



South East Asia Association  
for Dental Education



International Association  
for Dental Research

IADR  
SEA



คณะทันตแพทยศาสตร์  
FACULTY OF DENTISTRY  
Chulalongkorn University

# 31<sup>st</sup> SEAADE & 34<sup>th</sup> IADR-SEA Scientific Meeting Thailand 2020

## Dental Education and Research during COVID-19 pandemic

November 23<sup>rd</sup> - 27<sup>th</sup>, 2020, Virtual Meeting

*Program and Abstracts*



# Professor Chun Hung Chu

President of SEAADE



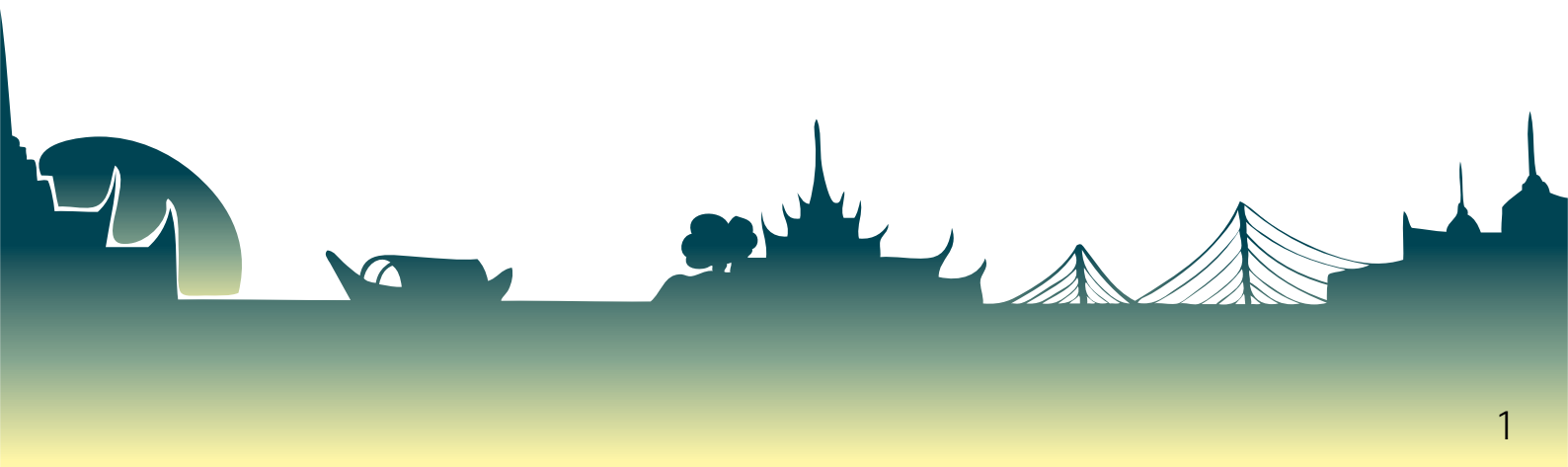
Dear colleagues,

Since founded in 1990, the South East Asia Association for Dental Education (SEAADE) has grown into one of the most influential dental associations in the region. We currently have more than 60 member schools across different countries and regions in Southeast Asia. These include Cambodia, China, Hong Kong, India, Indonesia, Japan, Malaysia, Myanmar, Philippines, Taiwan, Thailand, Singapore, South Korea, Sri Lanka and Vietnam.

The SEAADE meeting is an exceptional event for dental educators, practitioners, and researchers to share their best practices and latest academic insights in dental education. This year conference theme focuses on “Dental Education after Disruption”. All sessions will be aligned to demonstrate changes in dental education after COVID-19 as well as technology disruption. The final goal is to find a consensus on how to move Dental Education toward the new normal.

On behalf of SEAADE, I would like to thank the Chulalongkorn University and the local organizing committee led by Dr Suchit Poolthong for their effort in organizing this online event. We warmly welcome your participation in this online meeting.

Professor Chun Hung Chu  
President of SEAADE





## **Asst. Prof. Suchit Poolthong**

**Chairperson of LOC of SEAADE**

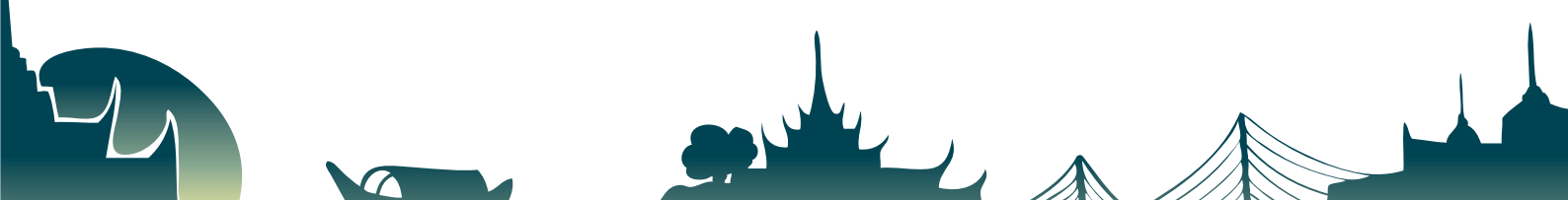
Dear colleagues,

On behalf of the Local Organizing Committee (SEAADE), I warmly welcome you to the 31<sup>st</sup> South East Asian Association for Dental Education (SEAADE) and the 34<sup>th</sup> Annual Scientific Meeting of International Association for Dental Research of Southeast Asian Division (IADR-SEA) virtual meeting on November 23<sup>rd</sup>-27<sup>th</sup>, 2020. Although it is regrettable that we cannot be together for our Annual Meeting this year in Bangkok, the virtual meeting forum will allow us to safely attend the event during the COVID-19 pandemic.

This meeting's theme: "Dental education and research during COVID-19 pandemic", brings together researchers and educators in the field of health science from universities and countries in Asia and around the world to meet and share their knowledge and expertise, to improve not only the quality of dental research, but also focus on new innovating methods of dental education. During three-days meeting, there will be special lectures, workshop, as well as research presentation. I truly believe that this remarkable event will help facilitate members of the dental academic community to develop more researches and inspire researchers to enhance future collaborations.

Asst. Prof. Suchit Poolthong

Chairperson, Local Organizing Committee of SEAADE



## **Assoc. Prof. Risa Chaisuparat**

**Chairperson of LOC and President of IADR-SEA**



Dear colleagues and students,

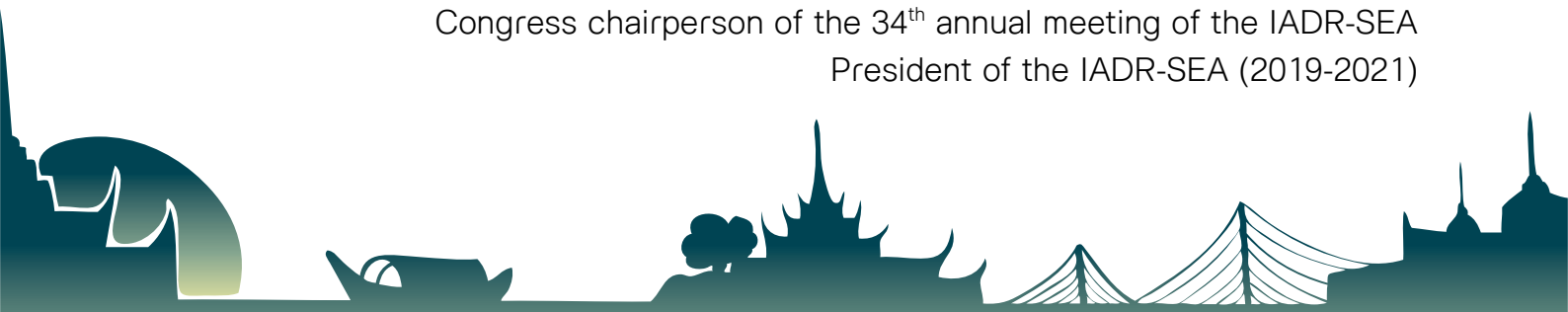
On behalf of the Local Organizing Committee (LOC), we are delighted to welcome you all to the 31<sup>st</sup> Annual scientific meeting of SEAAGE and the 34<sup>th</sup> Annual scientific meeting of IADR-SEA, which will be jointly held on virtual platform from 23<sup>rd</sup> to 27<sup>th</sup> November, 2020. Due to the COVID-19 pandemic, it is with great regret that the SEAAGE council, the IADR-SEA council and the LOC cannot host a physical meeting in Bangkok, Thailand this year. We believe that the virtual platform will allow people around the world to attend the event during this COVID-19 crisis.

This year, the IADR-SEA meeting theme of “Dental research during COVID-19 pandemic” will cover various research areas in Dentistry. Prof. Pamela Den Besten, President of IADR, who has kindly given us the keynote lecture I on Mineral tissue research, and Prof. Wim Teughels from the University of Leuven, Belgium will provide us the keynote lecture II on Oral microbiology research. Three symposiums focusing on “Oral cancer and lesions”, “Geriatric dentistry” and “Material research in dentistry” will be held at this event.

All abstracts accepted for presenting at the meeting will be conducted in the oral and poster formats as assigned. We have been working day by day to generate the system for online presentation. Please keep looking at our official meeting website ([www.iadr-sea.com](http://www.iadr-sea.com)) for updates.

We thank you for your continued support and look forward to welcoming you to our virtual meeting in November 2020.

Risa Chaisuparat  
Congress chairperson of the 34<sup>th</sup> annual meeting of the IADR-SEA  
President of the IADR-SEA (2019-2021)



# Assoc. Prof. Pornchai Jansisyanont

Dean

Faculty of Dentistry, Chulalongkorn University  
Bangkok, Thailand



Dear colleagues,

The Faculty of Dentistry, Chulalongkorn University has been given the privilege of hosting the 31<sup>st</sup> SEAADE and 34<sup>th</sup> IADR-SEA virtual meeting. Although we regret that we cannot be physically together, a virtual meeting will allow us to safely continue our knowledge sharing and collaboration.

This virtual Meeting will provide a venue for educators and researchers from the Asian Region to exchange educational and scientific knowledge. The theme of the meeting, "Dental education and research during COVID-19 pandemic", reflects our goal and efforts as dental educators and researchers in facing this devastating COVID-19 outbreak. We are honored to have distinguished speakers from overseas attending this meeting, along oral and poster presenters as well as award competitors. We hope to expand our knowledge and create opportunities with collaborative efforts as we deal with the COVID-19 pandemic together. This year, the Faculty of Dentistry, Chulalongkorn University celebrates her 80th anniversary. Dental Education in Thailand has shifted to competency based, which produces graduates who are intelligent, compassionate, filled with moral, and possess leadership spirit. Moreover, we are aware that dental research is vital in producing new knowledge and innovation that will effectively support dental education and practice. This meeting is truly a unique platform for all dental educators and researchers to share their expertise and experience in the spirit of mutual friendship and commitment to the prosperity of the region. I heartedly welcome all to the 31<sup>st</sup> SEAADE and 34<sup>th</sup> IADR-SEA virtual meeting, from November 23<sup>rd</sup> to 27<sup>th</sup>, 2020. I truly believe that this virtual meeting will enrich you with the latest advancement in Dentistry and wish all of you a fruitful and memorable day.

Sincerely,

Assoc. Prof. Pornchai Jansisyanont  
Dean, Faculty of Dentistry, Chulalongkorn University, Bangkok, Thailand



# Local Organizing Committee

**Chairperson (SEAADE):**

Assist. Prof. Suchit Poolthong

**Chairperson (IADR-SEA):**

Assoc. Prof. Risa Chaisuparat

**Secretary (IADR-SEA):**

Dr. Nareudee Limpuangthip

**Assistant secretary (IADR-SEA):**

Somchai Yodsanga

**Academic section (SEAADE):**

Assist. Prof. Supachai Chuenjitwongsa

Assist. Prof. Anjalee Vacharaksa

**Academic section (IADR-SEA):**

Prof. Thanaphum Osathanon

Assist. Prof. Palinee Detsomboonrat

**Public relation and Registration:**

Dr. Kittisak Thotsaporn

**Treasurer:**

Dr. Panatcha Weerapol

Dr. Dusit Nantanapiboon

**Committee:**

Dr. Sirapop Suwankomolkul

Dr. Tanit Arunratanothai

Dr. Thanatchaporn Jindanil

Dr. Kridtapat Sirisereephap

Dr. Itt Assoratgoon

# SEAADE and IADR-SEA councils

## SEAADE councils

| Name (Country)                  | Country or Region | Position                 |
|---------------------------------|-------------------|--------------------------|
| Prof. Chun Hung Chu             | Hong Kong         | President                |
| Prof. Passiri Nisalak           | Thailand          | President elected        |
| Dr. James Kit-Hon Tsoi          | Hong Kong         | Secretary                |
| Prof. Ibrahim Abu Hassan        | Malaysia          | Treasurer                |
| Prof. Allen Ming-Lun Hsu        | Taiwan            | Immediate past president |
| Prof. Allan Kah Heng Pau        | Malaysia          | Councilor member         |
| Prof. Sri Angky Soekanto        | Indonesia         | Councilor member         |
| Prof. Arturo P. de Leon         | Philippines       | Councilor member         |
| Prof. Eddie Hsiang-Hua Lai      | Taiwan            | Councilor member         |
| Prof. Ngo Thi Quynh Lan         | Vietnam           | Councilor member         |
| Prof. Chooi Gait Toh            | Malaysia          | Ex-officio member        |
| Prof. Rahimah Abdul Kadir       | Malaysia          | Ex-officio member        |
| Prof. Krassanai Wangrangsimakul | Thailand          | Ex-officio member        |

## IADR-SEA councils

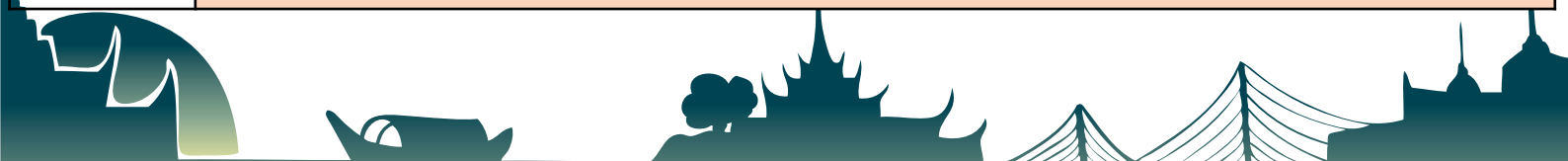
| Name (Country)                              | Country or Region | Position                 |
|---|-------------------|--------------------------|
| Assoc.Prof. Risa Chaisuparat                | Thailand          | President                |
| Prof. May CM Wong                           | Hong Kong         | President elected        |
| Dr. Nareudee Limpuangthip                   | Thailand          | Secretary                |
| Assoc. Prof. Chaminda Jayampath Seneviratne | Singapore         | Treasurer                |
| Prof. Chun-Pin Lin                          | Taiwan            | Immediate past president |
| Dr. Armelia Sari Widjarman                  | Indonesia         | Councilor                |
| Dr. Pearly Lim                              | Vietnam           | Councilor                |
| Prof. Li Deh Lin                            | Taiwan            | Councilor                |
| Dr. Hoang Trong Hung                        | Vietnam           | Councilor                |

# The 31<sup>st</sup> South East Asian Association for Dental Education (SEAADE) Meeting

## Virtual meeting

### November 24<sup>th</sup>, 2020 (Tuesday)

| Thailand time<br>(GMT+7) | Virtual Room 1   | Virtual Room 2   |
|--------------------------|--|--|
| 07:45 - 8:00             | OPENING REMARK<br>(President Prof. Chun Hung Chu/ Dean Assoc.Prof. Pornchai Jansisyanont/ Chair Asst. Prof. Suchit Poolthong)  |  |
| 08:00 - 09:00            | KEYNOTE I : "Dental Education After Disruption : A Conversation"<br>Prof. Ryan Quock<br>Chairperson: Asst. Prof. Suchit Poolthong  |  |
| 09:00 - 09:30            | Break  |  |
| 09:30 - 11:00            | PLENARY SESSION :<br>"What we should be doing for online learning planning, assessment, and research?"<br>Prof. Michael George Botelho (Hong Kong)/ Asst. Prof. Ajiravudh Subarnbhesaj (Thailand)<br>Chairperson: Asst. Prof. Suchit Poolthong |  |
| 11:00 - 12:00            | Break  |  |
| 12:00 - 13:30            | COMPETITION SESSION 1<br>Assoc. Prof. Prathip Phantumvanit (Chair)<br>Asst. Prof. Anjalee Vacharaksa (Moderator)   | SEAADE ANNUAL GENERAL MEETING<br>Prof. Chun Hung Chu (Chair)<br>Dr. James Kit-Hon Tsoi (Moderator) |
| 13:30 - 14:00            | Break  |  |
| 14:00 - 15:30            | COMPETITION SESSION 2<br>Assoc. Prof. Prathip Phantumvanit (Chair)<br>Asst. Prof. Supachai Chuenjitwongsa (Moderator)  | COMPETITION SESSION 3<br>Prof. Toh Chu Gait (Chair)<br>Asst. Prof. Anjalee Vacharaksa (Moderator)  |
| 16:00 - 16:30            | "University Rankings and the Performance of South East Asian Institutions"<br>(Mr. Kesh Patel)   |  |
| 17:00 - 20:00            | Reception  |  |

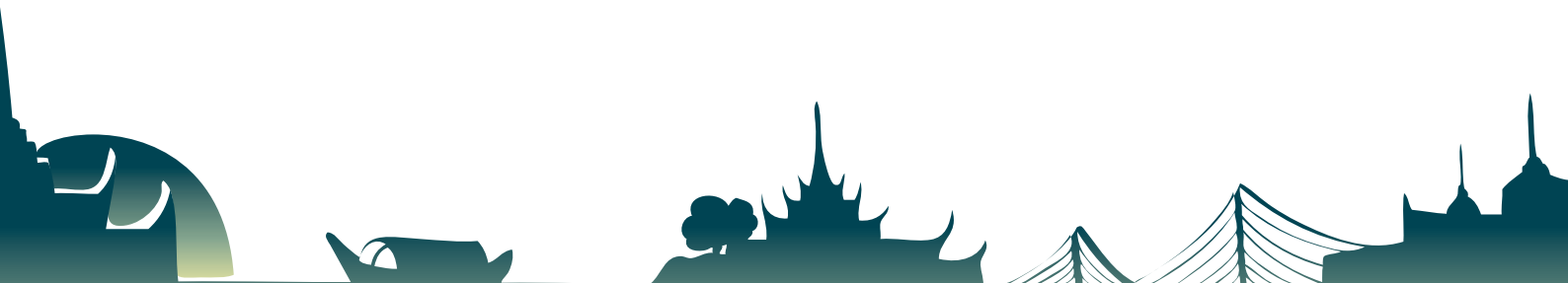


# The 31<sup>st</sup> South East Asian Association for Dental Education (SEAADE) Meeting

## Virtual meeting

### November 25<sup>th</sup>, 2020 (Wednesday)

| Thailand time<br>(GMT+7) | Virtual Room 1  | Virtual Room 2  |
|--------------------------|---|---|
| 08:00 - 10:00            | SYMPOSIUM : "Dental education during the COVID -19 pandemic and preparation for future pandemic"<br>Asst. Prof. Suchit Poolthong/ Prof. Tri Emi Astoeti/<br>Asst. Prof. Duangporn Duangthip |   |
| 10:00 - 10:30            | Break   |   |
| 10:30 - 12:00            | COMPETITION SESSION 4<br>Asst. Prof. Yupin Songpaisan (Chair)<br>Asst. Prof. Anjalee Vacharaksa (Moderator)   | COMPETITION SESSION 6<br>Assoc. Prof. Waranuch Pitiphat (Chair)<br>Asst. Prof. Suchit Poolthong (Moderator) |
| 12:00 - 13:00            | Break   |   |
| 13:00 - 14.30            | COMPETITION SESSION 5<br>Asst. Prof. Yupin Songpaisan (Chair)<br>Asst. Prof. Anjalee Vacharaksa (Moderator)   | COMPETITION SESSION 6<br>Assoc. Prof. Waranuch Pitiphat (Chair)<br>Asst. Prof. Suchit Poolthong (Moderator) |
| 14.30 - 15:00            | Break   |   |
| 15.000 - 16:00           | COMPETITION JUDGE ONLY FOR THE<br>AWARD DISCUSSION  |   |
| 16:00 - 17:00            | COMPETITION AWARD CEREMONY AND CLOSIND REMARK   |   |
| 17:00 - 20:00            | BUSINESS MEETING WITH IADR-SEA  |   |

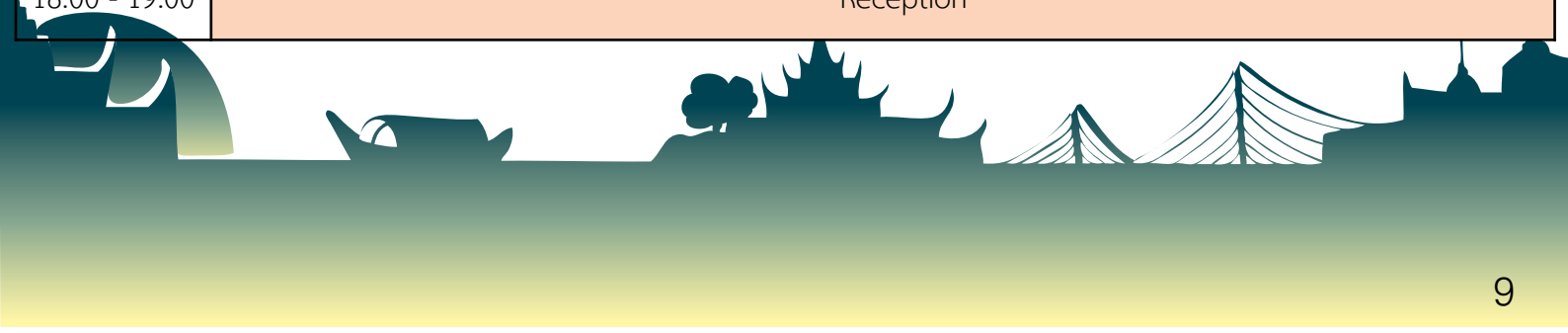


# The 34<sup>th</sup> IADR Southeast Asian Division Annual Meeting

## Virtual meeting

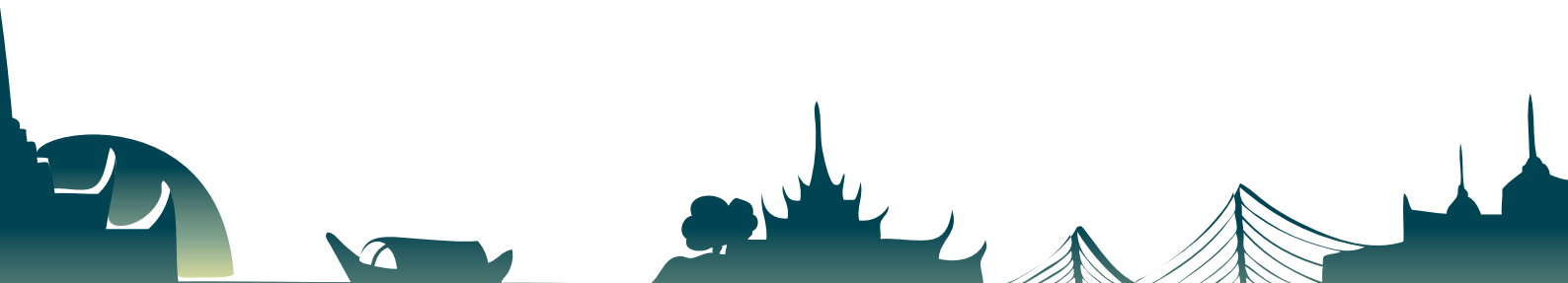
### November 26<sup>th</sup>, 2020 (Thursday)

| Thailand time<br>(GMT+7) | Virtual Room 1   | Virtual Room 2  | Virtual Room 3  |
|--------------------------|--|---|---|
| 8:30 - 9:00              | OPENING REMARK<br>(President Prof. Pamela Den Besten/Dean Assoc.Prof. Pornchai Jansisyanont/Chair Assoc.Prof. Risa Chaisuparat<br>Dr. Thanatchaporn Jindanil (Moderator)             |   |   |
| 9:00 - 10:00             | KEYNOTE I : Environmental effects on tooth enamel formation<br>Prof. Pamela Den Besten (President of IADR)<br>Chairperson: Asst. Prof. Suchit Poolthong                              |   |   |
| 10:00 - 10:15            | Break  |   |   |
| 10:15 - 11:45            | SYMPOSIUM I : Oral cancer and lesions<br>Assist Prof. Rania Younis (USA), Dr. Sven Otto (Germany), Prof. Nikitakis Nikoloas (Greece)<br>Chairperson: Assoc.Prof. Risa Chaisuparat    |   |   |
| 12:00 - 13:00            | Break  |   |   |
| 13:00 - 14:30            | SYMPOSIUM II : Geriatric dentistry<br>Prof. Murray Thomson (New Zealand), Prof. Kazunori Ikebe (Japan), Asst. Prof.Orapin Komin (Thailand)<br>Chairperson: Dr. Nareudee Limpuangthip |   |   |
| 14:30 - 15:00            | POSTER Presentation 1<br>Asst. Prof. Palinee Detsomboonrat<br>(Moderator)  | POSTER Presentation 2<br>Assoc.Prof. Risa Chaisuparat (Moderator)   | POSTER Presentation 3<br>(Hatton Senior)<br>Dr. Nareudee Limpuangthip/<br>Dr. Tanit Arunratanothai<br>(Moderator) |
| 15:00 - 15:15            | Break  |   |   |
| 15:15 - 17:00            | ORAL Presentation 1<br>Dr. Nipaporn Urwannachotima<br>(Moderator)  | Unilever Hatton<br>Competition Junior Catagory<br>(closed session)<br>Dr. Nareudee Limpuangthip (Moderator) | Unilever Hatton<br>Competition Senior Catagory<br>(closed session)<br>Dr. Tanit Arunratanothai<br>(Moderator)     |
| 18:00 - 19:00            | Reception  |   |   |



**The 34<sup>th</sup> IADR Southeast Asian Division Annual Meeting**  
**Virtual meeting**  
**November 27<sup>th</sup>, 2020 (Friday)**

| Thailand time<br>(GMT+7) | Virtual Room 1   | Virtual Room 2  | Virtual Room 3   |
|--------------------------|--|---|--|
| 9:00 - 10:00             | KEYNOTE II : Probiotics for oral health: from basic science to clinical application<br>Prof. Wim Teughels (Belgium)<br>Chairperson: Asst.Prof. Pisha Pittayapat  |   |  |
| 10:00 - 10:15            | Break  |   |  |
| 10:15 - 11:45            | SYMPOSIUM III : Material research in dentistry<br>Prof. Shinya Murakami (Japan), Assoc.Prof. Oranart Matangkasombut (Thailand), Assist.Prof.Joao Ferreira (Thailand)<br>Chairperson: Prof. Rangsin Mahanonda |   |  |
| 12:00 - 13:00            | Break  |   |  |
| 13:00 - 15:00            | ORAL Presentation 2<br>Assist.Prof. Joao Ferreira<br>(Moderator)   | ORAL Presentation 3<br>Dr. Nareudee Limpuangthip<br>(Moderator) | ORAL Presentation 4<br>Assoc.Prof. Risa Chaisuparat<br>(Moderator) |
| 15:00 - 15:15            | Break  |   |  |
| 15:15 - 15:45            | POSTER Presentation 4<br>Assoc.Prof. Risa Chaisuparat<br>(Moderator)   |   |  |
| 15:45 - 16:30            | AWARD CEREMONY and CLOSING   |   |  |



# SEAADE pre-conference workshop

## A. Online learning and technology-enhanced learning in dentistry: Toward the new normal

**Date:** November 23<sup>rd</sup>, 2020 (Monday)

**Time:** 8.00 - 11.00

**Speaker:** Associate Professor Dr. Praweenya Suwannatthachote

**Workshop content:** Online learning and digital technology are transforming how we delivery knowledge and skills during the COVID-19 pandemic. Appropriate use of technologies based on instructional design is central to developing learner performance. This workshop will focus on instructional design for online learning and the use of digital tools for teaching and learning. A discussion activity is designed to gain more interaction among participations' experiences related to online teaching and learning during emergency remote learning in March2020 and how to redesign teaching and learning using online learning for the new normal.



Praweenya Suwannatthachote is an Associate Professor at the Faculty of Education, Chulalongkorn University, Thailand. She holds a Ph.D. in Educational Communication and Technology from Chulalongkorn University, Thailand. She has assigned for a temporary duty at Learning Innovation Center, Chulalongkorn University since 2017. She has been involved in many projects especially Thai MOOC national system under the Ministry of Higher Education, Science, Research and Innovation (MHESI). Her research interests include learning design, integration of technology into teaching and learning, teacher education, online learning environments, and MOOCs.

# SEAADE pre-conference workshop

## B. Shifting assessment of knowledge

**Date:** November 23<sup>rd</sup>, 2020 (Monday)

**Time:** 8.00-11.00

**Speaker:** Associate Associate Professor Dr. Cherdsak Iramaneerat

**Workshop content:** Assessment of knowledge is a core element of health science education. The traditional model of knowledge assessment has been challenged by recent changes in technology, economy, and public health policy. COVID-19 pandemic rapidly accelerated the needs to change assessment strategies. Dental teachers, educators, and dental school administrators have been forced to rethink about assessment approaches that have been used for a long time. Adapting to this education disruption requires a paradigm shift on assessment in many aspects: what, when, where, how, why, and by whom. In this workshop, the discussion will be focused on assessment of knowledge. Participants will explore many interesting issues that a dental school needs to adapt in order to provide high quality education in a disruptive world.

- What should we assess? Is fact memorization still important to be a dentist?
- When should we assess learners? Should examination always occur at the end of semester? Are there any benefits for giving examination early?
- Where do we assess learners? Is it possible to assess students online?
- How can we assess learners? What options are available? What are advantages and limitations for various assessment methods for dental students? How can we administer valid assessment in an online format?
- Why do we assess learners? Assessment for feedback or making pass/fail decision
- Who are the persons responsible for student assessment? Should student assessment be restricted to teachers? Should nurses, co-workers, or peer involve with assessment?



Dr. Cherdsak Iramaneerat graduated from Faculty of Medicine Siriraj Hospital, Mahidol University. He continued his training in surgery and received Thai board of general surgery and Thai board of colon and rectal surgery. His passion in teaching brought him to study in United States and earned Master of Health Professions Education and PhD in educational psychology from University of Illinois at Chicago. His main interests are educational psychology, educational measurement, and faculty development. He has involved with several workshops and projects related to improving teaching and assessment in medical schools, dental schools, and several health professional schools.

Dr. Cherdsak is currently working as a colorectal surgeon and an assistant dean in undergraduate education at Faculty of Medicine Siriraj Hospital. He is also a director of Siriraj Health science Education Excellence center and a program director of Master of Science in Health science education.

## C. Re-designing courses for online engagement during COVID-19

**Date:** November 23<sup>rd</sup>, 2020 (Monday)

**Time:** 8.00-10.30

**Speaker:** Associate Professor Dr. Susan Bridges

**Workshop content:** One advantage of the emergency remote teaching pivot to online learning caused by the COVID-19 pandemic has been a re-examination of the role of technologies in our course offerings. Course designs often follow a pattern of presentation of content followed by active learning approaches. In this session, I will share some course design alternatives and explore how we may use these principles to re-design online courses that prioritise student collaboration and deep engagement. I will begin by sharing some of my own course designs which have drawn on inquiry-based approaches. First, I will share my teaching team's experience of adopting design principles from problem-based learning to devise and deliver a fully online asynchronous Certificate course with the LKS Faculty of Medicine at The University of Hong Kong. Second, I will share my 2019-21 Masters level course in the Faculty of Education designed using the principles of case-based learning and my ideas for re-designing this as a fully online course. Workshop participants are asked to bring along the course outline for one of their current courses (face-to-face or online). Your course will form the basis of the workshop activity of re-designing for online engagement.



Dr. Susan Bridges is the Director the Centre for the Enhancement of Teaching and Learning (CETL) and former Assistant Dean (Learning and Teaching/ Curriculum Innovation) in the Faculties of Education and Dentistry at The University of Hong Kong (HKU). Her higher education initiatives focus on curriculum and faculty development projects in professional education most recently chairing the reform of the HKU Postgraduate Diploma in Education (Bridges et al, 2018). She is particularly interested in integrated curriculum designs and inquiry-based learning and how educational technologies can support and enhance these (see QS Wharton Awards). In 2016, she was invited to join the Universitas21 (U21) Steering Group for the Educational Innovation Cluster to support network-wide initiatives (Bridges, Armour et al, 2019). Her HKSAR RGC and internationally-funded research demonstrates a core interest in human interactions exploring the 'how' of effective pedagogies and designs through ethnographic approaches. She serves on the Editorial Board for the Interdisciplinary Journal of Problem-based Learning, is a finalist judge for the QS Wharton Reimagine Education Awards and, in 2020, was elected as Chair of the Problem-based Education SIG of the American Educational Research Association (AERA). Her 2020 co-edited volume (with Rintaro Imafuku) on "Interactional Research into Problem-based Learning" is with Purdue University Press.

# SEAADE pre-conference workshop

## D. Educational tools for online learning

**Date:** November 23<sup>rd</sup>, 2020 (Monday)

**Time:** 12.00-15.00

**Speaker:** Dr. Patrachart Komolkiti

**Workshop content:** Moving classes from classrooms to online is not just about talking to a camera instead of students. While similar outcomes are expected, there are many aspects of online learning that require different approaches. Fortunately, many tools are available to facilitate online learning. Participants will have some hands-on trials to see how technologies can enhance the learning experience.



Patrachart Komolkiti received his Bachelor's degree from Chulalongkorn University, Bangkok, Thailand, in 1997, his Master's degree from Northwestern University, USA, in 1998, and his Doctoral degree from Chulalongkorn University, Bangkok, Thailand, in 2011, all in Electrical Engineering. Currently, he is the director of the Learning Innovation Center and the acting director of the Office of Academic Affairs, Chulalongkorn University.

# SEAADE pre-conference workshop

## E. Student Experiences during the COVID-19 Pandemic

**Date:** November 23<sup>rd</sup>, 2020 (Monday)

**Time:** 12.00-15.00

**Speaker:** Student Representatives from the Asia Pacific Dental Students Association (APDSA)

**Workshop content:** During the COVID-19 pandemic, undergraduate dental education has changed drastically toward the new normal. Teaching and learning moved to online platform while laboratory and clinical practice were postponed. Facilitating for students and educators to adapt to the new way of education was (and now is still) challenging. In this session, student voices from various countries on (1) how educators, dental schools, and universities supported their students during the difficult time and (2) what should be prepared for the future of undergraduate dental education will be presented and discussed



APDSA is the brainchild of the Asia–Pacific Dental Federation (APDF/APRO FDI) and it was established in 1968 in Japan, having its first Annual Congress in 1969. Our members are composed of dental schools in the Asia Pacific region. Currently, we have 16 member countries and have partnerships with various student organizations in the region.

APDSA is an avenue to supplement the holistic growth of dental students within the region by supplementing knowledge from the curriculum with enriching activities.

## F. Supporting clinical skills learning in the classroom and online

**Date:** November 23<sup>rd</sup>, 2020 (Monday)

**Time:** 12.00-15.00

**Speaker:** Professor Dr. Michael George Botelho

**Workshop content:** The acquisition and experience of clinical skills learning is a complex and resource intensive phenomena. The learning of these skills is largely unstructured and the transition from theory to practice creates uncertainties, gaps in knowledge and stresses for the learner. How can we better prepare our learners during their clinical skills learning and practice? Using in-class and online pedagogies we can scaffold specific learning experiences during their transition to clinical practice by providing them with problem solving and clinical decision-making skills. This presentation proposes a framework to help educators plan learning experiences and in particular will explore the Observation of Videoed Expert-student Dialogue (OVED) as well as the use of a novel flipped class model in Simulation Laboratory learning.



Professor Michael Botelho has been at HKU for 25 years and been actively engaged in educational reform pedagogy and innovation. In education, he has over 20 peer reviewed publications and 8 book chapters and participated in 19 education grants. He is an editorial Board Member of the European Journal of Dental Education, a Technology Enhanced Learning committee member of AMEE and a board member of ADEE. He has lectured and consulted in Hong Kong, across South-East Asia and in Europe and North America. His educational research interests are related to video and online learning, PBL, active learning and the flipped class. and student discourse. He has a number of teaching awards including the prestigious UGC Teaching Award in Hong Kong and designed Video Vox which is a dialogic and interactive video platform. He is long-term committed educator and scholar of teaching and learning and still enthusiastic to create improved and novel learning experience for our students.

## SEAADE speakers

### KS1, Professor Ryan Quock



**Current Position:** The University of Texas School of Dentistry at Houston

**Curriculum Vitae:** Professor Ryan Quock is a University of Texas System Distinguished Teaching Professor, whose primary appointment is preclinical restorative teaching. He has won numerous teaching awards at the School of Dentistry at Houston; at the state level he has been recognized with The University of Texas Board of Regents Outstanding Teaching Award and induction into the system-wide Kenneth I. Shine, MD, Academy of Health Science Education. His scholarly interest is the intersection of preventive and operative dentistry, as well as pedagogy associated with these topics; he has authored 43 peer-reviewed articles (published or in press), 5 peer-reviewed educational resources, and numerous invited and local articles. In addition to serving nationally on the Board of the caries management-focused CaMBRA Coalition, Professor Quock currently serves as the Chair of the Board of the American Dental Education Association (ADEA). He is the first person of Asian descent in the nearly hundred-year history of ADEA to be elected to its highest office.

**Program:** November 24<sup>th</sup>, 2020, 8.00-9.00

**Title:** Dental Education After Disruption: A Conversation

**Abstract:** Dental education globally is responding to major disruption. Disruption is almost always inconvenient, but it also presents the opportunity for critical reflection. While the natural reaction amidst disruption is a yearning to return to “normalcy,” is it truly optimal to return to the status quo? Dental educators will have to appraise their own distinct contexts in order to reach appropriate conclusions. We will consider the general effects of the current disruption on dental education globally, and then use a specific context as a case example for critical reflection.

## SEAADE speakers

### KS2, Professor Michael Botelho



**Current Position:** Clinical Professor in Restorative Dental Sciences, University of Hong Kong

**Curriculum Vitae:** Professor Michael Botelho has been at HKU for 25 years and been actively engaged in educational reform pedagogy and innovation. In education, he has over 20 peer reviewed publications and 8 book chapters and participated in 19 education grants. He is an editorial Board Member of the European Journal of Dental Education, a Technology Enhanced Learning committee member of AMEE and a board member of ADEE. He has lectured and consulted in Hong Kong, across South-East Asia and in Europe and North America. His educational research interests are related to video and online learning, PBL, active learning and the flipped class and student discourse. He has a number of teaching awards including the prestigious UGC Teaching Award in Hong Kong and designed Video Vox which is a dialogic and interactive video platform. He is long-term committed educator and scholar of teaching and learning and still enthusiastic to create improved and novel learning experience for our students.

**Program:** November 24<sup>th</sup>, 2020, 9.30-11.00

**Title:** What we should be doing for online learning – planning, assessment and research

**Abstract:** To achieve meaningful outcomes in online learning a holistic strategy needs to be adopted to support students learning and meet learning outcomes. This needs careful design both from a platform strategy, curriculum and pedagogy design including assessment, evaluation and research. This plenary session and workshop will present ideas for how to tackle these issues and how you can strategize on implementing these in your curricula.

# SEAADE speakers

## KS3, Assistant Professor Dr. Ajiravudh Subarnbhesaj



**Current Position:** Associate Dean for Education, Faculty of Dentistry, Khon Kaen University, Thailand

**Curriculum Vitae:**

- Fellowship of the Royal College of Dental Surgeon of Thailand (Oral Medicine) in 2017
- Ph.D. (Dental Science) at Hiroshima University Graduate School of Biomedical Sciences, Hiroshima University in 2011-2014
- Master of Arts (M.A.) at Faculty of Arts Chulalongkorn University, Thailand in 2005-2007
- Fellowship of the Royal College of Dental Surgeon of Thailand Faculty of Dentistry (Oral Pathology) in 2005
- Master of Dental Science (M.D.Sc.) at Faculty of Dentistry, the University of Sydney, Australia in 2000 - 2002
- Graduate Diploma at Faculty of Dentistry, Mahidol University, Thailand in 1999
- Doctor of Dental Surgery (D.D.S) at Faculty of Dentistry Khon Kaen University, Thailand in 1991 - 1997

**Program:** November 24<sup>th</sup>, 2020, 9.30-11.00

**Title:** What we should be doing for online learning – planning, assessment and research

**Abstract:** The concept of traditional education has been greatly challenged and radically changed, especially during the COVID-19 pandemic. The measures put in place by governments and entities to allow workers and students to do their daily tasks from home confirms that it is possible to carry out these activities from anywhere, with just a computer or smartphone. Therefore, online learning has become an integral part of our current dental education system, whether for comfort, adapting to work hours or just having the freedom to study from anywhere. Studying online teaches vital time management skills. It is also considered as the democratization of education because it is relatively low cost and gives students who are not physically able to go to school access to quality education. Having a common agenda between the student and teacher can also prompt both parties to accept new responsibilities and have more autonomy. However, online learning has both advantages and disadvantages. This talk is aimed at discussing and sharing experience of how academic dental institutions in Thailand have been handling the situation to maintain the quality of both didactic teaching and practical clinical skills by online learning.

## SEAADE speakers

### KS4, Mr. Kesh Patel



**Current Position:** Higher education consultant

**Curriculum Vitae:** Kesh is a higher education consultant with a special focus on converting data and insights into strategy and implementation plans. Kesh has worked within the Higher Education sector for over 12 years and draws upon his experience of working at institutions to advise clients on the best solutions for their needs

**Program:** November 24<sup>th</sup>, 2020, 16.00-16.30

**Title:** University Rankings and the Performance of South East Asian Institutions

**Abstract:** This session will look at the performance of universities in South East Asia in the World University Rankings, Asia Rankings as well as the Dentistry subject rankings. Looking at each of the indicators for the rankings we will be able to identify areas where institutions perform well in comparison to peers and where improvement needs to be made. The short presentation will be followed by a question and answer session.

## SEAADE speakers

### KS5, Assistant Professor Suchit Poolthong



**Current Position:** Former Dean, Faculty of Dentistry, Chulalongkorn University

**Curriculum Vitae:** Dr. Suchit Poolthong is Assistant Professor in Department of Operative Dentistry, Chulalongkorn University. He was the former Dean, Faculty of Dentistry, Chulalongkorn University and director of Dental Material Science, Research Center and director of Dental Biomaterial program. He was conferred Doctor of Philosophy (PhD) and Master of Science in dental material from the University of Sydney. He is board certified in Operative Dentistry and certified in Advanced Security Management Program, National Defense College Association of Thailand. He was an invited speaker in several international conferences such as ASEAN Forum on Dentistry, IADR South East Asia Division, etc. He also received IADR Research in Joseph Lister Award in 2018. Dr. Suchit Poolthong presented his research at many international conferences and had authored 43 peer-reviewed articles. His research interests focus on biomaterials and biomechanics, characteristics and properties of teeth, and biomineralization of teeth. He currently serves as Editorial Board in International Journal of Oral Sciences.

**Program:** November 25<sup>th</sup>, 2020, 9.30-11.00

**Title:** Dental education during the covid-19 pandemic and preparation for a future pandemic

**Abstract:** Dental schools around the world have suffered from the outbreak of the covid-19 virus in the past year and electronic teaching processes have been used, especially to replace classroom teaching. However, dental students require clinical skills and they cannot graduate without demonstrating the dental competencies required by their country. Dental procedures typically generate aerosol from the patients' oral cavity and potential for virus spreading via this route made clinical teaching more difficult. This symposium will discuss possible teaching methods during the covid-19 virus outbreak in classrooms and in dental clinics. Experiences from many countries will be discussed and how to perform safe clinical training if other airborne diseases emerge.

# SEAADE speakers

## KS6, Professor Tri Erri Astoeti



**Current Position:** Dean Faculty of Dentistry Trisakti University (FoD Usakti)

### Curriculum Vitae:

#### *Work History*

- 1986-now: Lecturer in Dental Public Health and Preventive Dentistry Department, Faculty of Dentistry Trisakti University
- 1996: Professional Marketing Officer, PT Unilever Indonesia
- 2005-2013: Executive Director of Teaching Dental Hospital FoD Usakti
- 2006-2014: 4<sup>th</sup> Vice Dean FKG Usakti Collaboration and Development affair
- 2009-2014: Member of Indonesian medical Council Registration Division
- 2012-now: Professor in Faculty of Dentistry Trisakti University
- 2014-now: Dean Faculty of Dentistry Trisakti University

#### *Organization and professional memberships*

- Chairman of External Affair, Indonesian Dental Association at year 1999-2002
- Chairperson of Indonesian Teaching Dental Hospital Association at year 2007-2010
- Vice Secretary of Indonesian Dental Public Health Association
- Member of International Association for Dental Research (ID number: P 4952615)
- Member of Asia Academic of Preventive Dentistry
- Indonesian Clinical Editorial Advisor on Dental Practice News
- Project leader for Project Live, Learn, Laugh/ Brush Day and Night Indonesian project Federation Dental International 2006-now
- Vice Chairman Asia Pacific Dental Congress 29, 2007
- Chairman of International Association for Dental Research, Indonesian Section 2007-now
- Chairperson External Affair Indonesian Dental Association 2014-now
- Chairman of Supervisor Board Indonesian Commission for Hospital Accreditation (KARS) 2014-now
- Vice Chairman Oral Health Committee, Ministry of Health Republic of Indonesia

**Program:** November 25<sup>th</sup>, 2020, 9.30-11.00

**Title:** Dental education during the covid-19 pandemic and preparation for a future pandemic

## SEAADE speakers

### KS7, Assistant Professor Tammy Duangporn Dungthip



**Current Position:** Clinical Assistant Professor in Cariology, The University of Hong Kong.

**Curriculum Vitae:** Dr. Duangthip is Clinical Assistant Professor in Cariology, The University of Hong Kong. She was the former Associate Dean, and Director of Dental Department, Faculty of Dentistry, Thammasat University, Thailand. She was conferred Doctor of Philosophy (PhD) and Master of Science in Dental Public Health from the University of Hong Kong, and Doctor of Dentistry (Dr. med. dent.) from University of Bern, Switzerland, and Doctor of Dental Surgery (DDS) from Chulalongkorn University, Thailand. She is a Fellow of Royal College of Dental Surgeons of Thailand (FRCDT) in Dental Public Health and a Fellow and Chairman of Humanitarian Committee of International College of Dentists (ICD) section XV. She was an invited speaker in several international conferences such as World Congress on Preventive Dentistry, IADR Malaysian Section, etc. She also received IADR Colgate Research in Prevention Travel Award in 2014. Dr. Duangthip presented her research at many international conferences and published more than 45 peer-reviewed journals including first author in Journal of Dental Research with H-index 15 and more than 600 citations (Scopus). Her research interests focus on caries management, fluorides and community dental care. Currently, she is an Associate Editor in BMC Oral Health and an Assistant Specialty Chief Editor of Oral Hygiene and Oral Health Policy Section in Frontiers in Oral Health.

**Program:** November 25<sup>th</sup>, 2020, 9.30-11.00

**Title:** Dental education during the covid-19 pandemic and preparation for a future pandemic

## IADR-SEA speakers

### KS1, Professor Pamela Den Besten



**Current Position:** Professor in Department of Orofacial Sciences, School of Dentistry, University of California San Francisco.

**Curriculum Vitae:** Pamela Den Besten is Professor in the Department of Orofacial Sciences, School of Dentistry, University of California San Francisco. She directs the Center for Children's Oral Health Research, and co-directs the DDS-PhD and PhD programs in Oral and Craniofacial Sciences within the School of Dentistry and the Graduate Division. Dr. Den Besten is President of the International Association for Dental Research (IADR). She is past Chair of the American Association for the Advancement of Science (AAAS) Section on Dentistry & Oral Health Sciences. In 2009, Dr. Den Besten received the IADR Distinguished Scientist Award in Pulp Biology and Regeneration. She is an AAAS honorary Fellow. Dr. Den Besten has published over 125 scientific manuscripts in peer-reviewed journals, along with 18 book chapters. Her research interests are focused on tooth formation, and in particular enamel and dentin regeneration and biomineralization. She is an international leader in enamel fluorosis research, and studies environmental effects on tooth formation.

**Program:** November 26<sup>th</sup>, 2020, 9.00-10.00

**Title:** Environmental effects on tooth enamel formation

## IADR-SEA speakers

### KS2, Assistant Professor Rania Younis



**Current Position:** Department of Oncology and Diagnostic Sciences, the University of Maryland School of Dentistry (UMSOD)

**Curriculum Vitae:** Dr. Younis specializes in Diagnostic Oral and Maxillofacial Pathology. Most of her cases are related to the oral cavity, jawbones, sinuses and salivary glands, that ranges from reactive, inflammatory and autoimmune conditions to benign and malignant tumors. Dr. Younis received her B.D.S. and M.D.S. from the Faculty of Dentistry and Oral Medicine, Alexandria University, Egypt, where she practiced general Dentistry for six years. She received her residency in oral and maxillofacial pathology and her Ph.D. in Oral and Experimental Pathology from the School of Dentistry, University of Maryland Baltimore in 2011. Dr. Younis is a fellow of the American Academy of Oral and Maxillofacial Pathology since 2009 and board certified in oral and maxillofacial pathology since 2011. Dr. Younis was awarded the NIH Ruth L. Kirschstein National Research Service Award (NRSA) for the year 2011-2012 in craniofacial research, and the Sparkathon award from the Society of Immunotherapy for Cancer in 2018. Dr. Younis is an assistant professor in Department of Oncology and Diagnostic Sciences since 2013 and program director of the OMP in UMSOD program since 2015.

**Program:** November 26<sup>th</sup>, 2020, 10.15-11.45 (SYMPOSIUM I – Oral cancer and lesions)

**Title:** Tumor inflammation in head and neck squamous cell carcinoma and clinical implications.

**Abstract:** Inflammation plays an essential role in tumor initiation and progression. Dr. Younis research is focused in investigating tumor inflammation in head and neck squamous cell carcinoma (HNSCC) and response to immunotherapy. In this context, Dr. Younis lab was the first to stratify HNSCC into 4 subgroups according to combined analysis of expression of the 2 inflammatory biomarkers: Semaphorin 4D and Programmed death ligand 1 (PD-L1) in tumor cells, that carries significant implications in the world of personalized cancer treatment for HNSCC patients. Her lab was also the first to demonstrate a novel mechanism of tumor immune suppression: upregulation of myeloid suppressor cells and T regulatory cells, through HNSCC production of Semaphorin 4D (Sema4D). In this presentation, she will summaries her work and recent discoveries in HNSCC in relation to IFN- $\gamma$  signature.

## KS3, Professor Nikitakis Nikoloas



**Current Position:** Professor and Chair in the Department of Oral Medicine and Pathology, School of Dentistry, National and Kapodistrian University of Athens, Greece (NKUA).

**Curriculum Vitae:** Nikolaos G. Nikitakis is currently Professor and Chair in the Department of Oral Medicine and Pathology, School of Dentistry, National and Kapodistrian University of Athens, Greece (NKUA). He also serves as Vice Dean as well as Chair of the Undergraduate Curriculum Committee in the same School. He graduated in Dentistry (DDS, 1996) and Medicine (MD, 2012) from the NKUA, Greece. He completed his specialty training (Specialty Certificate, 2001) in Oral and Maxillofacial Pathology in the University of Maryland, Baltimore (UMB), USA, where he also received his PhD (2002) in Oral and Experimental Pathology and served as Full Time Assistant Professor (2002-2006) and Director of the PhD and Residency Program in Oral and Maxillofacial Pathology, Dental School (2004-2006). He is a Diplomate of the American Board of Oral Maxillofacial Pathology (Diploma ABOMP, 2003), a Fellow of the American Academy of Oral and Maxillofacial Pathology (Fellowship Certificate AAOMP, 2001) and the American Academy of Oral Medicine (Fellowship Certificate AAOM, 2004). Also, in 2016, he completed a sabbatical as a Visiting Scientist in the Department of Diagnostic & Biomedical Sciences, School of Dentistry, The University of Texas Health Science Center at Houston, and in the Department of Pathology, Head and Neck Section, The University of Texas MD Anderson Cancer Center, Houston, Texas, USA. Professor Nikitakis has served as Secretary General (2014-2018) and is currently the President (2018-present) of the European Association of Oral Medicine (EAOM). Further, since 2015, he has been President of the Hellenic Society of Oral Medicine and Oral Pathology (HSOMOP), in which he has also served as Treasurer (2009-2015). He has been member of the Organizing and/or Scientific Committees of several Scientific Conferences, including the 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup> and 13<sup>th</sup> Biennial EAOM Congresses, co-chair of the International Scientific Committee of the 14<sup>th</sup> Biennial EAOM Congress and is currently the chair of the upcoming 15<sup>th</sup> Biennial EAOM Congress (Porto, Portugal, October 2021). His clinical and research interests primarily focus on oral medicine/clinical oral pathology, diagnostic oral, head and neck histopathology and oral, head and neck oncology/cancer research. His scientific record includes >150 scientific publications in peer reviewed scientific journals with significant recognition (Scopus: citations >2.700, h-index: 31 and Google Scholar: citations >4.500, h-index: 39). He has also written a Research Monograph and several chapters in Textbooks and Scientific Handbooks. He also serves as Editor-in-Chief, Editorial Board member or reviewer of various scientific journals. He has presented numerous scientific papers and invited lectures in national and international meetings, several of which have received honors and awards, including the Gorlin Award and the Waldron Award of the AAOMP, as well as EAOM awards in Orlando 2014, Antalya 2014, and Turin 2016. He has been invited as Visiting Professor/Lecturer in several Universities in USA and Europe.

**Program:** November 26<sup>th</sup>, 2020, 10.15-11.45 (SYMPOSIUM I – Oral cancer and lesions)

**Title:** Oral Potentially Malignant Disorders (PMDs): Predicting and Preventing Transformation to Oral Cancer

**Abstract:** Most oral cancer cases are preceded by premalignant lesions and conditions, collectively referred to as Oral Potentially Malignant Disorders (OPMDs). Early detection of OPMDs and appropriate management, based on accurate assessment of their potential for malignant transformation, can allow prevention of oral squamous cell carcinoma (OSCC), potentially reducing oral cancer morbidity and mortality. However, to date, neither clinical nor histopathologic markers can reliably predict which OPMDs will progress to malignancy, while management of OPMDs remains challenging. A convincing argument can be made that progress in the prevention and treatment of oral premalignancy and cancer will require improved understanding of the underlying molecular mechanisms, facilitating the discovery of diagnostic, prognostic and predictive markers, as well as the identification of novel targeted therapies.

## IADR-SEA speakers

### KS4, Dr. Sven Otto



**Current Position:** Department of Oral and Maxillofacial Surgery, Ludwig-Maximilians-University of Munich

**Curriculum Vitae:** PD Dr. med. Dr. med. dent. Sven Otto has dealt intensively with clinical presentation, pathogenesis, prevention and treatment of medication-related osteonecrosis of the jaw. He has developed a pathogenesis theory putting infection and infection associated pH changes in the centre of the focus and collected cell cultural and clinical evidence for this hypothesis. He has also contributed to the clinical implementation of fluorescence-guided surgery for the treatment of MRONJ. Together with the AO research institute in Davos a minipig large animal model for MRONJ was established which could contribute to the further understanding of MRONJ. Together with Springer publishing he has edited the textbook "Medication-related osteonecrosis of the jaw: Bisphosphonates, Denosumab and New Agents".

**Program:** November 26<sup>th</sup>, 2020, 10.15-11.45 (SYMPOSIUM I – Oral cancer and lesions)

## IADR-SEA speakers

### KS5, Professor Murray Thomson



**Current Position:** Department of Oral Sciences, the University of Otago.

**Curriculum Vitae:** Professor W. Murray Thomson is an experienced dental researcher, scientific journal editor and specialist in dental public health. His oral epidemiological and public health research can be divided into the broad domains of: (1) life-course epidemiology and longitudinal research; (2) Gerodontological research; and (3) dental public health and health services research. To date, he has published 377 peer-reviewed research papers and 5 book chapters in the scientific literature, and his Scopus h index is 50. Thomson has been honored with two IADR Distinguished Scientist Awards (the 2010 H. Trendley Dean Memorial Award and the 2014 Geriatric Oral Research Award), and was a co-recipient of the 2016 Prime Minister's Science Award in NZ. Since 2015, he has been Editor-in-Chief of Community Dentistry and Oral Epidemiology. He is also an Associate Editor for the European Journal of Oral Sciences (since 2012). He was Associate Editor for Gerodontology from 2011 to 2014, and Editor of the New Zealand Dental Journal from 2007 to 2014.

**Program:** November 26<sup>th</sup>, 2020, 13.00-14.30 (SYMPOSIUM II- Geriatric Dentistry)

**Title:** Three decades of xerostomia research: what have I learned

**Abstract:** Dry mouth is a distressing, largely intractable condition which has a considerable impact on sufferers' quality of life. It occurs in adults of all ages. For over three decades, Thomson has been conducting research into its measurement, occurrence, risk factors, and impact. In this presentation, he will summarise what he has learnt from that work and consider the various treatment approaches and their challenges.

## IADR-SEA speakers

### KS6, Professor Kazunori Ikebe



**Current Position:** Department of Prosthodontics, Gerodontology and Oral Rehabilitation, Osaka University Graduate School of Dentistry.

**Curriculum Vitae:** Dr Kazunori Ikebe is a Professor and Chair, Department of Prosthodontics, Gerodontology and Oral Rehabilitation, Osaka University Graduate School of Dentistry. He is an experienced dental researcher in geriatric dentistry and prosthodontics. His epidemiological and clinical research on geriatric dentistry encompasses a wide range of oral conditions, such as masticatory disorder and dry mouth, and relationships between oral health and general condition, and oral-health-related quality of life. Ikebe is perhaps best known for his work from the SONIC (Septuagenarians, Octogenarians, Nonagenarians Investigation with Centenarians) Study, with which he has been associated since 2010. This is a multidisciplinary research project focused on the health and longevity of older Japanese; it is conducted not only by dentists but also geriatric physicians, nutritionists, psychologists, and sociologists in Osaka University. Ikebe has been honored with the International Association for Dental Research, Distinguished Scientist Award for Geriatric Oral Research in March, 2015.

**Program:** November 26<sup>th</sup>, 2020, 13.00-14.30 (SYMPOSIUM II- Geriatric Dentistry)

**Title:** Comprehensive approach to health and longevity by the team of psychologists, sociologists, geriatrics physicians, nutritionists and dentists

**Abstract:** Our multidisciplinary project from 2010 focused on the health and longevity of older Japanese conducted not only by dentists, but also nutritionists, psychologists, sociologists, and geriatrics physicians. Therefore, the study was able to evaluate a variety of important factors including variables for dental, dietary, medical, sociological, and psychological domains. Participants were community-dwelling old population identified from the local residential registration. We examine the change of mental and physical health of 70, 80, and 90 years cohorts every 3 year. I will show associations of oral health with physical and cognitive health in older population.

## IADR-SEA speakers

### KS7, Assistant Professor Orapin Komin



**Current Position:** Department of Prosthodontics, faculty of Dentistry, Chulalongkorn University.

**Curriculum Vitae:** Assist.Prof.Orapin Komin, is the full time lecture at the department of Prosthodontics, faculty of Dentistry, Chulalongkorn University. Also she is the course director of the “Geriatric Dentistry and Special Patients Care” the first master course in this field in Thailand founded since 2016. Her research interest is in the field of the Geriatric education, Quality of Life in the dependent elderly people, Oral and Dental care for the dementia elderly and also Prosthodontics treatment in the elderly.

**Program:** November 26<sup>th</sup>, 2020, 13.00-14.30 (SYMPOSIUM II- Geriatric Dentistry)

**Title:** Geriatric Dentistry Education: the next step

**Abstract:** As Thailand is facing with the increasing number of the elderly people, one of the important aspect to prepare for “Longevity age social” is about knowledge, skill and attitude of the health care professional toward the dynamic change of the geriatric group. In 2016, The “Geriatric Dentistry and Special Patients Care” program was first established at faculty of Dentistry, Chulalongkorn University. Up to now, there are 2 generations that graduated from the course. The Information analysis of the patients and students’ evaluation are essential to move from a knowledge-based curriculum to a competency-based curriculum that should be appropriate for the patients’ condition and need, then serve the curriculum requirements. Oral health care in elderly and special patients care requires a multidisciplinary approach, and should encompass oral disease problems, behavior and social context.

# IADR-SEA speakers

## KS8, Professor Wim Teughels



**Current Position:** Professor at the KULeuven and as the vice-head of the Periodontology section of the University Hospitals Leuven

**Curriculum Vitae:** Professor Wim Teughels graduated in 2000 as a dentist at the Katholieke Universiteit Leuven (KULeuven) in Belgium. At the same university, he obtained in 2006 the degree of specialist in Periodontology and he defended successfully his PhD thesis entitled “Microbial Interactions Involved in Bacterial Colonization of Epithelial Cells”. He also received a “European Federation of Periodontology (EFP) certificate in Periodontology”. In 2007, he was a visiting researcher at the University of California at Los Angeles (UCLA) and he was appointed assistant professor at the Faculty of Medicine of the KULeuven. His teaching obligations consist of a variety of subjects within the field of Periodontology and Human Anatomy. Currently, he works as a professor at the KULeuven and as the vice-head of the Periodontology section of the University Hospitals Leuven. His research focuses on Periodontology and oral microbiology with a special emphasis on bacterial adhesion, microbial interactions, antimicrobials and probiotics. His research work has been funded by grants of the KULeuven, Fund for Scientific Research Flanders, NIH (NIDCR) and different companies. This has led to more than 150 publications in international journals and more than 10 chapters in books. He received 5 national and 3 international awards and is frequently invited both nationally as internationally for lectures regarding the concept of “probiotics”. In 2012, Prof. Teughels became an associate editor for the Journal of Periodontal Research and an associate editor for the “Carranza’s Clinical Periodontology” textbook.

**Program:** November 27<sup>th</sup>, 2020, 9.00-10.00

**Title:** Probiotics for oral health: from basic science to clinical application.

**Abstract:** Most oral pathologies originate from dental plaque biofilms. These biofilms are under conditions of oral health in symbiosis with their host. Systemic and environmental factors can drive oral biofilms to a state of dysbiosis resulting in different oral pathologies. Over the recent years, it became clear that next to well known oral pathogens, several members of the oral microbiota are actually protective for oral health. The deliberate clinical application of such beneficial bacteria is known as probiotic therapy. The stimulation of such already present beneficial bacteria is known as prebiotic therapy. This lecture will introduce the concept of probiotics and prebiotics for oral health. It will clarify the rationale behind these therapies, exemplify some modes of action of probiotics and at the end elucidate their clinical effects in periodontal therapy.

## IADR-SEA speakers

### KS9, Professor Shinya Murakami



**Current Position:** Professor and Chair in Department of Periodontology, Osaka University Graduate School of Dentistry and Director of Osaka University Dental Hospital.

**Curriculum Vitae:** Professor Shinya Murakami is Professor and Chair in the Department of Periodontology, Osaka University Graduate School of Dentistry and Director of Osaka University Dental Hospital. Dr. Shinya is a current President of Japanese Society of Periodontology and Director of Japanese Society of Conservative Dentistry. He is a former president of Periodontal Research Group of the IADR: Former president (2012-2013) and a former president of Japanese Division of the IADR (2011-2012). He received several scientific awards including IADR/PRG: Anthony Rizzo Periodontal Research Award (1988), AAP: R. Earl Robinson Periodontal Regeneration Award (2009), IADR/AADR: William J. Gies Award (2012), IADR: Distinguished Scientist Award for Basic Research in Periodontal Disease (2013), IADR/PRG: Award in Regenerative Periodontal Medicine (2018), and AAP honorary membership Award (2019). He serves as an Editor-in-Chief of the J Periodont Res and a member of editorial advisory board of J. Periodontol. And J. Clin. Periodontol.

**Program:** November 27<sup>th</sup>, 2020, 10.15-11.45 (SYMPOSIUM III - Material research in dentistry)

**Title:** New Era of Periodontal Tissue Engineering

## IADR-SEA speakers

### KS10, Associate Professor Oranart Matangkasombut



**Current Position:** Department of Microbiology and Chairperson of Research Unit on Oral Microbiology and Immunology at the Faculty of Dentistry, Chulalongkorn University

**Curriculum Vitae:**

- Associate Professor in Department of Microbiology and Chairperson of Research Unit on Oral Microbiology and Immunology at the Faculty of Dentistry, Chulalongkorn University
- Researcher at Laboratory of Biotechnology, Chulabhorn Research Institute
- PhD (Biological Sciences in Dental Medicine, Harvard University)
- Harvard School of Dental Medicine Dean's scholar award for postdoctoral fellowship at the Whitehead Institute for Biomedical Research
- Fellow of the Royal College of Dental Surgeons of Thailand (Dental Public Health)
- Research interests: oral microbiology, biofilm, Candida, antimicrobial agents for dental applications, chitosan, bacterial toxins, DNA repair, yeast
- Publications: 27 international publications in Scopus

**Program:** November 27<sup>th</sup>, 2020, 10.15-11.45 (SYMPOSIUM III - Material research in dentistry)

**Title:** Exploring Novel Antifungal Strategies for Applications in Dentistry

**Abstract:** Fungal infections, especially that caused by Candida species, are prevalent and systemic infections could be life-threatening in immunocompromised patients. Furthermore, antifungal resistance to current antifungal drugs are increasing worldwide; thus, novel antifungal strategies are in need. Our research explores two promising avenues, ie. the use of chitosan, a natural product with high biocompatibility, and the potential use of DNA repair pathway required for DNA-protein crosslink (DPC) repair as a novel drug target. We showed that certain chitosan derivatives are effective against common oral Candida species and could be used in many dental applications. We employed a chemogenomic approach in the budding yeast *Saccharomyces cerevisiae* to investigate its mechanisms. The results suggest that chitosan may interfere with the functions of the cell membrane. For the repair pathway of DPC, an important DNA damage that could be induced by genotoxic stresses in the hosts, we recently showed that a Wss1 protease in *Candida albicans* is crucial for survival under these stresses. We propose that Wss1 may be a promising novel antifungal target. Further investigation is necessary to examine the role of Wss1 on *Candida* virulence in the hosts.

## KS11, Assistant Professor Joao Ferreira



**Current Position:** Researcher affiliated with Chulalongkorn University and National University of Singapore (on a pro-bono basis).

**Curriculum Vitae:** Dr. Ferreira is a dental clinician and researcher affiliated with Chulalongkorn University and National University of Singapore (on a pro-bono basis). He received his DDS from Portugal in 2001. He then spent 10 years in the USA for clinical and research training in the fields of Orofacial Pain, TMD and Craniofacial Regeneration at the University of Minnesota and UNC-Chapel Hill Schools of Dentistry to complete a residency, Master and PhD programs. While in USA, he spent 3 years at NIDCR/NIH for a postdoctoral fellowship at Dr. Matt Hoffman's laboratory (current NIDCR Scientific Director) to understand the developmental biology of the salivary gland and gene editing approaches for xerostomia treatment; after which, he started his educational and research work in academia in 2014 focusing on bioprinting the salivary gland at the National University of Singapore. In 2018, he moved to Chulalongkorn University Faculty of Dentistry to be the leader of the Exocrine Gland Biology and Regeneration research group at Chulalongkorn University (CU-EGBR) together with Drs. Thanaphum Osathanon, Risa Chaisuparat, Supansa Yodmuang and Nuttha Klincumhom. This is a STAR research group aiming to advance the understanding and treatment of ageing-related disorders that affect salivary glands and other exocrine glands in humans and animals. This group is composed of a multidisciplinary research team based on the One Health concept with expertise in stem cell and developmental biology, pathology, dentistry, veterinary sciences, biomedical engineering and bioprinting. This diverse expertise allows our group to develop sustainable biotechnology platforms of in vitro mini-organs (organoids / organs-on-chips) for drug discovery and to unveil disease mechanisms. The creation of such platforms will also enable researchers to follow the 3Rs principles of Animal Welfare (Replacement, Reduction and Refinement). Our ultimate goal is to improve the understanding and treatment of oral dryness and dry eyes. Dr. Ferreira has received several research awards, including the IADR Wrigley Salivary Research Award for Dental Scientist (2014) and other academic awards from: NUS Office of the Vice-President for Global Relations (2015), the Freedland Advanced Dental Education Fellowship Award and other Research Awards at UNC (2010-2011), the University of Washington (2011), the Karolinska Institute and the University of Minnesota (2007). He is the recipient of more than 10 research grants from the USA, Portuguese Government, Singapore Government, National University of Singapore, Chulalongkorn University and most recently the National Research Council of Thailand. These grants have generated publications in journals such as Biomaterials, Stem Cells, Tissue Engineering, Molecular Therapy, Journal of Dental Research, among others.

**Program:** November 27<sup>th</sup>, 2020, 10.15-11.45 (SYMPOSIUM III - Material research in dentistry)

**Title:** Bioprinting Salivary Gland Organoids: fact or fiction?

**Abstract:** Salivary gland hypofunction is commonly diagnosed in head and neck cancer patients due to salivary gland (SG) epithelial injury in the acinar secretory compartment after radiotherapy. Regenerative medicine has fetched the opportunity to replace or regenerate the SG epithelia and restore its secretory function through facilitating the neuro-epithelial communication. Early adult stem cell transplantation strategies in rodents have recently shown to improve clinical outcomes in radiotherapy-induced xerostomia in Phase 1/2 human trials. Mesenchymal stem cells from adipose tissue are the most promising, although the ones from the labial mucosa, bone marrow, or dental pulp have an attractive therapeutic value after successful findings in ex vivo and in vivo mouse models of SG injury. Emerging approaches using cell-free therapy with cell "extracts", "soups" or secretome components also exhibit favorable outcomes in the same rodent models. When compared to cell-based approaches, extracellular vesicles (EV) from the secretome (i.e., exosomes) can be easily extracted, quantified, and are more stable for long-term storage and use in SG tissue engineering. Additive manufacturing and three-dimensional bioprinting or magnetic bioassembly have an important role on generating mini-organs or organoids for cell transplantation to ameliorate SG injury. In 2017, our lab has generated for the first time bio-printed innervated organoids from human dental pulp stem cells with neural and epithelial functional properties. Moreover, organoids can secrete EV, which may have a therapeutic potential worth to explore in future studies. In this talk, we will describe the technological advancements in 3D bioprinting for the biofabrication of functional innervated SG organoids and challenges of these different cell-based and cell-free EV strategies in SG tissue engineering and regeneration.

# SEAADE 2020 Presentation Schedule

**Tuesday, November 24<sup>th</sup>, 2020**

**12:00 - 13:30**

**Competition Session 1**

**Virtual Room 1**

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| Siti Nur Asfarina Khairul Nizam | SEA17               | Influence of Multiple Factors on Development of Burnout Syndrome among Clinical Dental Students      | 61          |
| Lisa Amir                       | SEA27               | Evaluation of Full Distance Learning during COVID-19 Pandemic in the Undergraduate Dentistry Program | 69          |
| Gabriel Lee                     | SEA13               | Is the pedagogy of caries risk assessment still appropriate for the millennial dental student?       | 57          |
| Indriasti Indah Wardhany        | SEA37               | Identifying diagnostic error using DEER Taxonomy in Indonesian dental student                        | 79          |
| Melissa Adiatman                | SEA38               | Modifications in Community-Based Dental Education (CBDE) for Dental Students during Covid19          | 80          |

**Tuesday, November 24<sup>th</sup>, 2020**

**14:00 - 15:30**

**Competition Session 2**

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| Wita Anggraini         | SEA31               | Innovation of Online Anatomy Practicum Class during the COVID-19 Pandemic        | 73          |
| Rosalina Tjandrawinata | SEA32               | Online dental wax carving teaching, A challenge in COVID19 pandemic era          | 74          |
| Yusra Y                | SEA36               | Comparison of Student's Module Score Before and During COVID-19 Pandemic         | 78          |
| Supitcha Talungchit    | SEA35               | Covid-19 and Dental Educational Reform at Prince of Songkla University, Thailand | 77          |

**Tuesday, November 24<sup>th</sup>, 2020**

**14:00 - 15:30**

**Competition Session 3**

**Virtual Room 2**

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| Swarna Yerebairapura Math | SEA15               | Effect of various e-learning tools for the interpretation of Dental Panoramic Tomography            | 59          |
| Charlene Enhui Goh        | SEA24               | E-learning in the time of COVID-19 and its future impact: Perspectives of dental educators          | 66          |
| Rahmi Amtha               | SEA34               | The Imaginary Virtual Case as One of Solution for Oral Medicine Competency during Pandemic Covid-19 | 76          |
| Anjalee Vacharaksa        | SEA04               | The Student-centered approach for Teaching Research Methodology                                     | 48          |

# SEAADE 2020 Presentation Schedule

**Wednesday, November 25<sup>th</sup>, 2020**

**10:30 – 12:00**

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| Liang Lin Seow        | SEA23        | Online Instructional Video for Skills Acquisition and Self-directed Learning-Tell How to Show How | 65   |
| Sylvia Western J      | SEA26        | Game based Interactive case studies in learning endodontic diagnostic skills - A case study       | 68   |
| Niekla Survia Andesta | SEA21        | Developing an electronic clinical progress monitoring system for undergraduate dental students    | 64   |
| Nishyantini Ramesh    | SEA08        | Evidence - based dentistry: A Wikipedia perspective   | 52   |
| Junhel Dalanon        | SEA06        | Increased Dental Students' Acceptance of a Sculpting Software Using a Pen Mouse During COVID-19   | 50   |

**Wednesday, November 25<sup>th</sup>, 2020**

**13:00 – 14:30**

**Competition Session 5  
Virtual Room 1**

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| Priyadarshini HR   | SEA19        | Development of an online assessment in dental education- A New normal Experience!!                  | 63   |
| Aida N. Abd Rahman | SEA25        | The effect of grading scheme determined by a different standard setting method in dental assessment | 67   |
| Naraiy Mekkapruet  | SEA10        | Practice on MOOG Simodont® dental simulator improve psychomotor skills for dental students          | 54   |

**Wednesday, November 25<sup>th</sup>, 2020**

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Virtual Room 2**

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| Yuniardini Septorini Wimardhani | SEA28        | Stigma: Needs to Revisit HIV Education for Dentistry Student?                                      | 70   |
| Howis Josephine                 | SEA33        | The Correlation between dental environment and perceived stress scale during COVID-19 pandemic     | 75   |
| Jacklyn Ng Zhi Ling             | SEA09        | Clinical Audit Cycle: A Vital Tool in Dental Education   | 53   |
| Avita Rath                      | SEA12        | Evidence Based Dentistry-Knowledge, Practice, Attitude, Confidence among dental students           | 56   |
| Syahirah Mohd Zol               | SEA14        | The Impact of Clinical Teacher: The Dental Students' Perception                                    | 58   |
| Preena Sidhu                    | SEA16        | Current and Future Teaching of Direct Posterior Composites: A Survey of Dental Schools in Malaysia | 60   |
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| Sivakumar Arunachalam           | SEA18        | Curriculum Crosswalk of the Entrustable Professional Activities for Dental Graduates               | 62   |

# IADR-SEA 2020 Presentation Schedule

Thursday, November 26<sup>th</sup>, 2020

14:30 - 15:00

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| Sasakul, Siriporn          | P002         | Number of teeth and quality of life in older people  | 83   |
| Ka Chai Leung              | P003         | Dental Practices in Hong Kong Under the Outbreak of COVID-19   | 84   |
| Rasool, Tayyaba            | P004         | Knowledge Regarding Management of Tooth Avulsion among Dental-students in Karachi  | 85   |
| Barazanchi, Abdullah       | P005         | Patient Satisfaction For Complete Dentures Delivered By Undergraduate Dental Students  | 86   |
| Leong, Amanda              | P006         | Perceived sources of stress among Asian Oral Health Therapy students.  | 87   |
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| Watanabe, Masateru         | P009         | Remaining Tooth Numbers and Falls in the Community-dwelling Japanese Elderly   | 90   |
| Karawekpanyawong, Raksanan | P010         | Oral Health and Nutritional Intake in the 90-year-old Elderly  | 91   |
| Namano, Sahaprom           | P011         | A comparison of OIDP and PDA-T for evaluate complete denture treatment.  | 92   |
| Sultan, Sherif             | P012         | Effect of cement types and restoration surface treatments on the retention of hybrid ceramic molar endocrown: an invitro study | 93   |
| Tsai, Fu-Chuan             | P013         | Occlusal surface accuracy of complete dentures fabricated with CAD/CAM technology  | 94   |
| Vandana Daga               | P061         | Minimally Invasive Surgical Management of Multiple Gingival Recession Defects: A Case Study                                    | 141  |
| Cheah Chooi Kei            | P062         | Cone Beam Computed Tomographic Assessment of C-shaped Canal in Malaysian Chinese Mandibular Molars                             | 142  |

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Thursday, November 26<sup>th</sup>, 2020

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| Silkosessak, Onanong       | P015         | CBCT Analysis of Greater Palatine Canal in Cleft Patients  | 96   |
| Poursattar Bejehmir, Arash | P016         | Does Maxillary Expansion Treat Nocturnal Enuresis in Children? A Systematic Review   | 97   |
| Dinh, Thao                 | P017         | Effectiveness of Presurgical Nasoalveolar Molding Appliance among Oral Clefts Infants  | 98   |
| Poursattar Bejehmir, Arash | P018         | Vertical or Horizontal Placement of TAD May Preserve Bone in Tooth Agenesis Area: A Radiographic and Histomorphometric Lesson from Animal and Human Studies: A Systematic Review Article | 99   |
| Poursattar Bejehmir, Arash | P019         | Accuracy of CBCT Volumetric and Linear Measurement of Cleft-Simulated Lesions in Different Anteroposterior Head Positions (Pitch)  | 100  |
| Chen, Christine            | P020         | Temporomandibular Disorders In Prospective Orthodontic Patients  | 101  |
| Pechteewang, Sawanya       | P021         | Microhardness of light- and dual-cured resin cements after light activation through various translucencies of monolithic zirconia  | 102  |
| Islam, Md Refat Readul     | P022         | Water Sorption and Solubility of an Experimental Bonding Resin   | 103  |
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| Guo, Ruoyan                | P024         | Effects of Two Types of Denture adhesive on Oral Function  | 105  |
| Aung, San San May Phy      | P025         | Interfacial analysis of dentin-resin cement after acid-base challenge  | 106  |
| Motiwala, Momina           | P027         | Comparison of two different methods in the removal of oil based calcium hydroxide from root canal system: A triple blinded randomized clinical trial                                     | 107  |
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IADR-SEA Unilever Hatton Divisional Award-Senior Category

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| Harirugsakul, Punkanit     | P029         | Oral Status is Associated with Eating Difficulty in Thai Elderly  | 109  |
| Kornsuthisopon, Chatvadee  | P030         | Non-canonical Wnt signaling participates in Jagged1-induced odonto/osteogenic differentiation in hDPs   | 110  |
| Sulistiyani, Erni          | P031         | Epigallocatechin Gallate Protection in Salivary Gland Radiation Injury and Homeostasis  | 111  |
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| Nipakasem, Sirawit         | P033         | A comparison of microRNA profiles between rat incisors and molars   | 113  |
| Wang, Chuan                | P034         | Bismuth plus Metronidazole Synergistically Dampens Porphyromonas gingivalis Persisters Formation  | 114  |
| Zhang, Jingyang            | P035         | SDF versus PVP-I and NaF in arresting root caries   | 115  |
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| Pathak, Bandana            | P038         | Dental Caries and Oral Hygiene Status among Special Children in Nepal   | 118  |
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# IADR-SEA 2020 Presentation Schedule

**Thursday, November 26<sup>th</sup>, 2020**

**15:15 - 17:00**

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Virtual Room 1

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| Santoso, Cornelia Melinda Adi | S016         | Association between Parental Education and Oral Hygiene among Indonesian children  | 161  |
| Natu, Vaishali Prakash        | S017         | Presence of Temporomandibular Disorders: Outcome comparisons of three screening instruments  | 162  |
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| Pisarnturakit, Pagaporn       | S019         | Effectiveness of rinsing water and chewing gum on restoring pH of saliva after drinking the drinking yogurt  | 164  |
| Hsu, Chih-Kai                 | S020         | Identifying Three-Dimensional Facial Fluctuating Asymmetry in Normal Pediatric Individuals: A Panel Assessment Outcome Study of Clinicians and Observers | 165  |

# IADR-SEA 2020 Presentation Schedule

**Thursday, November 26<sup>th</sup>, 2020**

**15:15 - 17:00**

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| Nguyen, Hai             | S007         | Application of deep learning technology to support the diagnosis of gingivitis  | 153  |
| Navankasattusas, Matcha | S008         | Remineralizing agents differentially affect amelogenesis imperfecta enamel microhardness  | 154  |
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# IADR-SEA 2020 Presentation Schedule

**Friday, November 27<sup>th</sup>, 2020**

**13:00 - 15:00**

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| Chen, Kitty                     | S028         | Caries Arrest with Silver Nitrate and Sodium Fluoride Containing fTCP                 | 173  |
| Duangthip, Duangporn            | S029         | Evaluation of school-based oral health program using silver diamine fluoride          | 174  |

# IADR-SEA 2020 Presentation Schedule

**Friday, November 27<sup>th</sup>, 2020**

**13:00 - 15:00**

Oral Session 3  
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| Inchudech, Klaijan  | S037         | Acemannan modulates resin-modified glass-ionomer cement physical properties, fluoride-release and biocompatibility | 182  |



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คณะทันตแพทยศาสตร์  
FACULTY OF DENTISTRY  
Chulalongkorn University

SEA32

## Online dental wax carving teaching, A challenge in COVID19 pandemic era

Rosalina Tjandrawinata, Deviyanti Pratiwi,  
Dewi Liliany Margareta, Octarina

Faculty of Dentistry Trisakti University

**Objective:** The purpose of this study is to find the results of theory of dental anatomy and practice of dental wax carving through on line education method during covid19 pandemic era.

**Methods:** First grade dentistry students (156) were taught to understand tooth anatomical form, then they were guided to carve tooth form on the wax block. Direct supervision was done through photographs and videos sent through whats app application. The success rate in understanding tooth theory and carving is by achieving a minimum mark of C.

**Results:** The percentage of theoretical scores obtained are A 36%, B 41%, C 13%, Failure 10%; while practical scores are A 7%, B 51%, C 25%, Failure 17%. Paired t test showed significant difference ( $p < 0.05$ ) between theory and practical result, while Pearson correlation showed weak correlation between both result ( $r^2 = 0.43$ ).

**Conclusion:** In the long-distance training of dental wax carving in accordance with guidance and good supervision has demonstrated good result.

# SEAADE-IADR 2020

## Guidelines for speakers & presenters

### Key dates and deadlines

|                       |  |
|-----------------------|--|
| <b>6 November</b>     | Submission deadline for video file   |
| <b>16-20 November</b> | Online system testing & event dry run <b><i>*All presenters must participate in the dry run*</i></b> |
| <b>24-25 November</b> | SEAADE (Live Q&A session, immediately after the recorded video presentation)                         |
| <b>26-27 November</b> | IADR (Live Q&A session, immediately after the recorded video presentation)                           |

### [For Speakers & Oral Presenters] How to submit the presentation in a video file

#### Deadline: 6 November

For Oral Presentation, each session will start with a playback of the recorded presentation video (submitted beforehand) and then follow by a live Q&A session. Hence, on the event day the presenters are required to stand by on an online platform during the scheduled time to answer any questions throughout the session. The presenters will be accommodated by the staff in the online platform and will be notified before going live for the Q&A session. More instructions and details will be provided during the dry run.

To submit the presentation PDF/ video please follow the steps:

1) Record the presentation and save two files with the below requirements

a. Format (two files)

i. **PDF** – your presentation file in PDF format

: This file will be available throughout SEAADE2020 meeting. There will be a chat box underneath for Q&A. Please check it regularly to attend questions from viewers)

ii. **MP4** - ecommended resolution **1080p (1080x1920)**

: This file will be run in our live sessions.

b. Name the files in the format

***“SEA(presentation number)\_Name\_Lastname”***

c. **8-10 minutes** long video for Oral presentation

*(Note: The presentation record can be done in any programs and methods preferred, however, directions for recording via Microsoft PowerPoint is provided below)*



2) Upload the file using the **WeTransfer** (For any file larger than 2 GB, please contact [seaade2020@gmail.com](mailto:seaade2020@gmail.com) for a special instruction)

2.1. Open the link <https://wetransfer.com/> on the browser

2.2. Select the presentation file (PDF and MP4)

2.3 Fill in information

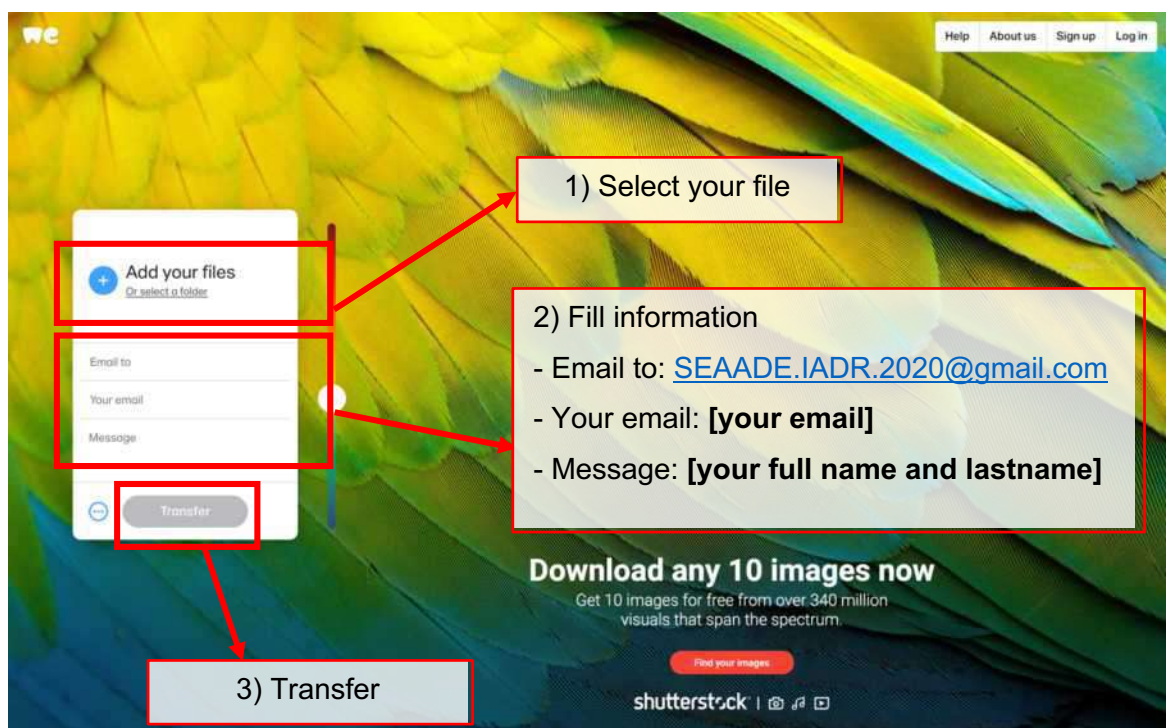
> Email to: **SEAADE.IADR.2020@gmail.com**

> Your email: **[Fill in your email]**

> Message: **[Your full name and lastname]**

2.4 Click **'Transfer'** (the system may send a code to your email for verification)

2.5 Wait for the file to download. **DO NOT** close the window until the upload is completed. Once the file is completely upload, a notification email will be sent to your email.



## [For ALL] Online system testing & event dry run

The week during 16-20 November, a dry run session will be conducted for all the speakers and presenters to help familiarize with the online platform and provide an opportunity to solve any technical issues prior to the meeting. To conduct a dry-run session, please follow the below steps (session duration - 15 mins):

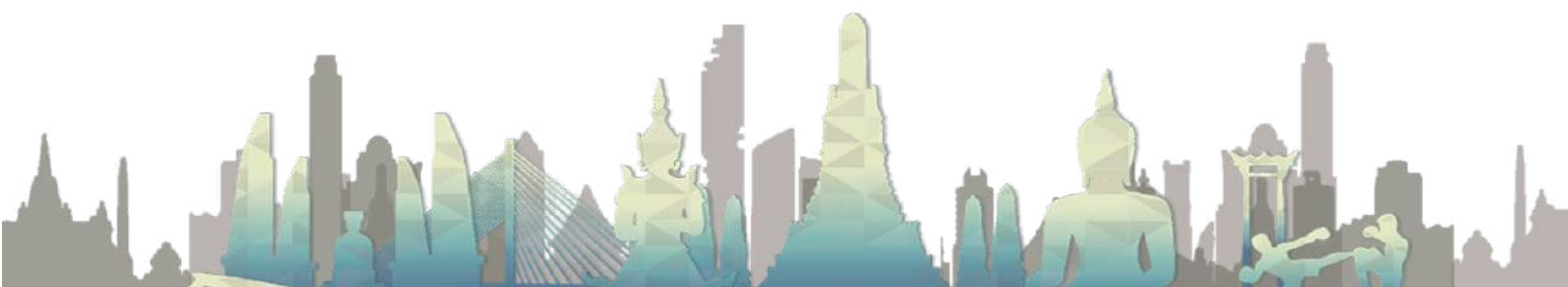
- 1) Open the link in your browser <https://calendly.com/tdpk/system-testing>
- 2) Select date > time > click '**Confirm**'
- 3) Fill in your information then click '**Schedule Event**'

***\*\*The access link for dry run will be sent to your email on 12-13 November along with further details and instructions\*\****

## [For ALL] System & equipment requirements

- Computer with internet access
- Webcam (Built-in or External)
- USB Microphone or headphone with built-in microphone
- Microsoft PowerPoint program

If you have a laptop or webcam, it most likely has a built-in microphone. However, we recommend using an external USB Microphone or headphone if possible, to increase a sound quality.



## **[Additional] How to record your presentation using PowerPoint**

In order to give a presentation at the conference, the presenters are required to create a video containing your slides with an accompanying narration. The video must possess:

- File format: .MP4
- Resolution: 1080p (1080x1920)

As mentioned earlier, the video can be created using any tools or methods you wish. However, using Microsoft PowerPoint might be easiest. Also, please note that the following instructions refer to the version of PowerPoint included in Microsoft 365. It may slightly differ if you use an older Microsoft version.

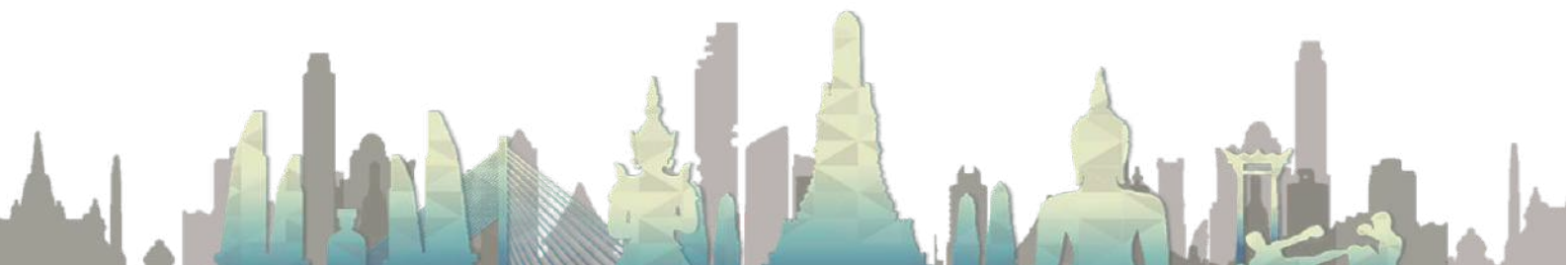
*(For other PowerPoint versions, please refer this link for more information <https://bit.ly/36nTk8y> )*

### **Steps to record your presentation using PowerPoint:**

- 1) Open your presentation in Microsoft PowerPoint
- 2) Click 'Slide Show' Tab > 'Record Slideshow'
- 3) Click 'Settings', and make sure your USB Microphone is selected
- 4) Click the camera icon to ensure your camera is turned off
- 5) Hit 'Record'

*PowerPoint will start recording your narration, slide timing, and any marks or highlights you make in real-time. All recordings are tied to each slide, so you don't need to record the entire presentation in one uninterrupted take. If you'd like to pause, start a slide over, or go back and make changes to any slide, you can always do so. Please note that PowerPoint won't record your voice during a slide transition, so if you have them in your presentation, just wait until they finish to begin speaking. Once you're happy with all your slides then proceed to save the file*

- 6) Click 'File' > 'Export' > 'Create a video' (Make sure Full HD 1080 and Use recorded timing and narrations are selected) > Click 'Create Video'
- 7) Choose a name and save location, and hit save (the saving may take several minutes depending on the length of your presentation)





# ONLINE DENTAL WAX CARVING TEACHING, A CHALLENGE IN COVID-19 PANDEMIC ERA



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Asst. Prof. Suchit Poolthong



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Sri Angky Soekanto, Universitas Indonesia



# **ONLINE DENTAL WAX CARVING TEACHING, A CHALLENGE IN COVID-19 PANDEMIC ERA**



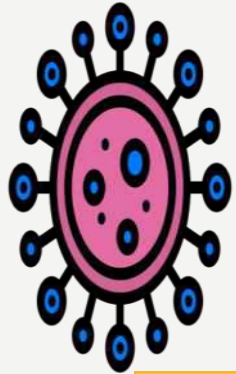
***ROSALINA TJANDRAWINATA, DEVIYANTI PRATIWI, DEWI LILIANY MARGARETTA, OCTARINA***

***DEPARTMENT OF DENTAL MATERIALS AND TECHNOLOGY, FACULTY OF DENTISTRY  
TRISAKTI UNIVERSITY,***

***JAKARTA, INDONESIA***



# BACKGROUND



Pandemic of Covid-19



All education agendas are changed to online form



# BACKGROUND

- One of the subjects in the faculty of dentistry is dental wax carving for first grade student in the second semester, who are not used to this online method.
- On the other side, the lecturer team of dental anatomy and dental wax carving are forced to accept this challenge.
- Dental wax carving education with online long distance learning system has to be facilitated with online support system and technology.



# OBJECTIVE

**To find the results of theory of dental anatomy and practice of dental wax carving through online education method during covid19 pandemic era.**



# METHODS

**To understand tooth anatomical form**

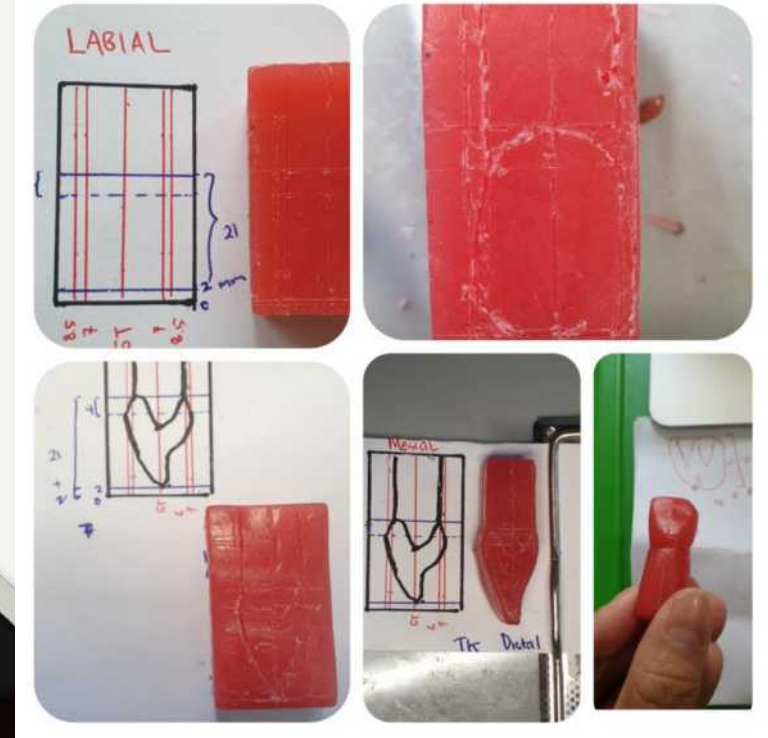


**To carve tooth on the wax block  
(direct supervision with video and photo by whatsapp application)**

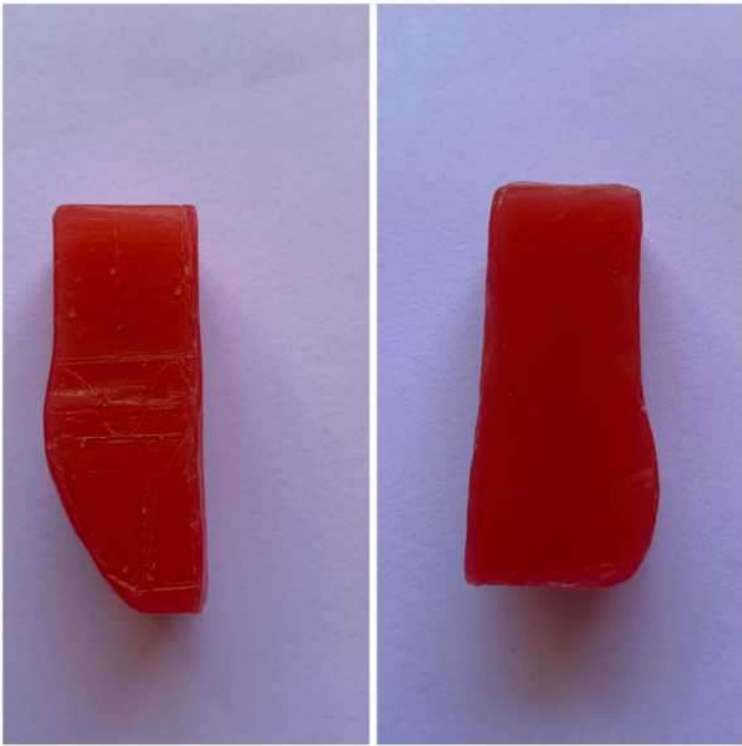
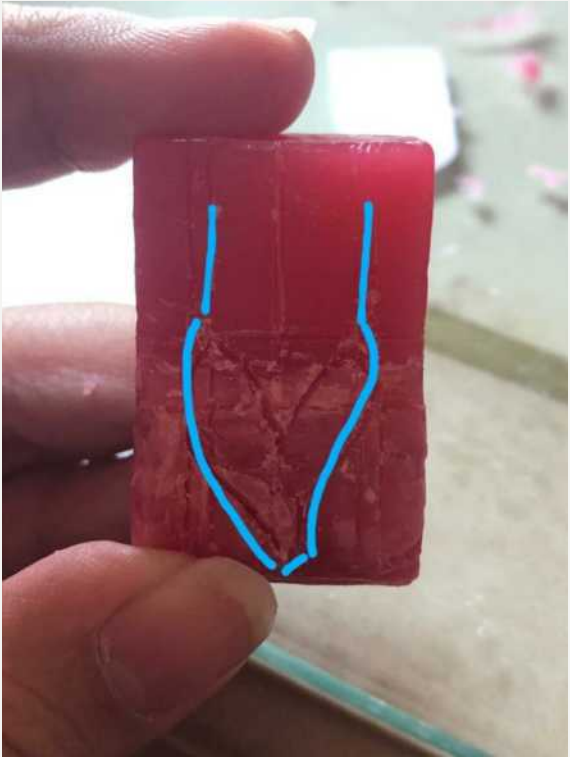
- Two weeks before starting the module, hand out were sent by e-mail, the instruments and materials for practicing dental wax carving were sent by mail package to the students.
- On the first step, students were taught to understand tooth anatomical form, position and terms of every part of tooth.
- Then the students were guided step by step to carve tooth form on the wax block (25x25x40mm).
- The success rate in understanding tooth theory and carving is by achieving a minimum mark of C (62).
- A comparison between the success of carving teeth and the level of understanding of dental anatomy theory was carried out



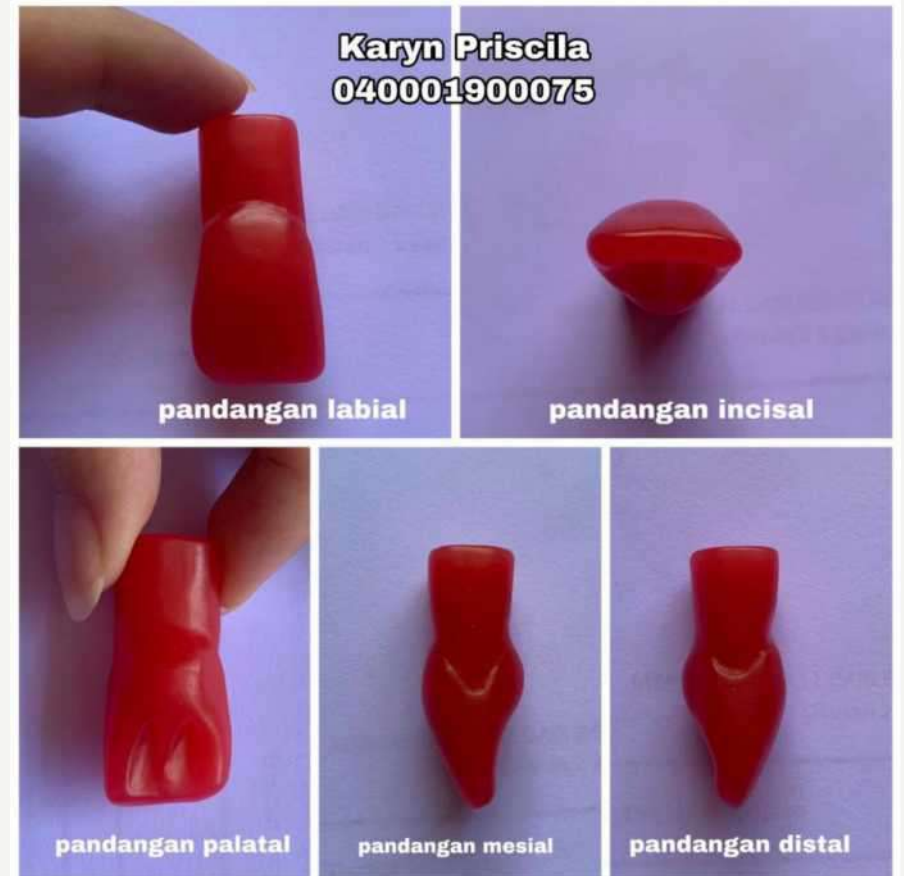
# TEACHING PROCESS



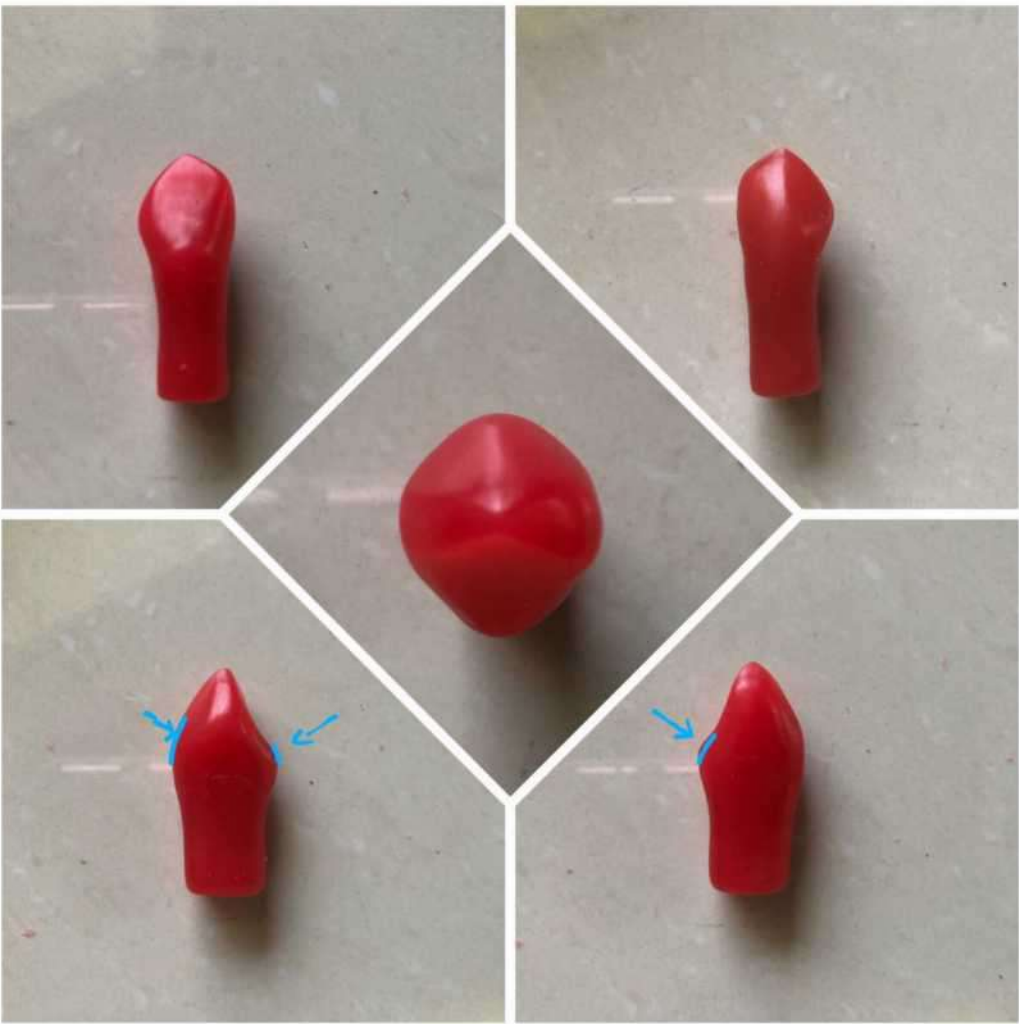
# INITIAL STEP



# UPPER INCISOR



# UPPER CANINE



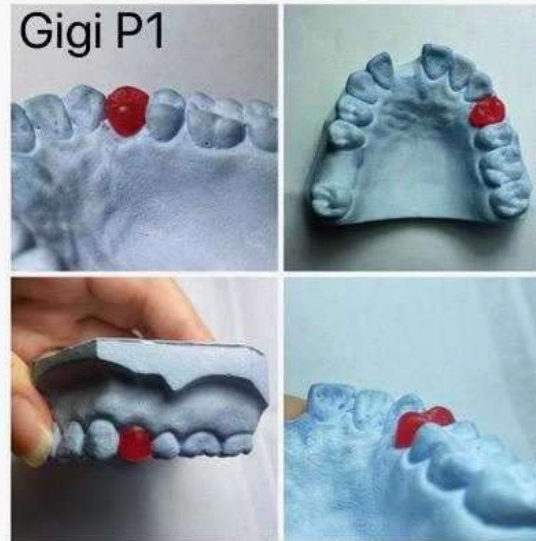
# CARVING ON MODELS

**Isabella Audy Tania**  
**040001900065**

Gigi M1



Gigi P1



Gigi I1

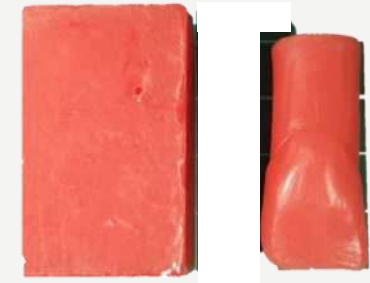


156 second  
semester  
students

## ASSESSMENTS

THEORY

CARVING  
SKILLS



50 dental anatomy questions  
through the google form  
application

- carving assessment process was carried out at each stage of tooth carving by making direct observations through pictures and videos sent to each supervisor.
- The final carving results were sent to the supervisor through an expedition to make an adjustment in the assessment of the student's ability to carve incisors, canines, premolars and molars.



# EXAMINATION



# RESULTS

The percentage of :

Theory scores obtained are A 36%, B 41%, C 13%, Failure 10%;

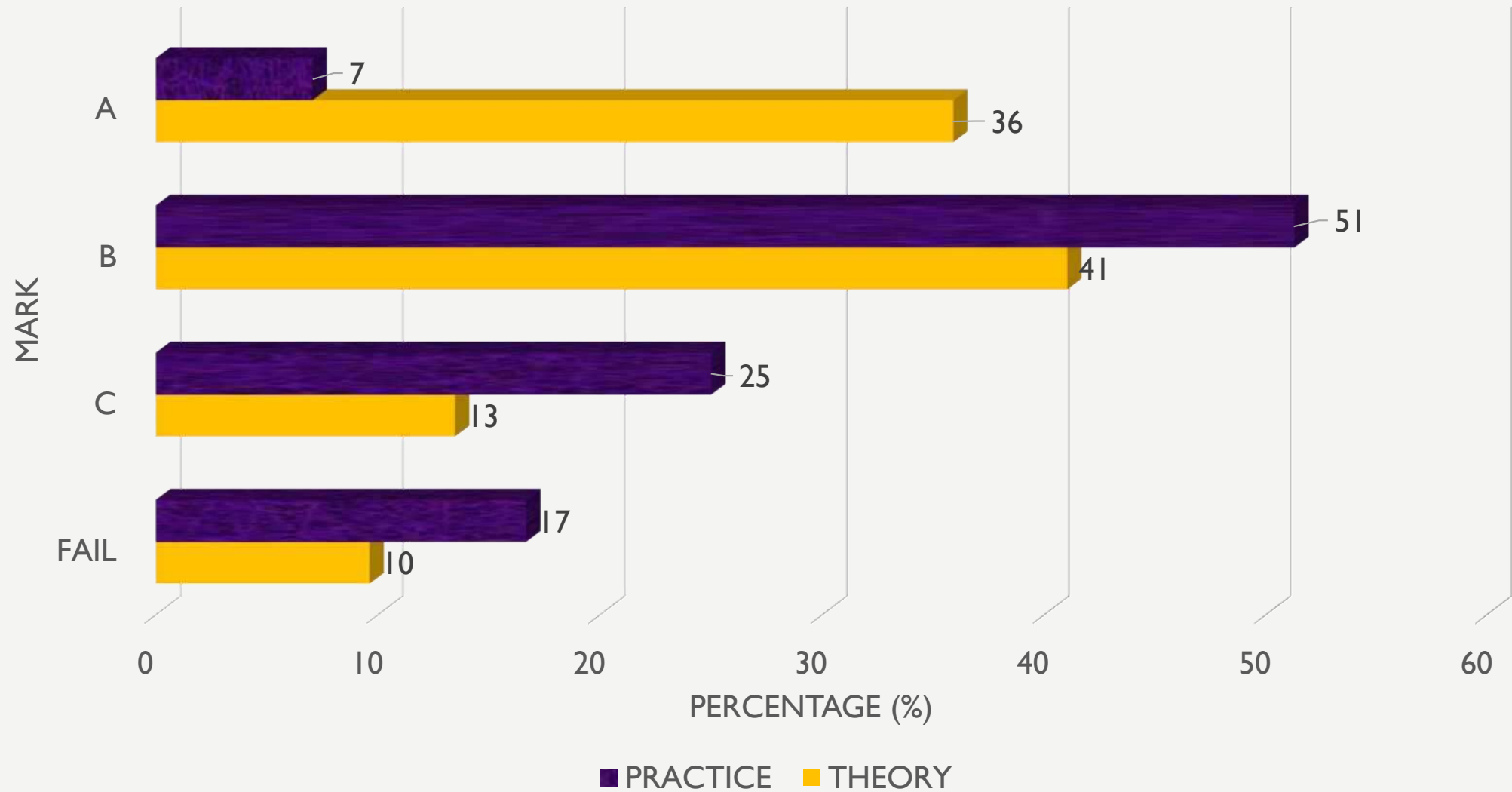
The practical scores are A 7%, B 51%, C 25%, Failure 17%.

Paired t test showed significant difference ( $p < 0.05$ ) between theory and practical result,

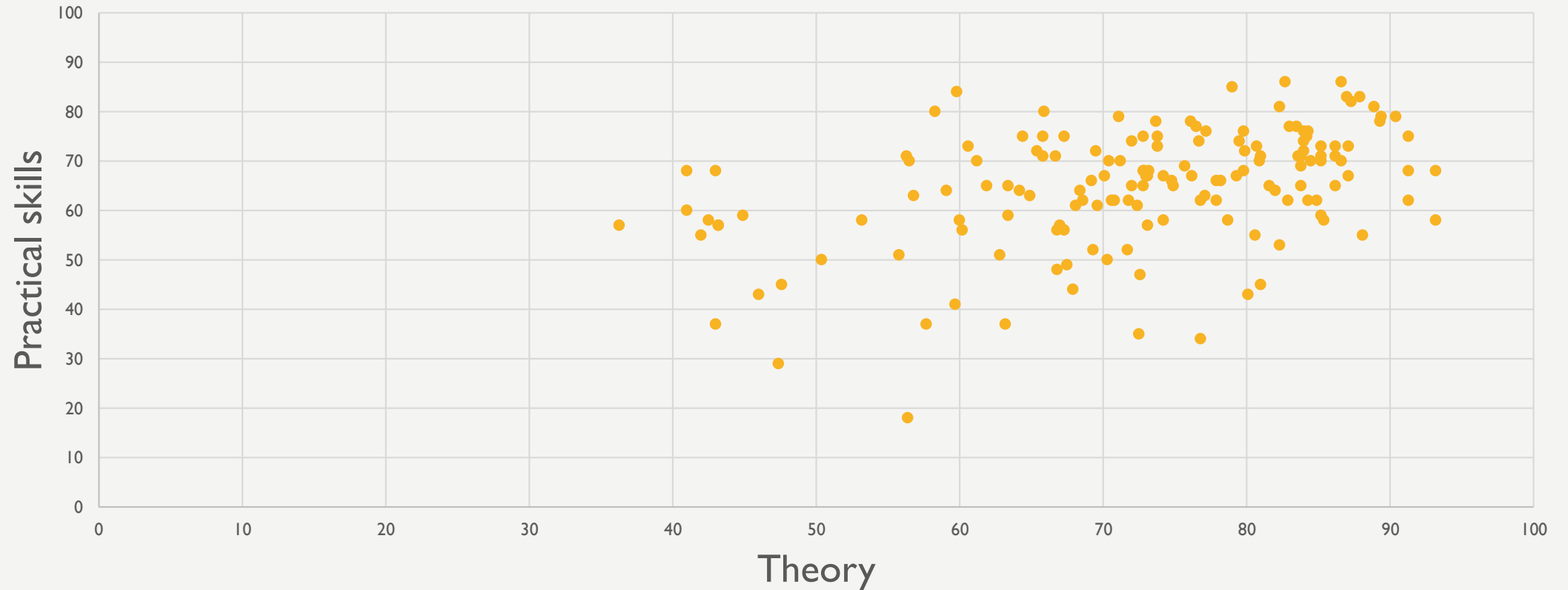
Pearson correlation showed weak correlation between both result ( $r = 0.43$ )



# COMPARISON OF DENTAL ANATOMY THEORY AND DENTAL WAX CARVING SKILLS



# CORRELATION OF DENTAL ANATOMY THEORY AND DENTAL WAX CARVING SKILLS



Pearson correlation:  $r = 0.43$ , (weak correlation), paired t-test significant difference ( $p < 0.05$ )



# CONCLUSION

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The skill to carve teeth according to a good anatomical shape and the right size is an ability that must be learned and trained.

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In the long distance carving process, an artistic talent cannot be used as a measure of success in carving teeth.

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A good understanding of dental anatomy accompanied by training in accordance with the directions given has demonstrated success of this method.



**THANK YOU**





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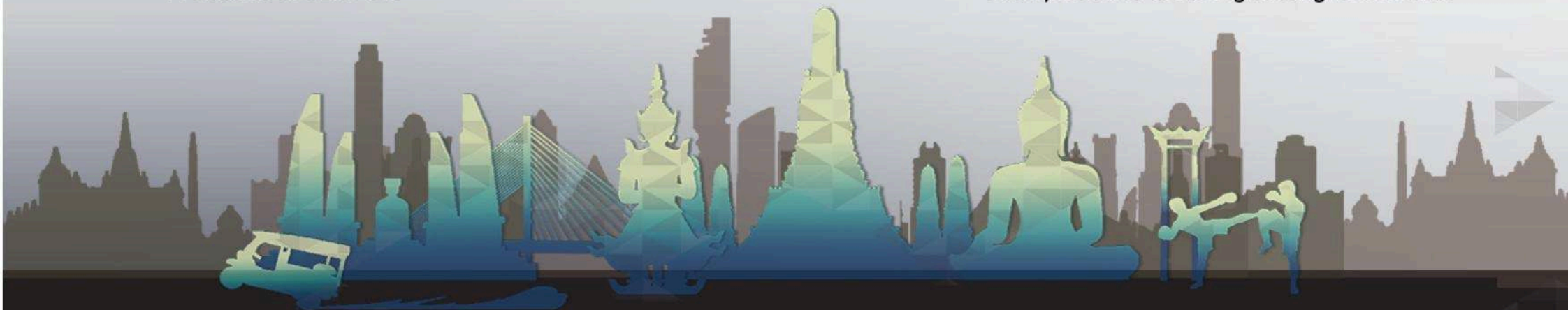
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*by* Rosalina Tjandrawinata 1

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### **Objective**

<sup>3</sup> The purpose of this study was to find the results of theory of dental anatomy and practice of dental wax carving through on line education method during covid19 pandemic era.

### **Methods:**

Two weeks before the module runs, instruments and materials for practicing dental wax carving were sent by mail package to the students. Hands out were sent by e-mail. The teaching materials in general were theory of dental anatomy, recognition of dental images and video of carving methods. At the early stages, students were taught an understanding of the anatomical shape of the teeth, the location and position of each part of the tooth as well as the comparison between each part of the tooth, then students are directed to draw a picture of tooth #11 on a paper and do the same thing on a wax block (<sup>2</sup> 25 mm x 25 mm x 40 mm). Step by step of carving were supervised directly through videos and photos. The schedule of learning was as follows:

- Lecture and discussion of dental anatomy theory was carried out with zoom meeting 4-6 hours every day for 1 week

- Practice skills was trained with zoom and WhatsApp application (WA) in a group of 20 students, 3-6 hours every day, Monday to Friday for 3 weeks, carving tooth #11 and 13 on wax block, carving tooth #11, #24 and #16 on gypsum model. Each step supervision was reported to the supervisor through photographs and videos with WhatsApp application. The supervisor gave color marks on the photo, where the student should make adjustment or repair the carving form.

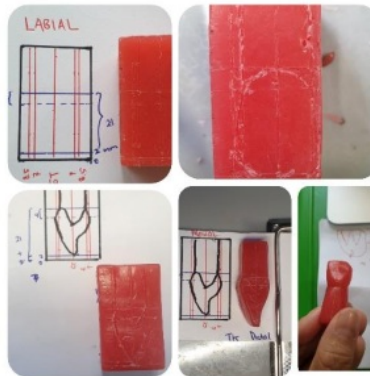


Figure1. Drawing guiding lines and tooth form on paper and wax block

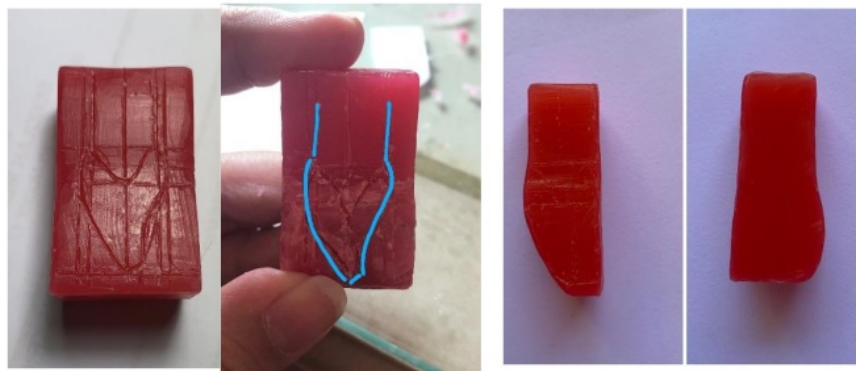


Figure2. Drawing guiding lines and tooth form on wax block, supervision for better contour and cut wax block

Assessments were carried out for theoretical and carving skills. The assessment of the theoretical ability was carried out in the form of 50 dental anatomy multiple choice questions through the google form application. Passing grade was C mark (62).

Carving examination, with similar passing grade, were done on wax blocks 25mm x 25mm x 40 mm and 15mm x 15mm x 15mm with different color. Wax block were mailed 3 days or 1 week before examination. The carving assessment process were carving tooth #11 on big wax block for 3 hours, and carving tooth #11 on gypsum model with small wax block, for 1 hour. Assessment were carried out at each stage by making direct observations through images and videos sent to each supervisor. The final carving results were sent in 2 hours after the end of examination to the supervisor through mail expedition to make adjustments for assessment of the student's ability to carve incisors, canines, premolars and molars. The receipt of package should be captured and sent with WA to proof time and simplify package tracing.

All the value of theory and practice of students were compared with paired t-test, to evaluate the correlation of theory and practice ability. The correlation between theory and practice skills was also analyzed with Pearson correlation

**Results:**

Below are some of the results of the students.



Figure 3. Final five surfaces of tooth #11

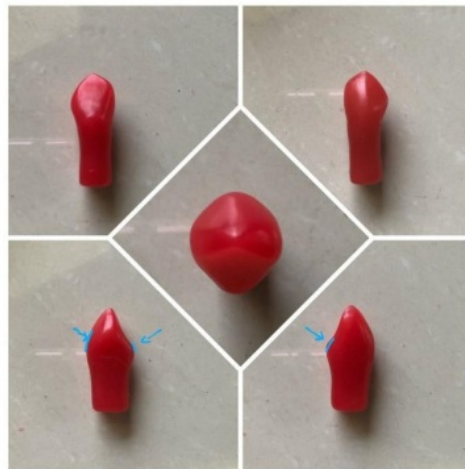


Figure 4. Final five surfaces of tooth #13



Figure 5. Final carving of tooth #11, #24 and #16 on gypsum model

Below are some of the results of the students' examination.



Figure 6. Examination of carving tooth #11



Figure 7. Examination of carving tooth #11 on gypsum model

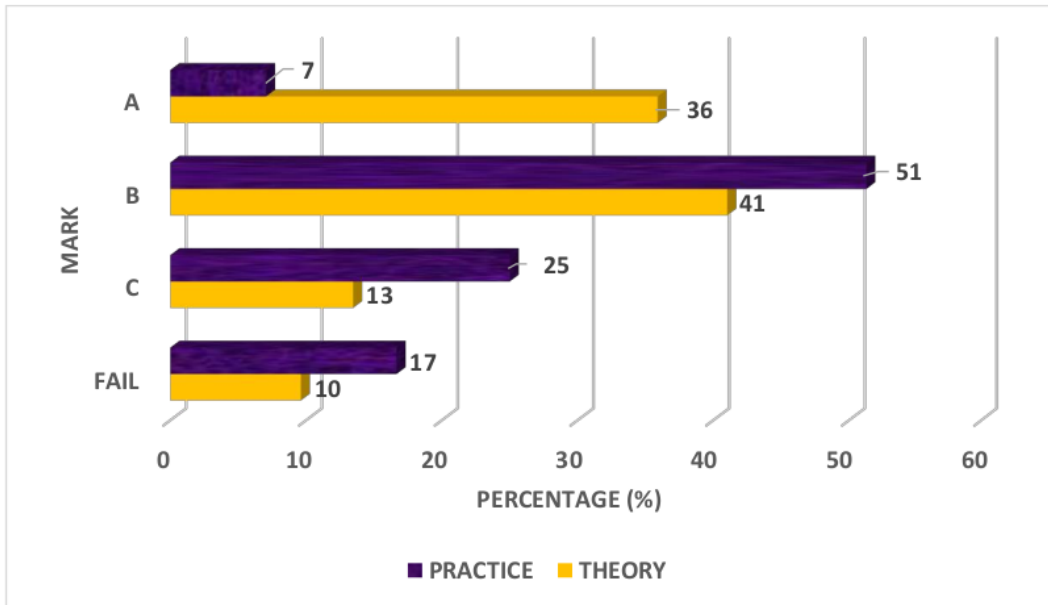


Figure 7. Comparison of dental anatomy theory and dental wax carving skills

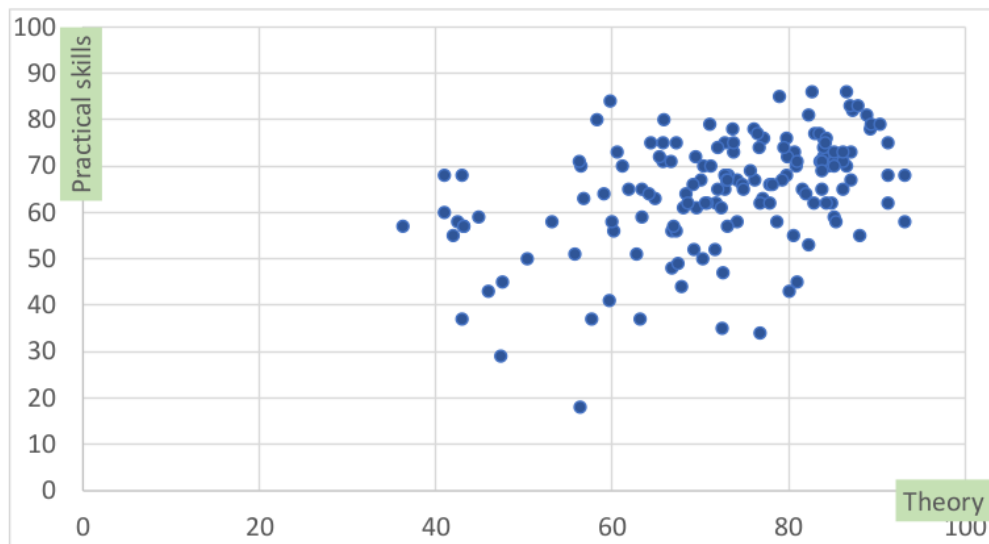


Figure 8. Correlation of dental anatomy theory and dental wax carving skills. Pearson correlation:  $r = 0.43$ , (weak correlation), pair t-test significant difference ( $p < 0.05$ )

## Discussion

Carving wax block with different color for student examination were mailed 3 days before examination, to prevent students from cheating. Since there are some difficulties to reach remote area, students who live outside Java island were mailed 1 week before examination.

Despite of difficulties in this online study, most of the students got B mark in theory and practice. In theory, 36% of students could get A mark, however only 7 % got A mark in practice. It was assumed that besides watching lecturer guidance video, the students could also watch youtube channel or another virtual video, which was easily found online, and easily followed.

In this study, there is only weak correlation (Pearson correlation,  $r=0.43$ ) between the result of theory of dental anatomy and dental wax carving practical marks. There is also significant difference of theory and practical results (pair t-test,  $p<0.05$ ) Some students show completely different result of theory and practical skills. A gifted art-creative talent person can easily create and carve the form. However, talent does not guarantee the final result. Potential Academic Test can predict the cumulative index value of the students.<sup>1</sup> However, it cannot differentiate the success of student either in theory or practical skills.<sup>1</sup> Actually motivation and hard work are important factors to drive students to study independently during long distance learning.<sup>1,2</sup>

In this study WhatsApp application is used as communication media and study group media. It has been reported that online learning using WhatsApp Group to be the most effective in and after the COVID-19 pandemic. WhatsApp is easy, simple, and doesn't require a large data credit. Through the WhatsApp Messenger platform, learning takes place optimally because students and lecturers can communicate and share PowerPoint files, Microsoft Word files, JPG files, Voice Notes, Videos, and other learning resource links.<sup>3</sup> This study also shows the effectiveness of WhatsApp dan Zoom despite of some limitation.

## Conclusion

The skill to carve teeth according to a good anatomical shape and the right size comparison is an ability that must be learned and trained. In the long-distance carving process, an artistic talent cannot be used as a measure of success in carving teeth. A good understanding of dental anatomy accompanied by training in accordance with the directions given has demonstrated success in this method.

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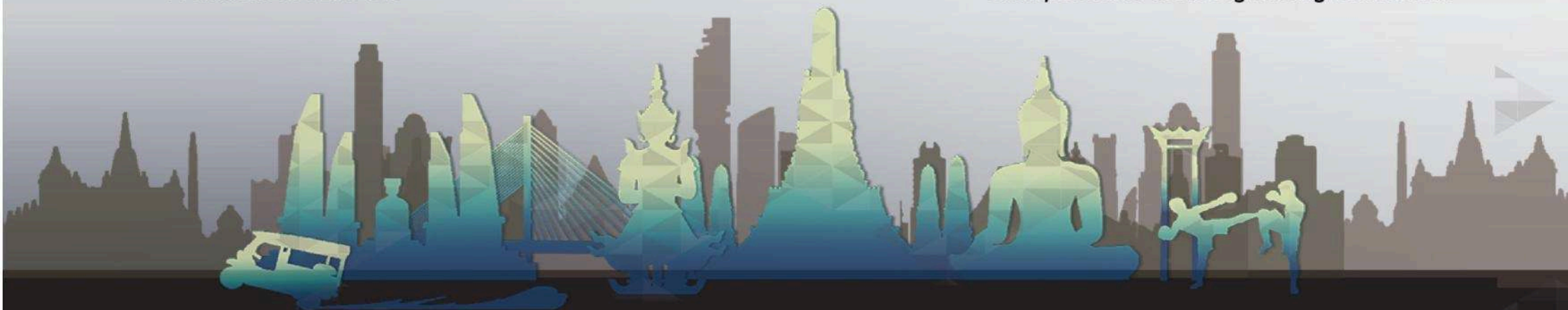
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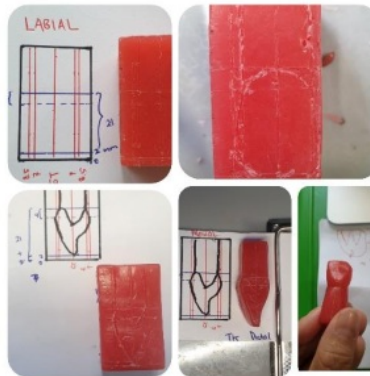


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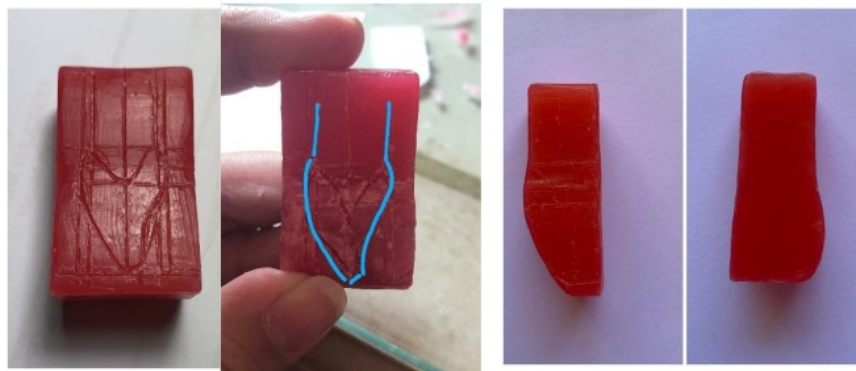


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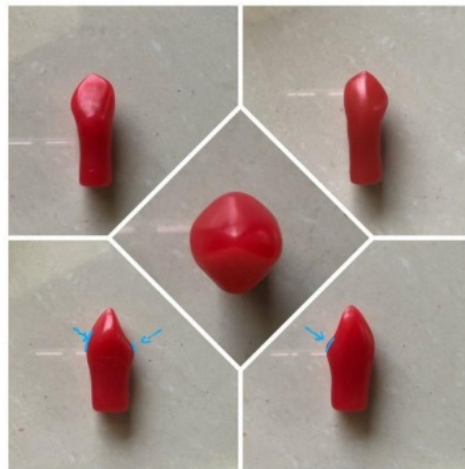


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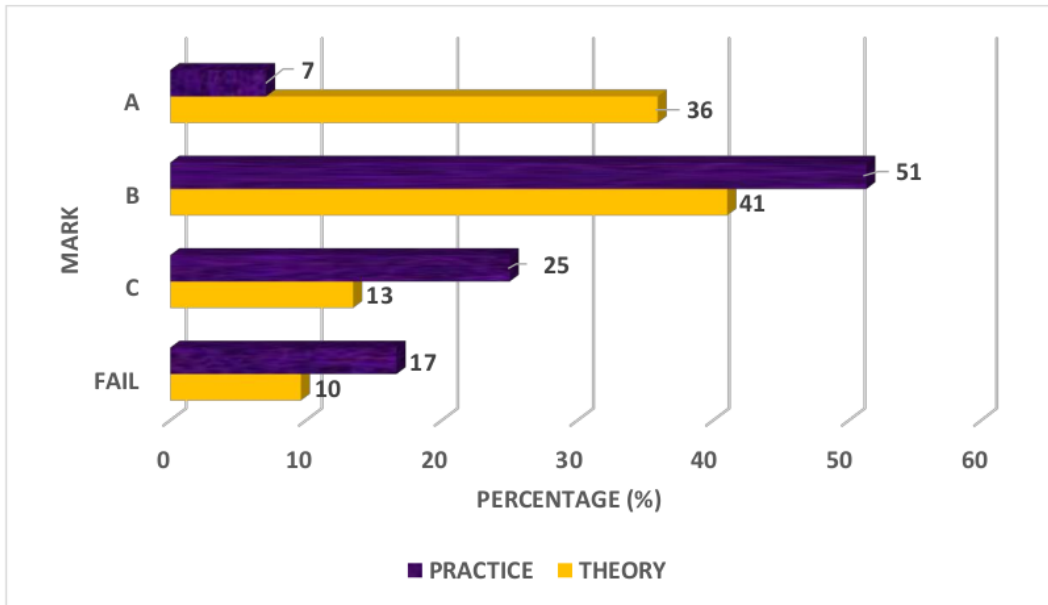


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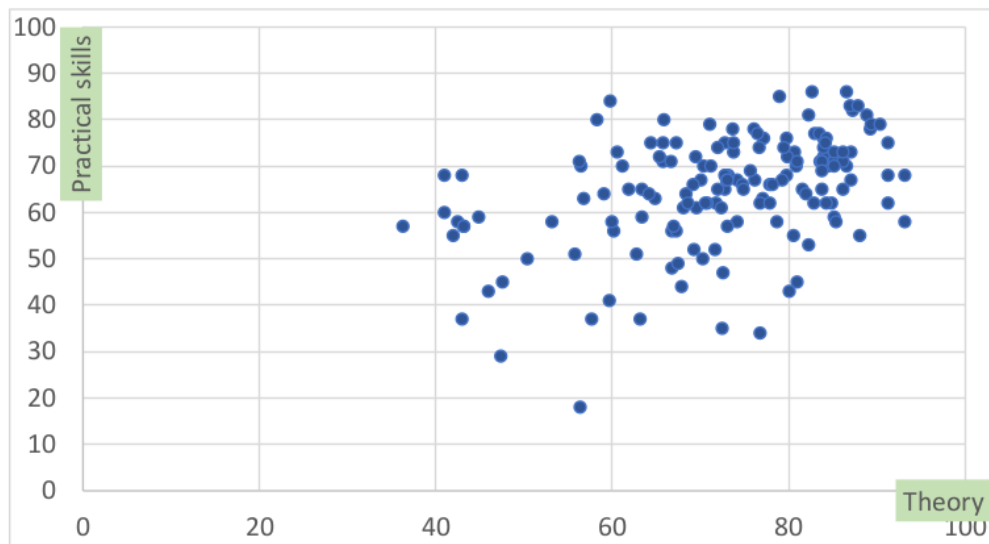


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