

Second U.S. PIPAC Training Workshop

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Yuman Fong, MD, The Sangiacomo Family Chair in Surgical Oncology, and the Department of Surgery at City of Hope proudly welcomes you to the

Second U.S.
PIPAC Training Workshop
July 28 to 29, 2024
City of Hope | Duarte

Co-Chaired by:



Thanh H. Dellinger, MD
Associate Professor
Department of Surgery
Division of Gynecologic Oncology
City of Hope



Mustafa Raouf, MD
Chief, Mixed Tumor and Regional Therapies
Department of Surgery &
Cancer Genetics and Epigenetics
City of Hope

*This activity is brought to you under the direction of the
International Society for the Study of Pleura and Peritoneum*



A special thanks to all faculty who presented and supported the inaugural PIPAC training workshop in 2022, helping to establish and guide/create this year's workshop.



Second U.S. PIPAC Training Workshop

Welcome to the Second U.S. PIPAC Training Workshop, in Duarte, CA!

On behalf of City of Hope and the Department of Continuing Medical Education, we would like to thank you for joining us for this educational activity.

Interest and input from our participants encouraged us to continue to expand the focus of this workshop, incorporating requests and suggestions from attendees. The previous workshop was a great success and we are happy to have you join us this year!

Workshop Highlights Include:

- Didactics addressing the concept, outlining occupational health measures, demonstrating safety steps and identifying equipment needed to perform PIPAC procedures.
- Dry Lab Simulation
- PIPAC – Live Case Demonstration
- Course Exam and Certification

Our goal is to provide the desired information and skills which physicians and allied health care providers need in order to better serve their patient populations and research. Your thoughts are valuable and important, so please share them with us on the evaluation that will be made available at the conclusion of the workshop.

The links to the *Course Exam & Evaluation* can also be accessed under the **Workshop Tasks** page of this handout.

Should you have any questions, please visit the workshop staff at the registration desk.

For post-workshop CME information, please contact:

City of Hope
Department of Continuing Medical Education
1500 E. Duarte Road, Bldg. #175
Duarte, CA 91010
cme@coh.org
(626) 218-5622



◆ General Information ◆

Second U.S. PIPAC Training Workshop

Safety Protocols:

Masks are required upon entry of the Helford facility for the Hands-on Dry Lab Simulation in the OR. **Masks are recommended** in all meeting space areas.

To ensure masks are effective, masks must be worn correctly over your nose and mouth. If you do not have a mask, please visit the registration desk to obtain one.

Contactless Registrant Sign-in:

During the workshop you will be provided with a unique Code to record your attendance. You will need to text in the attendance code to the City of Hope CME text-in number (626-314-7448). Registrant sign-in will also be facilitated via QR Code.

You must confirm your attendance **daily**.

To ensure you are ready for *Contactless Registrant Sign-in*:

1. Please be sure to have with you the cell phone (mobile) you registered in your CME Profile. **If you have not done so yet, confirm your mobile number (*you only have to do this once*).**

Log on to: <https://cme.cityofhope.org> Once logged on, click on "My Account" on the top right corner → Click on the "Edit" tab → then click on the "Mobile" tab:

- If mobile number is correct and you see the word "DONE!" simply close out the page. You are done!
- If you see "CONFIRM NUMBER", your mobile number is not yet confirmed. To confirm it:
 - Click "DELETE NUMBER AND START OVER."
 - Enter your mobile number (*do not include hyphens/dashes*), to receive a confirmation code.
 - Enter Confirmation Code (*this will be texted to you*).
 - Click "CONFIRM NUMBER" and once you see "DONE!" close out the page. You are done!

Quick Tip!

Once you log on to access your account, ***don't log out***, as you will need to log in to complete the **Course Exam**.

2. Save the **City of Hope CME text-in number** as a contact in your cell phone: **626-314-7448**.
3. Please ensure your cell phone is fully charged, as charging stations will not be available in the workshop area.



◆ General Information ◆

Second U.S. PIPAC Training Workshop

MEETING MATERIALS

Check-in at the registration desk to receive workshop materials and a name badge.

WORKSHOP NAME BADGE

Official workshop name badge **must** be worn at all times to gain and maintain access to workshop areas and meals.

WORKSHOP LOCATION

City of Hope
1500 E. Duarte Road
Duarte, CA 91010

EDUCATIONAL SESSIONS

Lectures: Kaplan Family Pavilion
Hands-on Dry Lab Training: Helford Operating Room (OR)

REGISTRATION DESK - HOURS OF OPERATION

DATE	TIME	LOCATION
Sunday, July 28, 2024	7:00 a.m. – 5:20 p.m.	Kaplan Family Pavilion
Monday, July 29, 2024	7:00 a.m. – 11:45 a.m.	Kaplan Family Pavilion

WORKSHOP MEALS & BREAKS

DATE	DESCRIPTION	TIME	LOCATION
Sunday, July 28, 2024	Breakfast	7:00 a.m. – 8:00 a.m.	Kaplan Family Pavilion
Sunday, July 28, 2024	Refreshment Break	10:35 a.m. – 10:55 a.m.	Kaplan Family Pavilion
Sunday, July 28, 2024	Lunch	12:00 p.m. – 1:00 p.m.	Kaplan Family Pavilion
Sunday, July 28, 2024	Meet the Faculty Reception	5:30 p.m. – 7:30 p.m.	1913 Restaurant & Bar
Monday, July 29, 2024	Breakfast	7:00 a.m. – 7:30 a.m.	Kaplan Family Pavilion
Monday, July 29, 2024	Refreshment Break	10:30 a.m. – 10:45 a.m.	Kaplan Family Pavilion



◆ CME Information ◆

Second U.S. PIPAC Training Workshop

Accreditation Statement

City of Hope is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Credit Designation Statement

City of Hope designates this live activity for a maximum of 11.5 *AMA PRA Category 1 Credits*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the educational activity.

The following may apply *AMA PRA Category 1 Credit*[™] for license renewal:

- **Registered Nurses:** Nurses may report up to 11.5 credit hours toward the continuing education requirements for license renewal by their state Board of Registered Nurses (BRN). CME may be noted on the license renewal application in lieu of a BRN provider number.
- **Physician Assistants:** The National Commission on Certification of Physician Assistants states that *AMA PRA Category 1 Credit*[™] accredited courses are acceptable for continuing medical education requirements for recertification.



Successful completion of this CME activity, enables the learner to earn credit toward the CME requirement of the American Board of Surgery's Continuous Certification program. It is the CME activity provider's responsibility to submit learner completion information to ACCME for the purpose of granting ABS credit.

Disclosure

This activity has been planned and implemented in strict compliance with the accreditation requirements, standards and policies of the ACCME. City of Hope takes responsibility for the content, quality and scientific integrity of this CME activity. Faculty and Planners have provided written disclosure of all relevant financial relationships which have been included in this handout. Any potential conflicts relative to the disclosure(s) have been resolved. City of Hope further encourages faculty/presenters to identify investigational products or off-label uses of products regulated by the U.S. Food and Drug Administration at first mention and where appropriate in the content. Please refer to the official prescribing information for each product for discussion of approved indications, contraindications, and warnings.



◆ CME Information ◆

Second U.S. PIPAC Training Workshop

Instructions for Obtaining CME Credit (AMA PRA Category 1 Credit™):

During the workshop, participants will be provided with a unique attendance code to record their attendance. Physicians and others who wish to receive *AMA PRA Category 1 Credit™* for this activity **must** text in the unique attendance code for this workshop, daily, in order to record their attendance.

The unique attendance code will need to be texted to the City of Hope CME text-in number (626-314-7448). If you have not yet saved this number as contact on your cell phone, please do so now, to ensure you are ready to record your attendance. The text-in method will also be facilitated via a QR code that will be available upon check-in, at the registration desk.

In order to complete this workshop, each participant must engage in and complete the following:

- Didactic Lectures
- Dry Lab Simulation
- PIPAC – Live Case Demonstration
- Course Exam
- Evaluation

Retrieve your CME Transcripts by visiting the City of Hope CME website: <https://cme.cityofhope.org/>
Log in using your registered email and password.

Quick Tip!

Have trouble remembering your password? Once you log in to your account, do not log out, so you do not have to log back in!

Once logged in, click on the My Transcripts section at the top of the page, and click on "Completed Activities". You can then print your Credit Transcript or the individual Certificate, if desired.

For assistance, contact the Department of Continuing Medical Education at 626-218-5622 or cme@coh.org.



◆ E-Syllabus ◆

Second U.S. PIPAC Training Workshop

To ensure that you are receiving the most current slide sets presented, as well as keeping with City of Hope's "green initiative" to reduce waste, an e-syllabus containing slide sets is available for this activity online only (**printed presentation not available on-site**). We recommend you access available presentations prior to the workshop and bring your computer or mobile device fully charged. We gratefully acknowledge the presenters for their permission to offer this material as an e-syllabus.

E-Syllabus Download/Printing Instructions: *(printed syllabus will not be provided on-site)*

If you would like to download or print a copy of available presentations simply:

- 1) Visit the following link: [PIPAC 2024 | E-Syllabus](#)
- 2) Find the desired presentation and click on the title of the presentation you would like to download
- 3) The presentation will open and appear in PDF format
- 4) To save the presentation, click "Save As"
- 5) To print the presentation, click "Print"

AJCC Cancer Staging Forms

- Access to the AJCC Cancer Staging Forms is also available via the e-syllabus.

PLEASE NOTE:

- ❖ Some presentations not provided prior to the workshop will be accessible post-activity.
- ❖ All presentations will be available for 4 weeks following the conclusion of this educational activity.
- ❖ Presentations have been uploaded at the discretion of each faculty member.

Second U.S. PIPAC Training Workshop

WiFi Networks

Wi-Fi Networks:

COH Staff: **HOPE**

Guests: **COHGUEST**

No Password Necessary

Must log in daily with name & an email address.





◆ Meet the Faculty Reception ◆

Second U.S. PIPAC Training Workshop

You're Invited!

Meet the Faculty Reception

Sunday, July 28, 2024



1913 Restaurant & Bar

5:30 – 7:30 p.m.

Registered attendees are invited to attend the Meet the Faculty Reception.

Workshop badge must be worn for admittance.

Upcoming Symposia

Scan QR codes for additional information.



 City of Hope.
2024 RACHMIEL LEVINE-ARTHUR RIGGS
Diabetes Research Symposium
SEPTEMBER 21 TO 24, 2024
THE WESTIN PASADENA, CA, U.S. | EARLY BIRD REGISTRATION AVAILABLE!
[LEARN MORE >](#)



 City of Hope.  SIO Integrative Oncology
21st
International Conference
of the Society for Integrative Oncology
October 25 to 27, 2024
The Westin South Coast Plaza | Costa Mesa, California, U.S.
[LEARN MORE >](#)

From Bedside
Full Circle
Translational
Integrative
Oncology
to Bench and Back



 City of Hope.
Multidisciplinary Approaches to Cancer Symposium
November 7 to 9, 2024
Turtle Bay Resort | O'ahu, Hawaii
[LEARN MORE >](#) Early Bird Registration Available! 



CORE COMPETENCIES INFORMATION SHEET

PRACTICE-BASED LEARNING AND IMPROVEMENT

Physicians must be able to investigate and evaluate their patient care practices, appraise and assimilate scientific evidence, and improve their patient care practices. **CME programs address these issues if the topics relate to:**

- analyzing practice experience and performing practice-based improvement activities using a systematic methodology
- locating, appraising, and assimilating evidence from scientific studies related to their patients' health problems
- obtaining and using information about their own population of patients and the larger population from which their patients are drawn
- applying knowledge of study designs and statistical methods to the appraisal of clinical studies and other information on diagnostic and therapeutic effectiveness
- using information technology to manage information, access on-line medical information; and support their own education
- facilitating the learning of students and other health care professionals

PATIENT CARE

Physicians must be able to provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health. **CME programs address these issues if they address topics related to:**

- The ability to communicate effectively and demonstrate caring and respectful behaviors when interacting with patients and their families;
- gathering essential and accurate information about their patients
- making informed decisions about diagnostic and therapeutic interventions based on patient information and preferences, up-to-date scientific evidence, and clinical judgment
- developing and carrying out patient management plans
- counseling and educating patients and their families
- using information technology to support patient care decisions and patient education
- performing competently all medical and invasive procedures considered essential for the area of practice
- providing health care services aimed at preventing health problems or maintaining health
- working with health care professionals, including those from other disciplines, to provide patient-focused care

SYSTEMS-BASED PRACTICE

Physicians must demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value. **CME programs address these issues if the topics relate to:**

- understanding how their patient care and other professional practices affect other health care professionals, the health care organization, and the larger society and how these elements of the system affect their own practice
- knowing how types of medical practice and delivery systems differ from one another, including methods of controlling health care costs and allocating resources
- practicing cost-effective health care and resource allocation that does not compromise quality of care
- advocating for quality patient care and assisting patients in dealing with system complexities
- knowing how to partner with health care managers and health care providers to assess, coordinate, and improve health care and knowing how these activities can affect system performance

MEDICAL KNOWLEDGE

Physicians must demonstrate knowledge about established and evolving biomedical, clinical, and cognate (e.g. epidemiological and social-behavioral) sciences and the application of this knowledge to patient care. **CME programs address these issues if the topics relate to:**

- demonstration of an investigatory and analytic thinking approach to clinical situations
- knowledge and application of the basic and clinically supportive sciences which are appropriate to their discipline

INTERPERSONAL AND COMMUNICATION SKILLS

Physicians must be able to demonstrate interpersonal and communication skills that result in effective information exchange and teaming with patients, their patients families, and professional associates. **CME programs address these issues if the topics relate to:**

- creating and sustaining a therapeutic and ethically sound relationship with patients
- using effective listening skills and eliciting and providing information using effective nonverbal, explanatory, questioning, and writing skills
- working effectively with others as a member or leader of a health care team or other professional group

PROFESSIONALISM

Physicians must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population. **CME programs address these issues if the topics relate to:**

- demonstrating respect, compassion, and integrity; responsiveness to the needs of patients and society that supersedes self-interest; accountability to patients, society, and the profession; and a commitment to excellence and on-going professional development
- demonstrating a commitment to ethical principles pertaining to provision or withholding of clinical care, confidentiality of patient information, informed consent, and business practices
- demonstrating sensitivity and responsiveness to patients' culture, age, gender, and disabilities



◆ Department of Continuing Medical Education ◆

Conflict of Interest Disclosure and Resolution & Core Competencies
Second U.S. PIPAC Training Workshop
July 28 to 29, 2024

City of Hope takes responsibility for the content, quality, and scientific integrity of this CME activity.

City of Hope is accredited by the Accreditation Council for Continuing Medical Education (ACCME). As a fully accredited ACCME Category 1 CME credit provider, the Continuing Medical Education Department has in place policies and procedures which insure the balance, independence, objectivity and scientific rigor in all of its educational activities. City of Hope complies with the [Standards for Integrity and Independence in Accredited Continuing Education](#) of the (ACCME), which REQUIRE that all relevant disclosed conflicts of interest be mitigated prior to the educational activity.

To this end all faculty presenters who are in a position to control the content of an educational activity must identify any real or apparent conflict(s) of interest by disclosing to the Department of CME all relevant financial relationships¹ with any ineligible company². To comply with more intense scrutiny by accreditation agencies, should you disclose any relevant conflict of interest with an ineligible company, the content of your presentation must be peer reviewed prior to presenting. Presentations will be provided to participants as an e-syllabus or in a meeting handout, all relevant disclosures will be made known to participants prior to the start of the activity.

In furtherance of program impartiality, we request the use of generic drug names in your presentation as opposed to trade names. Under no circumstances will we accept trade names. Additionally, contents of your presentation must be based solely on scientific methods generally accepted by the medical community. Data will have been objectively selected from peer-reviewed literature and will be presented in an unbiased manner.

CORE COMPETENCIES

The American Board of Medical Specialties (ABMS) and the Accreditation Council of Graduate Medical Education (ACGME) have embarked on a joint initiative to quantify and evaluate a set of 6 physician core competencies by which the individual physician will be measured for Residency Certification, Board Certification and more recently, Maintenance of Certification (MOC). Individual hospitals and other health care delivery organizations will now also be evaluated by the Joint Commission on Accreditation of Healthcare Organizations (JCAHO) on their practice and demonstration of the 6 core competencies.

In brief, the actual term “core competencies” refers to those six abilities (competencies) that are central (core) to the practice of medicine, specifically: (1) Practice-Based Learning and Improvement, (2) Patient Care, (3) Systems-Based Practice, (4) Medical Knowledge, (5) Interpersonal and Communication Skills, and (6) Professionalism. To assist our conferees in demonstrating their completion of CME in the six core competencies, the educational content of each presentation will be noted by numbers 1-6 in the table below. CME certificates for this activity will reflect those core competencies addressed by the educational content of the overall conference.

Workshop Faculty	Commercial Interest	Conflict/ Resolution & Faculty Discussion of Off-Label Drugs	Core Competencies
Arya Amini, MD	I do not have any relevant financial relationships with any ineligible companies.	None	Reviewer
Sue Chang, MD	I do not have any relevant financial relationships with any ineligible companies.	None	1 & 4
Thanh H. Dellinger, MD	Grant/Research Support from Reger, Inc.	The educational content has been peer-reviewed, an attestation on file and no conflicts were noted. <i>Off-label/Investigational use of: Cisplatin, Doxorubicin, Mitomycin C, Nab-Paclitaxel, and Oxaliplatin.</i>	Planner 1, 2, 3, 4 & 5
Danielle K. DePeralta, MD	I do not have any relevant financial relationships with any ineligible companies.	None <i>Off-label/Investigational use of: Cisplatin, Doxorubicin, Mitomycin C, and Oxaliplatin.</i>	2 & 4
Marwan Fakh, MD	Consultant for AbbVie, AstraZeneca, Eisai, Merck, and Pfizer; Grant/Research Support from Genentech.	None	1 & 4
Viviana Flores, RN, RNFA	I do not have any relevant financial relationships with any ineligible companies.	None	1, 2, 3, 4, 5 & 6

Workshop Faculty	Commercial Interest	Conflict/ Resolution & Faculty Discussion of Off-Label Drugs	Core Competencies
Ashley (Lan-Phuong) Johns, PharmD, MS	I do not have any relevant financial relationships with any ineligible companies.	None <i>Off-label/Investigational use of: Cisplatin, Doxorubicin, Mitomycin, Nab-Paclitaxel, and Oxaliplatin.</i>	1, 2, 3, 4, 5 & 6
Alex Jung, MD	I do not have any relevant financial relationships with any ineligible companies.	None	1, 2, 3, 4, 5 & 6
Michael W. Lew, MD	I do not have any relevant financial relationships with any ineligible companies.	None	4
Daneng Li, MD	Grant/Research Support from AstraZeneca; Consultant for Adagene, AstraZeneca, Eisai, Genentech, and Merck.	The educational content has been peer-reviewed, an attestation on file and no conflicts were noted. <i>Off-label/Investigational use of: Cisplatin, Doxorubicin, Nab-Paclitaxel, and Oxaliplatin.</i>	4
Amy Lo, PharmD	I do not have any relevant financial relationships with any ineligible companies.	None <i>Off-label/Investigational use of: Cisplatin, Doxorubicin, Mitomycin, Nab-Paclitaxel, and Oxaliplatin.</i>	1, 2, 3, 4, 5 & 6
Kimberly M. Lopez, CST III	I do not have any relevant financial relationships with any ineligible companies.	None	1, 2, 3, 4, 5 & 6
Thinzar Helmi Lwin, MD, MS	I do not have any relevant financial relationships with any ineligible companies.	None <i>Off-label/Investigational use of: Indocyanine Green, SGM-101.</i>	1 & 4
Theresa McCormick, BSN, RN	I do not have any relevant financial relationships with any ineligible companies.	None	4
Amit Merchea, MD	I do not have any relevant financial relationships with any ineligible companies.	None <i>Off-label/Investigational use of: Cisplatin, Doxorubicin, Mitomycin C, and Oxaliplatin.</i>	1 & 4
Carmen Netto-Merced, RAC	I do not have any relevant financial relationships with any ineligible companies.	None	4 & 6
Mustafa Raoof, MD	Grant/Research Support from Exact Sciences, and Reger, Inc.	The educational content has been peer-reviewed, an attestation on file and no conflicts were noted. <i>Off-label/Investigational use of: Cisplatin, Doxorubicin, Mitomycin C, Oxaliplatin, and Paclitaxel.</i>	Planner 1, 2, 4 & 6
Crystal Saavedra, BA	I do not have any relevant financial relationships with any ineligible companies.	None	Planner
Richard L. Whelan, MD	Grant/Research Support from Applied Medical, and Erbe.	The educational content has been peer-reviewed, an attestation on file and no conflicts were noted.	2, 3, 4, 5 & 6
Yanghee Woo, MD	Consultant for Astellas, AstraZeneca, and Imugene.	The educational content has been peer-reviewed, an attestation on file and no conflicts were noted. <i>Off-label/Investigational use of: CF33-Ovs., Cisplatin, Doxorubicin, Mitomycin, Nab-paclitaxel, Paclitaxel.</i>	1, 2, 4 & 6

1. The ACCME defines "relevant" financial relationships" as financial relationships with an ineligible company (in any amount), occurring within the past 24 months, that create a conflict of interest.
2. The ACCME defines an "Ineligible company" as any entity producing, marketing, selling, re-selling, or distributing healthcare products used by or on patients.

Second U.S. PIPAC Training Workshop

SUNDAY, JULY 28, 2024

7:00 - 8:00 AM

REGISTRATION/BREAKFAST

8:00 - 8:20 AM

Welcome & Announcements

8:20 - 10:35 AM

Why PIPAC?

Chair: Amit Merchea, MD

Background

Richard L. Whelan, MD

Normal and Diseased Peritoneum

Thinzar Helmi Lwin, MD, MS

Assessing Histologic Response

Sue Chang, MD

Radiology and Peritoneal Disease

Alex Jung, MD

Systemic Treatment for Peritoneal Carcinomatosis

Marwan Fakhri, MD

Cytoreduction and HIPEC in Peritoneal Carcinomatosis

Mustafa Raoof, MD

Q&A

10:35 - 10:55 AM

REFRESHMENT BREAK

10:55 AM - 12:00 PM

PIPAC – Clinical Evidence

Chair: Richard L. Whelan, MD

PIPAC in Colorectal and Appendiceal Cancer

Mustafa Raoof, MD

PIPAC in Gynecologic Cancers

Thanh H. Dellinger, MD

PIPAC in Gastric Cancers

Yanghee Woo, MD

Q&A

12:00 - 1:00 PM

LUNCH

1:00 - 3:00 PM

PIPAC Essentials

Chair: Danielle K. DePeralta, MD

Principles of Capno-peritoneum and PIPAC Technology

Amit Merchea, MD

Preclinical Experiments - HIPEC vs PIPAC

Yanghee Woo, MD

PIPAC: Local and Systemic Toxicities, Risks and Dangers

Mustafa Raoof, MD

Occupational Health Safety Aspects (U.S.)

Thanh H. Dellinger, MD

Anesthetic Technique and Precautions

Michael W. Lew, MD

How to Get Started

Richard L. Whelan, MD

Regulatory Background (U.S.)

Carmen Netto-Merced, RAC

Q&A

3:00 - 3:20 PM

BREAK

3:20 - 5:20 PM

PIPAC Video | Hands-on Dry Lab Training | Tips & Tricks

Chairs: Thanh H. Dellinger, MD & Mustafa Raoof, MD

Panel:

Danielle K. DePeralta, MD

Viviana Flores, RN, RNFA

Ashley (Lan-Phuong) Johns, PharmD, MS

Michael W. Lew, MD

Amy Lo, PharmD

Kimberly M. Lopez, CST III

Theresa McCormick, BSN, RN

Amit Merchea, MD

Richard L. Whelan, MD

5:20 PM

ADJOURN

5:30 - 7:30 PM

MEET THE FACULTY RECEPTION

Second U.S. PIPAC Training Workshop

MONDAY, JULY 29, 2024

7:00 - 7:30 AM

REGISTRATION/BREAKFAST

7:30 - 8:30 AM

Clinical Practice

Chair: Richard L. Whelan, MD

**Patient Selection for PIPAC - Indications
and Contra-indications**

Danielle K. DePeralta, MD

Multimodal Therapy and PIPAC

Daneng Li, MD

U.S. PIPAC Registry

Amit Merchea, MD

U.S. PIPAC Trials & Research Collaborations

Mustafa Raouf, MD

8:30 - 10:30 AM

PIPAC - LIVE Case Demonstration with Q&A

Thanh H. Dellinger, MD

10:30 - 10:45 AM

REFRESHMENT BREAK

10:45 - 11:45 AM

Course Exam, Evaluation and Certificate Presentation

Mustafa Raouf, MD

11:45 AM

ADJOURN

Second U.S. PIPAC Training Workshop

THE CHECKLIST HAS TO BE COMPLETED BY TWO INDIVIDUALS IN DIALOGUE (4 EYES PRINCIPLE)

1. TIME OUT - Before starting:

- a. Verify Patient name.
- b. Verify Surgical procedure.
- c. Chemotherapy drug(s) in the OR?
Check label with patient name and dose and containers.
- d. Cytotoxic spill kit and waste container available?
- e. Chemotherapy loaded into the high-pressure injector, and high-pressure injector syringes primed?
 - i. For single chemotherapy administration (e.g. oxaliplatin), use only syringe A.
 - ii. For dual chemotherapy administration (e.g. doxorubicin/cisplatin), fill syringe A with doxorubicin, and syringe B with cisplatin.
- f. All team members with glasses, gloves and protective clothing?
- g. Protective sheet on the floor under the injector?
- h. Does an advanced air filtration system exist?*

Before PIPAC application:

- i. Place additional working ports.
- j. Abdomen tight with 12mm Hg CO₂ (max CO₂ flow = 0.1 – 0.2 L/min corresponding to body resorption).
- k. PCI and ascites volume documented?
- l. Diagnostic biopsies taken in all 4 quadrants?
- m. Research samples labeled?
- n. Remove additional Hassan port, if this was placed, and close mini-laparotomy.
- o. Check for air bubbles in mini-laparotomy incision by placing saline in the incision.
- p. Is the Covidien Article Nr 352/5877 filter placed between the insufflator and the CO₂ insufflation tubing running to the patient?
- q. Is the Closed aerosol waste system (CAWS) with filters installed at 5mm port? Tubing closed? Port valve closed? Is the Microparticle filter at the extremity of the CAWS, wall connection plugged in?
- r. Video camera on 5mm trocar, with camera holder set up?
- s. Video documentation activated?
- t. Laparoscopic nebulizer inserted at 12mm port, free floating, no bowel contact?
- u. Is the chemotherapy infusion tubing covered in a sterile plastic transparent bag (e.g. ultrasound probe cover)?
- v. Is the nebulizer's high-pressure line connected to the syringe and firmly screwed on?***
- w. Injector setting: Syringe volumes***:
 - i. For oxaliplatin, or cisplatin: set volume to 157ml (it will draw 157ml – 7 of which will remain in the tubing, only 150ml will be delivered to patient. Pressure max 300psi, flow at 0.5ml/sec.

- ii. For doxorubicin (syringe A): set to 50 ml. Pressure max 300psi, flow at 0.5 ml/sec.
For cisplatin (syringe B): set to 157 ml. Pressure max 300psi, flow at 0.5 ml/sec.

For doxorubicin/cisplatin regimen, doxorubicin is injected first (syringe A, 50 ml), followed by cisplatin (syringe B, 157 ml).

- iii. For Mitomycin C, varying doses between 7 to 25 mg/m²*** will be dissolved in 150 mL of 0.9% NaCl (150 mL NS) for PIPAC. Pressure max 300psi, flow at 0.5 ml/sec.
- iv. For nab-paclitaxel, the reconstituted dose of 90m/m² will be dissolved in 250 mL of 0.9% NaCl (150 mL NS) for PIPAC. Additional saline will be added immediately before administration to the patient, to a final volume will be 165mL. Pressure max 300psi, flow at 0.5 ml/sec.
- x. Confirm remote monitoring devices.
- y. Confirm CO₂ flow rate = 0.1-0.2 L/min.
- z. All team members leave the operating room.

2. PIPAC application

- a. Remote controlled application of the chemotherapy drug(s).
- b. Wait 30 minutes in console room/scrub room, AFTER chemo injection is complete.

3. Completing the procedure:

- a. A single person enters into the operating room.
- b. Stop CO₂ insufflator.
- c. Activate CAWS system (open port and pinchcock), remove camera, proceed to exsufflation of the toxic aerosol.
- d. The team re-enters the OR.
- e. All disposable materials are eliminated into cytotoxic waste bin.
- f. Re-insufflate and collect post PIPAC biopsies.
- g. Closure of the injection sites (absorbable sutures).
- h. Documentation of the procedure.

* The ISSPP recommends an advanced filtration system meeting International Organization for Standardization (ISO)14644-class B ≤ 5 for adequate safety. Alternatively, the patient can be completely covered in a single plastic sheet connected to a smoke filtration device.

** The sterile nebulizer comes sealed together with a high-pressure line, so there is only one single safety connection.

*** Drug doses and syringe volumes are examples from current U.S. trial (NCT04329494)

Second U.S. PIPAC Training Workshop

COURSE EXAM:

During the workshop you will be prompted to access the PIPAC Course Exam.

You can access the exam on your mobile phone by scanning the QR Code below:



or you can visit the following link:

<https://cme.cityofhope.org/node/13934/course-object/35497>

Exam will not be available until it is time to take it.

Please Note: *If not already logged in to your account, you will be prompted to log in to access the workshop exam & tasks.*

POST-WORKSHOP TASKS open on 07/29/2024 at 11:45am

[Workshop Evaluation](#)

[Workshop Feedback Survey](#)

IMPORTANT:

*Last day to complete Post-Workshop Tasks is: **August 5, 2024***

For assistance, contact the Department of Continuing Medical Education at 626-218-5622 or cme@coh.org.