocito, S.; Palazzo, G.; Marzo, G.; Isola, G. Analysis of Earlier Temporomandibular Joint Disorders in JIA Patients: A Clinical Report. *Healthcare (Basel)* **2021**, *9*, 1140, doi:10.3390/healthcare9091140.
221. Minetti, E.; Palermo, A.; Malcangi, G.; Inchingolo, A.D.; Mancini, A.; Dipalma, G.; Inchingolo, F.; Patano, A.; Inchingolo, A.M. Dentin, Dentin Graft, and Bone Graft: Microscopic and Spectroscopic Analysis. *J Funct Biomater* **2023**, *14*, 272, doi:10.3390/jfb14050272.
222. Pasciuti, E.; Coloccia, G.; Inchingolo, A.D.; Patano, A.; Ceci, S.; Bordea, I.R.; Cardarelli, F.; Di Venere, D.; Inchingolo, F.; Dipalma, G. Deep Bite Treatment with Aligners: A New Protocol. *Applied Sciences* **2022**, *12*, 6709, doi:10.3390/app12136709.
223. Inchingolo, A.M.; Malcangi, G.; Costa, S.; Fatone, M.C.; Avantario, P.; Campanelli, M.; Piras, F.; Patano, A.; Ferrara, I.; Di Pede, C.; et al. Tooth Complications after Orthodontic Miniscrews Insertion. *Int J Environ Res Public Health* **2023**, *20*, 1562, doi:10.3390/ijerph20021562.
224. Alouini, O.; Rollet, D. (Morphological and functional perioral changes during early treatment of Class II division 1 malocclusions using EF Line® functional education devices). *Orthod Fr* **2018**, *89*, 289–306, doi:10.1051/orthod-

- fr/2018025.
225. Inchingolo, A.D.; Patano, A.; Coloccia, G.; Ceci, S.; Inchingolo, A.M.; Marinelli, G.; Malcangi, G.; Di Pede, C.; Garibaldi, M.; Ciocia, A.M.; et al. Treatment of Class III Malocclusion and Anterior Crossbite with Aligners: A Case Report. *Medicina (Kaunas)* **2022**, *58*, 603, doi:10.3390/medicina58050603.
 226. Alcohol-Free Essential Oils Containing Mouthrinse Efficacy on Three-Day Supragingival Plaque Regrowth: A Randomized Crossover Clinical Trial - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/28359280/> (accessed on 17 December 2024).
 227. Contaldo, M.; Fusco, A.; Stiuso, P.; Lama, S.; Gravina, A.G.; Itró, A.; Federico, A.; Itró, A.; Dipalma, G.; Inchingolo, F.; et al. Oral Microbiota and Salivary Levels of Oral Pathogens in Gastro-Intestinal Diseases: Current Knowledge and Exploratory Study. *Microorganisms* **2021**, *9*, 1064, doi:10.3390/microorganisms9051064.
 228. Simoes, W.A.; Petrovic, A.; Stutzmann, J. Modus Operandi of Planas' Appliance. *J Clin Pediatr Dent* **1992**, *16*, 79–85.
 229. Mancini, A.; Chirico, F.; Inchingolo, A.M.; Piras, F.; Colonna, V.; Marotti, P.; Carone, C.; Inchingolo, A.D.; Inchingolo, F.; Dipalma, G. Osteonecrosis of the Jaws Associated with Herpes Zoster Infection: A Systematic Review and a Rare Case Report. *Microorganisms* **2024**, *12*, 1506, doi:10.3390/microorganisms12081506.
 230. Stavridi, R.; Ahlgren, J. Muscle Response to the Oral-Screen Activator. An EMG Study of the Masseter, Buccinator, and Mentalis Muscles. *Eur J Orthod* **1992**, *14*, 339–349, doi:10.1093/ejo/14.5.339.
 231. Harrison, J.E.; O'Brien, K.D.; Worthington, H.V. Orthodontic Treatment for Prominent Upper Front Teeth in Children. *Cochrane Database Syst Rev* **2007**, CD003452, doi:10.1002/14651858.CD003452.pub2.
 232. Fichera, G.; Martina, S.; Palazzo, G.; Musumeci, R.; Leonardi, R.; Isola, G.; Lo Giudice, A. New Materials for Orthodontic Interceptive Treatment in Primary to Late Mixed Dentition. A Retrospective Study Using Elastodontic Devices. *Materials (Basel)* **2021**, *14*, 1695, doi:10.3390/ma14071695.
 233. Rigenera® Autologous Micrografts in Oral Regeneration: Clinical, Histological, and Radiographical Evaluations Available online: <https://www.mdpi.com/2076-3417/10/15/5084> (accessed on 17 December 2024).
 234. Patano, A.; Inchingolo, A.M.; Cardarelli, F.; Inchingolo, A.D.; Viapiano, F.; Giotta, M.; Bartolomeo, N.; Di Venere, D.; Malcangi, G.; Minetti, E.; et al. Effects of Elastodontic Appliance on the Pharyngeal Airway Space in Class II Malocclusion. *J Clin Med* **2023**, *12*, 4280, doi:10.3390/jcm12134280.
 235. Ballini, A.; Cantore, S.; Saini, R.; Pettini, F.; Fotopoulou, E.A.; Saini, S.R.; Georgakopoulos, I.P.; Dipalma, G.; Gargiulo Isacco, C.; Inchingolo, F. Effect of Activated Charcoal Probiotic Toothpaste Containing Lactobacillus Paracasei and Xylitol on Dental Caries: A Randomized and Controlled Clinical Trial. *J Biol Regul Homeost Agents* **2019**, *33*, 977–981.
 236. Vermesan, D.; Prejbeanu, R.; Poenaru, D.V.; Petrescu, H.; Apostol, E.; Inchingolo, F.; Dipalma, G.; Abbinante, A.; Caprio, M.; Potenza, M.A.; et al. Do Intramedullary Implants Improve Survival in Elderly Patients with Trochanteric Fractures? A Retrospective Study. *Clin Ter* **2015**, *166*, e140-145, doi:10.7417/CT.2015.1844.
 237. Inchingolo, F.; Tatullo, M.; Abenavoli, F.M.; Marrelli, M.; Inchingolo, A.D.; Corelli, R.; Inchingolo, A.M.; Dipalma, G. Upper Eyelid Reconstruction: A Short Report of an Eyelid Defect Following a Thermal Burn. *Head Face Med* **2009**, *5*, 26, doi:10.1186/1746-160X-5-26.
 238. Saccomanno, S.; Quinzi, V.; Paskay, L.C.; Caccone, L.; Rasicci, L.; Fani, E.; Di Giandomenico, D.; Marzo, G. Evaluation of the Loss of Strength, Resistance, and Elasticity in the Different Types of Intraoral Orthodontic Elastics (IOE): A Systematic Review of the Literature of In Vitro Studies. *JPM* **2023**, *13*, 1495, doi:10.3390/jpm13101495.
 239. Post-Orthodontic Lower Incisor Inclination and Gingival Recession—a Systematic Review - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/29911278/> (accessed on 17 December 2024).
 240. Janson, G.; de Souza, J.E.P.; de Freitas, M.R.; Henriques, J.F.C.; Cavalcanti, C.T. Occlusal Changes of Class II Malocclusion Treatment between Fränkel and the Eruption Guidance Appliances. *Angle Orthod* **2004**, *74*, 521–525, doi:10.1043/0003-3219(2004)074<0521:OCOCIM>2.0.CO;2.
 241. Embryotoxicity Assays for Leached Components from Dental Restorative Materials I Reproductive Biology and Endocrinology I Full Text Available online: <https://rbej.biomedcentral.com/articles/10.1186/1477-7827-9-136> (accessed on 17 December 2024).
 242. Borsani, E.; Buffoli, B.; Bonazza, V.; Brunelli, G.; Monini, L.; Inchingolo, F.; Ballini, A.; Rezzani, R.; Rodella, L.F. In Vitro Effects of Concentrated Growth Factors (CGF) on Human SH-SY5Y Neuronal Cells. *Eur Rev Med Pharmacol Sci* **2020**, *24*, 304–314, doi:10.26355/eurrev_202001_19927.
 243. Pacifici, L.; Santacroce, L.; Dipalma, G.; Haxhirekha, K.; Topi, S.; Cantore, S.; Altini, V.; Pacifici, A.; De Vito, D.; Pettini, F.; et al. Gender Medicine: The Impact of Probiotics on Male Patients. *Clin Ter* **2021**, *171*, e8–e15, doi:10.7417/CT.2021.2274.
 244. Inchingolo, A.D.; Pezzolla, C.; Patano, A.; Ceci, S.; Ciocia, A.M.; Marinelli, G.; Malcangi, G.; Montenegro, V.; Cardarelli, F.; Piras, F.; et al. Experimental Analysis of the Use of Cranial Electromyography in Athletes and Clinical Implications. *Int J Environ Res Public Health* **2022**, *19*, 7975, doi:10.3390/ijerph19137975.
 245. Contaldo, M.; Itró, A.; Lajolo, C.; Gioco, G.; Inchingolo, F.; Serpico, R. Overview on Osteoporosis, Periodontitis and Oral Dysbiosis: The Emerging Role of Oral Microbiota. *Applied Sciences* **2020**, *10*, 6000, doi:10.3390/app10176000.
 246. Wahl, N. Orthodontics in 3 Millennia. Chapter 9: Functional Appliances to Midcentury. *Am J Orthod Dentofacial Orthop* **2006**, *129*, 829–833, doi:10.1016/j.ajodo.2006.03.019.
 247. Inchingolo, F.; Tatullo, M.; Pacifici, A.; Gargari, M.; Inchingolo, A.D.; Inchingolo, A.M.; Dipalma, G.; Marrelli, M.; Abenavoli, F.M.; Pacifici, L. Use of Dermal-Fat Grafts in the Post-Oncological Reconstructive Surgery of Atrophies in the Zygomatic Region: Clinical Evaluations in the Patients Undergone to Previous Radiation Therapy. *Head Face Med* **2012**, *8*, 33, doi:10.1186/1746-160X-8-33.
 248. Compilato, D.; Cirillo, N.; Termine, N.; Kerr, A.R.; Paderini, C.; Ciavarella, D.; Campisi, G. Long-Standing Oral Ulcers: Proposal for a New “S-C-D Classification System.” *J Oral Pathol Med* **2009**, *38*, 241–253, doi:10.1111/j.1600-0714.2008.00722.x.
 249. Malcangi, G.; Patano, A.; Palmieri, G.; Di Pede, C.; Latini, G.; Inchingolo, A.D.; Hazbala, D.; de Ruvo, E.; Garofoli, G.; Inchingolo, F.; et al. Maxillary Sinus Augmentation Using Autologous Platelet Concentrates (Platelet-Rich Plasma, Platelet-Rich Fibrin, and Concentrated Growth Factor) Combined with Bone Graft: A Systematic Review. *Cells* **2023**, *12*, 1797, doi:10.3390/cells12131797.
 250. Laudadio, C.; Inchingolo, A.D.; Malcangi, G.; Limongelli, L.; Marinelli, G.; Coloccia, G.; Montenegro, V.; Patano, A.; Inchingolo, F.; Bordea, I.R.; et al. Management of Anterior Open-Bite in the Deciduous, Mixed and Permanent Dentition Stage: A Descriptive Review. *J Biol Regul Homeost Agents* **2021**, *35*, 271–281, doi:10.23812/21-2suppl-27.
 251. Cirulli, N.; Inchingolo, A.D.; Patano, A.; Ceci, S.; Marinelli, G.; Malcangi, G.; Coloccia, G.; Montenegro, V.; Di Pede, C.; Ciocia, A.M.; et al. Innovative Application of Diathermy in Orthodontics: A Case Report. *Int J Environ Res Public Health* **2022**, *19*, 7448, doi:10.3390/ijerph19127448.
 252. Photobiomodulation to Reduce Orthodontic Treatment Time in Adults: A Historical Prospective Study Available online: <https://www.mdpi.com/2076-3417/12/22/11532> (accessed on 10 December 2024).
 253. Adina, S.; Dipalma, G.; Bordea, I.R.; Lucaci, O.; Feurdean, C.; Inchingolo, A.D.; Septimiu, R.; Malcangi, G.; Cantore, S.; Martin, D.; et al. Orthopedic Joint Stability Influences Growth and Maxillary Development: Clinical Aspects. *J Biol Regul Homeost Agents* **2020**, *34*, 747–756, doi:10.23812/20-204-E-52.
 254. De Benedittis, M.; Petrucci, M.; Pastore, L.; Inchingolo, F.; Serpico, R. Nd:YAG Laser for Gingivectomy in Sturge-We-

- ber Syndrome. *J Oral Maxillofac Surg* **2007**, *65*, 314–316, doi:10.1016/j.joms.2006.05.011.
255. Cirulli, N.; Ballini, A.; Cantore, S.; Farronato, D.; Inchingolo, F.; Dipalma, G.; Gatto, M.R.; Alessandri Bonetti, G. MIXED DENTITION SPACE ANALYSIS OF A SOUTHERN ITALIAN POPULATION: NEW REGRESSION EQUATIONS FOR UNERUPTED TEETH. *J Biol Regul Homeost Agents* **2015**, *29*, 515–520.
256. Casu, C.; Mosaico, G.; Natoli, V.; Scarano, A.; Lorusso, F.; Inchingolo, F. Microbiota of the Tongue and Systemic Connections: The Examination of the Tongue as an Integrated Approach in Oral Medicine. *Hygiene* **2021**, *1*, 56–68, doi:10.3390/hygiene1020006.
257. Marinelli, G.; Inchingolo, A.D.; Inchingolo, A.M.; Malcangi, G.; Limongelli, L.; Montenegro, V.; Coloccia, G.; Laudadio, C.; Patano, A.; Inchingolo, F.; et al. White Spot Lesions in Orthodontics: Prevention and Treatment. A Descriptive Review. *J Biol Regul Homeost Agents* **2021**, *35*, 227–240, doi:10.23812/21-2supp1-24.
258. Memè, L.; Notarstefano, V.; Sampalmieri, F.; Orilisi, G.; Quinzi, V. ATR-FTIR Analysis of Orthodontic Invisalign® Aligners Subjected to Various In Vitro Aging Treatments. *Materials (Basel)* **2021**, *14*, 818, doi:10.3390/ma14040818.
259. Termine, N.; Panzarella, V.; Ciavarella, D.; Lo Muzio, L.; D'Angelo, M.; Sardella, A.; Compilato, D.; Campisi, G. Antibiotic Prophylaxis in Dentistry and Oral Surgery: Use and Misuse. *Int Dent J* **2009**, *59*, 263–270.
260. Inchingolo, F.; Cantore, S.; Dipalma, G.; Georgakopoulos, I.; Almasri, M.; Gheno, E.; Motta, A.; Marrelli, M.; Farronato, D.; Ballini, A.; et al. Platelet Rich Fibrin in the Management of Medication-Related Osteonecrosis of the Jaw: A Clinical and Histopathological Evaluation. *J Biol Regul Homeost Agents* **2017**, *31*, 811–816.
261. Tosco, V.; Monterubbiansi, R.; Aranguren, J.; Memè, L.; Putignano, A.; Orsini, G. Evaluation of the Efficacy of Different Irrigation Systems on the Removal of Root Canal Smear Layer: A Scanning Electron Microscopic Study. *Applied Sciences* **2023**, *13*, 149, doi:10.3390/app13010149.
262. Orthodontic Surgical Treatment of Impacted Mandibular Canines: Systematic Review and Case Report Available online: <https://www.mdpi.com/2076-3417/12/16/8008> (accessed on 20 December 2024).
263. Malcangi, G.; Patano, A.; Palmieri, G.; Riccaldo, L.; Pezzolla, C.; Mancini, A.; Inchingolo, A.D.; Di Venere, D.; Piras, F.; Inchingolo, F.; et al. Oral Piercing: A Pretty Risk—A Scoping Review of Local and Systemic Complications of This Current Widespread Fashion. *Int J Environ Res Public Health* **2023**, *20*, 5744, doi:10.3390/ijerph20095744.
264. Montemurro, N.; Pierozzi, E.; Inchingolo, A.M.; Pahwa, B.; De Carlo, A.; Palermo, A.; Scarola, R.; Dipalma, G.; Corsalini, M.; Inchingolo, A.D.; et al. New Biograft Solution, Growth Factors and Bone Regenerative Approaches in Neurosurgery, Dentistry, and Orthopedics: A Review. *Eur Rev Med Pharmacol Sci* **2023**, *27*, 7653–7664, doi:10.26355/eurrev_202308_33419.
265. Inchingolo, F.; Santacroce, L.; Cantore, S.; Ballini, A.; Del Prete, R.; Topi, S.; Saini, R.; Dipalma, G.; Arrigoni, R. Probiotics and EpiCor® in Human Health. *J Biol Regul Homeost Agents* **2019**, *33*, 1973–1979, doi:10.23812/19-543-L.
266. Fourier Transform Infrared Imaging Analysis of Dental Pulp Inflammatory Diseases - Giorgini - 2017 - Oral Diseases - Wiley Online Library Available online: <https://onlinelibrary.wiley.com/doi/full/10.1111/odi.12635> (accessed on 28 May 2024).
267. Lorusso, F.; Inchingolo, F.; Scarano, A. Scientific Production in Dentistry: The National Panorama through a Bibliometric Study of Italian Academies. *Biomed Res Int* **2020**, *2020*, 3468303, doi:10.1155/2020/3468303.
268. Malcangi, G.; Patano, A.; Guglielmo, M.; Sardano, R.; Palmieri, G.; Di Pede, C.; de Ruvo, E.; Inchingolo, A.D.; Mancini, A.; Inchingolo, F.; et al. Precision Medicine in Oral Health and Diseases: A Systematic Review. *J Pers Med* **2023**, *13*, 725, doi:10.3390/jpm13050725.
269. Inchingolo, A.M.; Malcangi, G.; Inchingolo, A.D.; Mancini, A.; Palmieri, G.; Di Pede, C.; Piras, F.; Inchingolo, F.; Dipalma, G.; Patano, A. Potential of Graphene-Functionalized Titanium Surfaces for Dental Implantology: Systematic Review. *Coatings* **2023**, *13*, 725, doi:10.3390/coatings13040725.
270. Predicting the Mandibular Growth Spurt - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/33909876/> (accessed on 10 December 2024).
271. Valeri, C.; Aloisio, A.; Marzo, G.; Costigliola, G.; Quinzi, V. What Is the Impact of Patient Attributes, Implant Characteristics, Surgical Techniques, and Placement Location on the Success of Orthodontic Mini-Implants in Young Adults? A Systematic Review and Meta-Analysis. *Saudi Dent J* **2024**, *36*, 1149–1159, doi:10.1016/j.sdentj.2024.07.013.
272. The Distribution of Dengue Virus Serotype in Quang Nam Province (Vietnam) during the Outbreak in 2018 - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/35162303/> (accessed on 20 December 2024).
273. Inchingolo, F.; Inchingolo, A.M.; Malcangi, G.; De Leonardi, N.; Sardano, R.; Pezzolla, C.; de Ruvo, E.; Di Venere, D.; Palermo, A.; Inchingolo, A.D.; et al. The Benefits of Probiotics on Oral Health: Systematic Review of the Literature. *Pharmaceuticals (Basel)* **2023**, *16*, 1313, doi:10.3390/ph16091313.
274. Minetti, E.; Palermo, A.; Savadori, P.; Patano, A.; Inchingolo, A.D.; Rapone, B.; Malcangi, G.; Inchingolo, F.; Dipalma, G.; Tartaglia, F.C.; et al. Socket Preservation Using Dentin Mixed with Xenograft Materials: A Pilot Study. *Materials (Basel)* **2023**, *16*, 4945, doi:10.3390/ma16144945.
275. Balzanelli, M.G.; Distratis, P.; Dipalma, G.; Vimercati, L.; Inchingolo, A.D.; Lazzaro, R.; Aityan, S.K.; Maggiore, M.E.; Mancini, A.; Laforgia, R.; et al. Sars-CoV-2 Virus Infection May Interfere CD34+ Hematopoietic Stem Cells and Megakaryocyte-Erythroid Progenitors Differentiation Contributing to Platelet Defection towards Insurgence of Thrombocytopenia and Thrombophilia. *Microorganisms* **2021**, *9*, 1632, doi:10.3390/microorganisms9081632.
276. Comparative Analysis of Deformation of Two Implant/Abutment Connection Systems during Implant Insertion. An In Vitro Study - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/15920445/> (accessed on 28 May 2024).
277. Inchingolo, A.D.; Ferrara, I.; Viapiano, F.; Netti, A.; Campanelli, M.; Buongiorno, S.; Latini, G.; Carpentiere, V.; Ciocia, A.M.; Ceci, S.; et al. Rapid Maxillary Expansion on the Adolescent Patient: Systematic Review and Case Report. *Children (Basel)* **2022**, *9*, 1046, doi:10.3390/children9071046.
278. Raloxifene Covalently Bonded to Titanium Implants by Interfacing with (3-Aminopropyl)-Triethoxysilane Affects Osteoblast-like Cell Gene Expression - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/17166392/> (accessed on 20 December 2024).
279. Puttaravuttiporn, P.; Wongsuwanlert, M.; Charoemratrote, C.; Leethanakul, C. Volumetric Evaluation of Root Resorption on the Upper Incisors Using Cone Beam Computed Tomography after 1 Year of Orthodontic Treatment in Adult Patients with Marginal Bone Loss. *Angle Orthod* **2018**, *88*, 710–718, doi:10.2319/121717-868.1.
280. Kim, D.M.; Bassir, S.H. When Is Cone-Beam Computed Tomography Imaging Appropriate for Diagnostic Inquiry in the Management of Inflammatory Periodontitis? An American Academy of Periodontology Best Evidence Review. *J Periodontol* **2017**, *88*, 978–998, doi:10.1902/jop.2017.160505.
281. Inchingolo, A.D.; Inchingolo, A.M.; Bordea, I.R.; Malcangi, G.; Xhajanka, E.; Scarano, A.; Lorusso, F.; Farronato, M.; Tartaglia, G.M.; Isacco, C.G.; et al. SARS-CoV-2 Disease through Viral Genomic and Receptor Implications: An Overview of Diagnostic and Immunology Breakthroughs. *Microorganisms* **2021**, *9*, 793, doi:10.3390/microorganisms9040793.
282. Laforgia, A.; Inchingolo, A.D.; Piras, F.; Colonna, V.; Giorgio, R.V.; Carone, C.; Rapone, B.; Malcangi, G.; Inchingolo, A.M.; Inchingolo, F.; et al. Therapeutic Strategies and Genetic Implications for Periodontal Disease Management: A Systematic Review. *Int J Mol Sci* **2024**, *25*, 7217, doi:10.3390/ijms25137217.
283. The Impact of COVID-19 on the Scientific Production Spread: A Five-Month Bibliometric Report of the World-

- wide Research Community Available online: <https://ricerca.uniba.it/handle/11586/380010> (accessed on 20 December 2024).
284. The Effects of Erbium-Doped Yttrium Aluminum Garnet Laser (Er: YAG) Irradiation on Sandblasted and Acid-Etched (SLA) Titanium, an In Vitro Study - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/32961798/> (accessed on 20 December 2024).
285. The Effectiveness of Autologous Demineralized Tooth Graft for the Bone Ridge Preservation: A Systematic Review of the Literature - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/34281325/> (accessed on 20 December 2024).
286. Scarano, A.; Inchingolo, F.; Rapone, B.; Lucchina, A.G.; Qorri, E.; Lorusso, F. Role of Autologous Platelet Gel (APG) in Bone Healing: A Rabbit Study. *Applied Sciences* **2021**, *11*, 395, doi:10.3390/app11010395.
287. Restoration of Severe Bone and Soft Tissue Atrophy by Means of a Xenogenic Bone Sheet (Flex Cortical Sheet): A Case Report Available online: <https://www.mdpi.com/2076-3417/13/2/692> (accessed on 10 December 2024).
288. What We Have Learned for the Future about COVID-19 and Healthcare Management of It? - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/33525232/> (accessed on 20 December 2024).
289. Use of Platelet Rich Fibrin and Bio-OSS/SINT-Oss for Implant-Prosthetic Rehabilitation in Maxillary Atrophy with Sinus Pathology: A 48-Month Follow-up - F Inchingolo, A Ballini, SA Mura, D Farronato, N Cirulli, F Pettini, E Gheno, D Vermesan, P Pederzoli, G Resta, M Caprio, F Muollo, G Marinelli, AD Inchingolo, G Malcangi, S Cantore, M Del Corso, M De Benedittis, AM Inchingolo, M Serafini, S Diteodoro, F Schinco, R Cagiano, D De Vito, R Cortelazzi, G Dipalma, 2015 Available online: <https://journals.sagepub.com/doi/full/10.1177/1721727X15578346> (accessed on 20 December 2024).
290. Contaldo, M.; De Rosa, A.; Nucci, L.; Ballini, A.; Malacrino, D.; La Noce, M.; Inchingolo, F.; Xhajanka, E.; Ferati, K.; Bexheti-Ferati, A.; et al. Titanium Functionalized with Polylysine Homopolymers: In Vitro Enhancement of Cells Growth. *Materials (Basel)* **2021**, *14*, 3735, doi:10.3390/ma14133735.
291. Caruso S, Nota A, Caruso S, Severino M, Gatto R, Meuli S, Mattei A, Tecco S. Mandibular advancement with clear aligners in the treatment of skeletal Class II. A retrospective controlled study. *Eur J Paediatr Dent.* **2021**;22(1):26-30. doi: 10.23804/ejpd.2021.22.01.05. PMID: 33719479.
292. Nagni Matteo, Severino Marco, Cotticelli Ciro, Bussolari Elena, Grechi Camilla, Collina giorgio, Oddi Carlo. Bi-maxillary rehabilitation using the all-on-four method in patients with hypertension: case report and literature review. *Oral and Implantology*, **15**(1), 44-49.
293. Gabriele Izzi, Francesca Izzi, Graziano Frijio, Myriam Romito, Clarissa Caluigi Benvenuti, Marco Severino, Matteo Nagni. Orthodontic approach in patients with osteogenesis imperfecta. *Oral and Implantology*, **15**(1), 29-31.