

2023 Akita University Faculty of Medicine Syllabus

Category : 臨床医学 VI (CC2)
Course Title : Anesthesia and Intensive Care Medicine
Eligible Students : grade 5 Elective Course
Code : 71644006-19

1. Lead Instructor

Yukitoshi Niiyama (新山 幸俊) (Professor, Department of Anesthesiology and Intensive care (麻醉・蘇生・疼痛管理学講座), 6172, Office Hour: 8:30 - 17:00)

2. Instructors

Yukitoshi Niiyama (新山 幸俊) (Professor, Department of Anesthesiology and Intensive care (麻醉・蘇生・疼痛管理学講座), 6172, Office Hour: 8:30 - 17:00)

Tetsu Kimura (木村 哲) (Hospital Associate Professor, Division of Medical Security and Patient Safety (医療安全管理部), 6173, Office Hour: 8:30 - 17:00)

Kyoko Abe (安部 恭子) (Assistant Professor, Department of Anesthesiology and Intensive care (麻醉・蘇生・疼痛管理学講座), 6175, Office Hour: 8:30 - 17:00)

Koji Sato (佐藤 浩司) (Assistant Professor, Department of Anesthesiology and Intensive care (麻醉・蘇生・疼痛管理学講座), 6175, Office Hour: 8:30 - 17:00)

Maiko Nakajima (中島 麻衣子) (Assistant Professor, Department of Anesthesiology and Intensive care (麻醉・蘇生・疼痛管理学講座), 6175, Office Hour: 8:30 - 17:00)

Natsuko Yamamoto (山本 夏子) (Assistant Professor, Department of Anesthesiology and Intensive care (麻醉・蘇生・疼痛管理学講座), 6175, Office Hour: 8:30 - 17:00)

Yuta Horikoshi (堀越 雄太) (Assistant Professor, Department of Emergency medicine and Intensive care (救急・集中治療医学講座), 6175, Office Hour: 8:30 - 17:00)

Sahoko Kodama (小玉 早穂子) (Assistant Professor, Department of Anesthesiology and Intensive care (麻醉・蘇生・疼痛管理学講座), 6175, Office Hour: 8:30 - 17:00)

3. Course Description Outline(Course Objectives)

1. Aim

This course provides opportunities to Learn about the medical abilities in the anesthesiology field that doctors in any field will need in the future through medical treatment for patients undergoing general anesthesia and local anesthesia as a member of the team, and to acquire an image of anesthesia work.

1)In CC2, more full-scale clinical training in anesthesiology will be conducted based on the experience of CC1 (3-1 ~ 3-7, 4-1 ~ 4-7) .

2)Participate in anesthesiology medical care as a member of the team while assisting the anesthesia management of the instructor, such as inputting anesthesia records and assisting various procedures (2-1 ~ 2-8, 4-5 ~ 4-7) .

3)Understand deeply one's own knowledge and understanding by instructing CC1 students (6-1 ~ 6-2) .

4)For one week during the training period, practice at related hospitals in the prefecture (Akita Kousei Medical Center, Municipal Akita General Hospital, Nakadori General Hospital, Omagari Welfare Medical Center, Yuri Union General Hospital) and experience the actual situation of community medicine (it may not be done depending on the infection status of covid-19) (2-1 ~ 2-7, 3-6 ~ 3-7, 4-7 ~ 4-8) .

5)Learn differential diagnosis and coping methods according to the specified case scenario, and give a presentation as a group (2-4, 3-1 ~ 3-3, 4-1 ~ 4-5, 6-1 ~ 6-2) .

2. Learning goals

The goals of this course are to learn and acquire

1)Symptoms / pathological conditions Clinical reasoning (3-1 ~ 3-4, 3-6, 4-1 ~ 4-4)

(1) Hypertension / hypotension, (2) Arrhythmia, (3) Hypoglycemia, (4) Hypercarbonemia, (5) Shock, (6) Cardiac arrest, (7) Acidosis / alkalosis, (8) Electrolyte imbalance, (9) Hypertension / hypoglycemia, (10) Difficult airway, (11) Postoperative acute pain (12) Chronic pain

2)Basic clinical procedures (4-1, 4-5, 4-6)

(1) Repositioning and transfer are possible, (2) Skin disinfection is possible, (3) Observe and assist the insertion of the peripheral venous catheter, (4) Observe and assist the insertion of the arterial catheter, (5) Arterial blood gas analysis can be performed, (6) Observe and assist the insertion of the central venous catheter, (7) insertion and remove the gastric tube, (8) Intravenous administration, (9) Observe and assist general anesthesia, local anesthesia, and blood transfusion (10) Create medical records (anesthetic records) (11) Observe various medical certificates, examination documents, and certificates and assist

3)Laboratory procedures (4-2, 4-5, 4-6)

(1) Standard operating room vital sign monitors (electrocardiogram, non-invasive arterial pressure, percutaneous oxygen saturation, capnogram, bispectral index, core temperature, etc.) can be worn. (2) Arterial blood gas analysis can be performed.

4)Surgical procedure (4-1 ~ 4-8)

(1) Aseptic technique can be performed. (2) You can wash your hands for the procedure. (3) Can perform gown techniques in the operating room. (4) Observe and assist in surgery, preoperative, intraoperative, and postoperative management. (5) Visit and assist nerve blocks.

5)Life-saving measures (3-1 ~ 3-7, 4-1 ~ 4-7)

(1) Physical signs and vital signs can be used to determine that the situation is highly urgent. (2) Basic life support can be implemented. (3) Participate to the extent possible in the initial response of patients with high urgency, including advanced life support.

6)Anesthesiology practice (2-1 ~ 2-7, 3-1 ~ 3-7, 4-1 ~ 4-7)

(1) Learn clinical reasoning and response to various symptoms and pathological conditions encountered during anesthesia management (above 2. Learning objectives-1)) through the medical treatment of a supervising doctor. (2) Participate in actual anesthesia management to the extent possible under the responsibility of the instructor.

7)Simulation education (3-1 ~ 3-6, 4-1 ~ 4-7, 6-1 ~ 6-2)

(1) Improve clinical skills by repeatedly practicing using a high-performance anesthesia simulator (2) Acquire situational judgment and decision-making ability through his training using scenarios. (3) Experience venous line securing, arterial puncture, echo-guided area anesthesia, and epidural anesthesia using a simulator. (4) Improve self-reflection ability by looking back.

8)Competency education (1-1 ~ 1-2, 2-4 ~ 2-6, 3-1 ~ 3-7, 4-1 ~ 4-7, 5-1 ~ 5-4, 6-1 ~ 6-2)

(1) Learn the pride (ethics, medical behavior) as a doctor by acting as a spokesperson for the patient in an environment where the patient's consciousness of anesthesia is lost and communication cannot be achieved. (2) Understand what to do when anesthesia-related complications occur based on the concept of medical safety. (3) Learn professionalism and team medical care while working in various occupations such as surgeons, nurses, and clinical engineers. (4) Learn recent evidence and guidelines for anesthesia and perioperative management.

1. ねらい

1)CC2 では、CC1 の経験を踏まえ、より本格的な麻酔科の診療参加型臨床実習を行う (3-1 ~ 3-7, 4-1 ~ 4-7)。

2) 麻酔記録の入力や種々の手技の介助など、指導医の麻酔管理を補助しながら、チームの一員として麻酔科診療に参加する (2-1 ~ 2-8, 4-5 ~ 4-7)。

3)CC1 の学生を指導することにより、自身の知識、理解をより深める (6-1 ~ 6-2)。

4) 実習期間中 1 週間は、県内関連病院 (秋田厚生医療センター、市立秋田総合病院、中通総合病院、大曲厚生医療センター、由利組合総合病院) で実習を行い、地域医療の実際を体感する (covid-19 の感染状況次第では行われないこともあります) (2-1 ~ 2-7, 3-6 ~ 3-7, 4-7 ~ 4-8)。

5) 指定された症例シナリオに沿って鑑別診断、対処法などを学び、グループとしてプレゼンテーションを行う (2-4, 3-1 ~

3-3, 4-1 ~ 4-5, 6-1 ~ 6-2)。

2. 学修目標

1) 症候・病態 臨床推論 (3-1 ~ 3-4, 3-6, 4-1 ~ 4-4)

(1) 高血圧・低血圧、(2) 不整脈、(3) 低酸素血症、(4) 高二酸化炭素血症、(5) ショック、(6) 心停止、(7) アシドーシス・アルカローシス、(8) 電解質異常、(9) 高血糖・低血糖、(10) 気道確保困難、(11) 術後急性痛、(12) 慢性痛

2) 基本的臨床手技 (4-1, 4-5, 4-6)

(1) 体位交換、移送ができる。(2) 皮膚消毒ができる。(3) 末梢静脈ラインの確保を見学し、介助できる。(4) 動脈血採血・動脈ラインの確保を見学し、介助できる。(5) 動脈血採血・検査を実施できる。(6) 中心静脈カテーテル挿入を見学する。(7) 胃管を挿入・抜去できる。(8) 静脈内注射を実施できる。(9) 全身麻酔、局所麻酔、輸血を見学し、介助できる。(10) 診療録(麻酔記録)を作成できる。(11) 各種診断書・検案書・証明書の作成を見学し、介助できる。

3) 検査手技 (4-2, 4-5, 4-6)

(1) 手術室の標準的バイタルサインモニタ(心電図、非観血的動脈圧、経皮的酸素飽和度、カプノグラム、bispectral Index、深部温など)を装着できる。(2) 動脈血液ガス分析を実施できる。

4) 外科手技 (4-1 ~ 4-8)

(1) 無菌操作を実施できる。(2) 手技のための手洗いができる。(3) 手術室におけるガウンテクニックを見学し、介助できる。(4) 手術、術前・術中・術後管理を見学し、介助できる。(5) 神経ブロックを見学し、介助できる。

5) 救命処置 (3-1 ~ 3-7, 4-1 ~ 4-7)

(1) 身体徴候、バイタルサインから緊急性の高い状況であることを判断できる。(2) 一次救命処置を実施できる。(3) 二次救命処置を含む緊急性の高い患者の初期対応に可能な範囲で参加する。

6) 麻酔科診療実習 (2-1 ~ 2-7, 3-1 ~ 3-7, 4-1 ~ 4-7)

(1) 麻酔管理中に遭遇する種々の症候・病態(上記2. 学修目標 - 1))に対する臨床推論、対応を指導医の診療を通して学ぶ。(2) 指導医の責任のもと、可能な範囲で実際の麻酔管理に参加する。

7) シミュレーション教育 (3-1 ~ 3-6, 4-1 ~ 4-7, 6-1 ~ 6-2)

(1) 高機能麻酔シミュレータを用いて反復練習することで、臨床技能を磨く。(2) シナリオを用いたトレーニングを通して、状況判断、意思決定能力を獲得する。(3) シミュレータを用いて静脈ライン確保、動脈穿刺、エコーガイド下区域麻酔、硬膜外麻酔を経験する。(4) 振り返りによって自己省察能力を高める。

8) コンピテンシー教育 (1-1 ~ 1-2, 2-4 ~ 2-6, 3-1 ~ 3-7, 4-1 ~ 4-7, 5-1 ~ 5-4, 6-1 ~ 6-2)

(1) 麻酔という患者の意識が消失してコミュニケーションが図れない環境において、患者の代弁者としてふるまうことで医師としての矜持(倫理、医療行動)を学ぶ。(2) 麻酔関連の合併症が生じた場合の対応を医療安全の概念を踏まえて理解する。(3) 外科医、看護師、臨床工学技士など多職種が業務を行う中でプロフェッショナリズムとチーム医療を学ぶ。(4) 最近の麻酔および周術期管理に関するエビデンスやガイドラインを学ぶ。

4. Textbook/Reference Books

Miller's Anesthesia 9th edition (Elsevier)

臨床麻酔科学書(中山書店)

標準麻酔科学 第7版(医学書院)

5. Assessment

Attitude, oral examination, OSCE, presentation, report (impression), 2 sentences, attendance, etc.

態度、口頭試問、OSCE、プレゼンテーション、レポート（感想文）、2 sentences、出席など

6. Out of Class Study/Message

1. CC2 requires more active participation in medical care than CC1.
2. Please study the matters immediately before the practical training in the clinical clerkship guide of our university.
3. Please fill in the experience procedure and notebook.
4. Please participate Pain clinic outpatient training (Wednesday, Thursday)
5. In the 3rd week, we will practice at the anesthesiology department of the related hospital (it may not be done depending on the infection status of covid-19).
6. Training content and schedule are subject to change. Be sure to contact us in advance.
7. On the first day, please meet at the conference room in the operating room at 7:45.

1. CC2 では、CC1 よりさらに積極的な診療への参加が求められます。
2. 本学のクリニカルクラークシップガイドにおける実習直前事項を学習してきてください。
3. 経験手技、手帳の記載を行ってください。
4. ペインクリニック外来実習（水曜日、木曜日）に参加してもらいます。
5. 関連病院麻酔科での実習を行います（covid-19 の感染状況次第では行われないこともあります）。
6. 実習内容や日程は変更されることがあります。必ず事前に連絡します。
7. 初日は 7 時 45 分、手術室内カンファレンスルームに集合してください。

Schedule		Contents of Class
1	Mon [07:45 - 17:00] Orientation Surgical anesthesia case training Subtitle オリエンテーション 手術麻酔症例実習 Instructor Yukitoshi Niiyama, Kyoko Abe, etc. (新山 幸俊、安部 恭子 ら)	07:45 - 08:45 Conference (review article reading, case presentation) 08:45 - 10:00 Surgical anesthesia case training 10:00 - 12:00 Orientation 12:00 - 13:00 Lunch 13:00 - 17:00 Surgical anesthesia case training, preoperative evaluation, anesthesia planning, and preparation of surgical patients 07:45 - 08:45 カンファレンス (総説抄読、症例提示) 08:45 - 10:00 手術麻酔症例実習 10:00 - 12:00 オリエンテーション 12:00 - 13:00 昼食 13:00 - 17:00 手術麻酔症例実習、手術患者の術前評価・麻酔計画・準備
2	Tue [08:00 - 17:00] Surgical anesthesia case training Practical skill Subtitle 手術麻酔症例実習 実技 Instructor Yukitoshi Niiyama, Koji Sato, etc. (新山 幸俊、佐藤 浩司 ら)	8:00 - 08:45 Conference (article reading, case presentation) 08:45 - 12:00 Surgical anesthesia case training 12:00 - 13:00 Lunch 13:00 - 14:30 Practical skill 14:30 - 17:00 Surgical anesthesia case training, preoperative evaluation, anesthesia planning, and preparation of surgical patients 08:00 - 08:45 カンファレンス (論文抄読、症例提示) 08:45 - 12:00 手術麻酔症例実習 12:00 - 13:00 昼食 13:00 - 14:30 実技 14:30 - 17:00 手術麻酔症例実習、手術患者の術前評価・麻酔計画・準備
3	Wed [08:00 - 17:00] Surgical anesthesia case training (Pain clinic outpatient training) Subtitle 手術麻酔症例実習 (ペインクリニック外来実習) Instructor Natsuko Yamamoto, Maiko Nakajima, etc. (山本 夏子、中島 麻衣子 ら)	08:00 - 08:45 Conference (case review, case presentation) 08:45 - 12:00 Surgical anesthesia case training (09:00 - 12:00 Pain clinic outpatient training) 12:00 - 13:00 Lunch 13:00 - 17:00 Surgical anesthesia case training, preoperative evaluation, anesthesia planning, and preparation of surgical patients 08:00 - 08:45 カンファレンス (症例検討、症例提示) 08:45 - 12:00 手術麻酔症例実習 (09:00 - 12:00 ペインクリニック外来実習) 12:00 - 13:00 昼食 13:00 - 17:00 手術麻酔症例実習、手術患者の術前評価・麻酔計画・準備
4	Thu [08:00 - 17:00] Surgical anesthesia case training (Pain clinic outpatient training) Subtitle 手術麻酔症例実習 (ペインクリニック外来実習) Instructor Tetsu Kimura, Natsuko Yamamoto, etc. (木村 哲、山本 夏子 ら)	08:00 - 08:45 Conference (article reading, case presentation) 08:45 - 12:00 Surgical anesthesia case training (09:00 - 12:00 Pain clinic outpatient training) 12:00 - 13:00 Lunch 13:00 - 17:00 Surgical anesthesia case training, preoperative evaluation, anesthesia planning, and preparation of surgical patients. 08:00 - 08:45 カンファレンス (論文抄読、症例提示) 08:45 - 12:00 手術麻酔症例実習 (09:00 - 12:00 ペインクリニック外来実習) 12:00 - 13:00 昼食 13:00 - 17:00 手術麻酔症例実習、手術患者の術前評価・麻酔計画・準備
5	Fri [08:00 - 17:00] Surgical anesthesia case training Subtitle 手術麻酔症例実習 Instructor Yuta Horikoshi, Sahoko Kodama, etc. (堀越 雄太、小玉 早穂子 ら)	08:00 - 08:45 Conference (article reading, case presentation) 08:45 - 12:00 Surgical anesthesia case training 12:00 - 13:00 Lunch 13:00 - 17:00 Preparation for presentation 08:00 - 08:45 カンファレンス (論文抄読、症例提示) 08:45 - 12:00 手術麻酔症例実習 12:00 - 13:00 昼食 13:00 - 17:00 プレゼンテーション準備

Schedule		Contents of Class
6	Mon [07:45 - 17:00] Surgical anesthesia case training Subtitle 手術麻酔症例実習 Instructor Kyoko Abe, Koji Sato, etc. (安部 恭子、佐藤 浩司 ら)	07:45 - 08:45 Conference (review article reading, case presentation) 08:45 - 12:00 Surgical anesthesia case training 12:00 - 13:00 Lunch 13:00 - 17:00 Surgical anesthesia case training, preoperative evaluation, anesthesia planning, and preparation of surgical patients 07:45 - 08:45 カンファレンス (総説抄読、症例提示) 08:45 - 12:00 手術麻酔症例実習 12:00 - 13:00 昼食 13:00 - 17:00 手術麻酔症例実習、手術患者の術前評価・麻酔計画・準備
7	Tue [08:00 - 17:00] Surgical anesthesia case training Simulator training Case training Subtitle 手術麻酔症例実習 麻酔シミュレータ実習 Instructor Kyoko Abe, Yuta Horikoshi, etc. (安部 恭子、堀越 雄太 ら)	08:00 - 08:45 Conference (reading article, case presentation) 08:45 - 09:30 Surgical anesthesia case training 09:30 - 12:00 Anesthesia simulator training (OSCE) 12:00 - 13:00 Lunch 13:00 - 17:00 Surgical anesthesia case training, preoperative evaluation, anesthesia planning, and preparation of surgical patients 08:00 - 08:45 カンファレンス (論文抄読、症例提示) 08:45 - 09:30 手術麻酔症例実習 09:00 - 12:00 麻酔シミュレータ実習 (OSCE) 12:00 - 13:00 昼食 13:00 - 17:00 手術麻酔症例実習、手術患者の術前評価・麻酔計画・準備
8	Wed [08:00 - 17:00] Surgical anesthesia case training (Pain clinic outpatient training) Subtitle 手術麻酔症例実習 (ペインクリニック外来実習) Instructor Natsuko Yamamoto, Maiko Nakajima, etc. (山本 夏子、中島 麻衣子 ら)	08:00 - 08:45 Conference (case review, case presentation) 08:45 - 12:00 Surgical anesthesia case training (09:00 - 12:00 Pain clinic outpatient training) 09:00 - 12:00 Pain clinic outpatient training 12:00 - 13:00 Lunch 13:00 - 17:00 Surgical anesthesia case training, preoperative evaluation, anesthesia planning, and preparation of surgical patients 08:00 - 08:45 カンファレンス (症例検討、症例提示) 08:45 - 12:00 手術麻酔症例実習 (09:00 - 12:00 ペインクリニック外来実習) 12:00 - 13:00 昼食 13:00 - 17:00 手術麻酔症例実習、手術患者の術前評価・麻酔計画・準備
9	Thu [08:00 - 17:00] Surgical anesthesia case training (Pain clinic outpatient training) Subtitle 手術麻酔症例実習 (ペインクリニック外来実習) Instructor Tetsu Kimura, Natsuko Yamamoto, etc. (木村 哲、山本 夏子 ら)	08:00 - 08:45 Conference (reading article, case presentation) 08:45 - 12:00 Surgical anesthesia case training (09:00 - 12:00 Pain clinic outpatient training) 09:00 - 12:00 Pain clinic outpatient training 12:00 - 13:00 Lunch 13:00 - 17:00 Surgical anesthesia case training, preoperative evaluation, anesthesia planning, and preparation of surgical patients 08:00 - 08:45 カンファレンス (論文抄読、症例提示) 08:45 - 12:00 手術麻酔症例実習 (09:00 - 12:00 ペインクリニック外来実習) 12:00 - 13:00 昼食 13:00 - 17:00 手術麻酔症例実習、手術患者の術前評価・麻酔計画・準備
10	Fri [08:00 - 17:00] Surgical anesthesia case training Subtitle 手術麻酔症例実習 Instructor Yuta Horikoshi, Sahoko Kodama, etc. (堀越 雄太、小玉 早穂子 ら)	08:00 - 08:45 Conference (reading article, case presentation) 08:45 - 12:00 Surgical anesthesia case training 12:00 - 13:00 Lunch 13:00 - 17:00 Preparation for presentation 08:00 - 08:45 カンファレンス (論文抄読、症例提示) 08:45 - 12:00 手術麻酔症例実習 12:00 - 13:00 昼食 13:00 - 17:00 プレゼンテーション準備

Schedule		Contents of Class
11	Mon [07:45 - 17:00] Surgical anesthesia case training Subtitle 手術麻酔症例実習 Instructor Kyoko Abe, Koji Sato, etc. (安部 恭子、佐藤 浩司ら)	07:45 - 08:45 Conference (review article reading, case presentation) 08:45 - 12:00 Surgical anesthesia case training 12:00 - 13:00 Lunch 13:00 - 17:00 Surgical anesthesia case training, preoperative evaluation, anesthesia planning, and preparation of surgical patients 07:45 - 08:45 カンファレンス (総説抄読、症例提示) 08:45 - 12:00 手術麻酔症例実習 12:00 - 13:00 昼食 13:00 - 17:00 手術麻酔症例実習、手術患者の術前評価・麻酔計画・準備
12	Tue [08:00 - 17:00] Surgical anesthesia case training Nitrous oxide inhalation experience Subtitle 手術麻酔症例実習 笑気実習 Instructor Yukitoshi Niiyama, Sahoko Kodama, etc. (新山 幸俊、小玉 早穂子ら)	08:00 - 08:45 Conference (article reading, case presentation) 08:45 - 09:30 Surgical anesthesia case training 09:30 - 11:00 Nitrous oxide inhalation experience 11:00 - 13:00 Lunch 13:00 - 17:00 Surgical anesthesia case training, preoperative evaluation, anesthesia planning, and preparation of surgical patients 08:00 - 08:45 カンファレンス (論文抄読、症例提示) 08:45 - 09:30 手術麻酔症例実習 09:30 - 11:00 笑気実習 11:00 - 13:00 昼食 13:00 - 17:00 手術麻酔症例実習、手術患者の術前評価・麻酔計画・準備
13	Wed [08:00 - 17:00] Surgical anesthesia case training (Pain clinic outpatient training) Subtitle 手術麻酔症例実習 (ペインクリニック外来実習) Instructor Natsuko Yamamoto, Maiko Nakajima, etc. (山本 夏子、中島 麻衣子ら)	08:00 - 08:45 Conference (case review, case presentation) 08:45 - 12:00 Surgical anesthesia case training (09:00 - 12:00 Pain clinic outpatient training) 12:00 - 13:00 Lunch 13:00 - 17:00 Surgical anesthesia case training, preoperative evaluation, anesthesia planning, and preparation of surgical patients 08:00 - 08:45 カンファレンス (症例検討、症例提示) 08:45 - 12:00 手術麻酔症例実習 (09:00 - 12:00 ペインクリニック外来実習) 12:00 - 13:00 昼食 13:00 - 17:00 手術麻酔症例実習、手術患者の術前評価・麻酔計画・準備
14	Thu [08:00 - 17:00] Surgical anesthesia case training (Pain clinic outpatient training) Subtitle 手術麻酔症例実習 (ペインクリニック外来実習) Instructor Tetsu Kimura, Natsuko Yamamoto, etc. (木村 哲、山本 夏子ら)	08:00 - 08:45 Conference (article reading, case presentation) 08:45 - 12:00 Surgical anesthesia case training (09:00 - 12:00 Pain clinic outpatient training) 12:00 - 13:00 Lunch 13:00 - 17:00 Surgical anesthesia case training, preoperative evaluation, anesthesia planning, and preparation of surgical patients 08:00 - 08:45 カンファレンス (論文抄読、症例提示) 08:45 - 12:00 手術麻酔症例実習 (09:00 - 12:00 ペインクリニック外来実習) 12:00 - 13:00 昼食 13:00 - 17:00 手術麻酔症例実習、手術患者の術前評価・麻酔計画・準備
15	Fri [08:00 - 17:00] Surgical anesthesia case training Subtitle 手術麻酔症例実習 Instructor Yuta Horikoshi, Sahoko Kodama, etc. (堀越 雄太、小玉 早穂子ら)	08:00 - 08:45 Conference (article reading, case presentation) 08:45 - 12:00 Surgical anesthesia case training 12:00 - 13:00 Lunch 13:00 - 17:00 Preparation for presentation 08:00 - 08:45 カンファレンス (論文抄読、症例提示) 08:45 - 12:00 手術麻酔症例実習 12:00 - 13:00 昼食 13:00 - 17:00 プレゼンテーション準備

Schedule		Contents of Class
16	Mon [07:45 - 17:00] Surgical anesthesia case training Preoperative medical examination training 手術麻酔症例実習 術前診察実習 Kyoko Abe, Koji Sato, etc. (安部 恭子、佐藤 浩司ら)	07:45 - 08:45 Conference (review article reading, case presentation) 08:45 - 12:00 Surgical anesthesia case training, preoperative medical examination training 12:00 - 13:00 Lunch 13:00 - 17:00 Surgical anesthesia case training, preoperative evaluation, anesthesia planning, and preparation of surgical patients 07:45 - 08:45 カンファレンス (総説抄読、症例提示) 08:45 - 12:00 手術麻酔症例実習、術前診察実習 12:00 - 13:00 昼食 13:00 - 17:00 手術麻酔症例実習、手術患者の術前評価・麻酔計画・準備
17	Tue [08:00 - 17:00] Surgical anesthesia case training Preoperative medical examination training Simulator training Case training 手術麻酔麻酔 術前診察実習 シミュレータ実習症例実習 Koji Sato, Yuta Horikoshi, etc. (佐藤 浩司、堀越 雄太ら)	08:00 - 08:45 Conference (article reading, case presentation) 08:45 - 09:30 Surgical anesthesia case training 09:30 - 12:00 Anesthesia simulator training (OSCE) 12:00 - 13:00 Lunch 13:00 - 17:00 Surgical anesthesia case training, preoperative evaluation, anesthesia planning, and preparation of surgical patients 08:00 - 08:45 カンファレンス (論文抄読、症例提示) 08:45 - 09:30 手術麻酔症例実習 09:30 - 12:00 麻酔シミュレータ実習 (OSCE) 12:00 - 13:00 昼食 13:00 - 17:00 手術麻酔症例実習、手術患者の術前評価・麻酔計画・準備
18	Wed [08:00 - 17:00] Surgical anesthesia case training (Pain clinic outpatient training) Preoperative medical examination training 手術麻酔症例実習 (ペインクリニック外来実習) 術前診察実習 Natsuko Yamamoto, Maiko Nakajima, etc. (山本 夏子、中島 麻衣子ら)	08:00 - 08:45 Conference (case review, case presentation) 08:45 - 12:00 Surgical anesthesia case training, preoperative medical examination training (09:00 - 12:00 Pain clinic outpatient training) 12:00 - 13:00 Lunch 13:00 - 17:00 Surgical anesthesia case training, preoperative evaluation, anesthesia planning, and preparation of surgical patients 08:00 - 08:45 カンファレンス (症例検討、症例提示) 08:45 - 12:00 手術麻酔症例実習、術前診察実習 (09:00 - 12:00 ペインクリニック外来実習) 12:00 - 13:00 昼食 13:00 - 17:00 手術麻酔症例実習、手術患者の術前評価・麻酔計画・準備
19	Thu [08:00 - 17:00] Surgical anesthesia case training (Pain clinic outpatient training) Preoperative medical examination training Postoperative medical examination training 手術麻酔症例実習 (ペインクリニック外来実習) 術前診察実習 Yukitoshi Niiyama, Tetsu Kimura, Natsuko Yamamoto, etc. (新山 幸俊、木村 哲、山本 夏子ら)	08:00 - 08:45 Conference (article reading, case presentation) 08:45 - 12:00 Surgical anesthesia case training, preoperative medical examination training (09:00 - 12:00 Pain clinic outpatient training) 12:00 - 13:00 Lunch 13:00 - 17:00 Postoperative medical examination training, surgical anesthesia case training, preoperative evaluation, anesthesia planning, and preparation of surgical patients 08:00 - 08:45 カンファレンス (論文抄読、症例提示) 08:45 - 12:00 手術麻酔症例実習、術前診察実習 (09:00 - 12:00 ペインクリニック外来実習) 12:00 - 13:00 昼食 13:00 - 17:00 術後診察実習、手術麻酔症例実習、手術患者の術前評価・麻酔計画・準備

Schedule		Contents of Class
20	Fri [08:00 - 12:00]	08:00 - 08:45 Conference (article reading, case presentation)
	Summary	08:45 - 10: 00 Surgical anesthesia case training
	Presentation	10:00 - 12:00 Summary, presentation of learning content, submission of impressions
Subtitle	総括 プレゼンテーション	08:00 - 08:45 カンファレンス（論文抄読、症例提示）
Instructor	Yukitoshi Niiyama, Yuta Horikoshi, etc.（新山 幸俊、堀越 雄太ら）	08:45 - 10:00 手術麻酔症例実習
		10:00 - 12:00 総括、学習内容プレゼンテーション、感想文提出