

Comparison of palatal expanders and their efficacy: a narrative review

Lucia Memè^{1*}
Fabrizio Bambini^{1*}
Francesco Sampalmieri¹
Carmela Pezzolla²
Irma Trilli²
Francesco Sabatelli²
Ioana Roxana Bordea^{3*}
Gustavo Vincentis Oliveira Fernandes⁴
Erda Qorri⁵
Lwai Almasri⁷
Marwa Alkassab⁸
Maher Almasri⁸
Andrea Palermo⁶

¹ D.I.S.C.O. School of Dentistry, Polytechnic University of Marche, Ancona, Italy.

² Department of Interdisciplinary Medicine, University of Bari "Aldo Moro" Bari, Italy.

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

⁴ Missouri School of Dentistry & Oral Health, A. T. Still University, St. Louis, MO, United States

⁵ Department of Dentistry, Faculty of Medical Sciences, Albanian University, Tirana, Albania

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

*These authors contributed equally as first authors.

Abstract

Transverse maxillary deficiency is among the most common skeletal irregularities encountered in orthodontics, affecting 8–22% of patients. This condition is characterized by a narrow maxilla, leading to functional and aesthetic challenges, including dental crowding, crossbites, and malocclusions such as Class II and III. Beyond these dental concerns, untreated cases can escalate into systemic issues like obstructive sleep apnea syndrome (OSAS) and temporomandibular joint dysfunction. Early diagnosis and intervention are crucial to mitigate these complications.

Maxillary development results from a combination of genetic and environmental factors. Influences such as oral habits, nasal breathing, and genetic predispositions can disrupt normal growth, leading to transverse deficiencies that may persist into adulthood as the palatal suture ossifies with age. Timely intervention during periods of high skeletal growth potential is therefore essential.

Maxillary expansion remains the standard treatment, aimed at widening the mid-palatal suture to enhance skeletal and dental alignment. Devices such as rapid maxillary expanders (RME), slow maxillary expanders (SME), and newer innovations like the Leaf Expander (LEX) and Miniscrew-Assisted Rapid Palatal Expanders (MARPE) offer various options tailored to patient age, skeletal maturity, and compliance. Recent advances, including skeletal anchorage systems and minimally invasive techniques, promise improved outcomes with fewer side effects, paving the way for more effective, patient-centered orthodontic care

Keywords: Maxillary expansion, Palatal expanders, Transverse deficiencies, Rapid Maxillary Expander (RME), Slow Maxillary Expander (SME), Leaf Expander

Authors

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

Carmela Pezzolla - Irma Trilli - Francesco Sabatelli - Department of Interdisciplinary Medicine, University of Bari "Aldo Moro" Bari, Italy

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

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

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

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

L. Memè, F. Bambini, F. Sampalmieri, C. Pezzolla, I. Trilli, F. Sabatelli, I.R. Bordea, G.V.O. Fernandes, E. Qorri, L. Almasri, M. Alkassab, M. Almasri, A. Palermo. Comparison of palatal expanders and their efficacy: a narrative review. *Oral and Implantology* Vol. 16 No. 3 (S1) (2024), 441-460. [http://doi.org/10.11138/oi.v16i3\(S1\).91](https://doi.org/10.11138/oi.v16i3(S1).91)

(LEX), Miniscrew-Assisted Rapid Palatal Expander (MARPE), Skeletal changes, Orthodontic treatment, Patient compliance.

Introduction

Technological Transverse maxillary deficiency is one of orthodontics' most common skeletal irregularities, affecting approximately 8–22% of patients (1–8). It is characterized by an abnormally narrow maxilla, often leading to functional and aesthetic issues such as dental crowding, crossbites, malocclusions (Class II and III), and midline discrepancies (9–16). Beyond dental and orthodontic complications, untreated maxillary deficiency can contribute to systemic problems, including obstructive sleep apnea syndrome (OSAS) and temporomandibular joint dysfunction (17–33). Given its prevalence and impact, early diagnosis and effective treatment are critical to ensuring optimal outcomes (34–45).

The maxilla develops through a combination of genetic and environmental factors (46–57). Oral habits, nasal breathing patterns, and genetic predispositions can influence maxillary growth and lead to transverse deficiencies (58–63). If not addressed, these issues often persist into adolescence and adulthood, as the palatal suture becomes increasingly ossified with age (64–74, 445, 446). Consequently, early intervention is vital, particularly during high skeletal growth potential (26,75–85) periods.

Maxillary expansion is the standard of care for treating transverse deficiencies. It aims to widen the mid-palatal suture, improving skeletal structure and dental alignment (86–92). Various devices and techniques have been developed over the years to achieve this goal, including rapid maxillary expanders (RME), slow maxillary expanders (SME), and newer options like the Leaf Expander (LEX) (44,68,93–96). The selection of a specific device depends on factors such as patient age, compliance, skeletal maturity, and clinical presentation (18,89,97–100).

RMEs are often the first choice for younger patients because they can quickly achieve significant skeletal expansion (96,101,102,102–104). However, this approach is not without limitations. RMEs can lead to adverse dental effects, including root resorption, buccal tipping, and a reduction in buccal bone thickness (105–112). In contrast, SME and LEX provide gentler, more controlled forces over a more extended period, aligning better with the natural processes of bone remodeling and vascularization (107,113,114). These devices are handy in mixed dentition stages or for patients with a thin periodontal biotype (20,20,94,107,115,115–118).

The introduction of skeletal anchorage devices, such as Miniscrew-Assisted Rapid Palatal Expanders (MARPE), represents a significant advancement in orthodontics (115,115,119–125). These devices anchor directly to the bone, bypassing dental structures and enabling effective expansion in older adolescents and adults with partially or fully ossified palatal sutures (100,126–131). MARPE devices reduce the dental side effects of traditional RMEs, offering a viable solution for challenging cases.

Despite the availability of numerous expansion techniques, the optimal approach for treating maxillary deficiencies remains a topic of debate. Each device has unique advantages and drawbacks, and their effectiveness often depends on individual patient factors (36,132–140). This review aims to critically evaluate

the skeletal and dental effects of RME, SME, LEX, and hybrid devices, providing clinicians with evidence-based insights to guide treatment planning (115,118,141–144). By exploring the comparative outcomes of these devices, we aim to identify the most effective and patient-friendly methods for managing transverse maxillary deficiencies across different age groups and clinical scenarios (11,145–150).

Materials and Methods

This review follows a scoping review protocol, adhering to PRISMA-ScR guidelines (72,151–155). The primary databases searched included PubMed, Scopus, and Web of Science, focusing on studies published between 2013 and 2023 (12,64,64,149,156,157). Boolean keywords such as “hyrax,” “leaf expander,” and “rapid maxillary expansion” guided the search (67,158–166). Eligibility criteria required clinical trials involving human subjects, written in English, and directly comparing different expanders (6,163,167–170). Exclusions included *in vitro* experiments, animal studies, and articles lacking original data (167–170,170,171). After rigorous screening of 1008 initial records (172–178), the final dataset included 15 studies.

Results

Comparative Outcomes of Expanders

1. Rapid Maxillary Expander (RME):

The RME remains a gold standard for treating transverse deficiencies (179–185). It relies on a central screw mechanism to apply significant force, rapidly separating the mid-palatal suture within approximately two weeks (138–140,186–190). Studies highlight its efficacy in achieving skeletal expansion, though dental side effects, such as root resorption and buccal tipping, have been observed (4,138,139,191,192).

2. Slow Maxillary Expander (SME):

The SME offers a more gradual approach, producing controlled forces over months (193,194,194–201). While the skeletal effects are comparable to RME, SME demonstrates reduced dental side effects and better aligns with natural bone remodeling (202,202,203,203–209).

3. Leaf Expander (LEX):

The LEX employs Ni-Ti springs for continuous, gentle forces, requiring minimal patient compliance (210–216). Research shows that its outcomes in skeletal and dental expansion are similar to RME and SME. However, it excels in minimizing patient discomfort and soft tissue impact (217–225).

Device-Specific Findings

1. Pain and Discomfort:

Studies comparing RME and LEX found significantly lower pain levels in LEX users, particularly during the first week (10,226–235). This is attributed to its gradual activation mechanism (34,34,236–244, 444).

2. Skeletal Changes:

CBCT analyses reveal that all devices induce meaningful skeletal changes (212,245–254). Bone-

anchored devices, such as hybrid expanders, yield more pronounced outcomes, particularly in adolescent and adult patients (254–258).

3. Dental Impact:

The LEX minimizes dental tipping and preserves buccal bone thickness, making it a safer option for patients with thin periodontal structures (26,259–263,263,264). In contrast, RME devices with dental anchorage may compromise dental health due to excessive tipping forces (265).

Innovations in Palatal Expansion

Recent advancements include the integration of mini-screws for skeletal anchorage, as seen in the Miniscrew-Assisted Rapid Palatal Expander (MARPE) (251,266–275). MARPE devices show promising results in adults, achieving parallel suture openings and minimizing unwanted dental movements (276–287).

Discussion

The treatment of transverse maxillary deficiencies is an evolving area in orthodontics. Various devices are designed to optimize skeletal and dental expansion while minimizing patient discomfort and adverse side effects (274–283). A comparative analysis of rapid maxillary expanders (RME), slow maxillary expanders (SME), the Leaf Expander (LEX), and bone-anchored devices highlights the nuanced differences in their mechanisms, outcomes, and suitability for different patient profiles (284–296).

Clinical Considerations in Device Selection

One of the primary factors influencing the choice of expander is the patient's age and skeletal maturity. Younger patients with open or partially fused palatine sutures respond well to RMEs due to the pliability of their skeletal structures, which allows for more effective and rapid separation of the suture (297–300). However, as the suture's ossification progresses, achieving similar outcomes becomes challenging, particularly in late adolescence and adulthood. In these cases, hybrid expanders, such as the Miniscrew-Assisted Rapid Palatal Expander (MARPE), provide a viable alternative. MARPE minimizes dental side effects and produces more significant skeletal expansion by anchoring directly to the bone, bypassing the limitations of sutural rigidity (301–305).

Patient compliance is another critical consideration. Devices like the LEX, which operate autonomously with pre-set forces, reduce the need for patient or parental cooperation (320–329). This feature is particularly advantageous in pediatric populations or patients who consistently struggle to activate traditional expanders such as RMEs. Additionally, the gradual and consistent force exerted by the LEX aligns better with the biological processes of bone remodeling and vascular development, potentially leading to more stable outcomes (314–324).

Pain and Patient Comfort

Pain management is essential to orthodontic treatment, as it significantly impacts patient satisfaction and compliance (323–330). Studies consistently show that the LEX outperforms traditional RMEs regarding pain reduction (331–337). The continuous, low-force

mechanism of the LEX minimizes inflammation and pressure on the periodontal ligament, leading to less discomfort during the initial days of treatment. In contrast, RMEs, with their abrupt and higher forces, often cause significant pain, particularly during the first week of activation (324–338). This difference highlights the importance of considering patient comfort when selecting a device, especially for younger or more sensitive individuals (339–349).

Skeletal and Dental Outcomes

From a skeletal perspective, all expanders aim to widen the maxillary arch by separating the mid-palatal suture (350–356). However, the degree and nature of skeletal changes vary across devices. RMEs are highly effective in younger patients for achieving rapid expansion, but their effects are often accompanied by dental tipping and reductions in buccal bone thickness (357–370). These dental side effects can compromise periodontal health, particularly in patients with thin gingival biotypes (360–377).

On the other hand, SME and LEX demonstrate a more controlled approach to expansion, with fewer adverse dental effects (378–381). The gradual forces applied by these devices allow for concurrent bone remodeling and sutural widening, leading to more physiological changes. Integrating mini-screws in MARPE devices enhances skeletal outcomes by providing direct anchorage to the bone, enabling parallel sutural expansion and minimizing dental involvement (382–385). This feature mainly benefits older patients, where skeletal expansion is more challenging due to increased sutural interdigitation.

Long-Term Stability

Long-term stability remains a critical consideration in orthodontics (386–399). While RMEs achieve rapid results, their outcomes may be less stable due to the significant dental component of the expansion. The risk of relapse is higher if the expansion is not adequately retained during the post-treatment phase. Devices like LEX and MARPE, which emphasize skeletal changes over dental tipping, may offer more stable results. However, the long-term stability of SME and LEX outcomes requires further investigation through longitudinal studies.

Advancements in Imaging and Diagnostics

The advent of cone-beam computed tomography (CBCT) has revolutionized the evaluation of orthodontic treatment outcomes. Unlike traditional two-dimensional imaging, CBCT provides detailed three-dimensional views of skeletal and dental structures, allowing for precise assessment of sutural changes, bone density, and dental alignment. This advancement has enabled more accurate comparisons between devices and a better understanding of their effects on the maxilla and surrounding structures. For example, CBCT studies have confirmed the superior skeletal outcomes of MARPE compared to traditional RMEs, highlighting the importance of incorporating advanced diagnostics into treatment planning (414–419).

Tailoring Treatment to Patient Needs

The choice of expander should be individualized based on the patient's specific needs, preferences, and clinical

presentation (406–414). For example, patients with respiratory issues, such as obstructive sleep apnea, may benefit more from devices that produce significant anterior expansion, such as RMEs. In contrast, patients with dental crowding or periodontal concerns may prefer devices like LEX or SME, which exert gentler forces and prioritize skeletal changes (415–429).

Similarly, the level of patient compliance can influence device selection. Autonomous devices like LEX are ideal for non-compliant patients, while traditional RMEs may be suitable for those who can adhere to activation protocols. The clinician's expertise and familiarity with the device also play a crucial role in ensuring successful outcomes.

Future Directions in Palatal Expansion

Research into palatal expanders continues to evolve, focusing on optimizing outcomes and minimizing side effects. Advances in material science, such as using shape-memory alloys in LEX, offer the potential for more effective and patient-friendly devices. Additionally, integrating digital technology, such as 3D printing, may enable the customization of expanders to suit individual patient anatomy, further enhancing treatment precision and comfort.

Another promising area of research is combining expansion techniques with other orthodontic or surgical interventions. For example, MARPE, in conjunction with orthognathic surgery, has shown potential for addressing severe transverse deficiencies in adult patients. Similarly, combining expansion with myofunctional therapy or airway management strategies may enhance outcomes in patients with complex needs.

Expanded Summary

In summary, the choice of palatal expander should be guided by a thorough evaluation of the patient's age, skeletal maturity, compliance, and clinical goals. While RMEs remain effective for rapidly correcting transverse deficiencies, devices like LEX and MARPE offer significant advantages regarding comfort, safety, and skeletal outcomes. Integrating advanced diagnostics and innovative materials further enhances the potential for tailored and effective treatment.

Continued research and technological advancements will undoubtedly refine the use of palatal expanders, offering new opportunities to improve patient care and treatment outcomes in orthodontics.

Conclusion

Maxillary expansion is a cornerstone in treating transverse maxillary deficiencies, addressing functional and aesthetic concerns while preventing potential systemic complications. The choice of expansion device depends on multiple factors, including the patient's age, skeletal maturity, compliance, and specific clinical needs. While traditional rapid maxillary expanders (RME) remain widely used for their efficiency, their associated dental side effects, such as buccal tipping and root resorption, require careful consideration. These drawbacks have led to the development of alternative devices, such as slow maxillary expanders (SME) and the Leaf Expander (LEX), which prioritize gradual expansion and align better with natural bone remodeling processes.

The advent of skeletal anchorage systems, particularly Miniscrew-Assisted Rapid Palatal Expanders (MARPE), has revolutionized treatment options for older patients and those with advanced sutural ossification. These devices minimize dental side effects, achieving more incredible skeletal changes and expanding the potential for effective treatment in adolescent and adult populations. However, their clinical application requires expertise and precise diagnostic planning supported by advanced imaging techniques like cone-beam computed tomography (CBCT).

Integrating innovative materials, such as shape-memory alloys, and digital customization tools, including 3D printing, promises to optimize palatal expansion outcomes further. These advancements and ongoing research into long-term stability and patient satisfaction will help refine treatment strategies. Ultimately, the clinician's ability to tailor the choice of expander to individual patient needs—balancing efficacy, safety, and comfort—will remain the key to successful outcomes.

In conclusion, while all devices analyzed in this review demonstrate their capacity to correct transverse deficiencies, the ideal choice often depends on the interplay of patient-specific factors and clinician expertise. Continued research and technological innovation will undoubtedly enhance the effectiveness of palatal expansion treatments, offering patients improved care and lasting results.

References

1. Ajwa, N. Orthodontists' Knowledge and Perception of the Prolonged Use of Rapid Palatal Expanders (RPEs) in the Saudi Arabian Population: A Cross-Sectional Study. *Cureus* 2024, 16, e71207, doi:10.7759/cureus.71207.
2. Bud, E.S.; Bică, C.I.; Păcurar, M.; Vaida, P.; Vlasa, A.; Martha, K.; Bud, A. Observational Study Regarding Possible Side Effects of Miniscrew-Assisted Rapid Palatal Expander (MARPE) with or without the Use of Corticopuncture Therapy. *Biology* 2021, 10, doi:10.3390/biology10030187.
3. Akan, B.; Gökçe, G.; Şahan, A.O.; Veli, İ. Tooth-Borne versus Tooth-Bone-Borne Rapid Maxillary Expanders According to a Stereophotogrammetric Evaluation of Facial Soft Tissues: A Randomized Clinical Trial. *Orthod. Craniofac. Res.* 2021, 24, 438–448, doi:10.1111/ocr.12509.
4. Barone, S.; Bennardo, F.; Diodati, F.; Salviati, M.; Calabria, E.; Colangeli, W.; Antonelli, A.; Giudice, C.; Giudice, A. Short- and Long-Term Effects of Maxillary Expander with Tongue Crib in Growing Open-Bite and Skeletal Class II Patients: A Retrospective Study. *Dent. J.* 2024, 12, doi:10.3390/dj12020022.
5. Dalessandri, D.; Tonni, I.; Dianiskova, S.; Migliorati, M.; Bonetti, S.; Visconti, L.; Salgarello, S.; Paganelli, C. Rapid Palatal Expander vs. Quad-Helix in the Orthodontic Treatment of Cleft Lip and Palate Patients. *Minerva Stomatol.* 2016, 65, 97–103.
6. Bistaffa, A.G.I.; Belomo-Yamaguchi, L.; Almeida, M.R. de; Conti, A.C. de C.F.; Oltramari, P.V.P.; Fernandes, T.M.F. Immediate Skeletal Effects of Rapid Maxillary Expansion at Midpalatal Suture Opening with Differential, Hyrax and Haas Expanders. *Dent. Press J. Orthod.* 2023, 27, e2220525, doi:10.1590/2177-6709.27.6.e2220525.oar.
7. Cantarella, D.; Savio, G.; Grigolato, L.; Zanata, P.; Berveglieri, C.; Lo Giudice, A.; Isola, G.; Del Fabbro, M.; Moon, W. A New Methodology for the Digital Planning of Micro-Implant-Supported Maxillary Skeletal Expansion. *Med. Devices Auckl. NZ* 2020, 13, 93–106, doi:10.2147/MDER.S247751.
8. Chang, J.Y.; McNamara, J.A.J.; Herberger, T.A. A Longitudinal Study of Skeletal Side Effects Induced by Rapid Maxillary Expansion. *Am. J. Orthod. Dentofac.*

- 6.
9. Cozzani, M.; Antonini, S.; Lupini, D.; Decesari, D.; Anelli, F.; Doldo, T. A New Proposal: A Digital Flow for the Construction of a Haas-Inspired Rapid Maxillary Expander (HIRME). *Mater. Basel Switz.* 2020, 13, doi:10.3390/ma13132898.
10. Bud, E.; Vlasa, A.; Pacurar, M.; Matei, A.; Bud, A.; Szoke, A.-R.; Minervini, G. A Retrospective Histological Study on Palatal and Gingival Mucosa Changes during a Rapid Palatal Expansion Procedure. *Biomedicines* 2023, 11, doi:10.3390/biomedicines11123246.
11. Alkhayer, A.; Becsei, R.; Hegedűs, L.; Párkányi, L.; Piffkó, J.; Braunitzer, G.; Segatto, E. Evaluation of the Soft Tissue Changes after Rapid Maxillary Expansion Using a Handheld Three-Dimensional Scanner: A Prospective Study. *Int. J. Environ. Res. Public Health* 2021, 18, doi:10.3390/ijerph18073379.
12. Garib, D.G.; Henriques, J.F.C.; Janson, G.; de Freitas, M.R.; Fernandes, A.Y. Periodontal Effects of Rapid Maxillary Expansion with Tooth-Tissue-Borne and Tooth-Borne Expanders: A Computed Tomography Evaluation. *Am. J. Orthod. Dentofac. Orthop. Off. Publ. Am. Assoc. Orthod. Its Const. Soc. Am. Board Orthod.* 2006, 129, 749–758, doi:10.1016/j.ajodo.2006.02.021.
13. Porseo, M.; Monaco, B.; Festa, F.; Fiorillo, G. A Vestibular Rapid Palatal Expander. *J. Clin. Orthod. JCO* 2016, 50, 110–117.
14. Pary, A.; Cal-Neto, J.P. A Simple Method to Treat Asymmetric Expansions in Three-Segment Surgically Assisted Rapid Maxillary Expansion. *J. Oral Maxillofac. Surg. Off. J. Am. Assoc. Oral Maxillofac. Surg.* 2013, 71, 2130–2136, doi:10.1016/j.joms.2013.07.022.
15. Sfondrini, M.F.; Cacciafesta, V.; Lena, A. Accidental Ingestion of a Rapid Palatal Expander. *J. Clin. Orthod. JCO* 2003, 37, 201–202; quiz 203.
16. Türker, G.; Çoban, G.; Bayraktar, A.Ü.; Kurt, G.; Kılıç, E.; Alkan, A. Three-Dimensional Palatal Morphology and Upper Arch Changes Following Nonsurgical and Surgical Maxillary Expansion in Adults. *Oral Surg. Oral Med. Oral Pathol. Oral Radiol.* 2022, 134, 425–431, doi:10.1016/j.oooo.2022.02.013.
17. Abdelsalam, R.; Nucci, L.; Carrino, R.; Shahen, S.; Abdelaziz, F.; Fahim, F.; Perillo, L. Comparison of Palatal Volume and Surface Changes between Bone-Borne and Tooth-Tissue-Borne Maxillary Expansion on Cone Beam Computed Tomography Digital Cast Models. *Angle Orthod.* 2023, 93, 282–288, doi:10.2319/040922-278.1.
18. Diab, A.M.I.; Mohammed, B.B.H.; Ghoneim, M.M.; Ali, M.A.M.; Özdemir, S.; Shendy, M.A.M.; Boufahja, F.; Ali, M.M.M. Effect of Slow Maxillary Expansion and Alternative Rapid Maxillary Expansion Protocols on Airway Volume in Cleft Palate Cases: A Cone Beam Computed Tomography Based Study. *Cureus* 2024, 16, e59534, doi:10.7759/cureus.59534.
19. Arveda, N.; Colonna, A.; Palone, M.; Lombardo, L. Aligner Hybrid Orthodontic Approach to Treat Severe Transverse Divergence in an Adolescent Girl: A Case Report. *Int. Orthod.* 2022, 20, 100686, doi:10.1016/j.ortho.2022.100686.
20. Bruni, A.; Ferrillo, M.; Gallo, V.; Parrini, S.; Garino, F.; Castroflorio, T.; Deregibus, A. Efficacy of Clear Aligners vs Rapid Palatal Expanders on Palatal Volume and Surface Area in Mixed Dentition Patients: A Randomized Controlled Trial. *Am. J. Orthod. Dentofac. Orthop. Off. Publ. Am. Assoc. Orthod. Its Const. Soc. Am. Board Orthod.* 2024, 166, 203–214, doi:10.1016/j.ajodo.2024.04.006.
21. Conroy-Piskai, C.; Galang-Boquiren, M.T.S.; Obrez, A.; Viana, M.G.C.; Oppermann, N.; Sanchez, F.; Edgren, B.; Kusnoto, B. Assessment of Vertical Changes during Maxillary Expansion Using Quad Helix or Bonded Rapid Maxillary Expander. *Angle Orthod.* 2016, 86, 925–933, doi:10.2319/112315-799.
22. Abedini, S.; Elkenawy, I.; Kim, E.; Moon, W. Three-Dimensional Soft Tissue Analysis of the Face Following Micro-Implant-Supported Maxillary Skeletal Expansion. *Prog. Orthod.* 2018, 19, 46, doi:10.1186/s40510-018-0243-z.
23. Alwadei, S.H.; Almotiry, K.; AlMawash, A.; Alwadei, F.H.; Alwadei, A.H. Parental Satisfaction with Their Children's Rapid Palatal Expansion Treatment Provided by Orthodontists and Pediatric Dentists. *Patient Prefer. Adherence* 2021, 15, 251–258, doi:10.2147/PPA.S293351.
24. Kim, K.-A.; Oh, S.-H.; Kim, B.-H.; Kim, S.-J. Asymmetric Nasomaxillary Expansion Induced by Tooth-Bone-Borne Expander Producing Differential Craniofacial Changes. *Orthod. Craniofac. Res.* 2019, 22, 296–303, doi:10.1111/ocr.12320.
25. Lin, J.-H.; Li, C.; Wong, H.; Chamberland, S.; Le, A.D.; Chung, C.-H. Asymmetric Maxillary Expansion Introduced by Surgically Assisted Rapid Palatal Expansion: A Systematic Review. *J. Oral Maxillofac. Surg. Off. J. Am. Assoc. Oral Maxillofac. Surg.* 2022, 80, 1902–1911, doi:10.1016/j.joms.2022.08.008.
26. Cazzato, G.; Massaro, A.; Colagrande, A.; Lettini, T.; Cicco, S.; Parente, P.; Nacchiero, E.; Lospalluti, L.; Cascardi, E.; Giudice, G.; et al. Dermatopathology of Malignant Melanoma in the Era of Artificial Intelligence: A Single Institutional Experience. *Diagnostics* 2022, 12, 1972, doi:10.3390/diagnostics12081972.
27. Limongelli, L.; Cascardi, E.; Capodiferro, S.; Favia, G.; Corsalini, M.; Tempesta, A.; Maiorano, E. Multifocal Amelanotic Melanoma of the Hard Palate: A Challenging Case. *Diagn. Basel Switz.* 2020, 10, 424, doi:10.3390/diagnostics10060424.
28. Pisacane, A.; Cascardi, E.; Berrino, E.; Polidori, A.; Sarotto, I.; Casorzo, L.; Panero, M.; Boccaccio, C.; Verginelli, F.; Benvenuti, S.; et al. Real-World Histopathological Approach to Malignancy of Undefined Primary Origin (MUO) to Diagnose Cancers of Unknown Primary (CUPS). *Virchows Arch. Int. J. Pathol.* 2023, 482, 463–475, doi:10.1007/s00428-022-03435-z.
29. Dellino, M.; Vimercati, A.; D'Amato, A.; Damiani, G.R.; Laganà, A.S.; Cicinelli, E.; Pinto, V.; Malvasi, A.; Scacco, S.; Ballini, A.; et al. "GONE WITH THE WIND": The Transitory Effects of COVID-19 on the Gynecological System. *J. Pers. Med.* 2023, 13, 312, doi:10.3390/jpm13020312.
30. Loizzi, V.; Dellino, M.; Cerbone, M.; Arezzo, F.; Cazzato, G.; Damiani, G.R.; Pinto, V.; Silvestris, E.; Kardhashi, A.; Cicinelli, E.; et al. The Role of Hormonal Replacement Therapy in BRCA Mutated Patients: Lights and Shadows. *Int. J. Mol. Sci.* 2023, 24, 764, doi:10.3390/ijms24010764.
31. Cazzato, G.; Colagrande, A.; Ingravallo, G.; Lettini, T.; Filoni, A.; Ambrogio, F.; Bonamonte, D.; Dellino, M.; Lupo, C.; Casatta, N.; et al. PRAME Immuno-Expression in Cutaneous Sebaceous Carcinoma: A Single Institutional Experience. *J. Clin. Med.* 2022, 11, 6936, doi:10.3390/jcm11236936.
32. Pugliese, D.; Melfa, F.; Guarino, E.; Cascardi, E.; Maggi, M.; Ferrari, E.; Maiorano, E. Histopathological Features of Tissue Alterations Induced by Cryolipolysis on Human Adipose Tissue. *Aesthet. Surg. J.* 2020, 40, 761–766, doi:10.1093/asj/sjaa035.
33. SARS-CoV-2 and Skin: New Insights and Perspectives Available online: <https://www.mdpi.com/2218-273X/12/9/1212> (accessed on 9 January 2025).
34. Ouldyyerou, A.; Ngan, P.; Alsharif, K.; Merdji, A.; Mukdadi, O.M. Biomechanical Performance of ATOZ Expander: Finite-Element Analysis. *Am. J. Orthod. Dentofac. Orthop. Off. Publ. Am. Assoc. Orthod. Its Const. Soc. Am. Board Orthod.* 2024, S0889-5406(24)00481-5, doi:10.1016/j.ajodo.2024.10.015.
35. Wysocki, M.; Kobus, K.; Szotek, S.; Kobielarz, M.; Kurocka, P.; Będziński, R. Biomechanical Effect of Rapid Mucoperiosteal Palatal Tissue Expansion with the Use of Osmotic Expanders. *J. Biomech.* 2011, 44, 1313–1320, doi:10.1016/j.jbiomech.2011.01.012.
36. Kenworthy, C.R.; Sheats, R.D. A Bonded Functional Ramp to Aid in Asymmetric Expansion of Unilateral Posterior Crossbites. *Am. J. Orthod. Dentofac. Orthop. Off. Publ. Am. Assoc. Orthod. Its Const. Soc. Am. Board Orthod.* 2001, 119, 320–322, doi:10.1067/mod.2001.112117.
37. Lione, R.; Huanca Ghislanzoni, L.T.; Defraia, E.; Franchi, L.; Cozza, P. Bonded versus Banded Rapid Palatal Expander Followed by Facial Mask Therapy: Analysis on

- Digital Dental Casts. *Eur. J. Orthod.* 2016, 38, 217–222, doi:10.1093/ejo/cjv038.
38. Sitzia, E.; Santarsiero, S.; Tucci, F.M.; De Vincentiis, G.; Galeotti, A.; Festa, P. Balloon Dilation and Rapid Maxillary Expansion: A Novel Combination Treatment for Congenital Nasal Pyriform Aperture Stenosis in an Infant. *Ital. J. Pediatr.* 2021, 47, 189, doi:10.1186/s13052-021-01124-2.
 39. Lemos Rinaldi, M.R.; Azeredo, F.; Martinelli de Lima, E.; Deon Rizzato, S.M.; Sameshima, G.; Macedo de Menezes, L. Cone-Beam Computed Tomography Evaluation of Bone Plate and Root Length after Maxillary Expansion Using Tooth-Borne and Tooth-Tissue-Borne Banded Expanders. *Am. J. Orthod. Dentofac. Orthop. Off. Publ. Am. Assoc. Orthod. Its Const. Soc. Am. Board Orthod.* 2018, 154, 504–516, doi:10.1016/j.ajodo.2017.12.018.
 40. Maschio, M.; Gaffuri, F.; Ugolini, A.; Lanteri, V.; Abate, A.; Caprioglio, A. Buccal Alveolar Bone Changes and Upper First Molar Displacement after Maxillary Expansion with RME, Ni-Ti Leaf Springs Expander and Tooth- Bone-Borne Expander. A CBCT Based Analysis. *Eur. J. Paediatr. Dent.* 2023, 24, 211–215, doi:10.23804/ejpd.2023.1896.
 41. Sperl, A.; Gaalaas, L.; Beyer, J.; Grünheid, T. Buccal Alveolar Bone Changes Following Rapid Maxillary Expansion and Fixed Appliance Therapy. *Angle Orthod.* 2021, 91, 171–177, doi:10.2319/060220-504.1.
 42. Luzzi, C.; Szabò, E.; Carletti, P. CAD/CAM Sheath for Attaching a Cantilever Spring to a Metal-Printed Rapid Palatal Expander. *J. Clin. Orthod. JCO* 2023, 57, 119–120.
 43. Wang, C.; Xiang, X.; Mao, Q.; Liu, C. CAD/CAM Design and 3D Printing of a Personalised Rapid Palatal Expander for Maxillary Transverse Deficiency. *J. Pak. Med. Assoc.* 2024, 74, 153–157, doi:10.47391/J.P.M.A.8363.
 44. Seo, Y.-J.; Chung, K.-R.; Kim, S.-H.; Nelson, G. Camouflage Treatment of Skeletal Class III Malocclusion with Asymmetry Using a Bone-Borne Rapid Maxillary Expander. *Angle Orthod.* 2015, 85, 322–334, doi:10.2319/031314-189.1.
 45. Amm, E.W.; Antoszewska-Smith, J.; Boley, J. Canine Substitution of Congenitally Missing Maxillary Lateral Incisors in Class I and Class III Malocclusions by Using Skeletal Anchorage. *Am. J. Orthod. Dentofac. Orthop. Off. Publ. Am. Assoc. Orthod. Its Const. Soc. Am. Board Orthod.* 2019, 156, 512–521.e6, doi:10.1016/j.ajodo.2018.10.027.
 46. Kanomi, R.; Deguchi, T.; Kakuno, E.; Takano-Yamamoto, T.; Roberts, W.E. CBCT of Skeletal Changes Following Rapid Maxillary Expansion to Increase Arch-Length with a Development-Dependent Bonded or Banded Appliance. *Angle Orthod.* 2013, 83, 851–857, doi:10.2319/082012-669.1.
 47. Pangrazio-Kulbersh, V.; Jezdimir, B.; de Deus Haughey, M.; Kulbersh, R.; Wine, P.; Kaczynski, R. CBCT Assessment of Alveolar Buccal Bone Level after RME. *Angle Orthod.* 2013, 83, 110–116, doi:10.2319/030712-198.1.
 48. Cerruto, C.; Ugolini, A.; Di Vece, L.; Doldo, T.; Caprioglio, A.; Silvestrini-Biavati, A. Cephalometric and Dental Arch Changes to Haas-Type Rapid Maxillary Expander Anchored to Deciduous vs Permanent Molars: A Multicenter, Randomized Controlled Trial. *J. Orofac. Orthop. Fortschritte Kieferorthopadie Organofficial J. Dtsch. Ges. Kieferorthopadie* 2017, 78, 385–393, doi:10.1007/s00056-017-0092-2.
 49. Gregório, L.; de Medeiros Alves, A.C.; de Almeida, A.M.; Naveda, R.; Janson, G.; Garib, D. Cephalometric Evaluation of Rapid and Slow Maxillary Expansion in Patients with BCLP: Secondary Data Analysis from a Randomized Clinical Trial. *Angle Orthod.* 2019, 89, 583–589, doi:10.2319/081018-589.1.
 50. Tepedino, M.; Esposito, R.; Montaruli, G.; Monaco, A.; Chimenti, C.; Ciavarella, D. Changes in Hyoid Bone and Tongue Position in Class I Subjects after Orthodontic Treatment with Rapid Palatal Expander. *Cranio J. Craniofac. Pract.* 2022, 1–10, doi:10.1080/08869634.2022.2121015.
 51. Liu, P.; Jiao, D.; Wang, X.; Liu, J.; Martin, D.; Guo, J. Changes in Maxillary Width and Upper Airway Spaces in Young Adults after Surgically Assisted Rapid Palatal Expansion with Surgically Facilitated Orthodontic Therapy. *Oral Surg. Oral Med. Oral Pathol. Oral Radiol.* 2019, 127, 381–386, doi:10.1016/j.oooo.2018.11.005.
 52. Echarrri-Nicolás, J.; González-Olmo, M.J.; Echarrri-Labiondo, P.; Romero, M. Changes in Molar Tipping and Surrounding Alveolar Bone with Different Designs of Skeletal Maxillary Expanders. *Biomedicines* 2023, 11, doi:10.3390/biomedicines11092380.
 53. McNamara, J.A.J.; Sigler, L.M.; Franchi, L.; Guest, S.S.; Baccetti, T. Changes in Occlusal Relationships in Mixed Dentition Patients Treated with Rapid Maxillary Expansion. A Prospective Clinical Study. *Angle Orthod.* 2010, 80, 230–238, doi:10.2319/040309-192.1.
 54. Gul Amuk, N.; Kurt, G.; Baysal, A.; Turker, G. Changes in Pharyngeal Airway Dimensions Following Incremental and Maximum Bite Advancement during Herbst-Rapid Palatal Expander Appliance Therapy in Late Adolescent and Young Adult Patients: A Randomized Non-Controlled Prospective Clinical Study. *Eur. J. Orthod.* 2019, 41, 322–330, doi:10.1093/ejo/cjz011.
 55. Baratieri, C.; Alves, M.J.; Mattos, C.T.; Souza, M.M.G. de; Ruellas, A.C. de O. Changes of Pulp-Chamber Dimensions 1 Year after Rapid Maxillary Expansion. *Am. J. Orthod. Dentofac. Orthop. Off. Publ. Am. Assoc. Orthod. Its Const. Soc. Am. Board Orthod.* 2013, 143, 471–478, doi:10.1016/j.ajodo.2012.10.022.
 56. Lombardo, L.; Carlucci, A.; Maino, B.G.; Colonna, A.; Paoletto, E.; Siciliani, G. Class III Malocclusion and Bilateral Cross-Bite in an Adult Patient Treated with Miniscrew-Assisted Rapid Palatal Expander and Aligners. *Angle Orthod.* 2018, 88, 649–664, doi:10.2319/111617-790.1.
 57. Buschang, P.H.; Carrillo, R.; Rossouw, P.E. Orthopedic Correction of Growing Hyperdivergent, Retrognathic Patients with Miniscrew Implants. *J. Oral Maxillofac. Surg. Off. J. Am. Assoc. Oral Maxillofac. Surg.* 2011, 69, 754–762, doi:10.1016/j.joms.2010.11.013.
 58. Küçükönder, A.; Hatipoğlu, Ö. Comparison between a Glass Ionomer Cement and a Compomer Concerning Bonded Acrylic Expander Retention and White Spot Formation : A Randomized Clinical Trial. *J. Orofac. Orthop. Fortschritte Kieferorthopadie Organofficial J. Dtsch. Ges. Kieferorthopadie* 2023, 84, 157–163, doi:10.1007/s00056-023-00448-4.
 59. Nieri, M.; Paoloni, V.; Lione, R.; Barone, V.; Marino Merlo, M.; Giuntini, V.; Cozza, P.; Franchi, L. Comparison between Two Screws for Maxillary Expansion: A Multicenter Randomized Controlled Trial on Patient's Reported Outcome Measures. *Eur. J. Orthod.* 2021, 43, 293–300, doi:10.1093/ejo/cjaa063.
 60. Mummolo, S.; Marchetti, E.; Albani, F.; Campanella, V.; Pugliese, F.; Di Martino, S.; Tecco, S.; Marzo, G. Comparison between Rapid and Slow Palatal Expansion: Evaluation of Selected Periodontal Indices. *Head Face Med.* 2014, 10, 30, doi:10.1186/1746-160X-10-30.
 61. Comparison between CBCT Superimposition Protocol and S.T.A.P. Method to Evaluate the Accuracy in Implant Insertion in Guided Surgery I Request PDF. *ResearchGate* 2024, doi:10.23736/S2724-6329.21.04469-1.
 62. Stakenborg, N.; Gomez-Pinilla, P.J.; Verlinden, T.J.M.; Wolthuis, A.M.; D'Hoore, A.; Farré, R.; Herijgers, P.; Matteoli, G.; Boeckxstaens, G.E. Comparison between the Cervical and Abdominal Vagus Nerves in Mice, Pigs, and Humans. *Neurogastroenterol. Motil.* 2020, 32, e13889, doi:10.1111/nmo.13889.
 63. Lanteri, V.; Cossellu, G.; Gianolio, A.; Beretta, M.; Lanteri, C.; Cherchi, C.; Farronato, G. Comparison between RME, SME and Leaf Expander in Growing Patients: A Retrospective Postero-Anterior Cephalometric Study. *Eur. J. Paediatr. Dent.* 2018, 19, 199–204, doi:10.23804/ejpd.2018.19.03.6.
 64. Annarumma, F.; Posadino, M.; De Mari, A.; Drago, S.; Aghazada, H.; Gravina, G.M.; Qorri, E.; Silvestrini-Biavati, A.; Migliorati, M. Skeletal and Dental Changes after Maxillary Expansion with a Bone-Borne Appliance in Young and Late Adolescent Patients. *Am. J. Orthod. Dentofac. Orthop. Off. Publ. Am. Assoc. Orthod. Its Const. Soc. Am. Board Orthod.* 2021, 159, e363–e375, doi:10.1016/j.

- ajodo.2020.11.031.
65. D'Souza, I.M.; Kumar, H.C.K.; Shetty, K.S. Dental Arch Changes Associated with Rapid Maxillary Expansion: A Retrospective Model Analysis Study. *Contemp. Clin. Dent.* 2015, 6, 51–57, doi:10.4103/0976-237X.149292.
 66. Seker, E.D.; Yagci, A.; Kurt Demirosoy, K. Dental Root Development Associated with Treatments by Rapid Maxillary Expansion/Reverse Headgear and Slow Maxillary Expansion. *Eur. J. Orthod.* 2019, 41, 544–550, doi:10.1093/ejo/cjz010.
 67. Chung, C.-H.; Goldman, A.M. Dental Tipping and Rotation Immediately after Surgically Assisted Rapid Palatal Expansion. *Eur. J. Orthod.* 2003, 25, 353–358, doi:10.1093/ejo/25.4.353.
 68. Carter, A.; Mohamed, A. Dento-Skeletal Effects of Different Rapid Maxillary Expanders for Growing Patients-Which Is Better? *Evid. Based Dent.* 2023, 24, 104–105, doi:10.1038/s41432-023-00900-9.
 69. Babacan, H. Diversified Rapid Maxillary Expander or Utility Maxillary Expander? *Am. J. Orthod. Dentofac. Orthop. Off. Publ. Am. Assoc. Orthod. Its Const. Soc. Am. Board Orthod.* 2015, 148, 529, doi:10.1016/j.ajodo.2015.07.019.
 70. McMullen, C.; Al Turkestani, N.N.; Ruellas, A.C.O.; Massaro, C.; Rego, M.V.N.N.; Yatabe, M.S.; Kim-Berman, H.; McNamara, J.A.J.; Angelieri, F.; Franchi, L.; et al. Three-Dimensional Evaluation of Skeletal and Dental Effects of Treatment with Maxillary Skeletal Expansion. *Am. J. Orthod. Dentofac. Orthop. Off. Publ. Am. Assoc. Orthod. Its Const. Soc. Am. Board Orthod.* 2022, 161, 666–678, doi:10.1016/j.ajodo.2020.12.026.
 71. Hsu, L.-F.; Moon, W.; Chen, S.-C.; Chang, K.W.-C. Digital Workflow for Mini-Implant-Assisted Rapid Palatal Expander Fabrication-a Case Report. *BMC Oral Health* 2023, 23, 887, doi:10.1186/s12903-023-03589-5.
 72. Hartono, N.; Soegiharto, B.M.; Widayati, R. The Difference of Stress Distribution of Maxillary Expansion Using Rapid Maxillary Expander (RME) and Maxillary Skeletal Expander (MSE)-a Finite Element Analysis. *Prog. Orthod.* 2018, 19, 33, doi:10.1186/s40510-018-0229-x.
 73. Cantarella, D.; Karanxha, L.; Zanata, P.; Moschik, C.; Torres, A.; Savio, G.; Del Fabbro, M.; Moon, W. Digital Planning and Manufacturing of Maxillary Skeletal Expander for Patients with Thin Palatal Bone. *Med. Devices Auckl. NZ* 2021, 14, 299–311, doi:10.2147/MDER.S331127.
 74. de Melo, M. de F.B.; Melo, S.L.S.; Zanet, T.G.; Fenyopereira, M. Digital Radiographic Evaluation of the Midpalatal Suture in Patients Submitted to Rapid Maxillary Expansion. *Indian J. Dent. Res. Off. Publ. Indian Soc. Dent. Res.* 2013, 24, 76–80, doi:10.4103/0970-9290.114960.
 75. Dioguardi, M.; Spirito, F.; Caloro, G.A.; Lo Muzio, L.; Cantore, S.; Ballini, A.; Scacco, S.; Malcangi, A.; Sembronio, S.; Cascardi, E.; et al. Is the Non-Coding RNA miR-195 a Biodynamic Marker in the Pathogenesis of Head and Neck Squamous Cell Carcinoma? A Prognostic Meta-Analysis. *J. Pers. Med.* 2023, 13, 275, doi:10.3390/jpm13020275.
 76. Inchingolo, A.M.; Patano, A.; De Santis, M.; Del Vecchio, G.; Ferrante, L.; Morolla, R.; Pezzolla, C.; Sardano, R.; Dongiovanni, L.; Inchingolo, F.; et al. Comparison of Different Types of Palatal Expanders: Scoping Review. *Child. Basel Switz.* 2023, 10, doi:10.3390/children10071258.
 77. 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.
 78. 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.
 79. Malcangi, G.; Patano, A.; Pezzolla, C.; Riccaldo, L.; Mancini, A.; Di Pede, C.; Inchingolo, A.D.; Inchingolo, F.; Bordea, I.R.; Dipalma, G.; et al. Bruxism and Botulinum Injection: Challenges and Insights. *J. Clin. Med.* 2023, 12, 4586, doi:10.3390/jcm12144586.
 80. Communications Is Time for Care: An Italian Monocentric Survey on Human Papillomavirus (HPV) Risk Information as Part of Cervical Cancer Screening Available online: <https://www.mdpi.com/2075-4426/12/9/1387> (accessed on 9 January 2025).
 81. Dellino, M.; Cerbone, M.; Laganà, A.S.; Vitagliano, A.; Vimercati, A.; Marinaccio, M.; Baldini, G.M.; Malvasi, A.; Cicinelli, E.; Damiani, G.R.; et al. Upgrading Treatment and Molecular Diagnosis in Endometrial Cancer—Driving New Tools for Endometrial Preservation? *Int. J. Mol. Sci.* 2023, 24, 9780, doi:10.3390/ijms24119780.
 82. Spontaneous Uterine Rupture and Adenomyosis, a Rare but Possible Correlation: Case Report and Literature Review Available online: <https://www.mdpi.com/2075-4418/12/7/1574> (accessed on 9 January 2025).
 83. Malvasi, A.; Cicinelli, E.; Baldini, G.M.; Vimercati, A.; Beck, R.; Dellino, M.; Damiani, G.R.; Cazzato, G.; Cascardi, E.; Tinelli, A. Prolonged Dystocic Labor in Neuraxial Analgesia and the Role of Enkephalin Neurotransmitters: An Experimental Study. *Int. J. Mol. Sci.* 2023, 24, 3767, doi:10.3390/ijms24043767.
 84. Vimercati, A.; Santarsiero, C.M.; Esposito, A.; Putino, C.; Malvasi, A.; Damiani, G.R.; Laganà, A.S.; Vitagliano, A.; Marinaccio, M.; Resta, L.; et al. An Extremely Rare Case of Disseminated Peritoneal Leiomyomatosis with a Pelvic Leiomyosarcoma and Omental Metastasis after Laparoscopic Morcellation: Systematic Review of the Literature. *Diagnostics* 2022, 12, 3219, doi:10.3390/diagnostics12123219.
 85. T Cell Immunoglobulin and Mucin Domain 3 (TIM-3) in Cutaneous Melanoma: A Narrative Review Available online: <https://www.mdpi.com/2072-6694/15/6/1697> (accessed on 9 January 2025).
 86. Lombardo, L.; Albertini, P.; Cervinara, F.; Bruccheri, L.; Siciliani, G. Early Class III Treatment with Hybrid Rapid Palatal Expander Combined with Facemask. *Int. Orthod.* 2020, 18, 624–635, doi:10.1016/j.ortho.2020.05.002.
 87. Luzzi, V.; Marasca, B.; Mazur, M.; Ndokaj, A.; Pirro, V.; Guaragna, M.; Altieri, F.; Ierardo, G. Early Class III Treatment Using a Hybrid Rapid Palatal Expander and Facemask in a Patient with Partially Edentulous Maxilla Post MNTI Removal: A Case Report. *Healthc. Basel Switz.* 2022, 10, doi:10.3390/healthcare10091746.
 88. Janosy, A.-M.; Moca, A.E.; Juncar, R.I. Early Diagnosis and Treatment of Mandibular Second Premolar Impaction: A Case Report. *Diagn. Basel Switz.* 2024, 14, doi:10.3390/diagnostics14151610.
 89. Leonardi, R.; Sicurezza, E.; Cutrera, A.; Barbato, E. Early Post-Treatment Changes of Circumaxillary Sutures in Young Patients Treated with Rapid Maxillary Expansion. *Angle Orthod.* 2011, 81, 36–41, doi:10.2319/050910-250.1.
 90. Lambot, T.; Van Steenberghe, P.R.; Vanmuylder, N.; De Maertelaer, V.; Glineur, R. (Early treatment with rapid palatal expander and 3D Quad Action mandibular appliance: evaluation of a comprehensive approach in 22 patients). *Orthod. Francaise* 2008, 79, 107–114, doi:10.1051/orthodfr:2008005.
 91. Yagci, A.; Korkmaz, Y.N.; Yagci, F.; Atilla, A.O.; Buyuk, S.K. Effect of 3 Cements on White Spot Lesion Formation after Full-Coverage Rapid Maxillary Expander: A Comparative In-Vivo Study. *Am. J. Orthod. Dentofac. Orthop. Off. Publ. Am. Assoc. Orthod. Its Const. Soc. Am. Board Orthod.* 2016, 150, 1005–1013, doi:10.1016/j.ajodo.2016.05.014.
 92. Villa-Obando, Y.A.; Correa-Osorio, S.M.; Castrillon-Marin, R.A.; Vivares-Builes, A.M.; Ardila, C.M. Effect of Anchorage Modifications on the Efficacy of Miniscrew-Assisted Rapid Palatal Expansion: A Systematic Review and Meta-Analysis. *Cureus* 2024, 16, e72008, doi:10.7759/cureus.72008.
 93. Lee, S.C.; Park, J.H.; Bayome, M.; Kim, K.B.; Araujo, E.A.; Kook, Y.-A. Effect of Bone-Borne Rapid Maxillary Expanders with and without Surgical Assistance on the Craniofacial Structures Using Finite Element Analysis. *Am.*

- J. Orthod. Dentofac. Orthop. Off. Publ. Am. Assoc. Orthod. Its Const. Soc. Am. Board Orthod. 2014, 145, 638–648, doi:10.1016/j.ajodo.2013.12.029.
94. Koç, O.; Koç, N.; Jacob, H.B. Effect of Different Palatal Expanders with Miniscrews in Surgically Assisted Rapid Palatal Expansion: A Non-Linear Finite Element Analysis. *Dent. Press J. Orthod.* 2024, 29, e2423195, doi:10.1590/2177-6709.29.1.e2423195.oar.
 95. Awani, K.M.; Dewachi, Z.; Al-Hyani, O.H. Effect of Injectable Platelet-Rich Fibrin (i-PRF) on New Bone Formation in Surgical Expansion with Mini-Screw Assisted Rapid Palatal Expander: A Dog Model Study. *J. Orthod. Sci.* 2023, 12, 12, doi:10.4103/jos.jos_56_22.
 96. Abdelwassie, S.H.; Kaddah, M.A.; El-Dakrouy, A.E.; El-Boghdady, D.; El-Ghafour, M.A.; Seifeldin, N.F. Effectiveness of Low-Level Laser Therapy in Facilitating Maxillary Expansion Using Bone-Borne Hyrax Expander: A Randomized Clinical Trial. *Korean J. Orthod.* 2022, 52, 399–411, doi:10.4041/kjod22.095.
 97. Alyessary, A.S.; Yap, A.U.J.; Othman, S.A.; Rahman, M.T.; Radzi, Z. Effect of Piezoelectric Sutural Osteotomies on Accelerated Bone-Borne Sutural Expansion. *J. Oral Maxillofac. Surg. Off. J. Am. Assoc. Oral Maxillofac. Surg.* 2018, 76, 616–630, doi:10.1016/j.joms.2017.08.018.
 98. Caldas, L.D.; Takeshita, W.M.; Machado, A.W.; Bittencourt, M.A.V. Effect of Rapid Maxillary Expansion on Nasal Cavity Assessed with Cone-Beam Computed Tomography. *Dent. Press J. Orthod.* 2020, 25, 39–45, doi:10.1590/2177-6709.25.3.039-045.oar.
 99. Liu, W.; Zhou, Y. (Effect of repetitive rapid palatal expansions and constrictions by double hinged expander in maxillary protraction cases). *Beijing Da Xue Xue Bao* 2013, 45, 69–76.
 100. Wang, M.H.; Ge, Z.L.; Tian, L.; Li, P.R.; Che, Y.Q. (Effect of three types of rapid maxillary expansion: a three-dimensional finite element study). *Zhonghua Kou Qiang Yi Xue Za Zhi Zhonghua Kouqiang Yixue Zazhi Chin. J. Stomatol.* 2017, 52, 678–683, doi:10.3760/cma.j.issn.1002-0098.2017.11.006.
 101. Marañón-Vásquez, G.A.; de Andrade, A.C.D.V.; Maia, L.C.; Dos Santos, R.L.; Tanaka, O.M.; Paranhos, L.R.; Oliveira, D.D.; Pithon, M.M. Effect of Treatment of Transverse Maxillary Deficiency Using Rapid Palatal Expansion on Oral Health-Related Quality of Life in Children: Complementary Results for a Controlled Clinical Trial. *Clin. Oral Investig.* 2024, 28, 525, doi:10.1007/s00784-024-05902-0.
 102. Keles, A.; Tokmak, E.C.; Erverdi, N.; Nanda, R. Effect of Varying the Force Direction on Maxillary Orthopedic Protraction. *Angle Orthod.* 2002, 72, 387–396, doi:10.1043/0003-3219(2002)072<0387:EOVTFD>2.0.CO;2.
 103. Liou, E.J.-W. Effective maxillary orthopedic protraction for growing Class III patients: a clinical application simulates distraction osteogenesis. *Prog. Orthod.* 2005, 6, 154–171.
 104. Christie, K.F.; Boucher, N.; Chung, C.-H. Effects of Bonded Rapid Palatal Expansion on the Transverse Dimensions of the Maxilla: A Cone-Beam Computed Tomography Study. *Am. J. Orthod. Dentofac. Orthop. Off. Publ. Am. Assoc. Orthod. Its Const. Soc. Am. Board Orthod.* 2010, 137, S79–85, doi:10.1016/j.ajodo.2008.11.024.
 105. Wolff, J.; Rinkenbach, R.; Grollemund, B.; Wagner, D. (Effects of maxillary disjunction on canine impaction in patients presenting a maxillary transverse skeletal deficiency). *Orthod. Francaise* 2017, 88, 243–250, doi:10.1051/orthodfr/2017017.
 106. Garcez, A.S.; Suzuki, S.S.; Storto, C.J.; Cusmanich, K.G.; Elkenawy, I.; Moon, W. Effects of Maxillary Skeletal Expansion on Respiratory Function and Sport Performance in a Para-Athlete - A Case Report. *Phys. Ther. Sport Off. J. Assoc. Chart. Physiother.* 2019, 36, 70–77, doi:10.1016/j.ptsp.2019.01.005.
 107. Bastos, R.M.; Haas Junior, O.L.; Piccoli, V.; da Rosa, B.M.; de Oliveira, R.B.; de Menezes, L.M. Effects of Minimally Invasive Surgical and Miniscrew-Assisted Rapid Palatal Expansion (MISMARPE) on the Nasal Cavity and Upper Airway: A Comparative Cohort Study. *Int. J. Oral Maxillofac. Surg.* 2024, 53, 821–828, doi:10.1016/j.ijom.2024.03.012.
 108. Sermboonsang, C.; Benjakul, S.; Chantarapanich, N.; Inglam, S.; Insee, K. Effects of Miniscrew Location on Biomechanical Performances of Bone-Borne Rapid Palatal Expander to Midpalatal Suture: A Finite Element Study. *Med. Eng. Phys.* 2022, 107, 103872, doi:10.1016/j.medengphy.2022.103872.
 109. Pan, S.; Gao, X.; Sun, J.; Yang, Z.; Hu, B.; Song, J. Effects of Novel Microimplant-Assisted Rapid Palatal Expanders Manufactured by 3-Dimensional Printing Technology: A Finite Element Study. *Am. J. Orthod. Dentofac. Orthop. Off. Publ. Am. Assoc. Orthod. Its Const. Soc. Am. Board Orthod.* 2023, 164, 700–711, doi:10.1016/j.ajodo.2023.04.020.
 110. Cordasco, G.; Nucera, R.; Fastuca, R.; Matarese, G.; Lindauer, S.J.; Leone, P.; Manzo, P.; Martina, R. Effects of Orthopedic Maxillary Expansion on Nasal Cavity Size in Growing Subjects: A Low Dose Computer Tomography Clinical Trial. *Int. J. Pediatr. Otorhinolaryngol.* 2012, 76, 1547–1551, doi:10.1016/j.ijporl.2012.07.008.
 111. Figueiredo, D.S.F.; Cardinal, L.; Bartolomeo, F.U.C.; Palomo, J.M.; Horta, M.C.R.; Andrade, I.J.; Oliveira, D.D. Effects of Rapid Maxillary Expansion in Cleft Patients Resulting from the Use of Two Different Expanders. *Dent. Press J. Orthod.* 2016, 21, 82–90, doi:10.1590/2177-6709.2016-001.aop.
 112. Lineberger, M.W.; McNamara, J.A.; Baccetti, T.; Herberger, T.; Franchi, L. Effects of Rapid Maxillary Expansion in Hyperdivergent Patients. *Am. J. Orthod. Dentofac. Orthop. Off. Publ. Am. Assoc. Orthod. Its Const. Soc. Am. Board Orthod.* 2012, 142, 60–69, doi:10.1016/j.ajodo.2012.02.019.
 113. de Oliveira Chami, V.; da Rocha, J.G.; Knorst, J.K.; Fensterseifer, C.K.; Ferrazzo, V.A.; Serra-Negra, J.M.C.; Marquezan, M. Effects of Rapid Maxillary Expansion on Sleep Disturbance Scale for Children: A Longitudinal CASE-Series Study. *Orthod. Craniofac. Res.* 2024, 27, 27–32, doi:10.1111/ocr.12678.
 114. Habeeb, M.; Boucher, N.; Chung, C.-H. Effects of Rapid Palatal Expansion on the Sagittal and Vertical Dimensions of the Maxilla: A Study on Cephalograms Derived from Cone-Beam Computed Tomography. *Am. J. Orthod. Dentofac. Orthop. Off. Publ. Am. Assoc. Orthod. Its Const. Soc. Am. Board Orthod.* 2013, 144, 398–403, doi:10.1016/j.ajodo.2013.04.012.
 115. Hoque, T.; Srinivasan, D.; Chakravarthi, S.; Kannan, R. Evaluation and Comparison of Stresses and Displacements Generated by Four Different Types of Asymmetric Maxillary Expansion Appliances in True Unilateral Crossbite Using Finite Element Method. *Int. Orthod.* 2022, 20, 100668, doi:10.1016/j.ortho.2022.100668.
 116. Fatima, K.; Chaudhari, P.K.; Duggal, R.; Kharbanda, O.P.; Thakar, A. Effects of RME on Hearing in UCLP Patients: A Pilot Study. *Cleft Palate-Craniofacial J. Off. Publ. Am. Cleft Palate-Craniofacial Assoc.* 2023, 60, 1442–1449, doi:10.1177/10556656221104945.
 117. Maddalone, M.; Nanussi, A.; Varisco, M.; Cortese, M.; Scali, J.; Bianco, E. Electromyographic Evaluation of Masticatory Muscles in a Young Patient with Crossbite Treated with Rapid Palatal Expander: A Case Report. *J. Contemp. Dent. Pract.* 2020, 21, 1279–1283.
 118. Baysal, A.; Karadede, I.; Hekimoglu, S.; Ucar, F.; Ozer, T.; Veli, I.; Uysal, T. Evaluation of Root Resorption Following Rapid Maxillary Expansion Using Cone-Beam Computed Tomography. *Angle Orthod.* 2012, 82, 488–494, doi:10.2319/060411-367.1.
 119. Mahadevia, S.; Daruwala, N.; Vaghamsi, M. eRME--Rapid Maxillary Expansion in the Economic Way. *Indian J. Dent. Res. Off. Publ. Indian Soc. Dent. Res.* 2011, 22, 734, doi:10.4103/0970-9290.93473.
 120. Thompson, M. Esthetic versus Function in Early Treatment of Class III Malocclusion. *Int. J. Orthod. Milwaukee Wis* 2016, 27, 49–50.
 121. Dindaroğlu, F.; Doğan, S. Evaluation and Comparison of Root Resorption between Tooth-Borne and Tooth-Tissue Borne Rapid Maxillary Expansion Appliances: A CBCT Study. *Angle Orthod.* 2016, 86, 46–52, doi:10.2319/010515-007.1.

122. De Santis, D.; Pancera, P.; Luciano, U.; Gelpi, F.; Causarano, G.; Formentini, D.; Marchiori, M.; Lanaro, L.; Puddu, G.; Sinigaglia, S.; et al. Evaluation of Bacterial Flora Composition on Teeth and Periodontal Tissues in Patients in Treatment with Rapid Palatal Expander. *J. Biol. Regul. Homeost. Agents* 2018, 32, 31–36.
123. Baysal, A.; Ulusoy, S.N.; Uysal, T. Evaluation of Enamel Demineralization in Adolescents after Rapid Maxillary Expansion Using the Quantitative Light-Induced Fluorescence Method: A Single-Center, Randomized Controlled Clinical Trial. *Am. J. Orthod. Dentofac. Orthop. Off. Publ. Am. Assoc. Orthod. Its Const. Soc. Am. Board Orthod.* 2016, 150, 731–739, doi:10.1016/j.ajodo.2016.06.014.
124. Walter, A.; de la Iglesia, F.; Winsauer, H.; Ploder, O.; Wendl, B.; Puiggollers Perez, A. Evaluation of Expansion Forces of Five Pure Bone-Borne Maxillary Expander Designs Anchored with Orthodontic Mini-Implants: An *In Vitro* Study. *J. Orthod.* 2023, 50, 335–343, doi:10.1177/14653125231152502.
125. Leonardi, R.M.; Aboulazm, K.; Giudice, A.L.; Ronsivalle, V.; D'Antò, V.; Lagravère, M.; Isola, G. Evaluation of Mandibular Changes after Rapid Maxillary Expansion: A CBCT Study in Youngsters with Unilateral Posterior Crossbite Using a Surface-to-Surface Matching Technique. *Clin. Oral Investig.* 2021, 25, 1775–1785, doi:10.1007/s00784-020-03480-5.
126. Camporesi, M.; Franchi, L.; Doldo, T.; Defraia, E. Evaluation of Mechanical Properties of Three Different Screws for Rapid Maxillary Expansion. *Biomed. Eng. Online* 2013, 12, 128, doi:10.1186/1475-925X-12-128.
127. Celenk-Koca, T.; Erdinc, A.E.; Hazar, S.; Harris, L.; English, J.D.; Akyalcin, S. Evaluation of Miniscrew-Supported Rapid Maxillary Expansion in Adolescents: A Prospective Randomized Clinical Trial. *Angle Orthod.* 2018, 88, 702–709, doi:10.2319/011518-42.1.
128. Bruder, C.; Ortolani, C.L.F.; Lima, T.A. de; Artese, F.; Faltin Junior, K. Evaluation of Palate Area before and after Rapid Maxillary Expansion, Using Cone-Beam Computed Tomography. *Dent. Press J. Orthod.* 2019, 24, 40–45, doi:10.1590/2177-6709.24.5.040-045.oar.
129. Matos, D.S.; Palma-Dibb, R.G.; de Oliveira Santos, C.; da Conceição Pereira Saraiva, M.; Marques, F.V.; Matsumoto, M.A.N.; Romano, F.L. Evaluation of Photobiomodulation Therapy to Accelerate Bone Formation in the Mid Palatal Suture after Rapid Palatal Expansion: A Randomized Clinical Trial. *Lasers Med. Sci.* 2021, 36, 1039–1046, doi:10.1007/s10103-020-03141-9.
130. Lo Giudice, A.; Leonardi, R.; Ronsivalle, V.; Allegrini, S.; Lagravère, M.; Marzo, G.; Isola, G. Evaluation of Pulp Cavity/Chamber Changes after Tooth-Borne and Bone-Borne Rapid Maxillary Expansions: A CBCT Study Using Surface-Based Superimposition and Deviation Analysis. *Clin. Oral Investig.* 2021, 25, 2237–2247, doi:10.1007/s00784-020-03539-3.
131. Minervini, G.; Franco, R.; Marrapodi, M.M.; Crimi, S.; Badnjević, A.; Cervino, G.; Bianchi, A.; Ciccù, M. Correlation between Temporomandibular Disorders (TMD) and Posture Evaluated Through the Diagnostic Criteria for Temporomandibular Disorders (DC/TMD): A Systematic Review with Meta-Analysis. *J. Clin. Med.* 2023, 12, 2652, doi:10.3390/jcm12072652.
132. Wu, Z.; Zhang, X.; Li, Z.; Liu, Y.; Jin, H.; Chen, Q.; Guo, J. A Bayesian Network Meta-Analysis of Orthopaedic Treatment in Class III Malocclusion: Maxillary Protraction with Skeletal Anchorage or a Rapid Maxillary Expander. *Orthod. Craniofac. Res.* 2020, 23, 1–15, doi:10.1111/ocr.12339.
133. Baratieri, C.; Alves, M.J.; Sant'anna, E.F.; Nojima, M. da C.G.; Nojima, L.I. 3D Mandibular Positioning after Rapid Maxillary Expansion in Class II Malocclusion. *Braz. Dent. J.* 2011, 22, 428–434, doi:10.1590/s0103-64402011000500014.
134. Serafin, M.; Fastuca, R.; Zecca, P.A.; Lagravère, M.; Caprioglio, A. 3D Occlusal Changes of Upper First Molars after Rapid Maxillary Expansion on Permanent versus Deciduous Teeth: A Retrospective Multicenter CBCT Study. *Prog. Orthod.* 2023, 24, 24, doi:10.1186/s40510-023-00476-1.
135. Franchi, L.; Vichi, A.; Marti, P.; Lampus, F.; Guercio, S.; Recupero, A.; Giuntini, V.; Goracci, C. 3D Printed Customized Facemask for Maxillary Protraction in the Early Treatment of a Class III Malocclusion: Proof-of-Concept Clinical Case. *Mater. Basel Switz.* 2022, 15, doi:10.3390/ma15113747.
136. Baldini, A.; Nota, A.; Santariello, C.; Assi, V.; Ballanti, F.; Cozza, P. A Comparative Assessment of Changes in Dental Arches Associated with Different Activation Protocols of Rapid Maxillary Expansion. *Eur. J. Paediatr. Dent.* 2018, 19, 35–39, doi:10.23804/ejpd.2018.19.01.06.
137. Façanha, A.J. de O.; Lara, T.S.; Garib, D.G.; da Silva Filho, O.G. Transverse Effect of Haas and Hyrax Appliances on the Upper Dental Arch in Patients with Unilateral Complete Cleft Lip and Palate: A Comparative Study. *Dent. Press J. Orthod.* 2014, 19, 39–45, doi:10.1590/2176-9451.19.2.039-045.oar.
138. Cameron, C.G.; Franchi, L.; Baccetti, T.; McNamara, J.A.J. Long-Term Effects of Rapid Maxillary Expansion: A Posteroanterior Cephalometric Evaluation. *Am. J. Orthod. Dentofac. Orthop. Off. Publ. Am. Assoc. Orthod. Its Const. Soc. Am. Board Orthod.* 2002, 121, 129–135; quiz 193, doi:10.1067/mod.2002.120685.
139. Chamberland, S.; Proffit, W.R. Short-Term and Long-Term Stability of Surgically Assisted Rapid Palatal Expansion Revisited. *Am. J. Orthod. Dentofac. Orthop. Off. Publ. Am. Assoc. Orthod. Its Const. Soc. Am. Board Orthod.* 2011, 139, 815–822.e1, doi:10.1016/j.ajodo.2010.04.032.
140. Combs, A.; Paredes, N.; Dominguez-Mompell, R.; Romero-Maroto, M.; Zhang, B.; Elkenawy, I.; Sfogliano, L.; Fijany, L.; Colak, O.; Wu, B.; et al. Long-Term Effects of Maxillary Skeletal Expander Treatment on Functional Breathing. *Korean J. Orthod.* 2024, 54, 59–68, doi:10.4041/kjod23.090.
141. Lo Giudice, A.; Rustico, L.; Ronsivalle, V.; Nicotra, C.; Lagravère, M.; Grippaudo, C. Evaluation of the Changes of Orbital Cavity Volume and Shape after Tooth-Borne and Bone-Borne Rapid Maxillary Expansion (RME). *Head Face Med.* 2020, 16, 21, doi:10.1186/s13005-020-00235-1.
142. Seong, E.-H.; Choi, S.-H.; Kim, H.-J.; Yu, H.-S.; Park, Y.-C.; Lee, K.-J. Evaluation of the Effects of Miniscrew Incorporation in Palatal Expanders for Young Adults Using Finite Element Analysis. *Korean J. Orthod.* 2018, 48, 81–89, doi:10.4041/kjod.2018.48.2.81.
143. da Silva Filho, O.G.; Lara, T.S.; de Almeida, A.M.; da Silav, H.C. Evaluation of the Midpalatal Suture during Rapid Palatal Expansion in Children: A CT Study. *J. Clin. Pediatr. Dent.* 2005, 29, 231–238, doi:10.17796/jcpd.29.3.kvu17822u2056508.
144. Cossellu, G.; Ugolini, A.; Beretta, M.; Farronato, M.; Gianolio, A.; Maspero, C.; Lanteri, V. Three-Dimensional Evaluation of Slow Maxillary Expansion with Leaf Expander vs. Rapid Maxillary Expansion in a Sample of Growing Patients: Direct Effects on Maxillary Arch and Spontaneous Mandibular Response. *Appl. Sci.* 2020, 10, 4512, doi:10.3390/app10134512.
145. Lombardo, L.; Sacchi, E.; Larosa, M.; Mollica, F.; Mazzanti, V.; Spedicato, G.A.; Siciliani, G. Evaluation of the Stiffness Characteristics of Rapid Palatal Expander Screws. *Prog. Orthod.* 2016, 17, 36, doi:10.1186/s40510-016-0151-z.
146. Zuccati, G.; Casci, S.; Doldo, T.; Clauser, C. Expansion of Maxillary Arches with Crossbite: A Systematic Review of RCTs in the Last 12 Years. *Eur. J. Orthod.* 2013, 35, 29–37, doi:10.1093/ejo/cjr140.
147. Mazzoleni, S.; Bonaldo, G.; Pontarolo, E.; Zuccon, A.; De Francesco, M.; Stellini, E. Experimental Assessment of Oral Hygiene Achieved by Children Wearing Rapid Palatal Expanders, Comparing Manual and Electric Toothbrushes. *Int. J. Dent. Hyg.* 2014, 12, 187–192, doi:10.1111/idh.12061.
148. Liu, Y.; Zhong, Y.; Zheng, B.; Liu, Y. Extracellular Vesicles Derived from M1 Macrophages Enhance Rat Midpalatal Suture Expansion by Promoting Initial Bone Turnover and Inflammation. *Prog. Orthod.* 2023, 24, 34, doi:10.1186/

- s40510-023-00477-0.
149. Sfondrini, M.F.; Gandini, P.; Alcozer, R.; Vallittu, P.K.; Scribante, A. Failure Load and Stress Analysis of Orthodontic Miniscrews with Different Transmucosal Collar Diameter. *J. Mech. Behav. Biomed. Mater.* 2018, *87*, 132–137, doi:10.1016/j.jmbm.2018.07.032.
 150. Dietz, H. FBN1-Related Marfan Syndrome. In *GeneReviews*(®); Adam, M.P., Feldman, J., Mirzaa, G.M., Pagon, R.A., Wallace, S.E., Amemiya, A., Eds.; University of Washington, Seattle: Seattle (WA), 1993.
 151. Liu, S.Y.-C.; Yoon, A.; Abdelwahab, M.; Yu, M.S. Feasibility of Distraction Osteogenesis Maxillary Expansion in Patients with Persistent Nasal Obstruction after Septoplasty. *Int. Forum Allergy Rhinol.* 2022, *12*, 868–871, doi:10.1002/alr.22931.
 152. Downs, S.H.; Black, N. The Feasibility of Creating a Checklist for the Assessment of the Methodological Quality Both of Randomised and Non-Randomised Studies of Health Care Interventions. *J. Epidemiol. Community Health* 1998, *52*, 377–384, doi:10.1136/jech.52.6.377.
 153. Finite Element Analysis Model for Assessing Expansion Patterns from Surgically Assisted Rapid Palatal Expansion.; United States, 2023;
 154. de Assis, D.S.F.R.; Xavier, T.A.; Noritomi, P.Y.; Gonçalves, A.G.B.; Ferreira, O.J.; de Carvalho, P.C.P.; Gonçalves, E.S. Finite Element Analysis of Stress Distribution in Anchor Teeth in Surgically Assisted Rapid Palatal Expansion. *Int. J. Oral Maxillofac. Surg.* 2013, *42*, 1093–1099, doi:10.1016/j.ijom.2013.03.024.
 155. Carvalho Trojan, L.; Andrés González-Torres, L.; Claudia Moreira Melo, A.; Barbosa de Las Casas, E. Stresses and Strains Analysis Using Different Palatal Expander Appliances in Upper Jaw and Midpalatal Suture. *Artif. Organs* 2017, *41*, E41–E51, doi:10.1111/aor.12817.
 156. 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.
 157. Kùçüker, İ.; Aksakal, İ.A.; Polat, A.V.; Engin, M.S.; Yosma, E.; Demir, A. The Effect of Chemodenervation by Botulinum Neurotoxin on the Degradation of Hyaluronic Acid Fillers: An Experimental Study. *Plast. Reconstr. Surg.* 2016, *137*, 109–113, doi:10.1097/PRS.0000000000001877.
 158. Lucchese, A.; Sfondrini, M.F.; Manuelli, M.; Gangale, S. Fixed Space Maintainer for Use with a Rapid Palatal Expander. *J. Clin. Orthod. JCO* 2005, *39*, 557–558.
 159. Ok, U.P.D.; Kaya, T.U. Fractal Perspective on the Rapid Maxillary Expansion Treatment; Evaluation of the Relationship Between Midpalatal Suture Opening and Dental Effects. *J. Stomatol. Oral Maxillofac. Surg.* 2022, *123*, 422–428, doi:10.1016/j.jormas.2021.09.002.
 160. Maino, B.G.; Paoletto, E.; Lombardo, L.; Siciiani, G. From Planning to Delivery of a Bone-Borne Rapid Maxillary Expander in One Visit. *J. Clin. Orthod. JCO* 2017, *51*, 198–207.
 161. Pompella, A.; Corti, A. Gamma-Glutamyltransferase (GGT) in Tumor Progression, Drug Resistance and Targeted Therapies. *J. Biol. Regul. Homeost. Agents* 2018, *32*, 27–28.
 162. Maspero, C.; Cavagnetto, D.; Fama, A.; Giannini, L.; Galbiati, G.; Farronato, M. Hyrax versus Transverse Sagittal Maxillary Expander: An Assessment of Arch Changes on Dental Casts. A Retrospective Study. *Saudi Dent. J.* 2020, *32*, 93–100, doi:10.1016/j.sdentj.2019.06.003.
 163. Garib, D.G.; Menezes, M.H.O.; Silva Filho, O.G.; Santos, P.B.D. Immediate Periodontal Bone Plate Changes Induced by Rapid Maxillary Expansion in the Early Mixed Dentition: CT Findings. *Dent. Press J. Orthod.* 2014, *19*, 36–43, doi:10.1590/2176-9451.19.3.036-043.oar.
 164. Melgaço, C.A.; Columbano Neto, J.; Jurach, E.M.; Nojima, M. da C.G.; Nojima, L.I. Immediate Changes in Condylar Position after Rapid Maxillary Expansion. *Am. J. Orthod. Dentofac. Orthop. Off. Publ. Am. Assoc. Orthod. Its Const. Soc. Am. Board Orthod.* 2014, *145*, 771–779, doi:10.1016/j.ajodo.2014.01.024.
 165. Naveda, R.; Dos Santos, A.M.; Miranda, F.; da Cunha Bastos, J.C.; Garib, D. Immediate Dentoskeletal and Periodontal Effects of Miniscrew-Assisted Rapid Palatal Expansion: Comparison between Young vs Middle-Aged Adults. *Am. J. Orthod. Dentofac. Orthop. Off. Publ. Am. Assoc. Orthod. Its Const. Soc. Am. Board Orthod.* 2023, *164*, 416–422, doi:10.1016/j.ajodo.2023.02.014.
 166. Gandedkar, N.H.; Liou, E.J.-W. The Immediate Effect of Alternate Rapid Maxillary Expansions and Constrictions on the Alveolus: A Retrospective Cone Beam Computed Tomography Study. *Prog. Orthod.* 2018, *19*, 40, doi:10.1186/s40510-018-0237-x.
 167. Cardinal, L.; da Rosa Zimmermann, G.; Mendes, F.M.; Andrade, I.J.; Oliveira, D.D.; Dominguez, G.C. The Impact of Rapid Maxillary Expansion on Maxillary First Molar Root Morphology of Cleft Subjects. *Clin. Oral Investig.* 2018, *22*, 369–376, doi:10.1007/s00784-017-2121-3.
 168. Kinzinger, G.S.M.; Lisson, J.A.; Buschhoff, C.; Hourfar, J.; Korbacher-Steiner, H. Impact of Rapid Maxillary Expansion on Palatal Morphology at Different Dentition Stages. *Clin. Oral Investig.* 2022, *26*, 4715–4725, doi:10.1007/s00784-022-04434-9.
 169. Gorbunkova, A.; Pagni, G.; Brizhak, A.; Farronato, G.; Rasperini, G. Impact of Orthodontic Treatment on Periodontal Tissues: A Narrative Review of Multidisciplinary Literature. *Int. J. Dent.* 2016, *2016*, 4723589, doi:10.1155/2016/4723589.
 170. Abdelwahab, M.; Yoon, A.; Okland, T.; Poomkonsarn, S.; Gouveia, C.; Liu, S.Y.-C. Impact of Distraction Osteogenesis Maxillary Expansion on the Internal Nasal Valve in Obstructive Sleep Apnea. *Otolaryngol.-Head Neck Surg. Off. J. Am. Acad. Otolaryngol.-Head Neck Surg.* 2019, *161*, 362–367, doi:10.1177/0194599819842808.
 171. Bertucci, V.; Stevens, K.; Sidhu, N.; Suri, S.; Bressmann, T. The Impact of Fan-Type Rapid Palatal Expanders on Speech in Patients With Unilateral Cleft Lip and Palate. *Cleft Palate-Craniofacial J. Off. Publ. Am. Cleft Palate-Craniofacial Assoc.* 2023, *60*, 875–887, doi:10.1177/10556656221084541.
 172. Guo, F.; Li, Q.; Ngan, P.; Guan, G.; Chen, X.; Yang, X.; Lv, C.; Hua, F.; Zhao, T.; He, H. Impact of Tonsillectomy on the Efficacy of Alt-RAMEC/PFM Treatment Protocols in Children with Class III Malocclusion and Tonsillar Hypertrophy: Protocol for a Cluster Randomised Controlled Trial. *BMJ Open* 2024, *14*, e084703, doi:10.1136/bmjopen-2024-084703.
 173. Harnick, D.J. Impression Material for Rapid Palatal Expanders. *J. Clin. Orthod. JCO* 1995, *29*, 428.
 174. Fastuca, R.; Zecca, P.A.; Caprioglio, A. Role of Mandibular Displacement and Airway Size in Improving Breathing after Rapid Maxillary Expansion. *Prog. Orthod.* 2014, *15*, 40, doi:10.1186/s40510-014-0040-2.
 175. Guest, S.S.; McNamara, J.A.J.; Baccetti, T.; Franchi, L. Improving Class II Malocclusion as a Side-Effect of Rapid Maxillary Expansion: A Prospective Clinical Study. *Am. J. Orthod. Dentofac. Orthop. Off. Publ. Am. Assoc. Orthod. Its Const. Soc. Am. Board Orthod.* 2010, *138*, 582–591, doi:10.1016/j.ajodo.2008.12.026.
 176. Cherian, K.; Cherian, N.; Cook, C.; Kaltenbach, J.A. Improving Tinnitus with Mechanical Treatment of the Cervical Spine and Jaw. *J. Am. Acad. Audiol.* 2013, *24*, 544–555, doi:10.3766/jaaa.24.7.3.
 177. Adamchic, I.; Langguth, B.; Hauptmann, C.; Tass, P.A. Psychometric Evaluation of Visual Analog Scale for the Assessment of Chronic Tinnitus. *Am. J. Audiol.* 2012, *21*, 215–225, doi:10.1044/1059-0889(2012/12-0010).
 178. Algieri, G.M.A.; Leonardi, A.; Arangio, P.; Vellone, V.; Paolo, C.D.; Cascone, P. Tinnitus in Temporomandibular Joint Disorders: Is It a Specific Somatosensory Tinnitus Subtype? *Int. Tinnitus J.* 2017, *20*, 83–87, doi:10.5935/0946-5448.20160016.
 179. Dhole, P.; Maheshwari, D. In-Office Fabrication of a Simple Miniscrew-Assisted Rapid Palatal Expander. *J. Clin. Orthod. JCO* 2018, *52*, 347–348.
 180. Ouldyyerou, A.; Mamboleo, E.; Gilchrist, L.; Alsharif, K.; Ngan, P.; Merdji, A.; Mukdadi, O. In-Silico Evaluation of Orthodontic Miniscrew-Assisted Rapid Palatal Expanders for Patients with Various Stages of Skeletal Maturation.

- Am. J. Orthod. Dentofac. Orthop. Off. Publ. Am. Assoc. Orthod. Its Const. Soc. Am. Board Orthod. 2024, 166, 561–571, doi:10.1016/j.ajodo.2024.07.018.
181. Ierardo, G.; Luzzi, V.; Vozza, I.; Polimeni, A.; Bossù, M. Skin Irritation from a Facial Mask in Class III Malocclusion: Evaluation of Individual Silicone Chin Cups in a Group of 100 Children. *Minerva Stomatol.* 2018, 67, 45–48, doi:10.23736/S0026-4970.17.04073-0.
 182. Kothari, A. Indirect Bonding Technique. *World J. Orthod.* 2006, 7, 389–393.
 183. Yoon, S.; Lee, D.-Y.; Jung, S.-K. Influence of Changing Various Parameters in Miniscrew-Assisted Rapid Palatal Expansion: A Three-Dimensional Finite Element Analysis. *Korean J. Orthod.* 2019, 49, 150–160, doi:10.4041/kjod.2019.49.3.150.
 184. Pantuzo, M.C.G.; Nunes, E.; Pires, L.R.; Pinto, L.S. da M.C.; Oliveira, D.D. Ingestion of a RPE Activation Key: Why Do These Accidents Still Happen? *Eur. Arch. Paediatr. Dent. Off. J. Eur. Acad. Paediatr. Dent.* 2017, 18, 119–121, doi:10.1007/s40368-017-0277-9.
 185. Caldas, L.D.; Nigri, A.P.; de Souza, M.M.G. Inserting Auxiliary Springs into the Acrylic of Rapid Palatal Expanders. *J. Clin. Orthod. JCO* 2019, 53, 355–356.
 186. Baccetti, T.; Mucedero, M.; Leonardi, M.; Cozza, P. Interceptive Treatment of Palatal Impaction of Maxillary Canines with Rapid Maxillary Expansion: A Randomized Clinical Trial. *Am. J. Orthod. Dentofac. Orthop. Off. Publ. Am. Assoc. Orthod. Its Const. Soc. Am. Board Orthod.* 2009, 136, 657–661, doi:10.1016/j.ajodo.2008.03.019.
 187. Martinez, S.; Carletti, P.; Viscogliosi, A. Interceptive Therapy for Maxillary Constriction: A Cast-Metal-Type Splint Expander. *Prog. Orthod.* 2012, 13, 185–194, doi:10.1016/j.pio.2012.02.001.
 188. Abramo, A.C.; Viola, J.C.; Angelo, A.J. Intraoperative Rapid Expansion in Cleft Palate Repair. *Plast. Reconstr. Surg.* 1993, 91, 441–445, doi:10.1097/00006534-199303000-00008.
 189. Alyessary, A.S.; Yap, A.U.; Othman, S.A.; Rahman, M.T.; Al-Namnam, N.M.; Radzi, Z. Is There an Optimal Initial Amount of Activation for Midpalatal Suture Expansion? : A Histomorphometric and Immunohistochemical Study in a Rabbit Model. *J. Orofac. Orthop. Fortschritt Kieferorthopädie Organofficial J. Dtsch. Ges. Kieferorthopädie* 2018, 79, 169–179, doi:10.1007/s00056-018-0134-4.
 190. Keles, A. Keles Keyless Expander: A New Approach for Rapid Palatal Expansion. *World J. Orthod.* 2008, 9, 407–411.
 191. Celli, D.; Manente, A.; DeCarlo, A.; Deli, R. Long-Term Stability of Anterior Open Bite Correction in Mixed Dentition with a New Treatment Protocol. *Eur. J. Paediatr. Dent.* 2014, 15, 158–162.
 192. Davami, K.; Talma, E.; Harzer, W.; Lagravère, M.O. Long Term Skeletal and Dental Changes between Tooth-Anchored versus Dresden Bone-Anchored Rapid Maxillary Expansion Using CBCT Images in Adolescents: Randomized Clinical Trial. *Int. Orthod.* 2020, 18, 317–329, doi:10.1016/j.ortho.2020.02.004.
 193. Shih, S.-N.; Ho, K.-H.; Wang, C.-W.; Wang, K.-L.; Hsieh, S.-C.; Chang, H.-M. Management of Class III Malocclusion and Maxillary Transverse Deficiency with Microimplant-Assisted Rapid Palatal Expansion (MARPE): A Case Report. *Med. Kaunas Lith.* 2022, 58, doi:10.3390/medicina58081052.
 194. Chung, C.H.; Woo, A.; Zagarsky, J.; Vanarsdall, R.L.; Fonseca, R.J. Maxillary Sagittal and Vertical Displacement Induced by Surgically Assisted Rapid Palatal Expansion. *Am. J. Orthod. Dentofac. Orthop. Off. Publ. Am. Assoc. Orthod. Its Const. Soc. Am. Board Orthod.* 2001, 120, 144–148, doi:10.1067/mod.2001.113791.
 195. Vanarsdall, R.L.J.; Secchi, A.G.; Chung, C.-H.; Katz, S.H. Mandibular Basal Structure Response to Lip Bumper Treatment in the Transverse Dimension. *Angle Orthod.* 2004, 74, 473–479, doi:10.1043/0003-3219(2004)074<0473:MBSRTL>2.0.CO;2.
 196. Baccetti, T.; Rey, D.; Angel, D.; Oberti, G.; McNamara, J.A.J. Mandibular Cervical Headgear vs Rapid Maxillary Expander and Facemask for Orthopedic Treatment of Class III Malocclusion. *Angle Orthod.* 2007, 77, 619–624, doi:10.2319/070706-281.
 197. Orr, J.C.; Li, C.; Shah, S.; Backstrand, M.R.; Chung, C.-H.; Boucher, N.S. Mandibular Transverse Dentoalveolar and Skeletal Changes Associated with Lip Bumper and Rapid Maxillary Expander: A Cone-Beam Computed Tomography Study. *Am. J. Orthod. Dentofac. Orthop. Off. Publ. Am. Assoc. Orthod. Its Const. Soc. Am. Board Orthod.* 2023, 163, 407–425, doi:10.1016/j.ajodo.2021.12.026.
 198. Minervino, B.L.; Barriviera, M.; Curado, M. de M.; Gandini, L.G. MARPE Guide: A Case Report. *J. Contemp. Dent. Pract.* 2019, 20, 1102–1107.
 199. Calil, R.C.; Marin Ramirez, C.M.; Otazu, A.; Torres, D.M.; Gurgel, J. de A.; Oliveira, R.C.; de Oliveira, R.C.G.; Valarelli, F.P.; Freitas, K.M.S. Maxillary Dental and Skeletal Effects after Treatment with Self-Ligating Appliance and Miniscrew-Assisted Rapid Maxillary Expansion. *Am. J. Orthod. Dentofac. Orthop. Off. Publ. Am. Assoc. Orthod. Its Const. Soc. Am. Board Orthod.* 2021, 159, e93–e101, doi:10.1016/j.ajodo.2020.09.011.
 200. O'Neill, J. Maxillary Expansion as an Interceptive Treatment for Impacted Canines. *Evid. Based Dent.* 2010, 11, 86–87, doi:10.1038/sj.ebd.6400742.
 201. Montaruli, G.; Virgilio, S.; Laurenziello, M.; Tepedino, M.; Ciavarella, D. Maxillary Transverse Deficit: A Retrospective Study of Two Biologically Oriented Devices through a Digital Workflow. *Bioeng. Basel Switz.* 2022, 9, doi:10.3390/bioengineering9010031.
 202. Suzuki, H.; Moon, W.; Previdente, L.H.; Suzuki, S.S.; Garcez, A.S.; Consolaro, A. Miniscrew-Assisted Rapid Palatal Expander (MARPE): The Quest for Pure Orthopedic Movement. *Dent. Press J. Orthod.* 2016, 21, 17–23, doi:10.1590/2177-6709.21.4.017-023.oin.
 203. Pimentel, A.C.; Manzi, M.R.; Prado Barbosa, A.J.; Cotrim-Ferreira, F.A.; Guedes Carvalho, P.E.; de Lima, G.F.; Zindel Deboni, M.C. Mini-Implant Screws for Bone-Borne Anchorage: A Biomechanical In Vitro Study Comparing Three Diameters. *Int. J. Oral Maxillofac. Implants* 2016, 31, 1072–1076, doi:10.11607/jomi.4390.
 204. Maia, L.G.M.; Monini, A. da C.; Jacob, H.B.; Gandini, L.G.J. Maxillary Ulceration Resulting from Using a Rapid Maxillary Expander in a Diabetic Patient. *Angle Orthod.* 2011, 81, 546–550, doi:10.2319/031110-141.1.
 205. Sun, Z.; Hueni, S.; Tee, B.C.; Kim, H. Mechanical Strain at Alveolar Bone and Circummaxillary Sutures during Acute Rapid Palatal Expansion. *Am. J. Orthod. Dentofac. Orthop. Off. Publ. Am. Assoc. Orthod. Its Const. Soc. Am. Board Orthod.* 2011, 139, e219-228, doi:10.1016/j.ajodo.2009.12.029.
 206. Silveira, G.S.; Abreu, L.G.; Palomo, J.M.; da Matta Cid Pinto, L.S.; de Sousa, A.A.; Gribel, B.F.; Oliveira, D.D. Mini Hyrax vs Hyrax Expanders in the Rapid Palatal Expansion in Adolescents with Posterior Crossbite: A Randomized Controlled Clinical Trial. *Prog. Orthod.* 2021, 22, 30, doi:10.1186/s40510-021-00365-5.
 207. Brunetto, D.P.; Moschik, C.E.; Dominguez-Mompell, R.; Jaria, E.; Sant'Anna, E.F.; Moon, W. Mini-Implant Assisted Rapid Palatal Expansion (MARPE) Effects on Adult Obstructive Sleep Apnea (OSA) and Quality of Life: A Multi-Center Prospective Controlled Trial. *Prog. Orthod.* 2022, 23, 3, doi:10.1186/s40510-021-00397-x.
 208. Hernandez-Alfaro, F.; Mareque Bueno, J.; Diaz, A.; Pagés, C.M. Minimally Invasive Surgically Assisted Rapid Palatal Expansion with Limited Approach under Sedation: A Report of 283 Consecutive Cases. *J. Oral Maxillofac. Surg. Off. J. Am. Assoc. Oral Maxillofac. Surg.* 2010, 68, 2154–2158, doi:10.1016/j.joms.2009.09.080.
 209. André, C.B.; Pasqua, B. de P.M.; Jacquier, G. de A.; Nascimento, F.D. Miniscrew-Assisted Rapid Palatal Expansion (MARPE): Factors Influencing Planning. *Dent. Press J. Orthod.* 2024, 29, e242439, doi:10.1590/2177-6709.29.3.e242439.oar.
 210. Cunha, A.C. da; Lee, H.; Nojima, L.I.; Nojima, M. da C.G.; Lee, K.-J. Miniscrew-Assisted Rapid Palatal Expansion for Managing Arch Perimeter in an Adult Patient. *Dent. Press J. Orthod.* 2017, 22, 97–108, doi:10.1590/2177-

- 6709.22.3.097-108.oar.
211. Baik, H.-S.; Kang, Y.-G.; Choi, Y.J. Miniscrew-Assisted Rapid Palatal Expansion: A Review of Recent Reports. *J. World Fed. Orthod.* 2020, 9, S54–S58, doi:10.1016/j.ejwf.2020.08.004.
 212. Haas Júnior, O.L.; Matje, P.R.B.; Rosa, B.M. da; Piccoli, V.D.; Rizzato, S.M.D.; Oliveira, R.B. de; Menezes, L.M. de MISMARPE Protocol: Minimally Invasive Surgical and Miniscrew-Assisted Rapid Palatal Expansion. *Dent. Press J. Orthod.* 2024, 29, e24spe3, doi:10.1590/2177-6709.29.3.e24spe3.
 213. Andrade, I.J.; Paschoal, M.A.B.; Figueiredo, N.C. Modified Arnold Expander: An Alternative for Mandibular Arch Expansion. *Dent. Press J. Orthod.* 2021, 26, e21spe5, doi:10.1590/2177-6709.26.5.e21spe5.
 214. Prabhat, K.C.; Sandhya, M.; Sanjeev, K.V.; Mohd, T.; Syed, N.Z. Modified Fixed Nanobite Tandem Appliance for Rapid Correction of Developing Class III Malocclusion. *Orthod. Art Pract. Dentofac. Enhanc.* 2013, 14, e178-185, doi:10.11607/ortho.924.
 215. Farronato, G.; Giannini, L.; Galbiati, G.; Maspero, C. Modified Hyrax expander for the correction of upper midline deviation: a case report. *Minerva Stomatol.* 2011, 60, 195–204.
 216. Moon, H.-W.; Kim, M.-J.; Ahn, H.-W.; Kim, S.-J.; Kim, S.-H.; Chung, K.-R.; Nelson, G. Molar Inclination and Surrounding Alveolar Bone Change Relative to the Design of Bone-Borne Maxillary Expanders: A CBCT Study. *Angle Orthod.* 2020, 90, 13–22, doi:10.2319/050619-316.1.
 217. Zhao, Z.; Zhang, S.; Zhang, F.; Duan, Z.; Wang, Y. Monitoring the Opening of Rapid Palatal Expansion (RPE) in a 3D-Printed Skull Model Using Fiber Optic F-P Sensors. *Sensors* 2023, 23, doi:10.3390/s23167168.
 218. Mello-Moura, A.C.V.; Bonini, G.A.V.C.; Suga, S.S.; Navarro, R.S.; Wanderley, M.T. Multidisciplinary Approach on Rehabilitation of Primary Teeth Traumatism Repercussion on the Permanent Successor: 6-Year Follow-up Case Report. *J. Indian Soc. Pedod. Prev. Dent.* 2009, 27, 125–130, doi:10.4103/0970-4388.55341.
 219. Silva, F.G.; Campos, P.H.; Rangel, M.; Alencar, C.J.F.; Novaes, T.F.; Diniz, M.B.; Guaré, R.O. Multidisciplinary Approach to Multiple Dental Anomalies in Pediatric Patients: A Case Report with 4-Year Follow-Up. *Gen. Dent.* 2024, 72, 27–30.
 220. Fastuca, R.; Meneghel, M.; Zecca, P.A.; Mangano, F.; Antonello, M.; Nucera, R.; Caprioglio, A. Multimodal Airway Evaluation in Growing Patients after Rapid Maxillary Expansion. *Eur. J. Paediatr. Dent.* 2015, 16, 129–134.
 221. Olmez, H.; Akin, E.; Karaçay, S. Multitomographic Evaluation of the Dental Effects of Two Different Rapid Palatal Expansion Appliances. *Eur. J. Orthod.* 2007, 29, 379–385, doi:10.1093/ejo/cjm034.
 222. Kabalan, O.; Gordon, J.; Heo, G.; Lagravère, M.O. Nasal Airway Changes in Bone-Borne and Tooth-Borne Rapid Maxillary Expansion Treatments. *Int. Orthod.* 2015, 13, 1–15, doi:10.1016/j.ortho.2014.12.011.
 223. Rosa, M.; Manti, G.; Lucchi, P.; Mutinelli, S. Nasal Bone Modification Compared to Normal Growth after Rapid Maxillary Expansion Anchored onto Deciduous Teeth: A CBCT Retrospective Study. *Eur. J. Paediatr. Dent.* 2024, 25, 310–317, doi:10.23804/ejpd.2024.2330.
 224. Iwasaki, T.; Papageorgiou, S.N.; Yamasaki, Y.; Ali Darendeliler, M.; Papadopoulou, A.K. Nasal Ventilation and Rapid Maxillary Expansion (RME): A Randomized Trial. *Eur. J. Orthod.* 2021, 43, 283–292, doi:10.1093/ejo/cjab001.
 225. Fleming, P.S. Need for Further Clarity on Optimal Approach to Ectopic Canines. *Evid. Based Dent.* 2012, 13, 81, doi:10.1038/sj.ebd.6400876.
 226. 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.
 227. Arezzo, F.; Cormio, G.; La Forgia, D.; Santarsiero, C.M.; Mongelli, M.; Lombardi, C.; Cazzato, G.; Cicinelli, E.; Loizzi, V. A Machine Learning Approach Applied to Gynecological Ultrasound to Predict Progression-Free Survival in Ovarian Cancer Patients. *Arch. Gynecol. Obstet.* 2022, 306, 2143–2154, doi:10.1007/s00404-022-06578-1.
 228. Romasco, T.; Tumedei, M.; Inchingolo, F.; Pignatelli, P.; Montesani, L.; Iezzi, G.; Petri, 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. *J. Funct. Biomater.* 2022, 13, 121, doi:10.3390/jfb13030121.
 229. Mongardini, C.; Pilloni, A.; Farina, R.; Di Tanna, G.; Zeza, B. Adjunctive Efficacy of Probiotics in the Treatment of Experimental Peri-Implant Mucositis with Mechanical and Photodynamic Therapy: A Randomized, Cross-over Clinical Trial. *J. Clin. Periodontol.* 2017, 44, 410–417, doi:10.1111/jcpe.12689.
 230. 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.
 231. 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.
 232. Balzanelli, M.G.; Distratis, P.; Aityan, S.K.; Amatulli, F.; Catucci, 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.
 233. 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. *Bioeng. Basel Switz.* 2023, 10, 472, doi:10.3390/bioengineering10040472.
 234. Balzanelli, M.G.; Distratis, P.; Lazzaro, R.; Pham, V.H.; Tran, T.C.; Dipalma, G.; Bianco, A.; Serlenga, E.M.; Aityan, S.K.; Pierangeli, V.; et al. Analysis of Gene Single Nucleotide Polymorphisms in COVID-19 Disease Highlighting the Susceptibility and the Severity towards the Infection. *Diagnostics* 2022, 12, 2824, doi:10.3390/diagnostics12112824.
 235. 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.
 236. 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.
 237. 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.
 238. 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. *Diagn. Basel Switz.* 2023, 13, 3677, doi:10.3390/diagnostics13243677.
 239. 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.
240. 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.
 241. 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. *Antioxid. Basel Switz.* 2023, 12, 1309, doi:10.3390/antiox12061309.
 242. 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.
 243. 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.jormas.2020.03.003.
 244. 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.
 245. Bellocchio, L.; Inchingolo, A.D.; Inchingolo, A.M.; Lorusso, F.; Malcangi, G.; Santacroce, L.; Scarano, A.; Bordea, I.R.; Hazbala, 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.
 246. Inchingolo, A.M.; Inchingolo, A.D.; Latini, G.; Garofoli, G.; Sardano, R.; De Leonardis, 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.
 247. 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.
 248. 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.
 249. 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.
 250. 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 Temporo-Mandibular Disorders. *Eur. Rev. Med. Pharmacol. Sci.* 2011, 15, 1296–1300.
 251. Ballini, A.; Cantore, S.; Signorini, L.; Saini, R.; Scacco, S.; Gnani, 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.
 252. Ballini, A.; Cantore, S.; Fotopoulou, E.A.; Georgakopoulos, I.P.; Athanasiou, E.; Bellas, 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.
 253. Inchingolo, F.; Tatullo, M.; Abenavoli, F.M.; Marrelli, M.; Inchingolo, A.D.; Inchingolo, A.M.; Dipalma, G. Comparison between Traditional Surgery, CO2 and Nd:Yag Laser Treatment for Generalized Gingival Hyperplasia in Sturge-Weber Syndrome: A Retrospective Study. *J. Investig. Clin. Dent.* 2010, 1, 85–89, doi:10.1111/j.2041-1626.2010.00020.x.
 254. Patianna, A.G.; Ballini, A.; Meneghello, M.; Cantore, S.; Inchingolo, A.M.; Dipalma, G.; Inchingolo, A.D.; Inchingolo, F.; Malcangi, G.; Lucchese, A.; et al. Comparison of Conventional Orthognathic Surgery and “Surgery-First” Protocol: A New Weapon against Time. *J. Biol. Regul. Homeost. Agents* 2019, 33, 59–67. DENTAL SUPPLEMENT.
 255. 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:10.23812/21-2suppl-37.
 256. Inchingolo, F.; Dipalma, G.; Paduanelli, G.; De Oliveira, L.A.; Inchingolo, A.M.; Georgakopoulos, P.I.; Inchingolo, A.D.; Malcangi, G.; Athanasiou, 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.
 257. Ceratti, 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. *Bioeng. Basel Switz.* 2022, 9, 102, doi:10.3390/bioengineering9030102.
 258. Patano, A.; Malcangi, G.; De Santis, M.; Morolla, R.; Settanni, V.; Piras, F.; Inchingolo, A.D.; Mancini, A.; Inchingolo, F.; Dipalma, G.; et al. Conservative Treatment of Dental Non-Carious Cervical Lesions: A Scoping Review. *Biomedicines* 2023, 11, 1530, doi:10.3390/biomedicines11061530.
 259. 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. *Appl. Sci.* 2022, 12, 6709, doi:10.3390/app12136709.
 260. Ferrigno, N.; Laureti, M.; Fanali, S. Dental Implants Placement in Conjunction with Osteotome Sinus Floor Elevation: A 12-Year Life-Table Analysis from a Prospective Study on 588 ITI Implants. *Clin. Oral Implants Res.* 2006, 17, 194–205, doi:10.1111/j.1600-0501.2005.01192.x.
 261. 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.
 262. 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. *Appl. Sci.* 2022, 12, 4646, doi:10.3390/app12094646.
 263. Mandriani, B.; Pellè, E.; Mannavola, F.; Palazzo, A.; Marsano, R.M.; Ingravallo, G.; Cazzato, G.; Ramello, M.C.; Porta, C.; Strosberg, J.; et al. Development of Anti-Somatostatin Receptors CAR T Cells for Treatment of Neuroendocrine Tumors. *J. Immunother. Cancer* 2022, 10, e004854, doi:10.1136/jitc-2022-004854.
 264. Patano, A.; Inchingolo, A.D.; Malcangi, G.; Garibaldi, M.; De Leonardis, N.; Campanelli, M.; Palumbo, I.; Benagiano, S.; Bordea, I.R.; Minetti, E.; et al. Direct and Indirect Bonding Techniques in Orthodontics: A Systematic Review. *Eur. Rev. Med. Pharmacol. Sci.* 2023, 27, 8039–8054, doi:10.26355/eurrev_202309_33565.
 265. 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.
266. Grassi, F.R.; Ciccolella, F.; D'Apollito, 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.
267. Inchingolo, A.D.; Patano, A.; Coloccia, G.; Ceci, S.; Inchingolo, A.M.; Marinelli, G.; Malcangi, G.; Montenegro, V.; Laudadio, C.; Pedè, C.D.; et al. The Efficacy of a New AMCOP® Elastodontic Protocol for Orthodontic Interceptive Treatment: A Case Series and Literature Overview. *Int. J. Environ. Res. Public. Health* 2022, 19, 988, doi:10.3390/ijerph19020988.
268. 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.
269. 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.
270. Lauritano, D.; Bignozzi, C.A.; Pazzi, D.; Cura, F.; Carinci, F. Efficacy of a New Coating of Implant-Abutment Connections in Reducing Bacterial Loading: An *in Vitro* Study. *ORAL Implantol.* 2017, 10, 1–10, doi:10.11138/orl/2017.10.1.001.
271. Quaranta, A.; Ronconi, L.F.; Di Carlo, F.; Voza, I.; Quaranta, M. Electrochemical Behaviour of Titanium in Ammine and Stannous Fluoride and Chlorhexidine 0.2 Percent Mouthwashes. *Int. J. Immunopathol. Pharmacol.* 2010, 23, 335–343, doi:10.1177/039463201002300132.
272. 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.
273. Santacroce, L.; Di Cosola, M.; Botalico, 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.
274. Pacifici, L.; Santacroce, L.; Dipalma, G.; Haxhixexha, 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.
275. 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. *Med. Kaunas Lith.* 2021, 57, 1350, doi:10.3390/medicina57121350.
276. Fari, G.; Megna, M.; Scacco, S.; Ranieri, M.; Raelè, 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 Nutraceutical Integration in Knee Osteoarthritis: A Double-Blind Prospective Case-Control Study. *Med. Kaunas Lith.* 2023, 59, 191, doi:10.3390/medicina59020191.
277. 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.
278. 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.
279. 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.
280. 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.
281. 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.
282. Maspero, C.; Abate, A.; Inchingolo, F.; Dolci, C.; Galetti, M.G.; Tartaglia, G.M. Incidental Finding in Pre-Orthodontic Treatment Radiographs of an Aural Foreign Body: A Case Report. *Child. Basel Switz.* 2022, 9, 421, doi:10.3390/children9030421.
283. Cirulli, N.; Inchingolo, A.D.; Patano, A.; Ceci, S.; Marinelli, G.; Malcangi, G.; Coloccia, G.; Montenegro, V.; Di Pedè, 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.
284. Inchingolo, F.; Hazballa, 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. *Mater. Basel Switz.* 2022, 15, 1120, doi:10.3390/ma15031120.
285. Maspero, C.; Cappella, A.; Dolci, C.; Galetti, M.G.; Inchingolo, F.; Sforza, C. Is Orthodontic Treatment with Microperforations Worth It? A Scoping Review. *Child. Basel Switz.* 2022, 9, 208, doi:10.3390/children9020208.
286. 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.
287. Goldoni, R.; Scolaro, A.; Boccalari, 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* 2021, 11, 396, doi:10.3390/bios11100396.
288. Inchingolo, F.; Inchingolo, A.D.; Palumbo, I.; Guglielmo, M.; Balestriere, L.; Casamassima, L.; Ciccarese, D.; Marotti, P.; Mancini, A.; Palermo, A.; et al. Management of Physiological Gingival Melanosis by Diode Laser Depigmentation versus Surgical Scalpel: A Systematic Review. *Dent. Rev.* 2024, 4, 100146, doi:10.1016/j.dentre.2024.100146.
289. 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. *Appl. Sci.* 2021, 11, 1696, doi:10.3390/app11041696.
290. 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.
291. 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.

292. 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. *Child. Basel Switz.* 2022, 9, 1846, doi:10.3390/children9121846.
293. Giordano, M.; Turatti, G.; Parodi, G.; Luciani, M.; Laganà, D. The maxillary protraction treatment: description of a laser Er:Yag-assisted surgical technique. Case report. *Minerva Stomatol.* 2009, 58, 307–315.
294. 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.
295. Contaldo, M.; Fusco, A.; Stiuso, P.; Lama, S.; Gravina, A.G.; Itrò, A.; Federico, A.; Itrò, 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.
296. Pithon, M.M.; Reyes, A.A.; Mota-Júnior, S.L.; Castilhos, J.S.; Tanaka, O.M. Nonsurgical Treatment of Anterior Crossbite in a Cleft Lip and Palate Patient Using a Fan-Type Rapid Palatal Expander and Fixed Appliances. *J. Clin. Orthod.* 2023, 57, 397–406.
297. 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.
298. Contaldo, M.; Itrò, A.; Lajolo, C.; Gioco, G.; Inchingolo, F.; Serpico, R. Overview on Osteoporosis, Periodontitis and Oral Dysbiosis: The Emerging Role of Oral Microbiota. *Appl. Sci.* 2020, 10, 6000, doi:10.3390/app10176000.
299. 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.
300. 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.
301. 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.
302. 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.
303. Arezzo, F.; Loizzi, V.; La Forgia, D.; Moschetta, M.; Tagliafico, A.S.; Cataldo, V.; Kawosha, A.A.; Venerito, V.; Cazzato, G.; Ingravallo, G.; et al. Radiomics Analysis in Ovarian Cancer: A Narrative Review. *Appl. Sci.* 2021, 11, 7833, doi:10.3390/app11177833.
304. 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. *Appl. Sci.* 2021, 11, 395, doi:10.3390/app11010395.
305. 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.
306. 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.
307. 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. *Appl. Sci.* 2019, 9, 2837, doi:10.3390/app9142837.
308. Baldini, A.; Nota, A.; Santariello, C.; Caruso, S.; Assi, V.; Ballanti, F.; Gatto, R.; Cozza, P. Sagittal Dentoskeletal Modifications Associated with Different Activation Protocols of Rapid Maxillary Expansion. *Eur. J. Paediatr. Dent.* 2018, 19, 151–155, doi:10.23804/ejpd.2018.19.02.10.
309. 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.
310. 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. *Mater. Basel Switz.* 2023, 16, 4945, doi:10.3390/ma16144945.
311. Abreu, R.R.; Rocha, R.L.; Lamounier, J.A.; Guerra, A.F.M. Etiology, Clinical Manifestations and Concurrent Findings in Mouth-Breathing Children. *J. Pediatr. (Rio J.)* 2008, 84, 529–535, doi:10.2223/JPED.1844.
312. Alfieri, V.; Myasoedova, V.A.; Vinci, M.C.; Rondinelli, M.; Songia, P.; Massaiu, I.; Cosentino, N.; Moschetta, D.; Valerio, V.; Ciccarelli, M.; et al. The Role of Glycemic Variability in Cardiovascular Disorders. *Int. J. Mol. Sci.* 2021, 22, 8393, doi:10.3390/ijms22168393.
313. Alzahabi, R.; Becker, M.W. The Association between Media Multitasking, Task-Switching, and Dual-Task Performance. *J. Exp. Psychol. Hum. Percept. Perform.* 2013, 39, 1485–1495, doi:10.1037/a0031208.
314. Avvanzo, P.; Ciavarella, D.; Avvanzo, A.; Giannone, N.; Carella, M.; Lo Muzio, L. Immediate Placement and Temporization of Implants: Three- to Five-Year Retrospective Results. *J. Oral Implantol.* 2009, 35, 136–142, doi:10.1563/1548-1336-35.3.136.
315. 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.
316. 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.
317. Ballini, A.; Gnoni, A.; De Vito, D.; Dipalma, G.; Cantore, S.; Gargiulo Isacco, C.; Saini, R.; Santacroce, L.; Topi, S.; Scarano, A.; et al. Effect of Probiotics on the Occurrence of Nutrition Absorption Capacities in Healthy Children: A Randomized Double-Blinded Placebo-Controlled Pilot Study. *Eur. Rev. Med. Pharmacol. Sci.* 2019, 23, 8645–8657, doi:10.26355/eurrev_201910_19182.
318. Bambini, F.; De Stefano, C.A.; Giannetti, L.; Memè, L.; Pellicchia, M. (Influence of bisphosphonates on the integration process of endosseous implants evaluated using single photon emission computerized tomography (SPECT)). *Minerva Stomatol.* 2003, 52, 331–338.
319. Bambini, F.; Giannetti, L.; Memè, L.; Pellicchia, M.; Selvaggio, R. Comparative Analysis of Direct and Indirect Implant Impression Techniques an in Vitro Study. *An in Vitro Study. Minerva Stomatol.* 2005, 54, 395–402.
320. Wulifan, J.K.; Brenner, S.; Jahn, A.; De Allegri, M. A

- Scoping Review on Determinants of Unmet Need for Family Planning among Women of Reproductive Age in Low and Middle Income Countries. *BMC Womens Health* 2016, 16, 2, doi:10.1186/s12905-015-0281-3.
321. Winkler, P.; de Vrese, M.; Laue, C.; Schrezenmeier, J. Effect of a Dietary Supplement Containing Probiotic Bacteria plus Vitamins and Minerals on Common Cold Infections and Cellular Immune Parameters. *Int. J. Clin. Pharmacol. Ther.* 2005, 43, 318–326, doi:10.5414/cpp43318.
 322. Warnier, M.; Piron, L.; Morsomme, D.; Maillart, C. Assessment of Mouth Breathing by Speech-Language Pathologists: An International Delphi Consensus. *CoDAS* 2022, 35, e20220065, doi:10.1590/2317-1782/20232022065.
 323. Urzi, O.; Gasparro, R.; Ganji, N.R.; Alessandro, R.; Raimondo, S. Plant-RNA in Extracellular Vesicles: The Secret of Cross-Kingdom Communication. *Membranes* 2022, 12, 352, doi:10.3390/membranes12040352.
 324. Urzi, O.; Gasparro, R.; Costanzo, E.; De Luca, A.; Giavaresi, G.; Fontana, S.; Alessandro, R. Three-Dimensional Cell Cultures: The Bridge between In Vitro and In Vivo Models. *Int. J. Mol. Sci.* 2023, 24, 12046, doi:10.3390/ijms241512046.
 325. Urzi, O.; Cafora, M.; Ganji, N.R.; Tinnirello, V.; Gasparro, R.; Raccosta, S.; Manno, M.; Corsale, A.M.; Conigliaro, A.; Pistocchi, A.; et al. Lemon-Derived Nanovesicles Achieve Antioxidant and Anti-Inflammatory Effects Activating the AhR/Nrf2 Signaling Pathway. *iScience* 2023, 26, 107041, doi:10.1016/j.isci.2023.107041.
 326. Tinnirello, V.; Zizzo, M.G.; Conigliaro, A.; Tabone, M.; Ganji, N.R.; Cicio, A.; Bressa, C.; Larrosa, M.; Rappa, F.; Vergilio, G.; et al. Industrial-Produced Lemon Nanovesicles Ameliorate Experimental Colitis-Associated Damages in Rats via the Activation of Anti-Inflammatory and Antioxidant Responses and Microbiota Modification. *Biomed. Pharmacother. Biomedecine Pharmacother.* 2024, 174, 116514, doi:10.1016/j.biopha.2024.116514.
 327. Tecco, S.; Mummolo, S.; Marchetti, E.; Tetè, S.; Campanella, V.; Gatto, R.; Gallusi, G.; Tagliabue, A.; Marzo, G. sEMG Activity of Masticatory, Neck, and Trunk Muscles during the Treatment of Scoliosis with Functional Braces. A Longitudinal Controlled Study. *J. Electromyogr. Kinesiol. Off. J. Int. Soc. Electrophysiol. Kinesiol.* 2011, 21, 885–892, doi:10.1016/j.jelekin.2011.08.004.
 328. Strappa, E.M.; Memè, L.; Cerea, M.; Roy, M.; Bambini, F. Custom-Made Additively Manufactured Subperiosteal Implant. *Minerva Dent. Oral Sci.* 2022, 71, 353–360, doi:10.23736/S2724-6329.22.04640-X.
 329. Stammers, A.H.; Trowbridge, C.C.; Marko, M.; Woods, E.L.; Brindisi, N.; Pezzuto, J.; Klayman, M.; Fleming, S.; Petzold, J. Autologous Platelet Gel: Fad or Savoir? Do We Really Know? *J. Extra. Corpor. Technol.* 2009, 41, P25–P30.
 330. Sisillo, E.; Marenzi, G. N-Acetylcysteine for the Prevention of Acute Kidney Injury after Cardiac Surgery. *J. Clin. Pharmacol.* 2011, 51, 1603–1610, doi:10.1177/0091270010384117.
 331. Sisillo, E.; Ceriani, R.; Bortone, F.; Juliano, G.; Salvi, L.; Veglia, F.; Fiorentini, C.; Marenzi, G. N-Acetylcysteine for Prevention of Acute Renal Failure in Patients with Chronic Renal Insufficiency Undergoing Cardiac Surgery: A Prospective, Randomized, Clinical Trial. *Crit. Care Med.* 2008, 36, 81–86, doi:10.1097/01.CCM.0000295305.22281.1D.
 332. Silvestrini Biavati, A.; Tecco, S.; Migliorati, M.; Festa, F.; Panza, G.; Marzo, G.; Gherlone, E.; Tetè, S. Three-Dimensional Tomographic Mapping Related to Primary Stability and Structural Miniscrew Characteristics. *Orthod. Craniofac. Res.* 2011, 14, 88–99, doi:10.1111/j.1601-6343.2011.01512.x.
 333. 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.
 334. Shankar, A.; Parascandola, M.; Sakthivel, P.; Kaur, J.; Saini, D.; Jayaraj, N.P. Advancing Tobacco Cessation in LMICs. *Curr. Oncol. Tor. Ont* 2022, 29, 9117–9124, doi:10.3390/currncol29120713.
 335. Sedgh, G.; Hussain, R. Reasons for Contraceptive Nonuse among Women Having Unmet Need for Contraception in Developing Countries. *Stud. Fam. Plann.* 2014, 45, 151–169, doi:10.1111/j.1728-4465.2014.00382.x.
 336. Schneider, D.W.; Chun, H. Partitioning Switch Costs When Investigating Task Switching in Relation to Media Multitasking. *Psychon. Bull. Rev.* 2021, 28, 910–917, doi:10.3758/s13423-021-01895-z.
 337. 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.
 338. Scarano, A.; Lorusso, F.; Inchingolo, F.; Postiglione, F.; Pettrini, M. The Effects of Erbium-Doped Yttrium Aluminum Garnet Laser (Er: YAG) Irradiation on Sandblasted and Acid-Etched (SLA) Titanium, an In Vitro Study. *Materials* 2020, 13, 4174, doi:10.3390/ma13184174.
 339. 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.
 340. 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.
 341. 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.
 342. 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.
 343. Sami, H.; Danielle, L.; Lihi, D.; Elena, S. The Effect of Sleep Disturbances and Internet Addiction on Suicidal Ideation among Adolescents in the Presence of Depressive Symptoms. *Psychiatry Res.* 2018, 267, 327–332, doi:10.1016/j.psychres.2018.03.067.
 344. Rydén, L. Technological Development and Lifestyle Changes. In *Sustainable Development, Knowledge Society and Smart Future Manufacturing Technologies*; Leal Filho, W., Úbelis, A., Bērziņa, D., Eds.; Springer International Publishing: Cham, 2015; pp. 113–124 ISBN 978-3-319-14883-0.
 345. Rony, M.K.K.; Alamgir, H.M. High Temperatures on Mental Health: Recognizing the Association and the Need for Proactive Strategies—A Perspective. *Health Sci. Rep.* 2023, 6, e1729, doi:10.1002/hsr2.1729.
 346. 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 Bio-Medica Atenei Parm.* 2018, 90, 5–10, doi:10.23750/abm.v90i1.6563.
 347. 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 Bio-Medica Atenei Parm.* 2018, 90, 5–10, doi:10.23750/abm.v90i1.6563.
 348. Rapone, B.; Ferrara, E.; Qorri, E.; Dipalma, G.; Mancini, A.; Corsalini, M.; Fabbro, M.D.; Scarano, A.; Tartaglia, G.M.; Inchingolo, F. The Impact of Periodontal Inflammation on Endothelial Function Assessed by Circulating Levels of Asymmetric Dimethylarginine: A Single-Blinded Randomized Clinical Trial. *J. Clin. Med.* 2022, 11, 4173, doi:10.3390/jcm11144173.
 349. Raghu, G.; Berk, M.; Campochiaro, P.A.; Jaeschke, H.; Marenzi, G.; Richeldi, L.; Wen, F.-Q.; Nicoletti, F.; Calverley, P.M.A. The Multifaceted Therapeutic Role of N-Acetylcysteine (NAC) in Disorders Characterized by Oxidative Stress. *Curr. Neuropharmacol.* 2021, 19, 1202–

- 1224, doi:10.2174/1570159X19666201230144109.
350. Pichiri, G.; Nieddu, M.; Manconi, S.; Casu, C.; Coni, P.; Salvadori, S.; Mezzanotte, R. Isolation and Characterization of Two Different 5S rDNA in *Anguilla Anguilla* and *Anguilla Rostrata*: Possible Markers of Evolutionary Divergence. *Mol. Ecol. Notes* 2006, 6, 638–641, doi:10.1111/j.1471-8286.2006.01394.x.
 351. Palermo, A.; Tuccinardi, D.; Defeudis, G.; Watanabe, M.; D'Onofrio, L.; Lauria Pantano, A.; Napoli, N.; Pozzilli, P.; Manfrini, S. BMI and BMD: The Potential Interplay between Obesity and Bone Fragility. *Int. J. Environ. Res. Public Health* 2016, 13, 544, doi:10.3390/ijerph13060544.
 352. Palermo, A.; Naciu, A.M.; Tabacco, G.; Manfrini, S.; Trimboli, P.; Vescini, F.; Falchetti, A. Calcium Citrate: From Biochemistry and Physiology to Clinical Applications. *Rev. Endocr. Metab. Disord.* 2019, 20, 353–364, doi:10.1007/s11154-019-09520-0.
 353. Minervini, G.; Russo, D.; Herford, A.S.; Gorassini, F.; Meto, A.; D'Amico, C.; Cervino, G.; Cicciù, M.; Fiorillo, L. Teledentistry in the Management of Patients with Dental and Temporomandibular Disorders. *BioMed Res. Int.* 2022, 2022, 7091153, doi:10.1155/2022/7091153.
 354. Minervini, G.; Franco, R.; Marrapodi, M.M.; Fiorillo, L.; Cervino, G.; Cicciù, M. Economic Inequalities and Temporomandibular Disorders: A Systematic Review with Meta-Analysis. *J. Oral Rehabil.* 2023, 50, 715–723, doi:10.1111/joor.13491.
 355. Minervini, G.; Franco, R.; Marrapodi, M.M.; Crimi, S.; Badnjević, A.; Cervino, G.; Bianchi, A.; Cicciù, M. Correlation between Temporomandibular Disorders (TMD) and Posture Evaluated Through the Diagnostic Criteria for Temporomandibular Disorders (DC/TMD): A Systematic Review with Meta-Analysis. *J. Clin. Med.* 2023, 12, 2652, doi:10.3390/jcm12072652.
 356. Minervini, G.; Franco, R.; Marrapodi, M.M.; Mehta, V.; Fiorillo, L.; Badnjević, A.; Cervino, G.; Cicciù, M. Gaucher: A Systematic Review on Oral and Radiological Aspects. *Med. Kaunas Lith.* 2023, 59, 670, doi:10.3390/medicina59040670.
 357. Minervini, G.; Del Mondo, D.; Russo, D.; Cervino, G.; D'Amico, C.; Fiorillo, L. Stem Cells in Temporomandibular Joint Engineering: State of Art and Future Perspectives. *J. Craniofac. Surg.* 2022, 33, 2181–2187, doi:10.1097/SCS.00000000000008771.
 358. Meme, L.; Santarelli, A.; Marzo, G.; Emanuelli, M.; Nocini, P.F.; Bertossi, D.; Putignano, A.; Dioguardi, M.; Lo Muzio, L.; Bambini, F. Novel Hydroxyapatite Biomaterial Covalently Linked to Raloxifene. *Int. J. Immunopathol. Pharmacol.* 2014, 27, 437–444, doi:10.1177/039463201402700315.
 359. Meloni, M.; Angelucci, G.; Merella, P.; Siddi, R.; Deiana, C.; Orrù, G.; Salati, F. Molecular Characterization of *Anisakis* Larvae from Fish Caught off Sardinia. *J. Parasitol.* 2011, 97, 908–914, doi:10.1645/GE-2742.1.
 360. Mehta, V.; Sarode, G.S.; Obulareddy, V.T.; Sharma, T.; Kokane, S.; Cicciù, M.; Minervini, G. Clinicopathologic Profile, Management and Outcome of Sinonasal Ameloblastoma-A Systematic Review. *J. Clin. Med.* 2023, 12, 381, doi:10.3390/jcm12010381.
 361. 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.
 362. Marenzi, G.; Bartorelli, A.L. Recent Advances in the Prevention of Radiocontrast-Induced Nephropathy. *Curr. Opin. Crit. Care* 2004, 10, 505–509, doi:10.1097/01.ccx.0000145098.13199.e8.
 363. Marchetti, E.; Mummolo, S.; Di Mattia, J.; Casalena, F.; Di Martino, S.; Mattei, A.; Marzo, G. Efficacy of Essential Oil Mouthwash with and without Alcohol: A 3-Day Plaque Accumulation Model. *Trials* 2011, 12, 262, doi:10.1186/1745-6215-12-262.
 364. Orben, A. The Sisyphus Cycle of Technology Panics. *Perspect. Psychol. Sci. J. Assoc. Psychol. Sci.* 2020, 15, 1143–1157, doi:10.1177/1745691620919372.
 365. Nosotti, M.G. Use of Chlorhexidine, Side Effects and Antibiotic Resistance. *PDF. Biointerface Res. Appl. Chem.* 2018.
 366. Nakshine, V.S.; Thute, P.; Khatib, M.N.; Sarkar, B. Increased Screen Time as a Cause of Declining Physical, Psychological Health, and Sleep Patterns: A Literary Review. *Cureus* 2014, e30051, doi:10.7759/cureus.30051.
 367. Naidoo, D.; Nhamo, L.; Mpandeli, S.; Sobratee, N.; Senzanje, A.; Liphadzi, S.; Slotow, R.; Jacobson, M.; Modi, A.T.; Mabhaudhi, T. Operationalising the Water-Energy-Food Nexus through the Theory of Change. *Renew. Sustain. Energy Rev.* 2021, 149, 111416, doi:10.1016/j.rser.2021.111416.
 368. Nahidh, M.; Al-Khawaja, N.F.K.; Jasim, H.M.; Cervino, G.; Cicciù, M.; Minervini, G. The Role of Social Media in Communication and Learning at the Time of COVID-19 Lockdown-An Online Survey. *Dent. J.* 2023, 11, 48, doi:10.3390/dj11020048.
 369. Mpandeli, S.; Naidoo, D.; Mabhaudhi, T.; Nhemachena, C.; Nhamo, L.; Liphadzi, S.; Hlahla, S.; Modi, A.T. Climate Change Adaptation through the Water-Energy-Food Nexus in Southern Africa. *Int. J. Environ. Res. Public Health* 2018, 15, 2306, doi:10.3390/ijerph15102306.
 370. Mosaico, G.; Artuso, G.; Pinna, M.; Denotti, G.; Orrù, G.; Casu, C. Host Microbiota Balance in Teenagers with Gum Hypertrophy Concomitant with Acne Vulgaris: Role of Oral Hygiene Associated with Topical Probiotics. *Microorganisms* 2022, 10, 1344, doi:10.3390/microorganisms10071344.
 371. 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.
 372. Ma, H.; Mu, X.; Jin, Y.; Luo, Y.; Wu, M.; Han, Z. Multimorbidity, Lifestyle, and Cognitive Function: A Cross-Cultural Study on the Role of Diabetes, Cardiovascular Disease, Cancer, and Chronic Respiratory Diseases. *J. Affect. Disord.* 2024, 362, 560–568, doi:10.1016/j.jad.2024.07.053.
 373. Lupton, D. Young People's Use of Digital Health Technologies in the Global North: Narrative Review. *J. Med. Internet Res.* 2021, 23, e18286, doi:10.2196/18286.
 374. 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.
 375. 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.
 376. Lorusso, F.; Inchingolo, F.; Scarano, A. The Impact of COVID-19 on the Scientific Production Spread: A Five-Month Bibliometric Report of the Worldwide Research Community. 2020, doi:10.19193/0393-6384_2020_6_515.
 377. Lorenzini, E.C.; Lazzari, B.; Tartaglia, G.M.; Farronato, G.; Lanteri, V.; Botti, S.; Biscarini, F.; Cozzi, P.; Stella, A. Oral Ecological Environment Modifications by Hard-Cheese: From pH to Microbiome: A Prospective Cohort Study Based on 16S rRNA Metabarcoding Approach. *J. Transl. Med.* 2022, 20, 312, doi:10.1186/s12967-022-03506-4.
 378. Lo Muzio, L.; Santarelli, A.; Panzarella, V.; Campisi, G.; Carella, M.; Ciavarella, D.; Di Cosola, M.; Giannone, N.; Bascones, A. Oral Squamous Cell Carcinoma and Biological Markers: An Update on the Molecules Mainly Involved in Oral Carcinogenesis. *Minerva Stomatol.* 2007, 56, 341–347.
 379. Lissak, G. Adverse Physiological and Psychological Effects of Screen Time on Children and Adolescents: Literature Review and Case Study. *Environ. Res.* 2018, 164, 149–157, doi:10.1016/j.envres.2018.01.015.
 380. Lin, L.; Zhao, T.; Qin, D.; Hua, F.; He, H. The Impact of Mouth Breathing on Dentofacial Development: A Concise Review. *Front. Public Health* 2022, 10, 929165, doi:10.3389/fpubh.2022.929165.
 381. Libonati, A.; Marzo, G.; Klinger, F.G.; Farini, D.; Gallusi, G.; Tecco, S.; Mummolo, S.; De Felici, M.; Campanella,

- V. Embryotoxicity Assays for Leached Components from Dental Restorative Materials. *Reprod. Biol. Endocrinol.* RBE 2011, 9, 136, doi:10.1186/1477-7827-9-136.
382. 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:10.23812/21-2supp1-27.
383. 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.
384. Lachowicz, J.I.; Szczepski, K.; Scano, A.; Casu, C.; Fais, S.; Orrù, G.; Pisano, B.; Piras, M.; Jaremkó, M. The Best Peptidomimetic Strategies to Undercover Antibacterial Peptides. *Int. J. Mol. Sci.* 2020, 21, 7349, doi:10.3390/ijms21197349.
385. Kuwahara, T.; Bessette, R.W.; Maruyama, T. Chewing Pattern Analysis in TMD Patients with and without Internal Derangement: Part I. Cranio J. Craniomandib. Pract. 1995, 13, 8–14, doi:10.1080/08869634.1995.11678035.
386. Kumar, N.; Janmohamed, K.; Jiang, J.; Ainooson, J.; Billings, A.; Chen, G.Q.; Chumo, F.; Cueto, L.; Niaura, R.; Zhang, A. Tobacco Cessation in Low- to Middle-Income Countries: A Scoping Review of Randomized Controlled Trials. *Addict. Behav.* 2021, 112, 106612, doi:10.1016/j.addbeh.2020.106612.
387. Kumar, N.; Ainooson, J.; Billings, A.; Chen, G.; Cueto, L.; Janmohamed, K.; Jiang, J.; Niaura, R.; Zhang, A. The Scope of Tobacco Cessation Randomized Controlled Trials in Low- to Middle-Income Countries: Protocol for a Scoping Review. *Syst. Rev.* 2020, 9, 86, doi:10.1186/s13643-020-01361-2.
388. Kiani, A.K.; Pheby, D.; Henehan, G.; Brown, R.; Sieving, P.; Sykora, P.; Marks, R.; Falsini, B.; Capodicasa, N.; Miertus, S.; et al. Ethical Considerations Regarding Animal Experimentation. *J. Prev. Med. Hyg.* 2022, 63, E255–E266, doi:10.15167/2421-4248/jpmh2022.63.2S3.2768.
389. Kaur, K.; Suneja, B.; Jodhka, S.; Saini, R.S.; Chaturvedi, S.; Bavabeddu, S.S.; Alhamoudi, F.H.; Ciccì, M.; Minervini, G. Comparison between Restorative Materials for Pulpotomised Deciduous Molars: A Randomized Clinical Study. *Child. Basel Switz.* 2023, 10, 284, doi:10.3390/children10020284.
390. Kalcev, G.; Scano, A.; Orrù, G.; Primavera, D.; Cossu, G.; Nardi, A.E.; Carta, M.G. Is a Genetic Variant Associated with Bipolar Disorder Frequent in People without Bipolar Disorder but with Characteristics of Hyperactivity and Novelty Seeking? *Clin. Pract. Epidemiol. Ment. Health CP EMH* 2023, 19, e174501792303280, doi:10.2174/17450179-v19-e230419-2022-53.
391. Johnson, B.; Toland, B.; Chokshi, R.; Mochalin, V.; Koutzaki, S.; Polyak, B. Magnetically Responsive Paclitaxel-Loaded Biodegradable Nanoparticles for Treatment of Vascular Disease: Preparation, Characterization and in Vitro Evaluation of Anti-Proliferative Potential. *Curr. Drug Deliv.* 2010, 7, 263–273, doi:10.2174/156720110793360621.
392. Bambini, F.; Orilisi, G.; Quaranta, A.; Memè, L. Biological Oriented Immediate Loading: A New Mathematical Implant Vertical Insertion Protocol, Five-Year Follow-Up Study. *Mater. Basel Switz.* 2021, 14, 387, doi:10.3390/ma14020387.
393. Bambini, F.; Memè, L.; Procaccini, M.; Rossi, B.; Lo Muzio, L. Bone Scintigraphy and SPECT in the Evaluation of the Osseointegrative Response to Immediate Prosthetic Loading of Endosseous Implants: A Pilot Study. *Int. J. Oral Maxillofac. Implants* 2004, 19, 80–86.
394. Bambini, F.; Memè, L.; Pellicchia, M.; Sabatucci, A.; Selvaggio, R. Comparative Analysis of Deformation of Two Implant/Abutment Connection Systems during Implant Insertion. An in Vitro Study. *Minerva Stomatol.* 2005, 54, 129–138.
395. Bambini, F.; Greci, L.; Memè, L.; Santarelli, A.; Carinci, F.; Pezzetti, F.; Procaccini, M.; Lo Muzio, L. Raloxifene Covalently Bonded to Titanium Implants by Interfacing with (3-Aminopropyl)-Triethoxysilane Affects Osteoblast-like Cell Gene Expression. *Int. J. Immunopathol. Pharmacol.* 2006, 19, 905–914, doi:10.1177/039463200601900420.
396. The Many Faces of Eczema and Its Treatments - PubMed Available online: <https://pubmed.ncbi.nlm.nih.gov/29891117/> (accessed on 7 January 2025).
397. Genetic Pattern, Orthodontic and Surgical Management of Multiple Supplementary Impacted Teeth in a Rare, Cleidocranial Dysplasia Patient: A Case Report Available online: <https://www.mdpi.com/1648-9144/57/12/1350> (accessed on 7 January 2025).
398. Epithelial Biological Response to Machined Titanium vs. PVD Zirconium-Coated Titanium: An In Vitro Study Available online: <https://www.mdpi.com/1996-1944/15/20/7250> (accessed on 7 January 2025).
399. 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 7 January 2025).
400. Cantore, S.; Mirgaldi, R.; Ballini, A.; Coscia, M.F.; Scacco, S.; Papa, F.; Inchingolo, F.; Dipalma, G.; De Vito, D. Cytokine Gene Polymorphisms Associate with Microbiological Agents in Periodontal Disease: Our Experience. *Int. J. Med. Sci.* 2014, 11, 674–679, doi:10.7150/ijms.6962.
401. 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.
402. Campobasso, A.; Lo Muzio, E.; Battista, G.; Ciavarella, D.; Crincoli, V.; Lo Muzio, L. Taxonomic Analysis of Oral Microbiome during Orthodontic Treatment. *Int. J. Dent.* 2021, 2021, 8275181, doi:10.1155/2021/8275181.
403. Bordea, I.R.; Xhajanka, E.; Candrea, S.; Bran, S.; Onişor, F.; Inchingolo, A.D.; Malcangi, G.; Pham, V.H.; Inchingolo, A.M.; Scarano, A.; et al. Coronavirus (SARS-CoV-2) Pandemic: Future Challenges for Dental Practitioners. *Microorganisms* 2020, 8, 1704, doi:10.3390/microorganisms8111704.
404. Bongaarts, J.; Bruce, J. The Causes of Unmet Need for Contraception and the Social Content of Services. *Stud. Fam. Plann.* 1995, 26, 57–75.
405. Bonetti, G.; Medori, M.C.; Fioretti, F.; Farronato, M.; Nodari, S.; Lorusso, L.; Tartaglia, G.M.; Farronato, G.; Bellinato, F.; Gisondi, P.; et al. Dietary Supplements for the Management of COVID-19 Symptoms. *J. Prev. Med. Hyg.* 2022, 63, E221–E227, doi:10.15167/2421-4248/jpmh2022.63.2S3.2764.
406. Bonamonte, D.; Filoni, A.; De Marco, A.; Lospalluti, L.; Nacchiero, E.; Ronghi, V.; Colagrande, A.; Giudice, G.; Cazzato, G. Squamous Cell Carcinoma in Patients with Inherited Epidermolysis Bullosa: Review of Current Literature. *Cells* 2022, 11, 1365, doi:10.3390/cells11081365.
407. Beyene, G.A.; Abebe, S.M.; Fekadu, G.A.; Mucho, A.A.; Geremew, B.M. Contraceptive Dynamics among Women with Disabilities in Low- and Middle-Income Countries: A Scoping Review Protocol. *Syst. Rev.* 2023, 12, 40, doi:10.1186/s13643-023-02214-4.
408. Bevilacqua, L.; Lorenzon, M.G.; Bjedov, M.; Constantinides, F.; Angerame, D.; Maglione, M. Evaluation of the Efficacy of Inter-Dental Brush and Dental Floss for Peri-Implant Mucositis: A Crossover Randomized Clinical Trial. *Int. J. Dent. Hyg.* 2024, 22, 779–788, doi:10.1111/idh.12793.
409. Bertelli, M.; Bonetti, G.; Donato, K.; Medori, M.C.; Dhuli, K.; Henehan, G.; Brown, R.; Sieving, P.; Sykora, P.; Marks, R.; et al. In Memory of Professor Derek Pheby. *Clin. Ter.* 2023, 174, 227–229, doi:10.7417/CT.2023.2491.
410. Benvenuti, M.; Wright, M.; Naslund, J.; Miers, A.C. How Technology Use Is Changing Adolescents' Behaviors and Their Social, Physical, and Cognitive Development. *Curr. Psychol.* 2023, 42, 16466–16469, doi:10.1007/s12144-023-04254-4.

411. Belloccchio, L.; Bordea, I.R.; Ballini, A.; Lorusso, F.; Hazballa, D.; Isacco, C.G.; Malcangi, G.; Inchingolo, A.D.; Dipalma, G.; Inchingolo, F.; et al. Environmental Issues and Neurological Manifestations Associated with COVID-19 Pandemic: New Aspects of the Disease? *Int. J. Environ. Res. Public Health* 2020, 17, 8049, doi:10.3390/ijerph17218049.
412. Bavetta, G.; Bavetta, G.; Randazzo, V.; Cavataio, A.; Paderni, C.; Grassia, V.; Dipalma, G.; Gargiulo Isacco, C.; Scarano, A.; De Vito, D.; et al. A Retrospective Study on Insertion Torque and Implant Stability Quotient (ISQ) as Stability Parameters for Immediate Loading of Implants in Fresh Extraction Sockets. *BioMed Res. Int.* 2019, 2019, 9720419, doi:10.1155/2019/9720419.
413. Barberis, A.; Deiana, M.; Spissu, Y.; Azara, E.; Fadda, A.; Serra, P.A.; D'hallewin, G.; Pisano, M.; Serrelli, G.; Orrù, G.; et al. Antioxidant, Antimicrobial, and Other Biological Properties of Pompia Juice. *Mol. Basel Switz.* 2020, 25, 3186, doi:10.3390/molecules25143186.
414. Inchingolo, A.D.; Cazzolla, A.P.; Di Cosola, M.; Greco Lucchina, A.; Santacroce, L.; Charitos, I.A.; Topi, S.; Malcangi, G.; Hazballa, 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.
415. Inchingolo, A.D.; Cazzolla, A.P.; Di Cosola, M.; Greco Lucchina, A.; Santacroce, L.; Charitos, I.A.; Topi, S.; Malcangi, G.; Hazballa, 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.
416. 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 Osteotomy: A Systematic Review of the Literature and Meta-Analysis. *Mater. Basel Switz.* 2021, 14, 1147, doi:10.3390/ma14051147.
417. Inchingolo, F.; Santacroce, L.; Ballini, A.; Topi, S.; Dipalma, G.; Haxhirekha, K.; Bottalico, L.; Charitos, I.A. Oral Cancer: A Historical Review. *Int. J. Environ. Res. Public Health* 2020, 17, 3168, doi:10.3390/ijerph17093168.
418. Inchingolo, F.; Tatullo, M.; Abenavoli, F.M.; Marrelli, M.; Inchingolo, A.D.; Corelli, R.; Inchingolo, A.M.; Dipalma, G. Eyelid Bags. *Head Face Med.* 2010, 6, 9, doi:10.1186/1746-160X-6-9.
419. Inchingolo, F.; Tatullo, M.; Abenavoli, F.M.; Marrelli, M.; Inchingolo, A.D.; Palladino, A.; Inchingolo, A.M.; Dipalma, G. Oral Piercing and Oral Diseases: A Short Time Retrospective Study. *Int. J. Med. Sci.* 2011, 8, 649–652, doi:10.7150/ijms.8.649.
420. Inchingolo, F.; Martelli, F.S.; Gargiulo Isacco, C.; Borsani, E.; Cantore, S.; Corcioli, F.; Boddi, A.; Nguyễn, K.C.D.; De Vito, D.; Aityan, S.K.; et al. Chronic Periodontitis and Immunity, Towards the Implementation of a Personalized Medicine: A Translational Research on Gene Single Nucleotide Polymorphisms (SNPs) Linked to Chronic Oral Dysbiosis in 96 Caucasian Patients. *Biomedicines* 2020, 8, 115, doi:10.3390/biomedicines8050115.
421. 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.
422. Inchingolo, A.M.; Patano, A.; Piras, F.; Mancini, A.; Inchingolo, A.D.; Paduanelli, G.; Inchingolo, F.; Palermo, A.; Dipalma, G.; Malcangi, G. Interconnection between Microbiota–Gut–Brain Axis and Autism Spectrum Disorder Comparing Therapeutic Options: A Scoping Review. *Microorganisms* 2023, 11, 1477, doi:10.3390/microorganisms11061477.
423. Inchingolo, A.D.; Malcangi, G.; Semjonova, A.; Inchingolo, A.M.; Patano, A.; Coloccia, G.; Ceci, S.; Marinelli, G.; Di Pede, C.; Ciocia, A.M.; et al. Oralbiotica/Oralbiotics: The Impact of Oral Microbiota on Dental Health and Demineralization: A Systematic Review of the Literature. *Children* 2022, 9, 1014, doi:10.3390/children9071014.
424. Inchingolo, A.D.; Malcangi, G.; Semjonova, A.; Inchingolo, A.M.; Patano, A.; Coloccia, G.; Ceci, S.; Marinelli, G.; Di Pede, C.; Ciocia, A.M.; et al. Oralbiotica/Oralbiotics: The Impact of Oral Microbiota on Dental Health and Demineralization: A Systematic Review of the Literature. *Child. Basel Switz.* 2022, 9, 1014, doi:10.3390/children9071014.
425. Inchingolo, A.D.; Malcangi, G.; Inchingolo, A.M.; Piras, F.; Settanni, V.; Garofoli, G.; Palmieri, G.; Ceci, S.; Patano, A.; De Leonardis, N.; et al. Benefits and Implications of Resveratrol Supplementation on Microbiota Modulations: A Systematic Review of the Literature. *Int. J. Mol. Sci.* 2022, 23, 4027, doi:10.3390/ijms23074027.
426. Inchingolo, A.D.; Malcangi, G.; Inchingolo, A.M.; Piras, F.; Settanni, V.; Garofoli, G.; Palmieri, G.; Ceci, S.; Patano, A.; De Leonardis, N.; et al. Benefits and Implications of Resveratrol Supplementation on Microbiota Modulations: A Systematic Review of the Literature. *Int. J. Mol. Sci.* 2022, 23, 4027, doi:10.3390/ijms23074027.
427. Inchingolo, A.D. Correlation between Occlusal Trauma and Oral Microbiota: A Microbiological Investigation. *J. Biol. Regul. Homeost. AGENTS* 2021, 35, doi:10.23812/21-2supp1-29.
428. Inchingolo, A.D.; Cazzolla, A.P.; Di Cosola, M.; Greco Lucchina, A.; Santacroce, L.; Charitos, I.A.; Topi, S.; Malcangi, G.; Hazballa, 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.
429. 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 Osteotomy: A Systematic Review of the Literature and Meta-Analysis. *Materials* 2021, 14, 1147, doi:10.3390/ma14051147.
430. 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.
431. 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. *Med. Kaunas Lith.* 2021, 57, 1350, doi:10.3390/medicina57121350.
432. Inchingolo, A.D.; Patano, A.; Coloccia, G.; Ceci, S.; Inchingolo, A.M.; Marinelli, G.; Malcangi, G.; Montenegro, V.; Laudadio, C.; Pede, C.D.; et al. The Efficacy of a New AMCOP® Elastodontic Protocol for Orthodontic Interceptive Treatment: A Case Series and Literature Overview. *Int. J. Environ. Res. Public Health* 2022, 19, 988, doi:10.3390/ijerph19020988.
433. 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. *Med. Kaunas Lith.* 2022, 58, 603, doi:10.3390/medicina58050603.
434. 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.
435. Inchingolo, A.M.; Patano, A.; De Santis, M.; Del Vecchio, G.; Ferrante, L.; Morolla, R.; Pezzolla, C.; Sardano, R.; Dongiovanni, L.; Inchingolo, F.; et al. Comparison of Different Types of Palatal Expanders: Scoping Review. *Child. Basel Switz.* 2023, 10, 1258, doi:10.3390/children10071258.
436. 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.
437. 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.
438. Inchingolo, F.; Derla, C.; Pacifici, A.; Cagiano, R.; Gargari, M.; Marrelli, M.; Amantea, M.; Inchingolo, A.M.; Dipalma, G.; Signorini, L.; et al. Dental and Maxillofacial Alterations in Patients Affected from Odontochondrodysplasia: A Rare Case Report and Review of Literature. *Oral Health Dent. Manag.* 2014, 13, 614–618.
439. Inchingolo, F.; Hazballa, 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. *Mater. Basel Switz.* 2022, 15, 1120, doi:10.3390/ma15031120.
440. 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.
441. Inchingolo, F.; Tatullo, M.; Abenavoli, F.M.; Marrelli, M.; Inchingolo, A.D.; Inchingolo, A.M.; Dipalma, G. Comparison between Traditional Surgery, CO₂ and Nd:Yag Laser Treatment for Generalized Gingival Hyperplasia in Sturge-Weber Syndrome: A Retrospective Study. *J. Investig. Clin. Dent.* 2010, 1, 85–89, doi:10.1111/j.2041-1626.2010.00020.x.
442. 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.
443. 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.
444. Giovanni Falisi, Roberto Gatto, Carlo Di Paolo, Alberto De Biase, Carlo Franceschini, Annalisa Monaco, Sofia Rastelli, Gianluca Botticelli, A Female Psoriatic Arthritis Patient involving the TMJ, Case Reports in Dentistry 2021 (2):1-6 DOI: 10.1155/2021/6638638
445. M. Pasini, S. Caruso, L. Lardani, R. Gatto, M.R. Giuca, M. Severino. Frenula in the oral cavity: an overview of diagnosis, prognosis and clinical management in growing patients. *Journal of Biological Regulators and Homeostatic Agents.* 2020, 34(1(S1)): 13-22
446. Severino M, Caruso S, Rastelli S, Gatto R, Cutilli T, Pittari L, Nota A, Tecco S. Hand-Carried Ultrasonography Instrumentation in the Diagnosis of Temporomandibular Joint Dysfunction. *Methods Protoc.* 2021 Nov 6;4(4):81. doi: 10.3390/mps4040081. PMID: 34842776; PMCID: PMC8629014.