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# The 9<sup>th</sup> International Workshop on Clinical Research Methods in Oral Health February 19 – 23, 2024 Khon Kaen University, Khon Kaen, Thailand *Supported by the NIDCR/FIC, NIH, USA*

## Courses:

- Research Methods & Evidence-based Dentistry**
- Behavioral Research in Dentistry**
- Ethical Issues in Research**
- Biostatistics**
- Study Design Workshop**

## Who Should Attend:

The primary audience for this workshop is dentists seeking training in the basic methods that are needed for clinical, epidemiological, public health and behavioral oral health research.

## Faculties:

### University of Washington, USA

- Susan Coldwell, PhD
- Christy McKinney, PhD
- Ana Lucia Seminario, DDS, PhD

### Khon Kaen University, Thailand

- Kemporn Kitsahawong, DDS, MSc, PhD, FRCDS
- Poramaporn Klanrit, DDS, MSc, PhD
- Jarin Paphangkorakit, DDS, PhD, FRCDS
- Araya Pisek, DDS, FRCDS
- Waranuch Pitiphat, DDS, MPH, MS, ScD, FRCDS
- Teekayu Plangkoon Jorns, DDS, MSc, PhD, FRCDS
- Supatra Porasuphatana, PhD
- Patimaporn Pungchanchaikul, DDS, MClintDent, PhD
- Bandit Thinkhamrop, PhD
- Nawarat Wara-aswapati, DDS, DMSc, FRCDS

### Thammasat University, Thailand

- Matana Kettratad-Pruksapong, DDS, PhD, FRCDS
- Kritirat Kiatsirote, DDS, MSc, PhD
- Thanya Sitthisetapong, DDS, MSc, PhD
- Nattira Suksudaj, DDS, PhD

### Chulalongkorn University, Thailand

- Oranart Matangkasombut, DDS, PhD, FRCDS

## Venue:

“Khon Kaen” is one of the large major provinces in Northeastern Thailand. With the well-developed infrastructure and facilities, Khon Kaen has been promoted to be one of the major tourist cities, medical and education hub, commercial and political center of Northeastern Thailand. There are many interesting places in the area such as archaeological sites, amazing rock formations and beautiful temples with nice exterior paintings.



## Financial Support:

**Tuition and accommodation of the participants are fully supported** (travel cost not supported) by the **National Institute of Dental & Craniofacial Research (NIDCR) & Fogarty International Center (FIC), National Institutes of Health (NIH)**, under the training grant, “Clinical and Public Health Research Training in Oral Health for Southeast Asia (D43DE032294).”

## Course Format:

The training program consists of two online learning modules on Biostatistics and Ethical Issues in Research, and in-person workshop for five days. Participants are required to finish all online topics before attending the workshop and to attend all classes.

Courses	Topics covered
<b>Research Methods &amp; Evidence-based Dentistry</b> (Instructors: McKinney, Kettratad, Pitiphat and Seminario)	<ul style="list-style-type: none"><li>• Planning a Research Project</li><li>• Observational Studies</li><li>• Randomized Control Trial</li><li>• Conceptual models</li><li>• Systematic Search Strategy for Evidence-informed Practice</li><li>• Understanding Different Types of Systematic Review and How to Appraise Them</li><li>• Measures of Disease Frequency</li><li>• Biases and Errors in Research</li></ul>
<b>Biostatistics*</b> (Instructor: Thinkamrop)	<ul style="list-style-type: none"><li>• Overview of Statistics</li><li>• Statistical Inference- Confidence Intervals vs P-values</li><li>• Designing a Statistical Analysis Plan (SAP) for Research</li><li>• Sample Size Estimation</li></ul>
<b>Behavioral Research in Dentistry</b> (Instructors: Coldwell & Jorns)	<ul style="list-style-type: none"><li>• Objective Measures of Sensory Function</li><li>• Issues of Reliability and Validity</li><li>• Qualitative Methods</li><li>• Self-Report Measures</li><li>• Orofacial Pain Research</li></ul>
<b>Ethical Issues in Research*</b> (Instructor: Paphankorakit & Porasuphatana)	<ul style="list-style-type: none"><li>• History &amp; Regulations</li><li>• Three Ethics Principles of the Belmont's report</li><li>• Applying ethical principles: Case studies</li><li>• Responsible Conduct of Research</li></ul>
<b>Research Application</b> (Instructor: Wara-aswapati)	<ul style="list-style-type: none"><li>• Periodontal Research at KKU: Model of "Local Issue-Global Impact"</li></ul>
<b>Study Design Workshop</b> (Instructor: Thai mentors)	<ul style="list-style-type: none"><li>• Discussion of Research Projects</li><li>• Group Proposal Development and Presentation</li></ul>

\* Consist of both online and in-person course

## Application:

Applicants should submit an online application along with a curriculum vitae and a recommendation letter from the dean. Due to limited seats available, no more than two participants from each institution will be accepted.

**The application deadline is January 15, 2024.** Please submit your application using the link or QR code below.



Application Form:

[https://docs.google.com/forms/d/e/1FAIpQLSeyvFbtPm6CPPrJoytINBr5c-s5yAegsXG9QpdwMPw7MlaQjw/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSeyvFbtPm6CPPrJoytINBr5c-s5yAegsXG9QpdwMPw7MlaQjw/viewform?usp=sf_link)

## Contact persons:

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## Tentative Schedule

### The 9<sup>th</sup> International Workshop on Clinical Research Methods in Oral Health February 19 – 23, 2024 ❖ Khon Kaen University Science Park, Khon Kaen, Thailand

#### Sunday, February 18, 2024

07.00 p.m. Welcome Dinner

#### Monday, February 19, 2024

08:30 - 09:00 a.m. Registration  
 09:00 - 09:30 a.m. Opening Ceremony  
 Introduction and Orientation (Pitiphat)  
 Group Photo  
 09:30 - 10:20 a.m. Planning a Research Project (McKinney)  
 10:20 - 10:35 a.m. Coffee Break  
 10:35 - 11:25 a.m. Research Methods: Observational Studies I (Seminario)  
 11:30 - 12:20 a.m. Ethical Issues: History & Regulations (Porasuphatana)  
 12:20 - 01:20 p.m. Lunch  
 01:30 - 02:20 p.m. Behavioral Science Applied to Dentistry: Issues of Reliability and Validity (Coldwell)  
 02:30 - 03:20 p.m. Biostatistics: Overview of Statistics (Thinkhamrop)  
 03:20 - 03:35 p.m. Coffee Break  
 03:35 - 04:25 p.m. Biostatistics: Statistical Inference - Confidence Intervals vs P-values (Thinkhamrop)  
 04:25 p.m. Discussion of Research Projects

#### Tuesday, February 20, 2024

09:00 - 09:50 a.m. Research Methods: Randomized Control Trial (McKinney)  
 10:00 - 10:50 a.m. Ethical Issues: Three principles of the Belmont's report (Paphangkorakit)  
 10.50 - 11.10 a.m. Coffee Break  
 11:10 - 12:00 a.m. Biostatistics: Designing a Statistical Analysis Plan (SAP) for a Research (Thinkhamrop)  
 12:00 - 01:20 p.m. Lunch  
 01:30 - 02:20 p.m. Biostatistics: Sample Size Estimation (Thinkhamrop)  
 02:30 - 03:20 p.m. Research Methods: Measures of Disease Frequency (Seminario)  
 03:20 - 03:35 p.m. Coffee Break  
 03:35 - 04:25 p.m. Objective Measures of Sensory Function: Examples from NIH Toolbox (Coldwell)  
 04:25 p.m. Discussion of Research Projects

#### Wednesday, February 21, 2024

09:00 - 09:50 a.m. Evidence-based Dentistry: Systematic Search Strategy for Evidence-informed Practice (Kettratad)  
 10:00 - 10:50 a.m. Research Methods: Conceptual Models (Mckinney)  
 10.50 - 11.10 a.m. Coffee Break

11:10 - 12:10 a.m.	Research Methods: Bias and Errors in Research (Pitiphat)
12:10 - 01:20 p.m.	Lunch
01:30 - 02:20 p.m.	Evidence-based Dentistry: Understanding different types of systematic review and how to appraise them (Kettratad)
02:30 - 03:20 p.m.	Research Methods: Establishing Causality (Seminario)
03:20 - 03:35 p.m.	Coffee Break
03:35 - 04:25 p.m.	Ethical Issues: Applying ethical principles: Case studies (Porasuphatana)
04:25 p.m.	Discussion of Research Projects

**Thursday, February 22, 2024**

09:00 - 09:50 a.m.	Self-report Measures: Examples from National and International Surveys (Coldwell)
10:00 - 10:50 a.m.	Behavioral Research in Dentistry: Orofacial Pain Research (Jorns)
10:50 - 11:10 a.m.	Coffee Break
11:10 - 12:30 a.m.	Presentation of Research Projects by Participants
12:30 - 01:20 p.m.	Lunch
01.30 - 04.30 p.m.	KKU Dental School Tour
07.00 p.m.	Farewell Dinner

**Friday, February 23, 2024**

09:00 - 09:50 a.m.	Ethical Issues: Responsible Conduct of Research (Paphangkorakit)
10:00 - 10:50 a.m.	Qualitative Methods: Collecting Information from Groups (Coldwell)
10:50 - 11:05 a.m.	Coffee Break
11:05 - 11:45 a.m.	Periodontal Research at KKU: Model of "Local Issue-Global Impact" (Wara-aswapati)
11:45 - 12:15 a.m.	Summary and Conclusion (Pitiphat)
12:15 a.m.	Lunch and Departure
13.30 a.m.	Sightseeing

*\*The schedule is subject to change as appropriate.*