

SAGES 2019 CBD Resident Course



Cedars-Sinai Medical Center, | August 24, 2019 | Los Angeles, California

Goals and Objectives:

Course attendees: Attending surgeons paired with a PGY3, 4 & 5 resident from their institution

Goal #1: to gain a greater understanding of bile duct injuries (BDI) in laparoscopic cholecystectomy, and learn how to minimize this risk in clinical practice.

Goal #2: To gain the cognitive knowledge and technical skills necessary to perform common bile duct exploration, enabling them to provide comprehensive surgical management of bile duct stones, reduce the need for additional procedures, lower costs, and shorten hospital stays for cholecystectomy patients.

Objectives: Upon completion of this course, attendees will be able to:

Safe cholecystectomy:

- Describe the magnitude of the BDI problem
- Describe the risk factors and anatomic conditions which predispose to BDI.
- Describe safe strategies for dissection, ductal identification, and the use of cholangiography to increase safety.
- Describe what to do when faced with a difficult cholecystectomy, and how to perform a safe bailout maneuver if necessary.

Common Bile Duct Stone Management:

- Describe an appropriate preoperative approach to patients with suspected common duct stones that maximizes efficiency and safety, and minimizes unnecessary testing and delays in care.
- Correctly interpret intraoperative cholangiograms to identify relevant operative anatomy and bile duct stones.
- Choose an appropriate approach to clearance of common duct stone(s).
- Achieve a passing score on a pre-defined mastery-learning standard for simulated transcystic exploration.
- Demonstrate proper deployment of a transcystic biliary stent.
- Gain exposure to techniques of transcholedochal common duct exploration and open exploration.
 - o Some (but not all) learners may achieve a passing score on a pre-defined mastery learning standard for simulated transcholedochal exploration.
- Correctly setup instruments necessary for bile duct exploration on a back table.

Course Chairs: Matthew Bloom, M.D. and B. Fernando Santos. M.D.

Course Faculty: Matthew Bloom M.D., B. Fernando Santos M.D., Eric Hungness M.D., Ezra Teitelbaum M.D., Louise Yeuk Yan Yeung M.D., Michael Brunt M.D., Brian Davis M.D., Edward Phillips M.D., Dennis Kim M.D., Peter Muscarella M.D., Marian McDonald M.D.

Advisors: Butch Rosser M.D., and Jenaya Goldwag M.D.

Saturday, August 24, 2019

6:30-7:00am Meet in hotel lobby to travel to Cedar-Sinai Medical Center

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- 7:00- 7:15am Breakfast (**location TBD**)
- 7:15-7:20am Introduction/Welcome: *Why you're here, what we're going to learn.* Brunt/Bloom/Santos
- All participants (Duration: 80 minutes)
- 7:20-7:45am **BDI: The problem/anatomy/risk factors/pre-op eval (25 minutes)**
Group I - 12 participants
Presenter: Michael Brunt
- 7:45-8:10am **Dissection/Identification of anatomy/IOC (25 minutes)**
Group I - 12 participants
Presenter: Marian McDonald
- 8:10-8:35 am **Difficult gallbladder/judgement/bailout maneuvers (25 minutes)**
Group I - 12 participants
Presenter: Brian Davis
- 8:35-8:40 am **Panel discussion/questions**
- 8:40-8:50 am 10 minute break
- LCBDE Baseline testing, All Participants, 8 stations of LCBDE baseline testing (Duration: 80 minutes)
Station faculty: Hungness, Teitelbaum, Bloom, Kim, Yeung, Davis, Santos
- 10 min intro video
 - 15 min transcystic test
 - 2 min. rating/setup
 - 15 min transcholedochal test
 - 2 min. rating/setup
 - 15 min transcystic test
 - 2 min. rating/setup
 - 15 min transcholedochal test
 - 2 min. rating/setup
- 10:10-10:20am Break

LCBDE Lectures All Participants

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10:20-10:35am **Transcystic CBDE – basic (15 min)**

Presenter: Teitelbaum

10:35-11:00am **Transcholedochal CBDE (25 min)**

Presenter: Edward Philips

11:00-11:25am **Advanced cases and adjuncts - sphincteroplasty, stents, difficult stones (25 min)**

Presenter: B. Fernando Santos

11:25-11:30am **Open discussion/questions**

11:30-12:00pm Lunch (**location TBD**)

12:00-12:25pm **Open CBDE (25 min)**

Presenter: Peter Muscarella

12:25-12:50pm **Starting a program (25 min)**

Presenter: Dennis Kim

12:50-12:55pm **Open discussion/questions (5 min)**

12:55-14:55pm **Hands-on Laboratory (Room: TBD)**

CBDE Deliberate Practice part 1 (2 hours)

Group I (teams 1-4) Lap transcystic CBDE and stent placement

4 stations - 2 hours (approx 1 hour deliberate practice per participant)

Faculty: Hungness, Kim, Davis, Bloom, Teitelbaum (floating/sub)

Group II (teams 5-8) 4 different station rotations (A/B/C/D) - 2 hours total

A. Transcholedochal (choledochotomy/suturing), 2 stations (2 per station, 60 min)

Faculty: Yeung, Santos (floating/sub)

B. Cholangiogram interpretation station (2 per station, 20 min)

Faculty: McDonald/Brunt

C. Equipment/choledochoscope setup station (2 per station, 20 min.)

Faculty: Cedars OR nurse

D. Open CBDE station (2 per station, 20 min)

Faculty: Muscarella

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Station Schedule by Team:

Team 5: A (60 min), B (20 min), C (20 min), D (20 min)

Team 6: A (60 min), D (20 min), B (20 min), C (20 min)

Team 7: B (20 min), C (20 min), D (20 min), A (60 min)

Team 8: D (20 min), B (20 min), C (20 min), A (60 min)

14:55-15:05pm Break

15:05-17:05pm **Hands-On CBDE Deliberate Practice part 2 (2 hours)**
Group I (teams 7-12) Lap transcystic CBDE and stent placement
6 stations - 2 hours (approx 1-hour deliberate practice per participant)
Faculty: Hungness, Teitelbaum, Davis, Kim, Santos (floating)

Group II (teams 1-6) 4 different station rotations (A/B/C/D) - 2 hours total

A. Transcholedochal (choledochotomy/suturing), 3 stations (2 per station, 60 min)
Faculty: Yeung, Bloom (floating/sub)

B. Cholangiogram interpretation station (2 per station, 20 min)
Faculty: McDonald/Brunt

C. Equipment/choledochoscope setup station (2 per station, 20 min.)
Faculty: Cedars OR nurse

D. Open CBDE station (2 per station, 20 min)
Faculty: Muscarella

Station Schedule by Team:

Team 1: A (60 min), B (20 min), C (20 min), D (20 min)

Team 2: A (60 min), D (20 min), B (20 min), C (20 min)

Team 3: B (20 min), C (20 min), D (20 min), A (60 min)

Team 4: D (20 min), B (20 min), C (20 min), A (60 min)

17:05- 18:05pm **8 station post-test -60 min. (transcystic and transcholedochal)**
team 1 Hungness
team 2 Teitelbaum
team 3
team 4 Bloom
team 5 Kim
team 6 Santos

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team 7 Yeung

team 8 Davis

All surveys/written post-test, faculty feedback/eval

18:15pm

Adjourn