

AP Albert Chan's Microsurgery Workshop

Workshop Details:

Title:	Unveil the Secrets of Treating Peri-Implantitis
Faculty:	AP Albert Chan Hsun-Liang https://dentistry.osu.edu/faculty/hsun-liang-albert-chan-dds-ms
Date:	15 and 16 May 2024 (Wednesday and Thursday)
Time:	15 May 2024 10am to 6pm 16 May 2024 9am to 5pm
Venue:	Zeiss Training Centre (https://atap.co/malaysia/en/projects/carl-zeiss-singapore) 80 Bendemeer Road #10-01 S339949
Registration Fees: (inclusive of 9% GST)	\$1200

Synopsis:

Microsurgical periodontal and implant dentistry procedures were gaining popularity internationally because of the enhanced wound-healing process and reduced patient morbidity associated with these minimally invasive techniques. This new microsurgical division of periodontics and implant therapy is exciting. It encompasses a new perspective on regenerative wound healing and advanced use of devices and instruments, allowing for predictable clinical outcomes even in challenging cases.

Learning Objectives:

At the end of the Workshop, participants should:

- i. Have a better understanding of wound healing concepts specifically in the management of peri-implantitis
- ii. Be familiar with the fundamentals of microsurgery
- iii. Acquire basic skills to operate a microscope
- iv. Have an appreciation of the advantages of performing surgical procedures under magnification.

Faculty's Biography:

AP Chan is a nationally recognized researcher with funding from the National Institutes of Health (NIH). His current NIH-supported work is focused on novel ultrasound imaging applications for periodontal and implant diagnoses. With more than 100 peer-reviewed publications and conference abstracts and

presentations, he is an international leader in the field of microsurgery related to periodontics and implant dentistry. Throughout his career, AP Chan has received numerous awards and honors, including the American Academy of Periodontology (AAP) Sunstar Innovation Award; an AAP award for Outstanding Teaching and Mentoring in Periodontics; and a Nevins Teaching and Clinical Research Fellowship from the AAP Foundation. He also serves on various committees for the Midwest Society of Periodontology and the American Academy of Periodontology, and he is an examiner for the American Board of Periodontology.

15 May 2024:

15 May 2024: Unveil the Secrets of Treating Peri-implantitis (Day 1)					
Exercise#/ Duration (min)	Title	Aim	Simulator	Materials needed	Outcome evaluation
08:30-09:00	Registration/Breakfast				
09:00-09:40	Lecture: Updated concepts in wound healing considerations for treating peri-implantitis				
09:40-10:00	Implant crown removal	To simulate removal of an implant crown for better access with naked eyes	Custom model (need to place gingiva on the model)	<ul style="list-style-type: none">High speed# ½ and #1 round burUniversal 1.25mm screwdriver	Size of the opening and screw integrity Easiness of crown removal
10:00-10:20	Incision/flap reflection	To use 15c and Buser elevator		15c + blade holder Buser elevator	Flap integrity and easiness of flap reflection
10:20-10:40	Implant surface debridement	To debride the implant surface with Cavitron/Piezo (powered scaler) + water irrigation		Cavitron/Piezo (powered scaler) + water irrigation	Easiness of debridement and sense of cleanness
10:40-11:00	Membrane fixation	To exercise on tacking a collagen membrane to the defect		<ul style="list-style-type: none">Collagen membraneFixation kitDummy bone grafts	Fix the membrane with at least 3 tacks
11:00-11:30	Suture	To exercise on suturing with microsutures		<ul style="list-style-type: none">CastroviejoScissors5-0 polypropylene	Easiness of suturing
11:30-12:30	Lunch				
12:30-13:10	Lecture: Essentials of using microscope for treating peri-implantitis				
13:10-13:40	Microscope parts and calibration	To get used to the magnification	Paper drawings	Papers	Know microscope parts and familiarize with microscope
13:40-14:10	Implant crown replacement and removal with microscope	To simulate removal of an implant crown for better access with microscope	Custom model	<ul style="list-style-type: none">Flowable composite resin (can share)Light cure machine (can share)	Compare with the experience with naked eyes

				<ul style="list-style-type: none">• High speed• # ½ and #1 round bur• Universal 1.25mm screwdriver	
14:10-14:30	Incision/flap reflection	To use ophthalmic knife and micro-flap elevator		<ul style="list-style-type: none">• Ophthalmic knife• Micro-flap elevator (papilla elevator)	Flap integrity and easiness of flap reflection
14:30-15:00	Break				
15:00-15:30	Implant surface debridement	To debride the implant surface with Cavitron/Piezo (powered scaler) + water irrigation	Custom model	<ul style="list-style-type: none">• Check implant surface first• Cavitron/Piezo (powered scaler) + water irrigation	Easiness of debridement and sense of cleanness
15:30-16:00	Membrane fixation	To exercise on tacking a collagen membrane to the defect		<ul style="list-style-type: none">• Collagen membrane• Fixation kit• Dummy bone grafts	Fix the membrane with at least 3 tacks
16:00-16:30	Suture	To exercise on suturing with microsutures		<ul style="list-style-type: none">• Castroviejo• Scissors• 5-0 polypropylene	Easiness of suturing
16:30-17:00	Cleanup and ready for next day				

16 May 2024: Unveil the Secrets of Treating Peri-implantitis (Day 2)					
Exercise#/Duration (min)	Title	Aim	Simulator	Materials needed	Outcome evaluation
08:30-9:00	Breakfast				
09:00-9:40	Lecture: All you really need to know about sutures				
09:40-10:00	Microsuture-1	To know your suturing techniques	Holder Rubber dam	<ul style="list-style-type: none">• MicroX kit• 5-0 polypropylene	Place a suture of your own way
10:00-10:20	Microsuture-2	To know the differences between a square/slip knot			Place a square knot (1=1)
10:20-10:40	Break				
10:40-11:00	Microsuture-3	To switch from hand tie to bimanual instrumentation	Holder Rubber dam	<ul style="list-style-type: none">• MicroX kit• 7-0 polypropylene	
11:00-11:20	Microsuture-4	To know hand-switch and throw-switch suturing		<ul style="list-style-type: none">• MicroX kit• 7-0 polypropylene	Switch hands for placing a square knot
11:20-12:00	Microsuture-5	To learn reproducible suturing		<ul style="list-style-type: none">• MicroX kit• 7-0 polypropylene	Place 3 square knots (2=1=1) with equal bite depth and distance
12:00-13:00	Lunch				
13:00-13:40	Lecture: Predictable regenerative outcomes start with microsurgery				
13:40-14:30	Microsuture-6	To use the new suturing techniques on mushroom	Mushroom	<ul style="list-style-type: none">• MicroX kit• 7-0 polypropylene• 10-0 polypropylene	Understand the value of fine sutures on delicate tissues
14:30-14:50	Flap elevation with 3D simulator	To practice on tunneling	Tangerine Tomato	<ul style="list-style-type: none">• 15c blade + holder• Micro-flap elevator (papilla elevator)	Create a pouch for hosting transplanted tissue
15:00-15:20	Break				

15:20-16:00	Microsuture-7	To practice on suturing	Tangerine	<ul style="list-style-type: none"> • MicroX kit • 10-0 polypropylene 	Suture tangerine and tomato
16:00-17:00	Lecture: Now what are the next steps? Wrap-up and concluding remarks				