

Editorial

CELEBRATING ACHIEVEMENTS

We are celebrating! LAOHA completed five years of existence, and to celebrate this date a commemorative dinner was offered where LAOHA members, dental professionals, students, LAOHA scholarship recipients as well as Colgate-Palmolive professionals were present. In a relaxed atmosphere, speeches were made and honorary plaques were handed out to recent graduates.

The *LAOHA Cariology Group* launched the **CALL FOR ACTION** Program to achieve new parameters for dental caries prevention in Latin America and the Caribbean. The Group planned three practical actions based on collaboration among dental professionals, research and higher education organizations, and regional dental associations in Latin America and the Caribbean. The *Periodontics Group* created a campaign in partnership with the **Caribbean Oral Health Initiative (COHI)**, led by *LAOHA's Periodontics Group*. This campaign was presented from May 9-13 in recognition of World Gingival Health Day, and involved the online participation of dental professionals, associations, professors and academics from 20 countries in Latin America and the Caribbean. Some members of *LAOHA's Cariology Group* participated in the 57th. Meeting of the Brazilian Association of Teaching in Dentistry (ABENO). The meeting took place between July 7th and 9th. The event organized an open workshop to discuss the Consensus of the Guidelines for Teaching Dental Caries in Undergraduate Courses. LAOHA was also at the International

Congress of Dentistry of São Paulo (CIOSP) in the Arena of the Federal Council of Dentistry. **LAOHA** and the **Iberoamerican Observatory of Public Policies in Oral Health** were invited to make a presentation and panel discussion in order to share some of their efforts and partnerships to produce, synthesize and make available scientific evidence of interest to oral health and public health. The activity was entitled "LAOHA & Observatory: Contributing to the fight against NCDs in BRAZIL, Latin America and the Caribbean". LAOHA members participated in activities at Colgate's booth. In this edition, we also have the participation of a LAOHA fellow in the 69th Orca Congress, held in Sardinia, Italy. There, PhD student Viviana Avila presented part of the results of her PhD work, entitled "*Microbiological analysis of the biopelicle of adolescents with ETW, carious and healthy.*" We take this opportunity to congratulate two of our fellows who defended their theses, as well as welcome the newest students, who are starting their PhD programs.

Happy reading!

Luciana Saraiva
Dir. Deputy Secretary



Confraternization 5 YEARS OF IMPACT



LAOHA celebrated 5 years of activities with a commemorative dinner, tributes, and fellowship among the guests.

Due to the pandemic, the celebration took place in June this year, and about 60 people were present, among them dental professionals, academics, associates, and LAOHA fellows, as well as representatives from Colgate-Palmolive, the company that supports the Association. All committed to transforming and promoting advances in oral health for the population of Latin American and Caribbean countries.

It all started as a conversation among friends, and about 5 years later, we got together to celebrate several achievements: our doctorate program - which has already graduated 13 doctors from several countries and has 2 new students starting their studies; our participation in several events, symposia, and congresses; and the organization of ▶



Above: View of the main reception hall. **Next:** Doctors Juliano Cavagni, Giuseppe Romito, Bernal Stewart, and Cassiano K. Rösing. **Below:** Doctors Belén Retamal-Valdes, Luciene Figueiredo, Silvana Barros, Magda Feres and Nidia Castro.

Confraternization

5 YEARS OF IMPACT

two important consensuses, the one on cariology and the one on periodontics. All this in a very fraternizing and happy atmosphere, with moments for collective photos on the totem and the signing of our *Memory Book*, produced especially for the occasion.

We thank everyone who participated in the event, especially Colgate-Palmolive and the pioneers Dr. Bernal Stewart, Dr. Giuseppe Romito, and Dr. Magda Feres, who laid the foundations for all of this to be possible.

We thank our president, Dr. Cristina Villar, and our executive director, Dr. Zilson Malheiros, for their fundamental leadership during all these years. And especially to Dr. Maria Ryan, VP & Chief Clinical Officer of Colgate-Palmolive, and to professors David Bartlett and Nigel Pitts, from King's College London and Mariano Sanz from Universidad Complutense de Madrid, among others, who participated by sending their videos in recognition to LAOHA for their achievements.

Finally, we would like to thank all the participants, students, professors, and collaborators who have been together with us in this celebration and many of the initiatives throughout this journey.

May there be many more encounters and reasons to celebrate in the years to come!



Above: Dr. Silvana Barros, Director of Colgate's Clinical between Dr. Carlos Benitez and Bernal Stewart.



Next: Dr. Maria E. Ryan.

Below: Dr. Giuseppe Romito, Dr. Luiz Alberto Penna and Dr. Marcelo Bönecker.



Confraternization

5 YEARS OF IMPACT



Above, from left to right:
Drs. Fernanda Carrer,
Paulo Francisco Cesar, Katia Rode
Deborah Douek, Luiz Alberto Penna.

Center:
Dr. Magda Feres delivers and
homage to the students now
doctors: Willy Bustillos from Bolivia
(in the picture), Jonathan Meza from
Peru, and Mariana Lopes Galante from
Brazil, whose plaque is received by
her advisor, professor Fernanda Carrer.



Below: Bernal Stewart among LAOHA
alumni, Belén Retamal-Valdes, Carlos
Benitez and Mariana Almeida.
In the center, Patricia Verduin, Chief
Technology Colgate-Palmolive's Chief
Technology Officer, and to the right,
UNG professors Jamil Shibli, Luciene
Figueiredo and Bruno Bueno.



Confraternization

5 YEARS OF IMPACT



Above left: Doctors Natallia Moura, Jamil Shibli, Mohamed Hassan and Aldrin Mendoza.

Above right: Guests of Colgate-Palmolive.

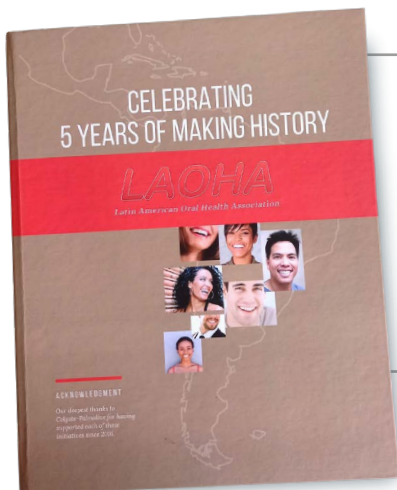
Opposite: Doctors Giuseppe Romito and Magda Feres talk about the creation of LAOHA.

Below: Doctors Aldrin Mendoza, Claudio M. Pannuti and Luciana Saraiva.
In the center, LAOHA President, Dr. Cristina Villar and Sandra Sousa, Sharon Kennedy, Natallia Moura and Nelson Malta from Colgate-Palmolive.



Confraternization

5 YEARS OF IMPACT



Celebrating 5 Years of Making History

All dinner guests received the printed version, in English, of our commemorative ebook "Celebrating 5 Years Making History" along with a Colgate-Palmolive gift kit.

Above: In the first picture, guests during the dinner. The second, the ABENO's president, Dr. Vania Fontanella, with Drs. Nidia Castro, Mohamed Hassan, Aldrin Mendoza, Deborah Douek and Katia Rode.

Below: *Memory book* receiving one more message, Doctors Marcelo Favari, Renato Casarin and Luciana Saraiva and in the last photo, our Executive Director, Zilson Malheiros.

Cariology Group

CALL FOR ACTION 2022

A call to action with the participation of the entire community



The LAOHA Cariology Group was created after the publication of the *Regional Consensus on Dental Caries in Latin America and the Caribbean* in April 2021. Its objective was to identify, among the general and specific recommendations, the priorities that could be developed in the short term. Thus, to achieve new parameters for the prevention of dental caries in Latin America and the Caribbean, the **LAOHA Cariology Group** launched the CALL FOR ACTION program.

Based on the general and specific recommendations of the Consensus, available on the LAOHA website, the Group planned three practical actions based on collaboration between dental professionals, research and higher education associations, and regional dental associations in Latin America and the Caribbean.

The set of results will be presented in October of this year. Get involved. More information on our [website](#).

Cariology Group - Core Team

- | | |
|------------------------------|-----------------------------|
| Amaury Pozos Guillén (MEX) | Ninoska Abreu (RD) |
| Ana María Acevedo (VEN) | Pedro Ricomini (BRA) |
| Bernal Stewart (CR/US) | Rodrigo Giacaman (CHI) |
| Carol Guarnizo Herreno (COL) | Saul Martins de Paiva (BRA) |
| Fabio Sampaio (BRA) | Stefania Martignon (COL) |
| Jorge Castillo (PER) | Vicente Arangüiz (CHI) |
| Marcelo Bönecker (BRA) | Viviana Ávila (COL) |
| Miriam Bullen (PAN) | Zilson Malheiros (BRA) |

The event will take place in October of the current year and will be announced on our website www.laoha.org.br and social networks: [@laohaorg](#)

Follow us for more information!

Periodontics Group

GUM HEALTH DAY

Launching of the campaign “Take Care of Your Gums: Healthy Mouth, Healthy Body.”

The “Take Care of Your Gums: Healthy Mouth, Healthy Body” campaign was an initiative spearheaded by the LAOHA Periodontics Group in collaboration with the Caribbean Oral Health Initiative (COHI). It was launched on May 9-13, 2022 in recognition of **Gingival Health Day**. It involved the online participation of dental professionals, associations, professors and academics from 20 countries in Latin America and the Caribbean. The initiative aims to support the celebration of **World Gum Health Day** on May 12, a date created and idealized by the **European Federation of Periodontology (EFP)**.

Periodontal disease is a worldwide public health problem particularly prevalent in Latin America. Therefore, to contribute to periodontal disease awareness and prevention programs, the **Periodontics Group**, led by LAOHA’s executive director, Zilson Malheiros, produced a series of videos, infographics, and animations on this topic in Spanish, Portuguese and English to be distributed not only during the week, but also as permanent material to support the campaigns and initiatives related to the prevention of oral diseases. All the artwork



The campaign material was produced in various formats (animations, videos, infographics) and in 3 languages (Portuguese, Spanish, English) to share with the population through social networks, e-mail and WhatsApp.

CUIDA TUS ENCIAS. BOCA SANA. CUERPO SANO.
Materiales educativos para su paciente

Haga parte de esta campaña
Son solo 3 pasos:

En primer lugar, comparte con tus pacientes las animaciones e infografías.

Segundo, evalúa durante esta semana la presencia de sangrado gingival en sus pacientes, ya sea en la consulta privada, pública o en la Universidad.

Finalmente, informe cuántos de sus pacientes tenían sangrado gingival durante esta semana, cuántos de ellos fuman y son diabéticos

Envíe su informe aquí.
*participación anónima

LAOHA e COHI agradecen a las Asociaciones de Odontología y Periodonciade América Latina y el Caribe y a Colgate-Palmolive

CUIDE DE SUA GENGIVA
BOCA SAUDÁVEL, CORPO SAUDÁVEL

Cuidados bucais durante a gravidez

Você sabia que a gravidez pode trazer mudanças à sua saúde bucal?

Durante a gravidez, a mulher sofre várias alterações hormonais. E essas alterações a tornam mais suscetível ao desenvolvimento e/ou progressão de doenças periodontais.

As doenças periodontais durante a gravidez são fatores de risco e podem trazer complicações.

Parto prematuro
Restrição do crescimento fetal
Baixo peso ao nascer
Pré-eclâmpsia
Diabetes gestacional

Technical collaboration for the development of the material: Doctors Andrés Duque, Elizabeth Lozano, Zilson Malheiros, Carlos Benitez, Cristina C. Villar, James Collins, Bernal Stewart, Gina Murillo, Maria Alejandra Vargas, Claudia Sacio, Paola Carvajal, Paula Yunes.

Periodontics Group

MAY 12 - WORLD GUM HEALTH DAY



Dia da saúde gengival

Proteger e educar a família, cuidando de sua saúde bucal e assim, transmitindo bons hábitos de geração em geração.





Manter a saúde bucal é importante para prevenir doenças gengivais e manter nosso corpo saudável.

Como posso manter minha gengiva e corpo saudáveis?



Escovando os dentes



Utilizando fio dental e enxaguante bucal



Fazendo uma alimentação saudável



Praticando exercícios e bebendo água



Não Fume

Visite seu dentista regularmente.



Agora você já sabe. Cuide de sua gengiva: Boca saudável, corpo saudável!



laoha.org.br
cohiweb.org

Faça seu teste e saiba mais

is readily shareable in different media. The campaign themes were: Oral Health and Wellness, Mouth Saliva Recognition and Early Actions, Oral Care during Pregnancy and Diabetes and Oral Health. On **May 12**, the campaign addressed the relationship between healthy habits and gum disease.

On LAOHA's website we publish all the material produced by the campaign. Help us spread the word about this initiative to prevent gum disease throughout Latin America and the Caribbean. To access it, [click here](#).

CAMPAIGN SUPPORTERS

ABENO (Brazilian Association for Dentistry Education), SOBRAPE (Brazilian Society of Periodontics), ABO (Brazilian Association of Dentistry), APCD (Associação Paulista de Cirurgiões Dentistas), COHI, FOLA (Federación Odontológica Latinoamericana), FIPP (Federación Iberoamericana de Periodoncia), Colgate-Palmolive.

Periodontics Group - Core Team

- Alfonso Alejandro García Huerta (MEX)
- Andres Duque (COL)
- Belén Retamal-Valdés (CHI/BRA)
- Bernal Stewart (CR/US)
- Carlos Benítez (MEX)
- Cassiano Rösing (BRA)
- Claudia Sacio (PER)
- Cristina Cunha Villar (BRA)
- Elizabeth Lozano (CHI)
- Gina Murillo (CR)
- Guilherme Amaral (BRA)
- James Collins (RD)
- Juliano Cavagni (BRA)
- Luciene Figueiredo (BRA)
- Maria Alejandra Vargas Mora (CR)
- Mariel Gomez (ARG)
- Paola Carvajal (CHI)
- Paula Massiel Yunes Fragoso (RD)
- Zilson Malheiros (BRA)

Through the QR code, it is possible to access a digital tool that can contribute to self-awareness about the risk of developing periodontal disease in the patient.

Faça seu teste e saiba mais

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NEWSLETTER - 9ª Edition - 2022

57^o ABENO Meeting

CONSENSUS ON GUIDELINES FOR THE TEACHING OF dental caries in the undergraduate dentistry courses



Panel discussion with Drs. Marcelo Bönecker (USP), Saul Paiva (UFMG), Flavia Cohen (UFAM), Fabio Sampaio (UFPB), Rodrigo Arthur (UFRGS), and Fabiana Schneider Pires (UFRGS).

The **Consensus on Dental Caries in Latin America and the Caribbean**, elaborated by the *Latin American Oral Health Association (LAOHA)*, highlighted the need to prioritize the teaching of dental caries in undergraduate courses. In Brazil, the initiative to elaborate the *Consensus on Guidelines for the Teaching of Dental Caries in Undergraduate Courses* was led by the Brazilian Association of Dental Education (ABENO) and was supported by members of the *LAOHA Cariology Group* and also by professors from various parts of Brazil, taking into account regional diversity. The Commission's working team includes Fábio Correia Sampaio (UFPB), Marcelo Bönecker (USP), Ana Isabel Fonseca (UEFS, UNIME), Saul Paiva (UFMG), Vânia Fontanella (UFRGS), Zilson Malheiros (LAOHA), Rodrigo Alex Arthur (UFRGS), Flávia Cohen Carneiro (UFAM), Fabiana Schneider (UFRGS), Linda Wang (USP Bauru), Larissa M. Assad Cavalcante (UFF), Rafael Ditterich (UFPR-PR), Luisa Gatti Reis (UFMG), Vitória Borges Spinola (USP) and ad hoc Andreas Schulte (U WITTEN/HERDE-



CKE-Germany) and Stephania Martignon (U. El Bosque-Colombia).

The Commission had been working on the draft document since late 2021. In May 2022, the **Public Consultation** was opened through SIG Education, where the document was made available and suggestions on the wording and content were received.

Between July 7 and 9, the **57th ABENO Meeting** was held in Lajeado, Rio Grande do Sul, in hybrid mode. The Meeting takes place annually and aims to discuss important aspects of Brazilian dental education. On Saturday, July 9, the event organized a workshop to discuss the *Consensus of the Guidelines for the Teaching of Dental Caries* ▶

57^o ABENO Meeting

CONSENSUS OF THE GUIDELINES FOR THE TEACHING OF DENTAL CARIES IN UNDERGRADUATE DENTAL COURSES IN BRAZIL



Members of the ABENO and LAOHA working groups.

in *Undergraduate Dental Courses*. During “**Workshop 3: Consensus on the Teaching of Dental Caries**”, a presentation of the final document was made with the participation of the following professors: Fábio Sampaio, Marcelo Bönecker, Saul Paiva, Flavia Cohen, Rodrigo Arthur, Fabiana Scheiner, Ana Isabel Fonseca and Vânia Fontanella.

The presentation was also a moment to sensitize the audience to actively participate in the process, from the suggestions sent in real time in person and through the open transmission made by YouTube. Throughout the presentation, Zilson Malheiros and Luisa Gatti mediated the receiving of suggestions that were discussed and will be reviewed by the Group to incorporate the document published on ABENO’s website through [this link](#).

The recording of this Workshop is available for free access and can be accessed through YouTube’s ABENO Encounter channel at [this link](#).

It should be noted that **public consultation** on the document remained open until early August. Program directors and coordinators were encouraged to participate in the construction of the Consensus, to make it as representative as possible. The suggestions were distributed among the chapters of the final document:

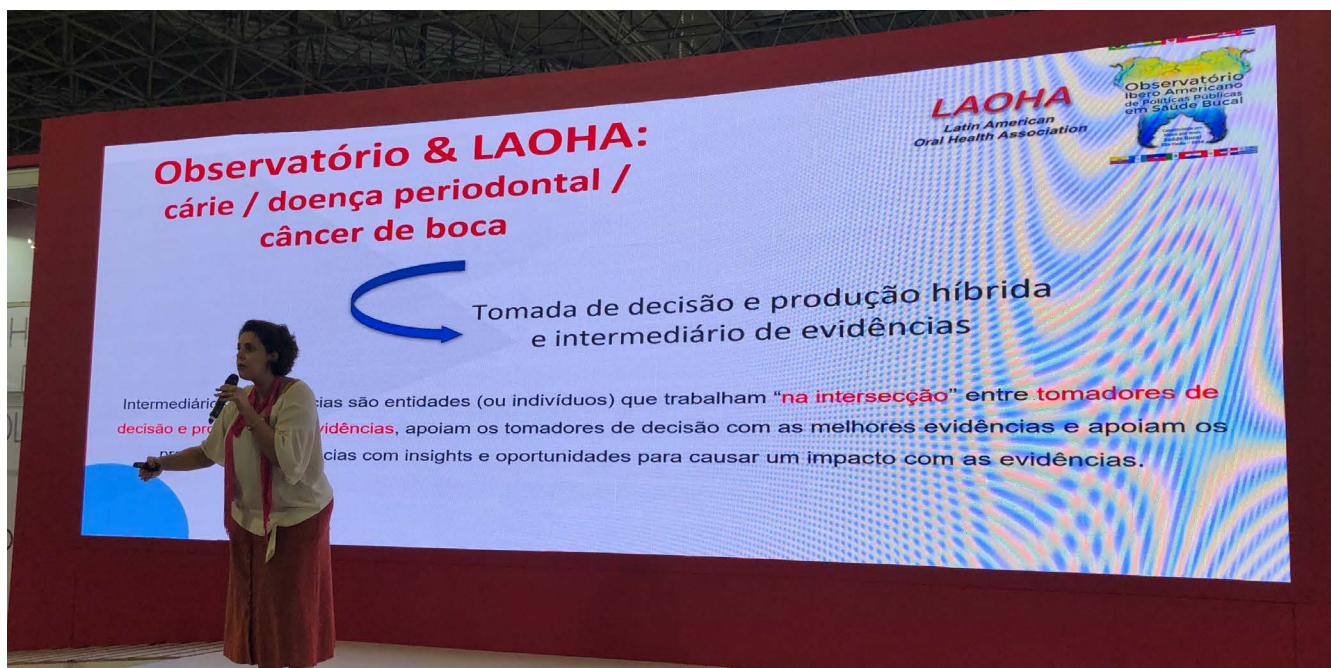
1. Domains, core competencies and support competencies;
2. Essential content for teaching dental caries;
3. Dental caries and life cycles;
4. Dental caries disease as a marker of social inequality;
5. Glossary.

Text: Luisa Gatti and Zilson Malheiros

***Join LAOHA and ABENO in this initiative for Consensus Guidelines
for Teaching Dental Caries in Undergraduate Courses!***

CIOSP

LAOHA AND IBEROAMERICAN OBSERVATORY OF PUBLIC POLICIES IN ORAL HEALTH ARE PRESENT IN THE CFO ARENA



The year 2022 was marked by the return of **CIOSP (São Paulo International Congress of Dentistry)** to the Anhembi Pavillion. The fair, as always full of novelties, contemplated the congress participants with the CFO collaborating with the APCD (São Paulo Dental Association), in the organization of the Congress. And there was also an unprecedented experience: “the CFO Arena”, a space organized by the Federal Council of Dentistry reserved for debates of interest to the dental class, which every day received a large audience and welcomed people and entities very relevant to the context of oral health in Brazil.

On June 30, 2022, late in the afternoon, **LAOHA** and the **Iberoamerican Observatory of Public Policies in Oral Health** were invited to make a presentation and panel discussion in order to share a little about their efforts and partnerships to produce, synthesize

and make available scientific evidence of interest to oral health and public health. The activity was entitled “*LAOHA & Observatory: Contributing to the fight against NCDs in BRAZIL, Latin America and the Caribbean*”.

It was a very important time to give visibility to the initiatives and make known the non-negotiable commitment that both institutions have with decision making based on the best scientific evidence.

The activity began with Prof. Dr. Cassiano Rösing (UFRGS), LAOHA Vice President, who spoke about “*Periodontal Disease and its impact on the overall health of the Latin American population: LAOHA Consensus Report*” and Prof. Dr. Fabio Sampaio (UFPB), LAOHA Vice President. Fabio Sampaio (UFPB), coordinator of **LAOHA’s Cariology Group**, who presented the caries consensus carried out in 2021 and that shed light on strategic

Dr. Fernanda Campos during a presentation at the CFO ARENA at CIOSP.

CIOSP

LAOHA AND OBSERVATORY IBEROAMERICAN OBSERVATORY OF PUBLIC POLICIES IN ORAL HEALTH ARE PRESENT IN THE CFO ARENA

issues for policies and programs to improve effectiveness and efficiency, controlling the most prevalent non-contagious disease in the world. Following, Prof. Dr. Fernanda Campos de Almeida Carrer (FOUSP), a researcher at the Observatory, shared results of research conducted in Brazil and Latin America, which demonstrate the strategic importance of synthesizing and making available the best evidence to the various levels of public policy and decision making. To conclude the debates, Dr. Gilmar Trevizan (CFO) and Dr. Wellington Carvalho (Ministry of Health - MS) addressed the importance of acting to ensure the adequate supply of oral health services to Brazilians, based on the best evidence.

It was clear that both Observatório and LAOHA have the mission of intermediating evidence-based practice in their DNA to serve as a bridge between those who produce evidence and those who consume this information for decision making. The consensuses are essential examples of initiatives that seek to do this intermediation.

Being in such a prestigious space as the “Arena CFO” and with the presence of the Ministry of Health and the Council itself as an entity that integrates the group of decision-makers in the context of oral health in Brazil is extremely important for LAOHA and the Observatory to achieve the effective materialization of their research results, applying the best evidence in programs and policies that actually impact the quality of life and health of the population.



From left to right: Dr. Cláudio Miyake, Dr. Wellington Carvalho, Prof. Dr. Fabio Sampaio, Dr. Gilmar Trevizan, Profa. Dra. Fernanda Campos de Almeida Carrer, Prof. Dr. Evaristo Volpato and Dr. João Batista Figueiredo Franco.



From left to right: Dr. Gilmar Trevizan, Prof. Dr. Evaristo Volpato, Prof. Dr. Cassiano K. Rösing and Dr. João Batista Figueiredo Franco.

CIOSP

LAOHA MEMBERS PARTICIPATE IN ACTIVITIES AT THE COLGATE BOOTH

SYMPOSIUM- Dental Caries, A Latin American and Caribbean Consensus: Where are we and where are we going?

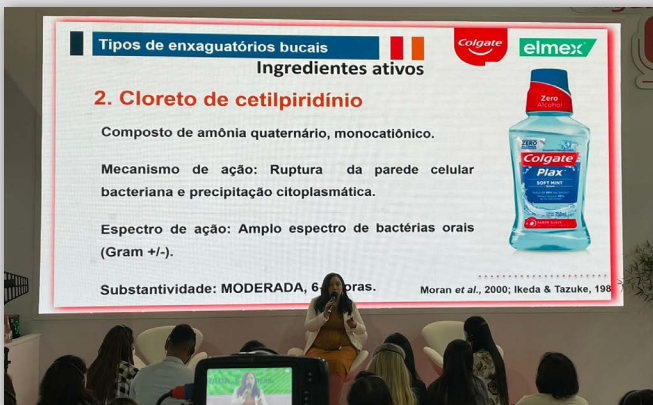


Dr. Marcelo Bonécker (FOUSP & LAOHA).



Dr. Fabio Sampaio (UFPB & LAOHA).

SYMPOSIUM - The importance of the use of mouth washes in clinical day-to-day



Dr. Belén Retamal-Valdes (LAOHA alumna and professor at Guarulhos University).

MEETING - Colgate Project in Paraíba: Presentation of Preliminary Results and Planning

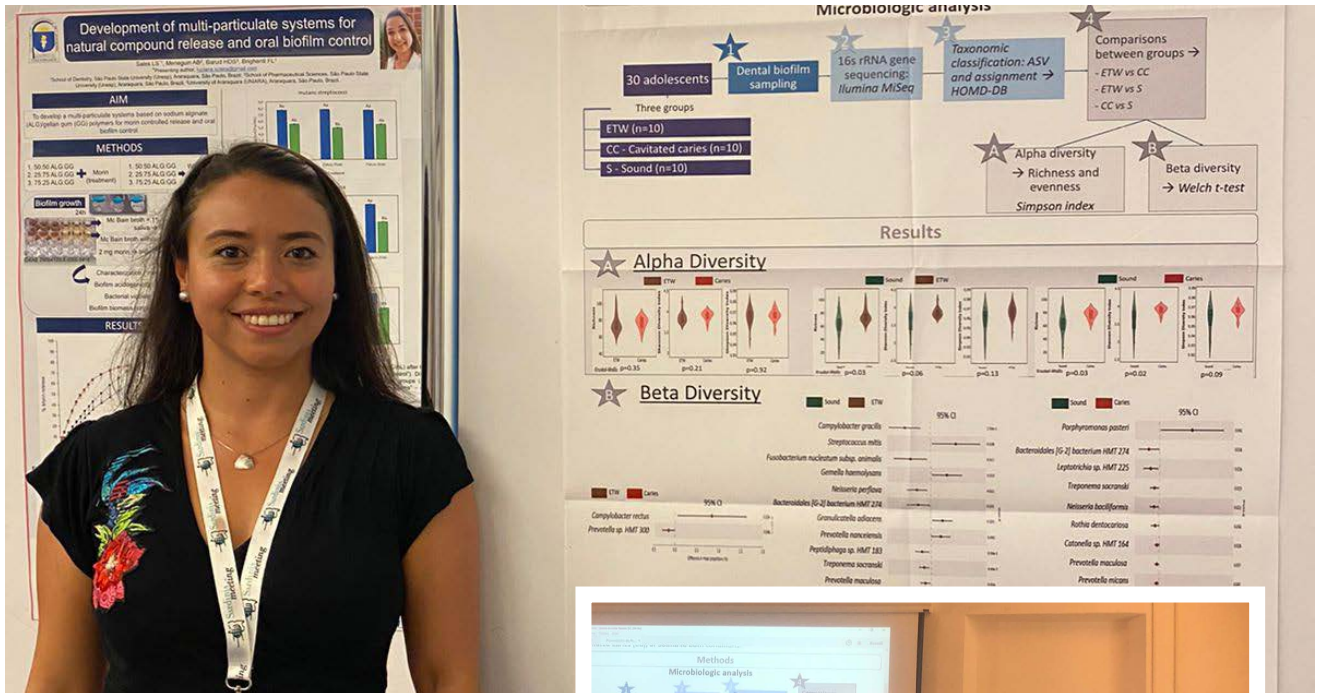


Doctors Carlos Benitez, Marcelo Bonécker, Bernal Stewart, Fabio Sampaio, and Silvana Barros.

Research

LAOHA FELLOW AT ORCA CONGRESS

Biofilm in adolescents with dental wear and erosion - ETW



The 69th ORCA 2022 Congress took place between June 29 and July 2 this year in the region of Sardinia, Italy, and our fellow Viviana Avila attended the event presenting part of the results of her doctoral research, the microbiological analysis of the biopelicle of adolescents with ETW, carious and healthy.

Erosive Tooth Wear (ETW) is a condition of tooth structure loss, triggered primarily by exposure of mineralized tissues to non-bacterial acids, whether intrinsic or extrinsic. The results of Viviana's research will provide evidence on medical and dental aspects, and dietary or oral health habits that may be associated with the onset of ETW in Colombian children aged 12 to 15 years. These results will increase the information related to biological characteristics related to saliva,



acquired film and dental biofilm that may be differential in individuals with ETW.

Viviana is developing her project at *Universidad El Bosque* in Colombia. She tells us that the support from LAOHA and Colgate has been a very inspiring experience for her, not only for the support throughout the PhD process, but also as a means to establish academic networks that in the future may produce high-impact results in the region where she works.

Alumni

NEWLY GRADUATED SCHOLARS

Two more fellows defended their doctoral theses this year: **Jonathan Meza Mauricio**, Peruvian and a student at the University Guarulhos, specialized in periodontics, and **Willy Bustillos Torrez**, Bolivian, also a student at the University Guarulhos in the Periodontics Department.

Congratulations to both and all the best!



Jonathan Meza Mauricio



Willy Bustillos Torrez

Fellows

NEW PHD STUDENTS



*Aldrin André
Huaman Mendoza
USP Student
Peru*



*Lucas Daylor
Aguiar da Silva
UNG Student
Brazil*

Aldrin wants to specialize in periodontics and implantology. **Lucas** will investigate the role of alternative and natural compounds in the treatment of periodontitis. Both see teaching and research as a way to contribute to the improvement of the oral health of the population.

A warm welcome to you!

Research

PUBLICATIONS

Bacterial composition of dental biofilm from adolescents with erosive tooth wear, cavitated caries or sound. Avila V, Beltran EO, Castellanos J, Martignon S., 69th ORCA Congress 2022: Cagliari, Sardinha-Italy. <https://www.karger.com/Article/Pdf/525637>

Clinical efficacy of lip repositioning technique and its modifications for the treatment of gummy smile: systematic review and meta-analysis. Mendoza-Geng A, Gonzales-Medina K, Meza-Mauricio J, Muniz FWMG, Vergara-Buenaventura A., Clin Oral Investig. 2022 Jun; 26(6):4243-4261. doi: 10.1007/s00784-022-04467-0.

Cyanoacrylate tissue adhesive as a membrane in socket preservation: In vitro cytotoxicity and clinical evaluation. Mendoza-Azpur, G., Ortiz, J., Valdivia, E., De Souza, G., Collares, F., Meza, J., & Shibli, J. (2021). Journal of Osseointegration, 13(4), 220–226. <https://doi.org/10.23805/JO.2021.13.04.7>

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A multi-country survey on the impact of COVID-19 on dental practice and dentists' feelings in Latin America. Rafael R. Moraes, Carlos E. Cuevas-Suárez, Wilfredo G. Escalante-Otárola, María R. Fernández, Andrés Dávila-Sánchez, Patricia Grau-Grullon, Eduardo Fernández, Tania M. López, Guillermo Grazioli, Luis A. Arana, Luis F. Rondón, Willy B. Torrez, Giana S. Lima, Helena S. Schuch, Marcos B. Correa & Flavio F. Demarco. BMC Health Services Research volume 22, Article number: 393 (2022).

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