

## 第5章. 公開国際シンポジウム

令和6年度と7年度の調査結果を基に、診療参加型臨床実習の充実に貢献するため、国際シンポジウムを開催して、我が国と海外における臨床実習の内容を紹介し、国内外の研究者間で総合討論する機会を設けた。プログラムを下記に示す。各演者の講演発表スライドを、許可を得た上で掲載する。

令和7年度文部科学省委託事業「大学における医療人養成の在り方に関する調査研究」  
「診療参加型臨床実習の充実に目的とした指導医養成プログラムの開発と展開」  
公開国際シンポジウム（同時通訳付き）  
“Clinical clerkship for future medical care providers”


開催期日： 2025年11月22日（土）13:00~17:00

開催場所： 東京科学大学（旧：東京医科歯科大学）歯学部特別講堂

〈司会〉 富木裕一（順天堂大学教授）

- 13:00 開会の辞  
奈良信雄（委託事業責任者）  
文部科学省挨拶  
日比謙一郎（文部科学省医学教育課長）  
厚生労働省挨拶  
中田勝己（厚生労働省医事課長）  
Thomas Jefferson 大学挨拶  
Said Ibrahim（同大学 医学部長）
- 13:30 基調講演  
〈座長〉 奈良信雄（日本医学教育評価機構常勤理事）  
“A Historical Perspective on Clinical Training in U.S. Medical Education”  
Charles Pohl（Thomas Jefferson 学務部統括部長）
- 調査研究成果発表  
〈座長〉 鈴木利哉（大学改革支援・学位授与機構特任教授）
- 14:00 日本における診療参加型臨床実習の現状と課題：とくに指導医養成の在り方  
奈良信雄（日本医学教育評価機構常勤理事）
- 14:20 臨床実習における臨床現場での学生評価、教員の指導実績評価  
Workplace-based assessments in clinical clerkship: from trainees' and  
trainers' perspective  
山脇正永（東京科学大学教授）
- 14:40 質疑応答
- 14:50 休憩
- パネルディスカッション  
〈司会〉 錦織 宏（日本医学教育学会理事長）  
佐藤隆美（Thomas Jefferson 大学教授）
- 15:00 Clinical clerkship curriculum and outcome evaluation in a medical school in the US  
Wayne Bond Lau（Thomas Jefferson 大学教授）
- 15:20 Faculty development for clinical skill teaching  
Dimitrios Papanagnou（Thomas Jefferson 大学教授）
- 15:40 総合討論・質疑応答
- 17:00 閉会の辞  
奈良信雄（委託事業責任者）

## 国際シンポジウム 1



# An Overview of Clinical Training in US Medical Education

*(Japanese International Symposium supported by the Ministry of Education)*

Charles A. Pohl, MD  
Senior Vice Provost of Students Affairs and Executive Director of Jefferson Japan Center - Thomas Jefferson University  
Vice Dean and Professor of Pediatrics - Sidney Kimmel Medical College at Thomas Jefferson University

PHOTO: SIDNEY KIMMEL MEDICAL COLLEGE




**Shohei Ohtani**  
MLB Los Angeles Dodgers

- Passion
- Goal setting/dedication/discipline
- Precision training to master the craft
- Continuous learning & improvement through hands on experience
- Gratitude

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## The Consummate Physician

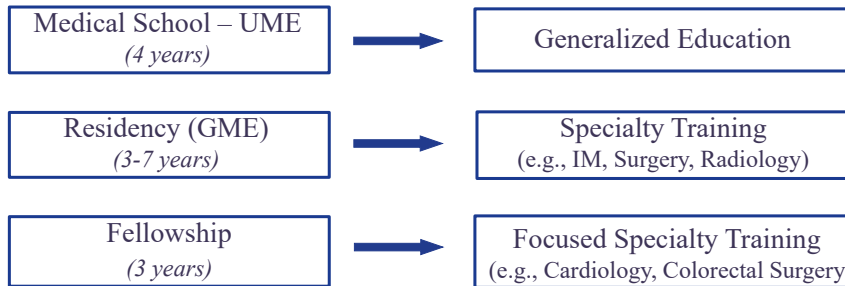


**The Doctor**  
Sir Luke Fildes  
1891, Oil & Canvas

- Passion
- Goal setting/dedication/discipline
- Precision training to master the craft
- Continuous learning & improvement through hands on experience
- Gratitude

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**Overview of American Medical Education:  
How We Educated Future Physician**



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**Medical Education Curriculum:  
Mission & Philosophy**

- Teach knowledge, skills and attitudes to become a competent physician & specialist in chosen field  
*(i.e., UME; GME – surgery, pediatrics, ...)*
- Provide broad-base exposure  
*(basic and clinical medical sciences; general medicine, critical care, and subspecialty care)*
- Promote and cultivate professional behavior
- Instill skills in life-long learning, patient advocacy, cost-effective care, teaching and leadership

*Source: Ama-assn.org; LCME*

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**Principles of Medical Education:  
Core Competencies**

- Patient Care
- Medical Knowledge
- Professionalism
- Interpersonal and Communication Skills
- Practice Based Learning and Improvement
- Systems Based Practice

- *Now adopted by medical schools, residencies & hospital accreditation*
- *Drives curriculum*
- *Includes Milestones (developmental roadmap) – necessary to achieve to progress*

*Source: ACGME Statistics, www.acgme.org*

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*Founding Principle of Jefferson medical college:  
Students Learn by Participating in Care of Patients*



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*Continuum of Core Competencies*

- Initially general exposure & introduction of skills
- Increasing specialty exposure/complexity of problems
- Increasing patient care responsibility & clinical oversight
- Individual variation

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*Team Members' Responsibility in Patient Care*

- **Medical Student** – *directly supervised*
- **Intern (1<sup>st</sup> year resident)** – *supervised; manages patient's care and provides education*
- **Senior Resident** – *supervises patient care and educates the team*
- **Faculty Member** – *team manager who is ultimately responsible for patient care and educates all of learners*

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*Continuum of Core Competencies & Roles in Medical Education: Example*

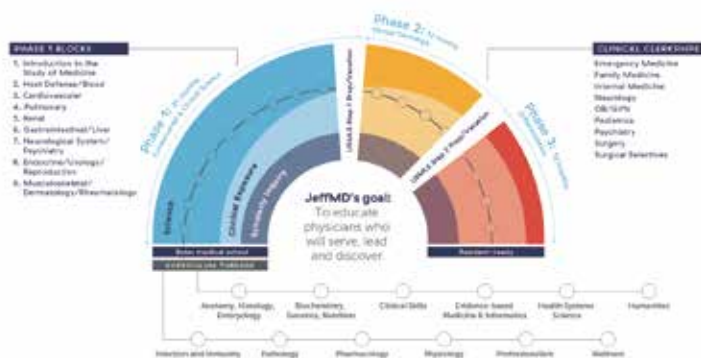
65-year-old woman with history of hypertension and elevated cholesterol is admitted with progressive dyspnea with exertion, orthopnea, fatigue and weakness. CXR is consistent with congestive heart failure. ECG/ECHO with reduced cardiac function and myocardial ischemia.

*Continuum of Core Competencies & Roles in Medical Education: Example*

- Medical Student
- Intern (first-year resident)
- Senior Resident
- Faculty Member

Thomas Jefferson University | *Innovating Curricula Drivers*

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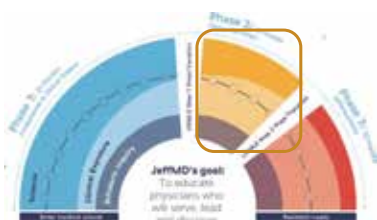


Phase 1



- Shortened 21-month period
- Organ system (normal/abnormal) with interweaving basic science, clinical science and health system
- Self-directive learning/small group
- Early patient contact
- Clinical skill sessions
- Scholarly inquiry projects to cultivate critical thinking

Phase 2



- Clerkships: 12-week blocks
- Internal Medicine/Neurology
  - Family Medicine/Psychiatry
  - Surgery/Surgical Subspecialty/Emergency Medicine
  - Obstetrics/Gynecology/Pediatrics

Phase 3



- Additional 12-weeks for clinical education and research endeavors
- Refining specialty-specific skills
- Residency application

Clinical Skills Center:  
No longer “See One, Do One, Teach One”



Role of Clinical Skills



Teach & Assess

- Communication skills
- Critical thinking
- Delivery of bad news
- Technical skills (IV, central lines, endoscopy)

## GME Specialty Training

- **Educational Sessions** – weekly expert lectureship, daily case presentations, daily core teaching conferences, weekly ambulatory lectures, monthly patient safety & ethical discussions, monthly EBM journal clubs)
- **Clinical Skills Teaching** – direct observation, mock codes, procedure days, teamwork training, certifications (e.g., ACLS, ATLS)
- **Direct Patient Care** – general and subspecialty exposure family-centered team rounds
- **Evaluation / Feedback** – multidirectional; resident (program, national boards, ABS), faculty (resident, LCME), program (resident, ACGME, ABS)
- **Required Graduation Project**

## Clinical Training in US Medical Education



- Physicians provide high-quality care for patients
- US medical students are fully integrated into the patient-care team > learn, actively apply and refine their skills to master the core competencies of a physician
- Close supervision & continual feedback ensures high-quality and safe care

日本における診療参加型臨床実習の現状と課題：  
とくに指導医養成の在り方

日本医学教育評価機構常勤理事  
順天堂大学医学部客員教授  
東京医科歯科大学名誉教授  
奈良 信雄

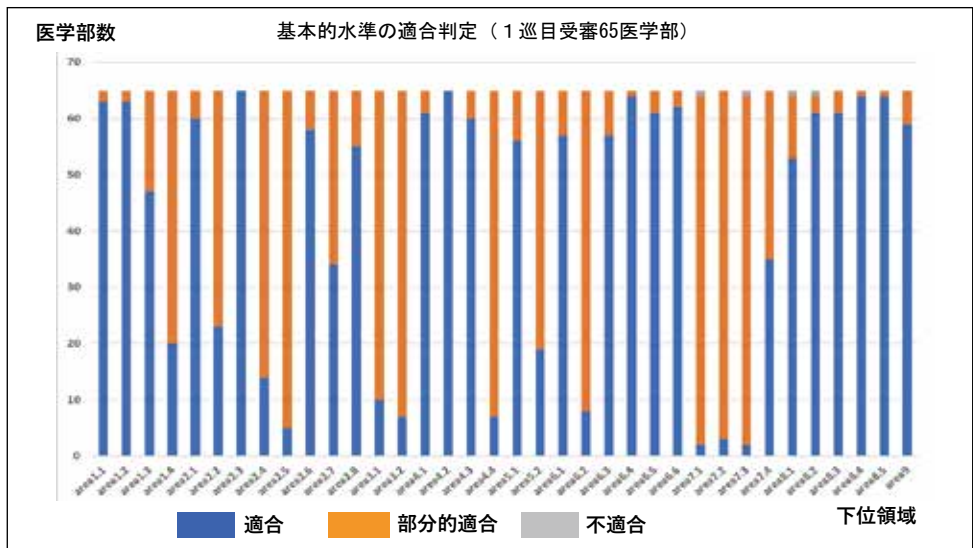
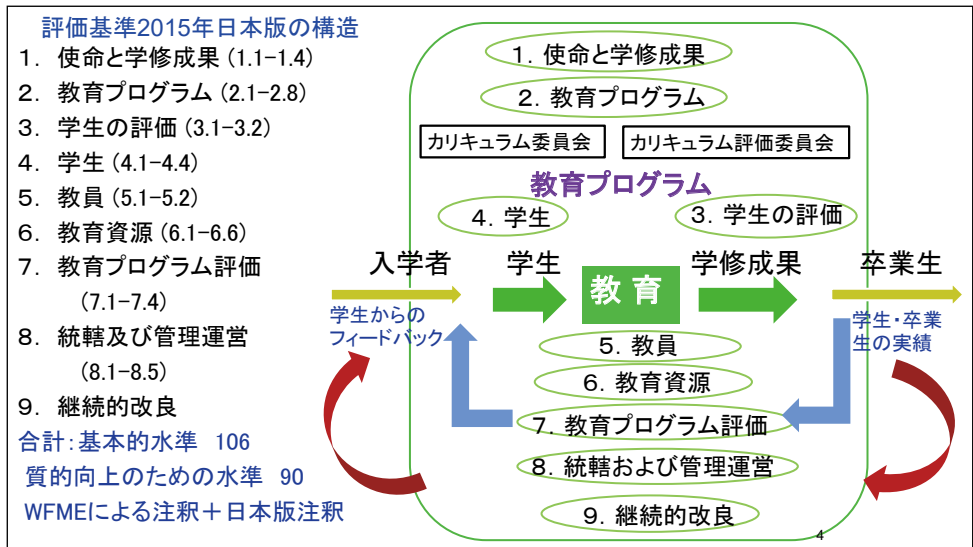


1975年 東京医科歯科大学医学部卒、第一内科入局  
1976年 横浜赤十字病院内科医師  
1983年 カナダトロント大学オンタリオ癌研究所留学  
1994年 東京医科歯科大学臨床検査医学講座教授  
2002年 全国共同利用医歯学教育システム研究センター教授(兼任)  
2006年 同 センター長  
2015年 順天堂大学特任教授、東京医科歯科大学名誉・特命教授、  
大学改革支援・学位授与機構特任教授  
2017年～現在 日本医学教育評価機構常勤理事、  
順天堂大学客員教授、東京医科歯科大学名誉教授  
**役職等:** 文科省大学設置医学専門委員会主査、同医学教育モデル  
コアカリキュラム連絡調整委員、厚労省医師国家試験改善検討部会  
委員、全国医学部長病院長会議教育カリキュラム調査委員長、同医  
学教育質保証検討委員長、医学教育カリキュラム検討会委員等歴任  
**学会:** 日本血液学会功労会員、日本医学教育学会名誉会員、  
日本シミュレーション医療教育学会名誉会員等  
**賞:** 日本医学教育学会日野原賞受賞

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I. 医学教育評価から見た我が国の  
医学部における臨床実習での課題

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1巡目評価で部分的適合判定が多い項目

領域 (下位領域)	指摘内容
2.2	EBM教育が臨床実習で実践されていない。
2.4	系統立てられた行動科学教育が実施されていない。
2.5	期間・内容共に診療参加型臨床実習が充実していない。
3.1	技能・態度の評価が適切に行われていない。
3.2	学修を促進する学生評価が適切に実施されていない。
4.4	教学に関わる委員会への学生の参加が十分でない。
5.2	教員の能力開発(FD)が十分とはいえない。
7	教育プログラム評価が実質化されていない。

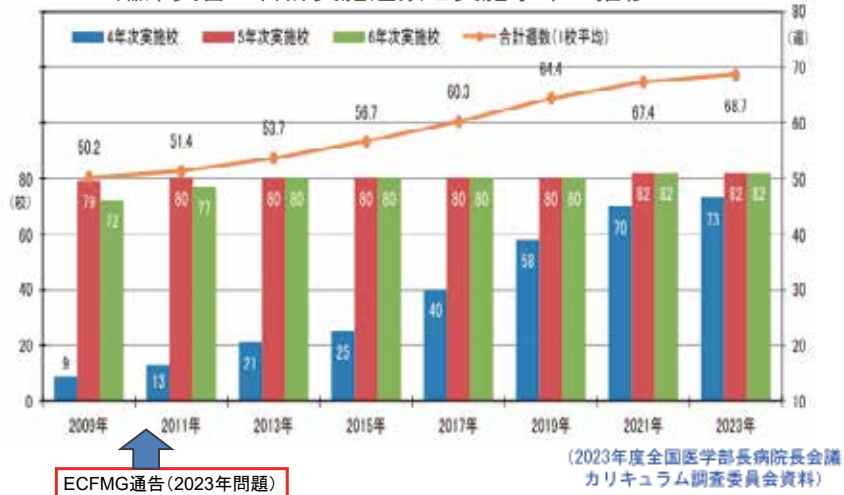
参考文献1) 奈良 信雄: 日本医学教育評価機構による医学教育評価—1巡目評価の総括と今後の展開。医学教育2025, 56(2): 125~132

参考文献2) Nobuo Nara: Impact of accreditation on medical education quality improvement in 82 medical schools in Japan: a descriptive study. J Educ Eval Health Prof 2025;22:22  
<https://doi.org/10.3352/jeehp.2025.22.22>

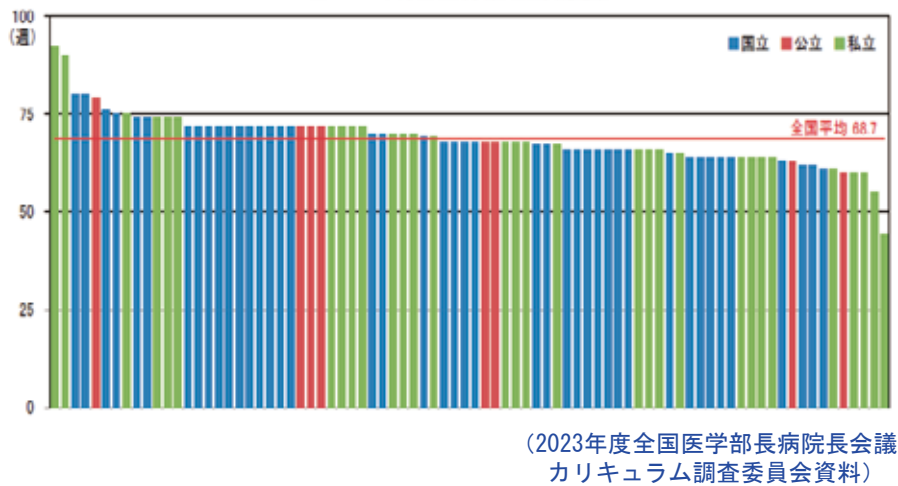
## Ⅱ. 我が国医学部における臨床実習の現状

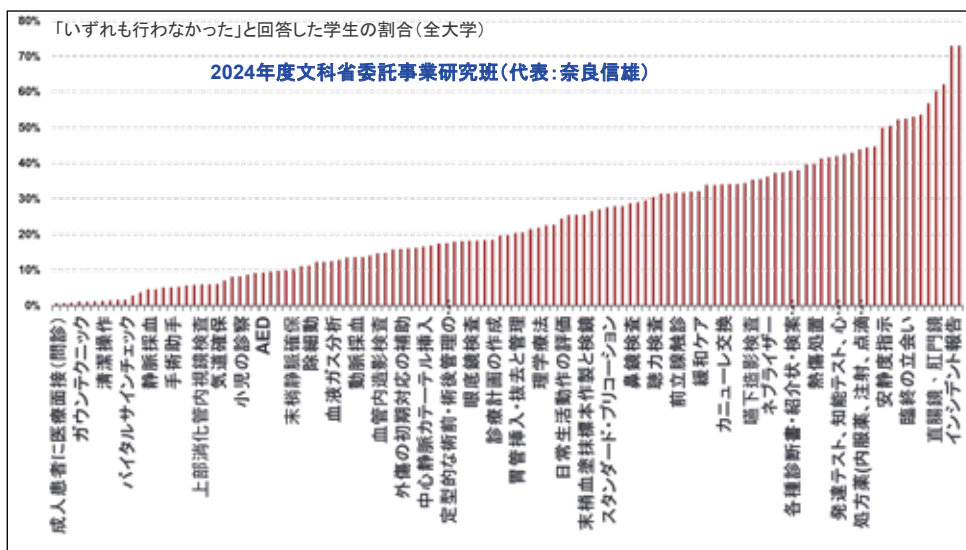
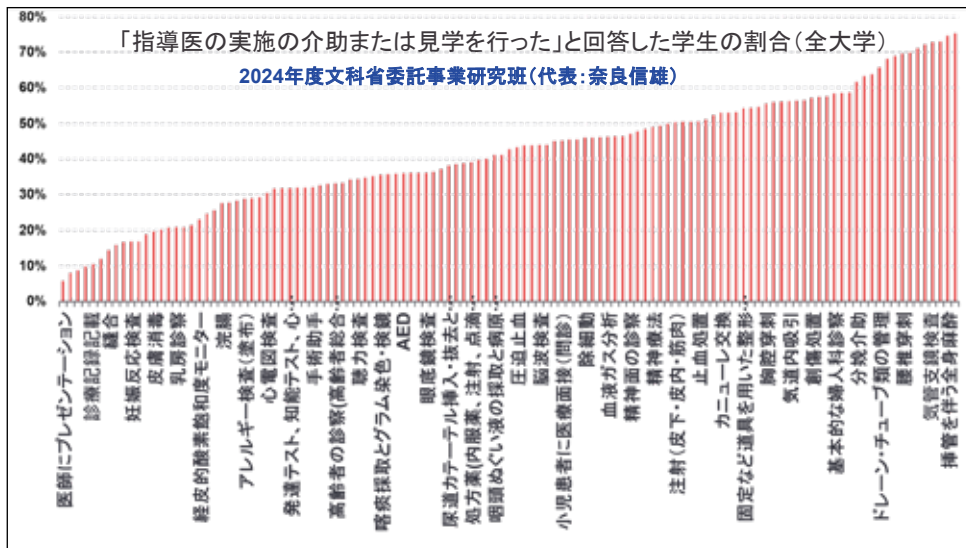
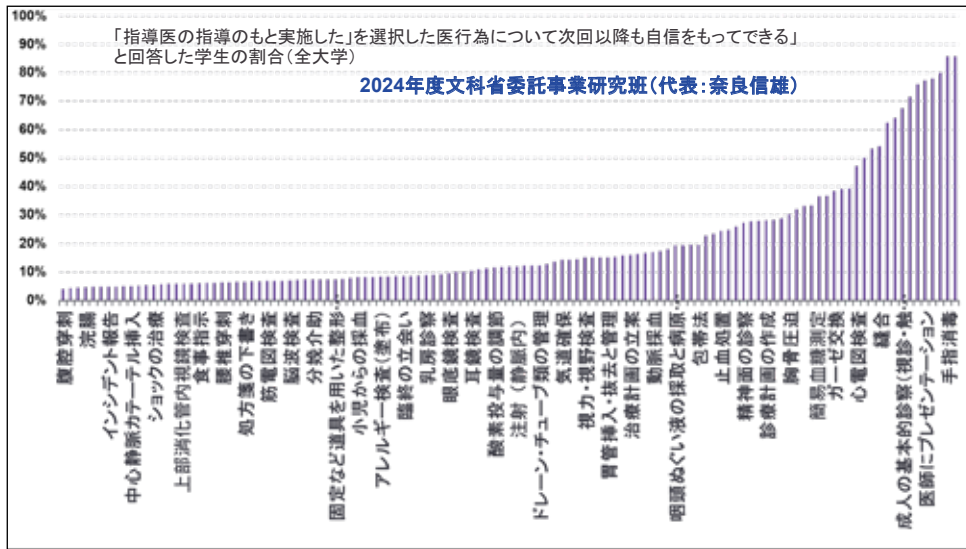
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臨床実習の合計実施週数と実施学年の推移



■ 図 9-B-3 大学別 臨床実習 合計実施週数

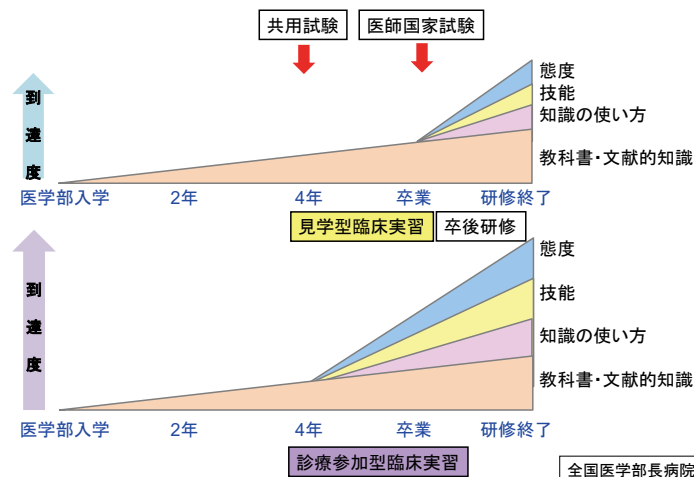




### Ⅲ. 臨床研修にスムーズに移行できる “診療参加型臨床実習”

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#### 診療参加型臨床実習への移行による学修面でのメリット



#### 臨床実習の充実

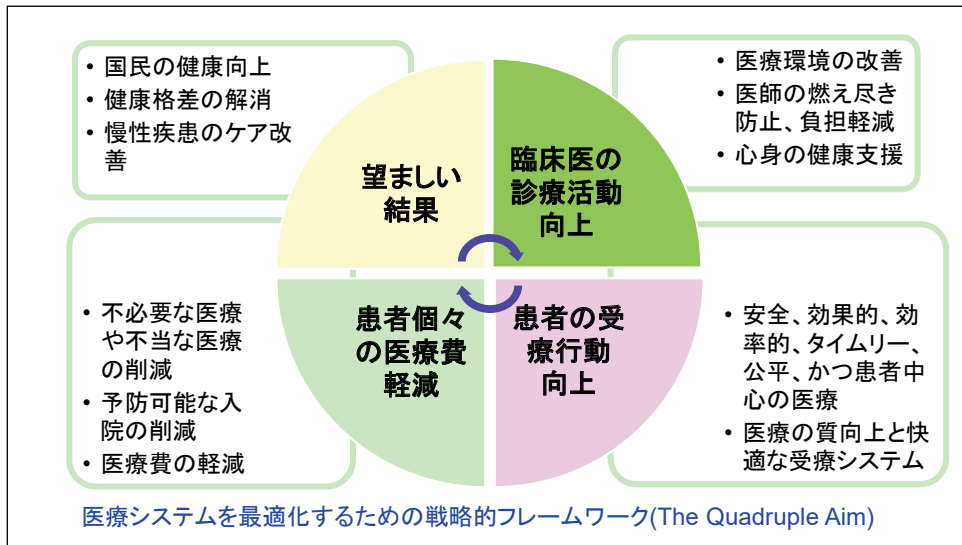
卒前 - 卒後のシームレスな医師養成を推進するには、卒前の臨床実習を充実させ、医学生に基本的診療技能を確実に修得させれば、より効果的な臨床研修、専門医研修につながり、わが国の医療レベル向上が期待できる。

臨床実習の有り様の変革: 見学型から診療参加型臨床実習へ

##### Clinical Clerkship

- 実務を体験していない者には実務を任せられない(USA):  
医学部だけでなく、法学部なども。
- clerk a patient = 患者から問診記録をとる
- 臨床能力 medical competency  
日本の研修終了時 ≒ USAの医学部卒業時

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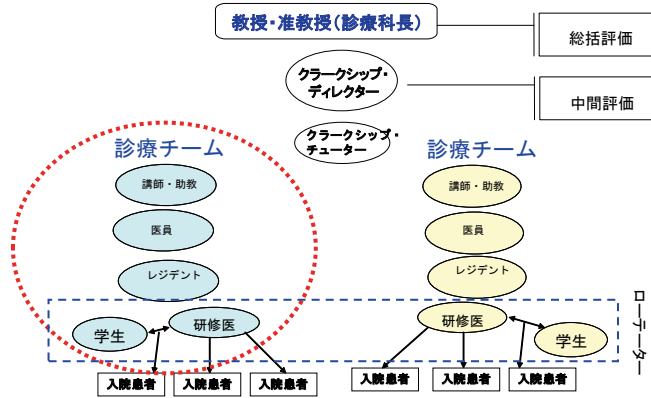
#### IV. 臨床実習指導医のあり方

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##### 診療参加型臨床実習が充実されていない理由

- 臨床実習のあり方（システム）
  - ・従来の見学型臨床実習システムを踏襲する医学部・臨床実習施設が多い
  - ・医学部として診療参加型臨床実習の意義と必要性についての認識不足
  - ・医学生の医行為実施に対する病院や指導医の法的理解不足
  - ・現在の医療ではチーム医療体制が十分には確立されていない
- 臨床実習指導医
  - ・診療参加型臨床実習のあり方に対する理解不足
  - ・指導医数の不足
  - ・教員・指導医の負担の問題
  - ・教育活動に対する適正な評価が不十分
- 学生
  - ・学生の消極的参加
- 患者
  - ・患者の同意、協力が得られにくい
- 施設・設備
  - ・学生が使用できる電子カルテ端末、実習室などの不足

## クラークシップの指導体制



McGill Univ.  
Attending 1  
Senior resident 2  
Junior residents 2~3  
Students 2

## 臨床実習指導体制

診療参加型臨床実習では、学生は研修医とペアになって患者の診療に参加することが重要。指導医からフィードバックを受けること。

日々の診療内容を診療録(電子カルテ)に直接記載し、研修医、指導医のチェック、フィードバックを受ける必要がある。

診療録には、SOAP形式に則って、病歴、身体所見、検査所見等を的確に記載し、それぞれの所見に対する考察、考察に基づいた鑑別診断、診断、治療計画立案、患者・家族等への指導計画が明確に記述すべきである。診療録の記載内容は指導医のチェック、フィードバックを受け、正確を期すとともに、診療能力を高めるようにする(臨床推論能力の涵養!!)

カンファレンスにも学生は参加し、受け持ち患者の症例プレゼンテーションを行い、診療科責任医師、指導医、研修医、看護師など他職種からのフィードバックを受けることが望まれる。

学生は足手まとい ➡ 学生を手足として使う

臨床実習で行うべき医行為

○患者診察、カルテ記載、臨床推論、プレゼン

○基本手技

×侵襲的医療手技

## 学生評価

“評価が学修を促進する”：時宜を得た適切な評価は、学生の学修意欲を刺激し、学修成果を向上させる。

診療参加型臨床実習では、診療現場でのフィードバック、評価が重要。

(各場面に応じて形成的評価を駆使し、学生の優れた点は伸ばし、改善すべきことはその都度指摘)。適正な評価、学生の臨床能力が向上する。

臨床実習現場での学生評価(Workplace-based Assessment)：

Mini-CEX(Mini-Clinical Evaluation Exercise)、DOPS(Direct Observation of Procedural Skills)、CbD(Case-based Discussion)、360度評価などを適宜実施し、学生の学修成果を評価して、学修意欲の促進につなげる。

なお、臨床実習では、学生がプロフェッショナリズムを十分に理解し、遵守すべきである。もしもプロフェッショナリズムに反するような行動を学生がとっていけば、その場で指摘し、改善を促すべきである(医師は社会的責任を負っている!!)。

## V. 診療参加型臨床実習のGood Practice

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### A) 内科臨床実習

- ・学生は研修医とペアになって実診療に参加
- ・10名／週の患者を担当
- ・毎日患者を診察し、検査にも立ち会う。
- ・電子カルテに記載し、指導医のチェックを受けて本カルテになる。
- ・場合によっては臨終に立ち会ったり、患者への説明にも同席（夜遅くなることもあり）
- ・クルズス(ミニレクチャー)は全くない。
- ・カルテ記載の内容を教授がチェックし、形成的かつ総括的評価を行う。
- ・学生の満足度は極めて高い。  
(患者によっては合併症等もあり、多くの疾患と病態を経験できた)

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### B) 総合診療科 (Longitudinal Integrated Clerkship: LIC)

- ・提携した関連教育病院で3ヶ月の実習(外来、病棟、救急、在宅)
- ・指導医の監督の下、実臨床(とくにプライマリ・ケア)に参加
- ・初期臨床研修医とほぼ同等の学修成果を得られる。
- ・急性期入院～退院～訪問診療とさまざまphaseに参加できる。
- ・長期間同じ病院に所属することで、多くの患者を診療し、かつ医行為の実施も体験。学生は戦力にもなる!!
- ・地域包括ケア、終末期医療等にも参加
- ・学生の満足度は極めて高い(3ヶ月で十分に実力がつく)
- ・指導医の感想: 学生は月日が経つごとにメキメキ実力をつけている。  
指導医の負担感は少なく、むしろ学生が役立つことも多い。

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### C) 外科臨床実習

	8:00	8:30	9:00	9:30	10:00	11:00	12:00	13:00	14:00	15:00	16:00
Day 1	病棟カンファレンス	オリエンテーション・患者診察			看護実習		休憩	臨床推論演習	カルテ記載演習		
Day2 ~ Day13		総回診			PBL		休憩	病棟実習	外科基本手技実習		
		患者診察	手術実習				休憩	手術実習			
		患者診察	外来実習				休憩	PBL	画像診断演習		
	患者診察	病棟実習				休憩	鏡視下手技実習	ロボットシミュレーション			
Day14	患者診察	カンファレンス	手術実習			休憩	病棟実習	総括			
	患者診察										

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### D) 産婦人科臨床実習

#### ① 準備教育としての事前動画視聴とシミュレーション教育の活用

外来診療、手術等のビデオ動画を予め学生が視聴し、実習が効果的に行える工夫をしている。動画視聴の内容は適宜、教員からの質問や小テストによって確認される。

内診、経膈エコー検査、分娩、腹腔鏡手術などのシミュレータが病棟に配置され、学生は担当教員から手厚い指導を受ける。

#### ② 臨床実習 I

- ・学生が実際の診療チームの一員として、診療活動に参加する。
- ・産科と婦人科の両分野で、患者の同意を得て、診療(外来、診察、カンファレンス、分娩、帝王切開、手術等)にStudent doctorとして参加する。
- ・外来実習  
初診患者を対象に、専攻医の指導を受けながら、医療面接を行う。  
初診外来には学生2名が参加し、一人が医療面接、他の一人が筆記役を務める。  
その後、教授外来で、患者の病歴をプレゼンし、教授の追加医療面接、診察(内診、エコー、コルポスコープ、細胞診など)を見学する。随時教授から学生に質問が行われ、学生が答えることで知識の定着を図る。

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#### ・手術実習

学生個々が担当症例を受け持つ。

医局カンファレンスで術前プレゼンを行った後、手術に参加し、助手を務める。各手術に担当学生一人が手洗い・手術助手を務める(手術への参加度を高める)。

手術後には、医局カンファレンスで術後プレゼンを行って報告する。

#### ・学外病院での実習

3週間のうち、1週間は総合周産期母子センターを有する岐阜県総合医療センターで胎児治療などの高度な産科医療を見学し、かつ産科症例も経験できる。

#### ③ 臨床実習 II

- ・選択実習として学生が主体的に参加する。
- ・医学部附属病院／学外関連病院の産婦人科で4週間の臨床実習が行われる。
- ・産婦人科チームの一員として実際の産婦人科診療を幅広く経験する。
- ・臨床実習 I よりも様々な産婦人科診療を多く経験し、産婦人科学に対するより深い知識と技術の習得ができる。
- ・一人の学生に対して一人の若手産婦人科医がマンツーマンで指導に当たる。

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### ま と め

- 国民から信頼される医師の養成では、医学部～臨床研修～専門医～生涯研修にわたってシームレスな教育が重要である。
- そのためには、医師に必要なコンピテンス・コンピテンシーを明確にし、各段階での到達レベルを定め(マイルストーン)、臨床能力を高めるべきである。
- 医学部における実習指導医、臨床研修病院における臨床研修指導医の指導力を高め、学修者のコンピテンス・コンピテンシー達成度を適切に評価(臨床現場での評価とフィードバック)しながら、臨床能力の向上を図るべき。
- 国民の医師養成に対する理解を深め、協力を仰ぎたい。

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ご清聴有り難うございました！



[nara.mlab@tmd.ac.jp](mailto:nara.mlab@tmd.ac.jp)

## 国際シンポジウム 3

JACME International Symposium  
"Clinical clerkship for future medical care providers"  
2025.11.22. Tokyo

Institute of  
**SCIENCE TOKYO**

**臨床実習における臨床現場での学生評価、教員の指導実績評価**  
**Workplace-based assessments in clinical clerkship:**  
**from trainees' and trainers' perspective**

Masanaga Yamawaki, MD, PhD, MMA  
Institute of Science Tokyo

『科学の進歩』と『人々の幸せ』を探索し、  
社会とともに新たな価値を創造する  
Advancing science and human wellbeing to create  
value for and with society.  
Science Tokyo

令和7年度文部科学省委託事業「大学における医療  
人養成の在り方に関する調査研究」  
「診療参加型臨床実習の充実を目的とした指導医養  
成プログラムの開発と展開」



1

Masanaga Yamawaki MD, PhD, MMA

Institute of  
**SCIENCE TOKYO**

1988年 東京医科歯科大学卒業、旭中央病院研修医  
1990年 東京医科歯科大学大学院（神経内科学）  
1992年 米国バージニア州立大学生化学教室研究員  
1998年 東京医科歯科大学医学部講師（神経内科）  
2003年 同准教授（臨床教育研修センター、総合診療部）  
2011年 京都府立医科大学大学院教授 総合医療・医学教育学  
2020年より 東京医科歯科大学大学院教授 臨床医学教育学分  
2022年 東京医科歯科大学副理事（臨床医学教育担当）兼任  
2024年 東京科学大学副学長（融合教育推進担当）兼任  
2025年より 東京科学大学 医学部医学科長 兼任

1988: Graduated from Tokyo Medical and Dental University  
1990: Graduated from Tokyo Medical and Dental University  
(TMDU), Graduate School (Neurology).  
1992: Research Associate, Dept. of Biochemistry,  
Virginia State University, USA.  
1998: Assistant Professor, Dept. of Neurology, TMDU  
2003: Associate Professor, Dept. of Medical Education, TMDU  
2011: Professor, Dept. of General Medicine and Medical  
Education, Kyoto Prefectural University of Medicine.  
2020: Professor, Dept. of Clinical Medical Education, TMDU  
Graduate School.  
2022: Vice Executive (Clinical Medical Education) at TMDU  
2024: Vice President (Promoting Integrated Education) at  
Institute of Science Tokyo (Science Tokyo)  
2025: Dean of Education, School of Medicine, Science Tokyo.

医学博士（東京医科歯科大学）  
医療管理政策学修士（MMA: Master of Medical Administration、  
東京医科歯科大学）

日本内科学会 総合内科専門医、指導医  
日本神経学会 神経内科専門医、指導医  
日本医学教育学会（評議員）国際医学教育学会（AMEE、査読委員）  
日本内科学会（専門医制度査読委員）  
Editorial Board of BMC Medical Education

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Institute of  
**SCIENCE TOKYO**

1. Introduction
2. Workplace-based assessments for trainees
3. Workplace-based assessments for trainers/preceptors

## Institute of Science Tokyo



Tokyo Institute of Technology (Tokyo Tech) and Tokyo Medical and Dental University (TMDU) have merged into one national university corporation /one university in 2024



Institute of Science Tokyo

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## “Convergence Science” in Science Tokyo



New academic fields created by university integration:

Creation of groundbreaking academic fields through convergence science, including essential fusion of the humanities and sciences.

**Initial foci**  
Examples of new academic fields



**Earth environmental Science**

- GX & Sustainability
- IScT Initiative: Planetary environment



**Generative AI Medicine / Dentistry**

- Drugs for intractable diseases
- IScT Initiative: Wellbeing



**Quantum Medical and Dental Science**

- Early detection of diseases by quantum sensors
- IScT Initiative: Total healthcare

**Origin**  
Examples of cutting-edge research

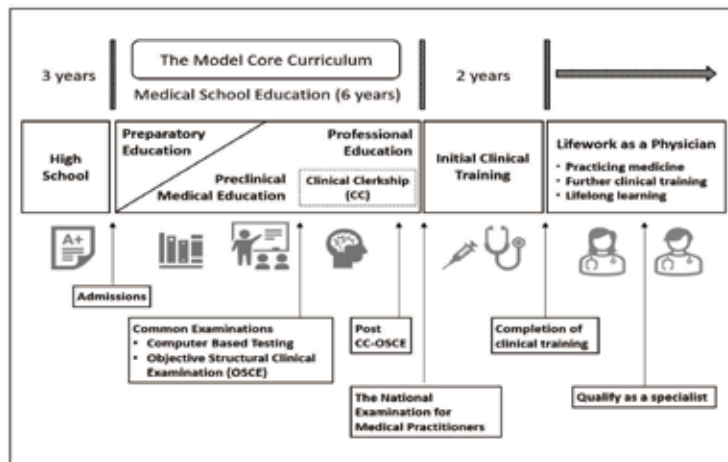


Tokyo Tech

TMDU

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## Overview of Japanese Medical Education



## Curriculum 2023 (School of Medicine)

	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year	4 <sup>th</sup> year	5 <sup>th</sup> year	6 <sup>th</sup> year
	Liberal Arts & Science	Basic Biomedical Science	Clinical Medicine	Social Science Project Semester Prep. for Clinical Clerkship CBT/Pre-CC/OSCE	Clinical Clerkship	Graduation Exam, Post-CC, OSCE
	Liberal Arts, Academic Writing, Global Communication Skills					
	Social Science, AI/Data Science, ELSI, Behavioral Science					
	Medical Introductory Course, Early Exposure for Clinical Medicine, Interprofessional Education					
	Elective Program: Research Training Program, Healthcare Leadership Course, Antrepreneurship Course					

Liberal Arts  
Basic Medical Science  
Social Medicine  
Clinical Medicine



全国医学部長病院長会議(AJMC)「わが国の大学医学部・医科大学白書2024」より  
臨床実習について (学生アンケート, n=1,616)  
The All Japan Conference of Deans and Directors of Medical Schools(AJMC)  
"Japan's University Medical Schools: White Paper 2024"  
Clinical Training (Student Survey, n=1,616)

臨床実習の指導についてどう考えますか  
The quality of instruction during clinical training



30~40% consider partially insufficient

診療参加型の実習は実施されていると考えますか  
Participation in medical practice



20~30% consider partially insufficient  
(わが国の大学医学部・医科大学 白書2024)

文部科学省委託事業「大学における医療人養成の在り方に関する調査研究」  
McGill大学医学部における臨床実習視察について  
Report on the clinical training observation at McGill University School of Medicine.

調査研究実施者: 鈴木利哉(大学改革支援・学位授与機構)、  
中村真理子(東京慈恵会医科大学)、山脇正永(東京科学大学)  
調査期間: 2025年2月17日~2月23日

- 臨床実習を臨床研修への移行時期として位置付け、学生が医療チームの中で学修及び責務(職務)を果たすことが期待されていた。
- 学生に求められている医行為は各科目のシラバスに明示されており、内科系では主として病歴聴取及び身体診察(H&P)、各種検査所見の解釈、臨床推論を含むAssessment & Plan及び診療録記載とpresentationであった。
- 学生の臨床能力の評価はWorkplace-based Assessments (WBAs)を中心として実施されていた。
- 臨床実習及び臨床研修の指導医は同一であり、日本と同様であった。また、いわゆる「屋根瓦式」教育が実施されており、研修医(レジデント)の教育スキルを向上させる講習会も実施されていた。
- The clinical internship was positioned as a transition period to clinical training, and students were expected to learn and fulfill responsibilities (job duties) within the medical team.
- The medical procedures required of students were clearly stated in the syllabus for each subject, and in the internal medicine department these mainly consisted of taking a medical history and physical examination (H&P), interpreting various test findings, making an assessment and plan including clinical reasoning, and writing medical records and making presentations.
- Students' clinical abilities were evaluated primarily through Workplace-based Assessments (WBAs).
- The supervising physicians for both the clinical internship and clinical training were the same, just like in Japan. Furthermore, the so-called "roof-tile style" education was implemented, and seminars were also held to improve the teaching skills of residents.



## Workplace-based Assessments

- 特徴とメリット
  - 実践能力の評価に強い（診察、コミュニケーション、意思決定、チームワーク等）
  - 臨床業務と同時に（短時間で）実施可能
  - 複数回・頻回の評価で信頼性が高まる
  - 学修者が自分の強み・課題に気づきやすい
- 課題
  - 評価者間のばらつき（inter-rater variability）
  - 指導医の時間確保とトレーニング
  - 適切な頻度・タイミングでの実施・記録が必要
  - 総括評価に用いる場合

### Features and Benefits

- Strong in assessing practical skills (examination, communication, decision-making, teamwork, etc.)
- Can be conducted simultaneously with clinical work (in a short time)
- Reliability is enhanced with multiple and frequent assessments
- Easily identifies learners' strengths and weaknesses

### Challenges

- Inter-rater variability
- Securing time and training for supervising physicians
- Requires appropriate frequency of implementation and recording
- When used for summative assessment

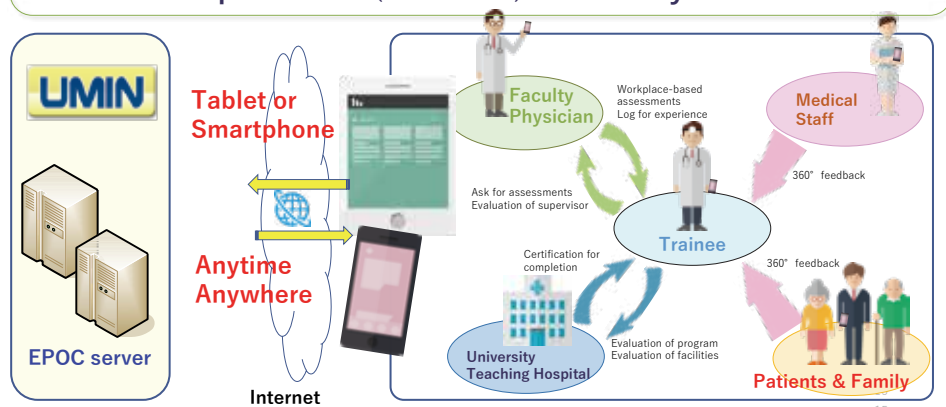
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## EPOC (E-Portfolio of Clinical training)

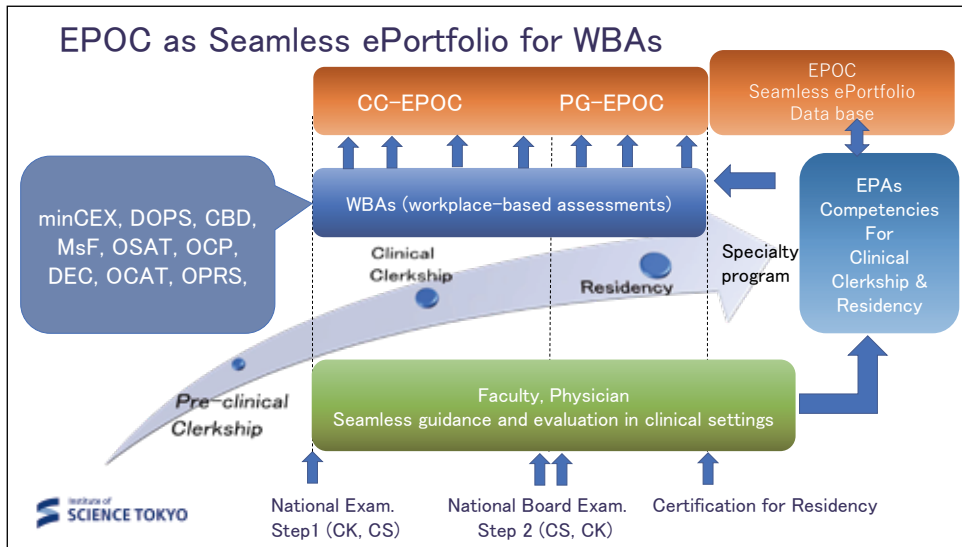
- The importance of seamless evaluation of competencies from undergraduate clinical clerkship to postgraduate clinical training has been pointed out.
- EPOC (E-Portfolio of Clinical training) is an e-portfolio system developed in Japan, and an evaluation system covered from clinical clerkship to residency period.
- There are two EPOCs currently in operation: PG-EPOC, which is for postgraduate clinical training, and CC-EPOC, which is for undergraduate clinical training.
- The current version of PG-EPOC is used at about 800 facilities and used by more than 8,000 residents, making it possible to obtain and analyze nationwide data on clinical trainees in Japan.
- Currently, approximately 30 schools have registered and begun operation of CC-EPOC.

## EPOC (E-Portfolio of Clinical training)

Nationwide ePortfolio for residents (PG-EPOC) & clerkship students (CC-EPOC) seamlessly



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### Seamless assessment for trainees from clerkship to residency

	CC-EPOC (Clerkship Students)	PG-EPOC (Residents)
Competent for Natl Exam Step1	1	
Novice as clerkship student	2	
Advanced beginner as student	3	
Competent for Natl Exam Step2	4	Level1
Novice as resident		
Advanced beginner as resident (Proficient as student)	5	Level2
Competent for specialty program		Level3
Proficient as resident		Level4

- ### Contents of CC-EPOC
- Competencies for clerkship students
  - Entrustable professional activities (13 EPAs)
  - Major diseases that students should experience (37 diseases)
  - Basic skills (17 general procedures & 12 laboratory skills)
  - Mini-CEX log
  - Case-based discussion report (CbD)
  - Narrative feedback

## What CC-EPOC (for clerkship) looks like : Competencies

CC-EPOC

1. Professionalism
2. Problem solving
3. Clinical skills
4. Communication
5. Interprofessional team
6. Patient safety
7. Systems medicine
8. Medical research



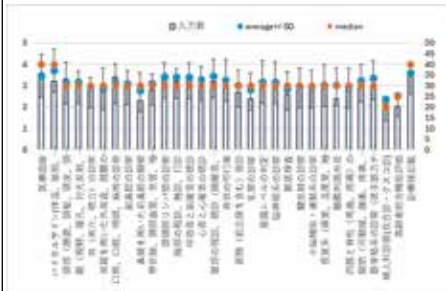
### 1. Professionalism



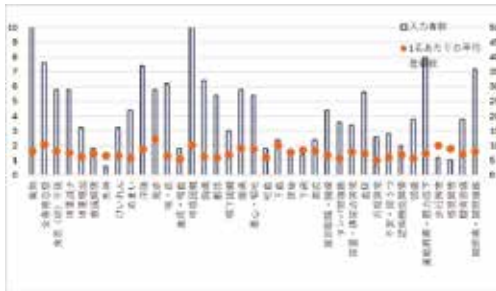
## Evaluation from Supervisor (M6 CC-EPOC)



### Clinical Skills



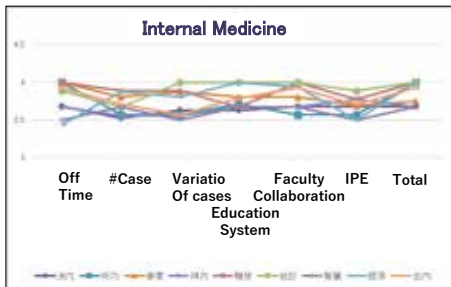
### Symptoms



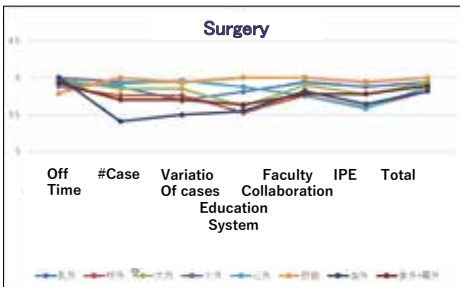
## Evaluation of each rotation from students (CC-EPOC)

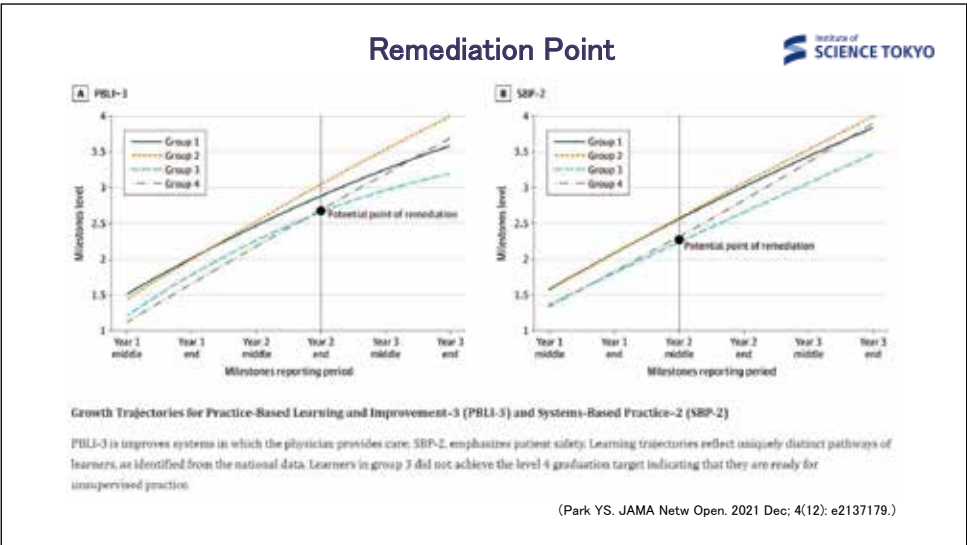
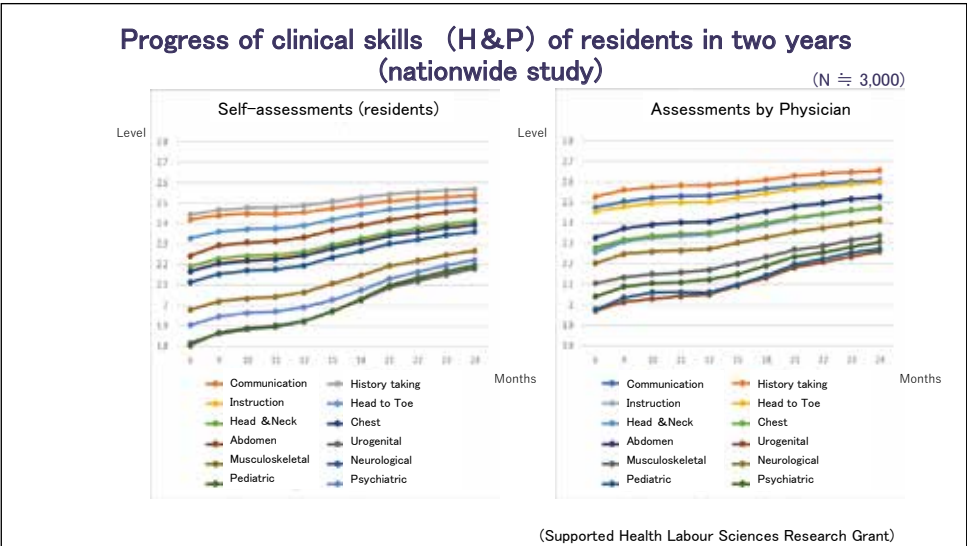
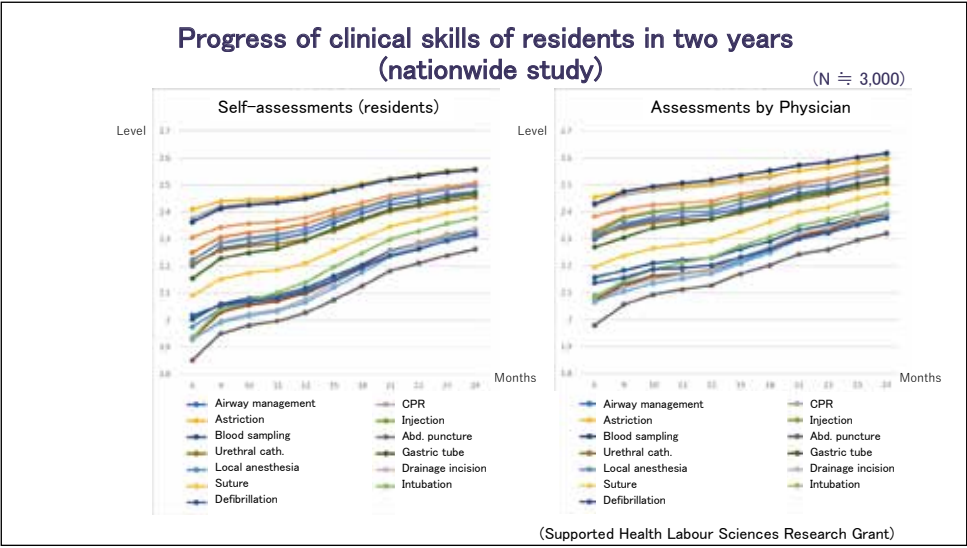


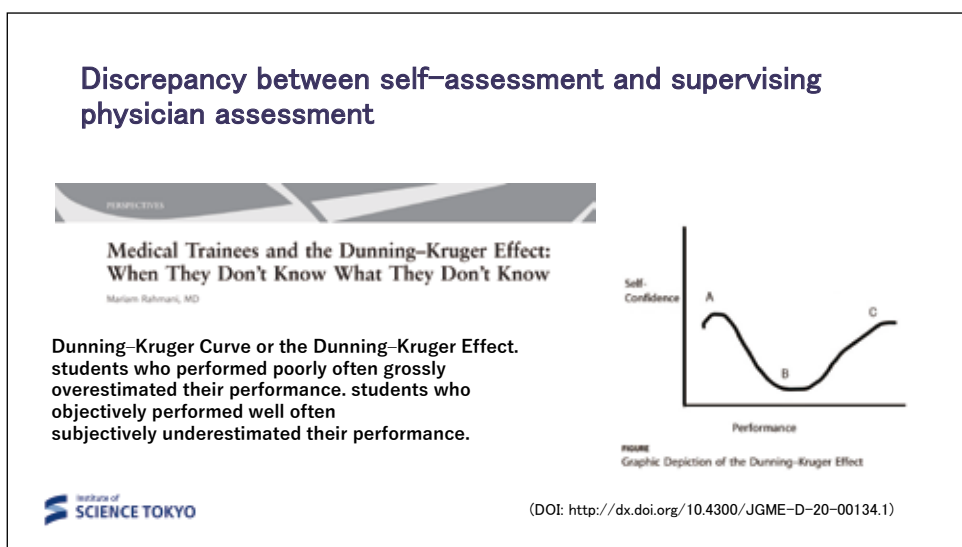
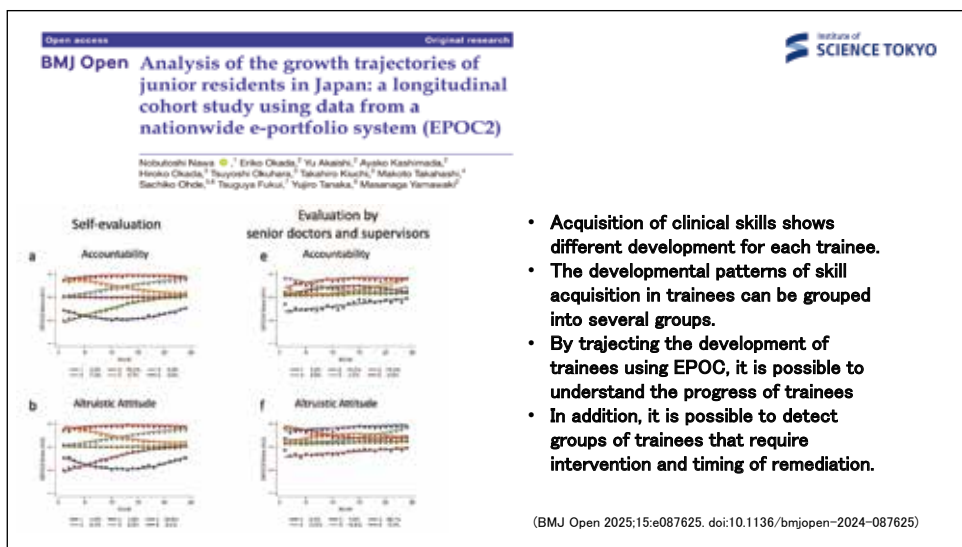
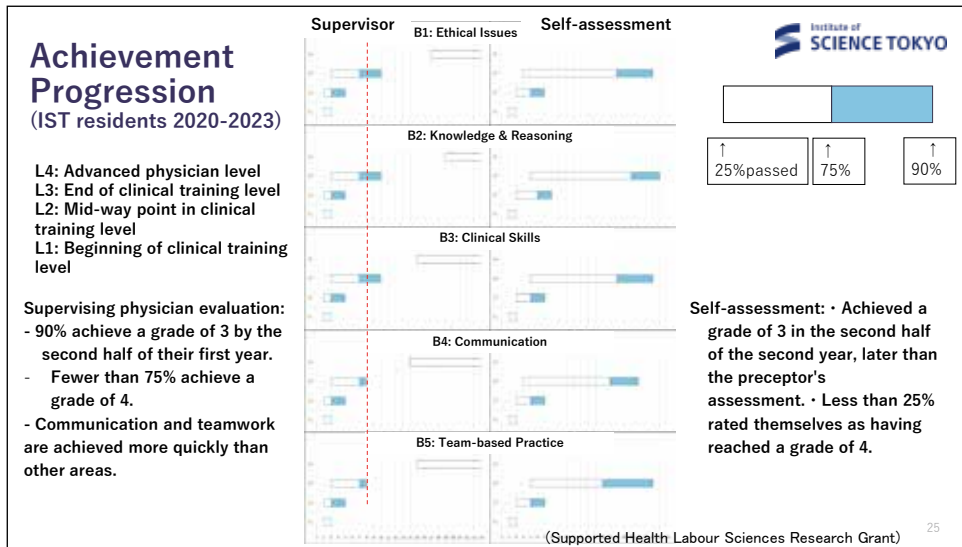
### Internal Medicine



### Surgery







## 指導医がいかに関WBAを実践するか



忙しい指導医にとっての最大のコツは、WBAを“診療にくっつける”ことであり、WBAのために“別の時間を作らない”こと。

- WBA は“追加の業務”ではなく、“日常診療の中で短時間でやる”と割り切る
- “3分以内に終わるフィードバック型WBA”を習慣化する
- 学生・研修医に「セルフ準備」を徹底させる（指導医の時間を奪わない）
- 評価者トレーニングを“最小限セット”にする
- 複数評価者制（multi-rater）を導入し、負担を分散
- “記録のミニマム化”で2分以内に終わるシステムにする
- WBA の頻度を“少なくとも適切”にする

## Tips for preceptors to practice WBAs



The biggest tip for busy supervising physicians is to "integrate WBA into medical practice" and not "make time for it."

- WBA should not be an "additional task," but rather "short-duty as part of daily clinical practice."
- Make it a habit to "complete feedback-based WBA within three minutes."
- "Encourage students and trainees to "self-prepare" (so as not to take away from preceptors' time).
- Minimize rater training.
- Introduce a multi-rater system to distribute the burden.
- Minimize recording to create a system that can be completed within two minutes.
- Conduct WBAs "more frequently, even if they are shorter."
- Make WBAs "infrequent but appropriate."

## 指導医の教育活動を活性化するための課題



Maximize educational activities of supervising physicians

- 教育活動が正式に評価される仕組み（業績化）
- 教育プログラム、教育手法の共有・理解（Faculty Development）
- 指導医の負担を軽減する構造（働き方改革も踏まえて）
- 職場内の教育文化（仲間・組織の支援）
- 教育を“負担ではなくプラス”に感じられる業務設計
- 学生・研修医からのフィードバックの可視化
- A system for formally evaluating educational activities (achievement evaluation)
- Sharing and understanding educational programs and methods (Faculty Development)
- Structures to reduce the burden on supervising physicians (taking into account work style reform)
- Workplace educational culture (support from colleagues and the organization)
- Workplace design that makes education a "positive experience, not a burden"
- Visualization of feedback from students and trainees

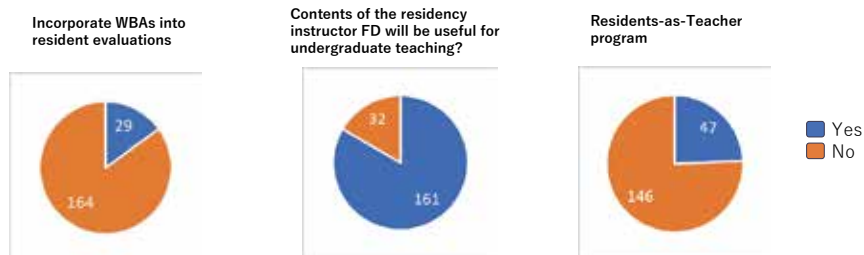
## Utilizing EPOC as a portfolio of teaching achievements for supervising physicians

- Visualize the degree of contribution of supervising physicians to education and lead to appropriate faculty evaluations.
- Teaching history can be aggregated across the clinical training curriculum.

The screenshot shows the EPOC system interface. On the left, there are two callout boxes: 'Supervisor input status' pointing to a 'データ登録' (Data Registration) button, and 'Check supervisor's teaching history table' pointing to a 'データ履歴' (Data History) button. The main area displays a table with columns for 'データ種別' (Data Type) and 'データ詳細' (Data Details). The table lists various data types like '指導医の自己評価' (Supervisor self-evaluation), '指導医の技術評価' (Supervisor technical evaluation), and '指導医の指導履歴' (Supervisor supervision history). The 'データ履歴' section shows a list of data entries with their respective dates and details.

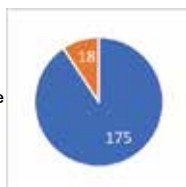
## A survey of teaching hospitals regarding medical students' clinical training

- Conducted in June 2025
- Targeting teaching hospitals for junior residents nationwide(1,038 hospitals)
- Number of responses: 193(Response rate: 18.6%, University hospitals: 31, General hospitals: 162)
- 187 (96.9%) hospitals responded that they accept students

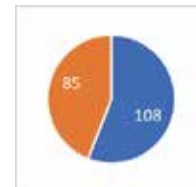


## EPOC usage by supervising physicians

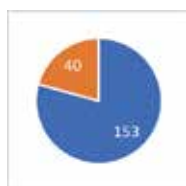
Did you know that you can check the history of self-evaluation, supervising physician evaluation, and technique evaluation?



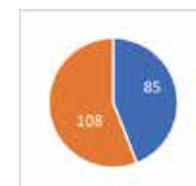
Did you know that EPOC has a function that can aggregate the supervising physician's input history?



Do you think the history can be used to guide trainees?



Do you think that EPOC's preceptor entry log can be used to evaluate preceptor teaching performance?



## Take-home messages



- 臨床能力の涵養は臨床現場での実践と評価が必須であり、WBAsは臨床実習・臨床研修の質を高めると考えられる
- 臨床現場でのWBAsの活用
  - 学修者にとって：現場でのフィードバックが得られる、ePortfolioシステム等の活用により自己の到達度と次の目標設定が可能となる
  - 指導医にとって：学修者のレディネス・到達度が把握できる、指導のフィードバックが得られる、自己の教育実践を振り返れる
  - プログラム作成者にとって：介入が必要な群が特定できる、プログラム評価が可能となる、修了認定等の総括的評価に活用できる
- 指導医が臨床現場での教育を実践するための提言
  - 教育業績・実績の適正な評価
  - 臨床実習指導医のためのFD (faculty development)、医師臨床研修指導医講習会との共催
  - 教育に係る負担軽減 (WBAsの活用、研修医の活用、教育手法・文化の共有など)
  - Programmatic assessment の活用

## Take-home messages



- Cultivating clinical skills requires practical application and evaluation in clinical settings, and WBAs are believed to improve the quality of clinical training.
- Using WBAs in Clinical Settings
  - For learners: Receive feedback from the clinic, and utilize ePortfolio systems to assess their own progress and set future goals.
  - For preceptors: Understand learners' readiness and progress, receive feedback on their instruction, and reflect on their own educational practices.
  - For program designers: Identify groups in need of intervention, enable program evaluation, and utilize WBAs for summative evaluations such as completion certification.
- Recommendations for preceptors to implement education in clinical settings
  - Appropriate evaluation of educational achievements and performance
  - Faculty development (FD) for clinical preceptors for undergraduate trainees, co-hosting for postgraduate trainees
  - Reduce the burden of education (utilizing WBAs, sharing residents, sharing educational methods and culture, etc.)
  - Utilizing programmatic assessment

## Acknowledgments



- 東京科学大学：岡田英里子、那波伸敏、鹿島田彩子、赤石 雄、吉田尚子、辻 敦美、玉木香菜、田中雄二郎
- 北海道大学：高橋 誠
- 東京大学：木内貴弘
- 国立国際医療研究センター：大出 幸子
- 日本薬科大学：福井次矢

本研究は以下の助成を受けました。

- 文部科学省委託事業「大学における医療人養成の在り方に関する調査研究」
- 厚生労働科学研究「ICTを基盤とした卒前卒後のシームレスな医師の臨床教育評価システム構築のための研究」

- Science Tokyo : Eriko Okada, Nobutoshi Nawa, Yu Akaishi, Ayako Kashimada, Shouko Yoshida, Atsumi Tsuji, Kana Tamaki, Yujiro Tanaka
- Hokkaido University : Makoto Takahashi
- Tokyo University : Takahiro Kiuchi
- National Center for Global Health and Medicine : Sachiko Ohde
- Nihon Pharmaceutical University : Tsuguya Fukui

This research was supported by the following research grants:

- Ministry of Education, Culture, Sports, Science and Technology Commissioned Project "Research on the Training of Medical Professionals at Universities"
- Ministry of Health, Labour and Welfare Scientific Research "Research to build a seamless ICT-based clinical education evaluation system for medical trainees under- and post- graduation"

**Report on the clinical training observation at McGill University School of Medicine.  
Toshiya Suzuki (National Institution for Academic Degrees and University Reform), Mariko  
Nakamura (The Jikei University School of Medicine), Masanaga Yamawaki (Tokyo University of  
Science). Research period: February 17th to 23rd, 2025.**

- The clinical internship was positioned as a transition period to clinical training, and students were expected to learn and fulfill responsibilities (job duties) within the medical team.
- The medical procedures required of students were clearly stated in the syllabus for each subject, and in the internal medicine department these mainly consisted of taking a medical history and physical examination (H&P), interpreting various test findings, making an assessment and plan including clinical reasoning, and writing medical records and making presentations.
- Students' clinical abilities were evaluated primarily through Workplace-based Assessments (WBAs).
- The supervising physicians for both the clinical internship and clinical training were the same, just like in Japan. Furthermore, the so-called "roof-tile style" education was implemented, and seminars were also held to improve the teaching skills of residents.

**Visits to Thomas-Jefferson University, NBME, and Intealth  
Research conducted by: Nobuo Nara (JACME), Masanaga Yamawaki (Science Tokyo)  
Research period: October 14th to 16th, 2025**

- With the completion of USMLE Step 2 CS, the importance of WBAs has come into sharp focus.
- Real-time feedback/monitoring methods have been introduced for WBAs using JeffDOT.
- Based on the concept of programmatic assessment/outcome, ability assessments using WBAs and OSCEs are being systematically implemented in clinical training.
- Various FDs are being implemented to cultivate the teaching abilities of supervising physicians, and a Resident-as-Teacher Program for residents has also been implemented.

## Clinical clerkship curriculum and outcome evaluation in a medical school (SKMC) in the United States

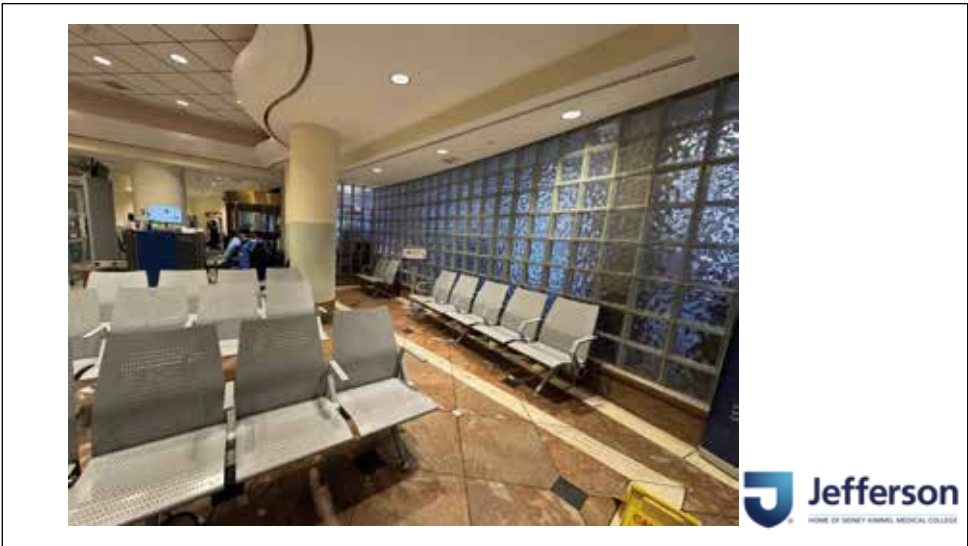
**Wayne Bond Lau, MD, FAAEM FACEP FCPP**  
Professor | Emergency Medicine  
Associate Dean | Office of Student Affairs  
Director | Jefferson Chinatown Clinic  
Associate Director | Jefferson Japan Center  
Sidney Kimmel Medical College · Thomas Jefferson University

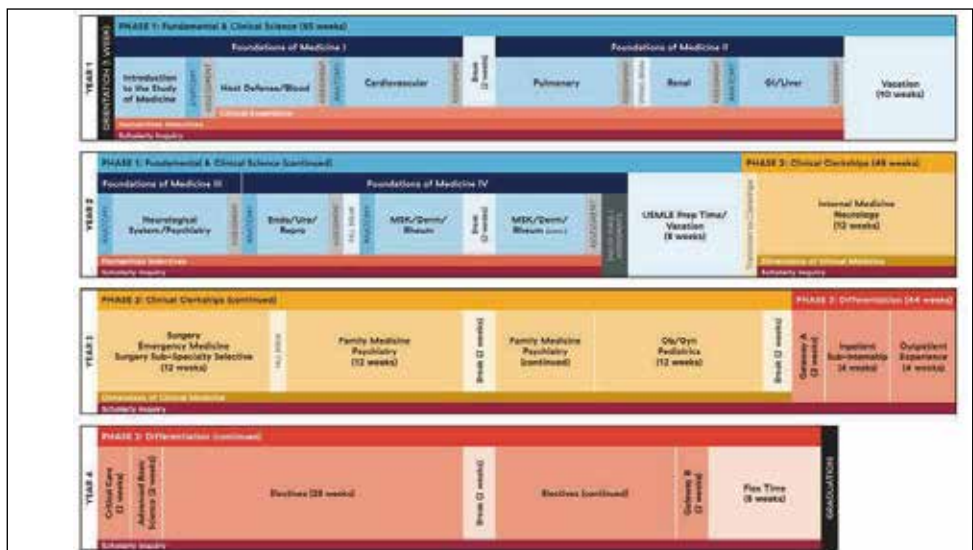


## With great gratitude

- Japan Accreditation Council for Medical Education
- Japan Society for Medical Education
- Institute of Science Tokyo
- Noguchi Medical Research Institute
  
- Nobuo Nara, MD, PhD
- Masanaga Yamawaki, MD, PhD, MMA
- Yoshihisa Asano, PhD, DPH







## Phase 2: Clinical Rotations

Rotation	Length
Internal Medicine	8 weeks
Surgery	6 weeks
Obstetrics and Gynecology	6 weeks
Pediatrics	6 weeks
Family Medicine	6 weeks
Psychiatry	6 weeks
Emergency Medicine	3 weeks
Surgical Subspecialty (ENT, Neurosurgery, Ophthalmology, Anesthesia, or Urology)	3 weeks



## Phase 3: Clinical Rotations (mandatory)

Mandatory Rotation	Length
Inpatient Sub-internship	4 weeks
Inpatient Sub-internship	4 weeks
Critical Care	2 weeks

\*Phase 3 (*Differentiation*) is highly individualized. Students pursue mostly electives that relate to their field of choice.



**SKMC Phase 2 Clinical Evaluation Form**

Student Name: \_\_\_\_\_  
 Evaluated by: \_\_\_\_\_  
 Department: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Evaluation Date: \_\_\_\_\_

**FORMATIVE FEEDBACK** will be used for grading and will appear in Dean's Medical Student Performance System.

Please provide comments about the student's performance regarding knowledge, clinical skills (specify physical exam), communication abilities and professionalism, progress notes, clinical reasoning, patient-centered attitudes, and professionalism. Provide specific comments based on behaviors you observed or what the student did well and what the student could improve upon. Please avoid generic terms. **REQUIRED. MUST BE NO MORE THAN 1000 CHARACTERS, with spaces.**

\_\_\_\_\_

**FORMATIVE CONSTRUCTIVE FEEDBACK** (formative feedback for students only) May affect the grade ONLY if comments represent a pattern of behavior noted by multiple evaluators.

How would the student improve in order to become an excellent physician? **REQUIRED.**

\_\_\_\_\_

**What best describes your experience with this student (select one)?**

<input type="radio"/> <small>Strongly agree (5th grade)</small> <small>Strongly disagree (1st grade)</small>	<input type="radio"/> <small>Strongly agree (5th grade)</small> <small>Disagree (3rd grade)</small>	<input type="radio"/> <small>Disagree (3rd grade)</small> <small>Strongly disagree (1st grade)</small>
--	---	--

State (print) if this form only constitutes a portion of the overall evaluation.

Page 1 of 2





## Evaluation Summary

- **Summative Feedback** (MSPE)
  - Knowledge, clinical skills, communication, clinical reasoning, patient-centered attitudes, professionalism
- **\*Private** Constructive Feedback
- **General** (2 items)
- **Practice knowledge** (14 items)
- **Miscellaneous:**
  - Time spent with student
  - Concerns about performance
  - Concerns about professionalism



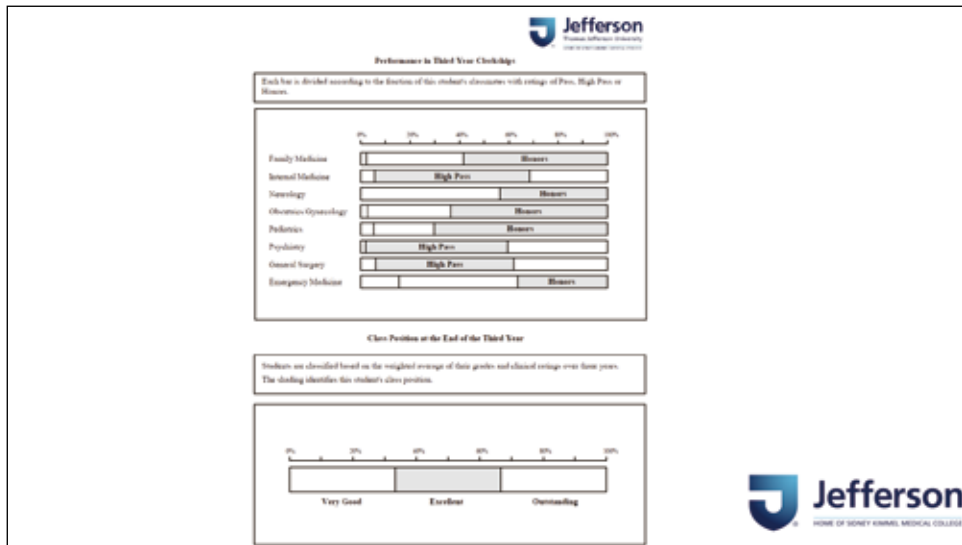
## Grades



## Clinical Clerkships

- Honors
- High Pass
- Pass
- **Fail**
- Conditional Pass (*\*temporary grade, \*\*remediation*)





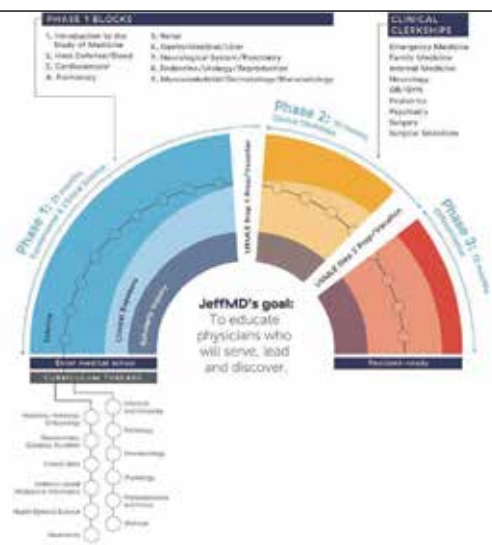
## Medical Student Performance Evaluation (MSPE) Letter

- Letter provided by Medical College
- Accompanies the registrar's transcript
- Gives insight beyond numerical grades



## Progression

- Phase 1 \_preclinical
- Step 1
- Phase 2 \_clinical
- End of Phase 2 OSCE
- Step 2
- Phase 3 \_clinical



## USMLE Step 2 Clinical Skills (CS)

- Permanently discontinued in January 2021
- No longer a requirement for medical licensure in the United States
- In-person, performance-based assessment that tested **communication** and **patient interaction skills** through simulated encounters with standardized patients
- Components:
  - Obtain history
  - Perform physical examination
  - Create DDx
  - Plan
  - Bedside manner



## Association of Standardized Patient Educators (ASPE)

- Global ASPE members have developed the ASPE Standards of Best Practice (SOBP)
  - Ensure the growth, integrity, and safe application of SP-based education practices
- Jefferson is a proud member of ASPE
  - Mid Atlantic Consortium
  - We share/reciprocate cases with other medical colleges



## Phase 2 Evaluation Process

- Clinical Performance (as noted before)
- NBME Standardized Shelf Examinations
- Objective Structured Clinical Examination (OSCEs) utilizing Standardized Patient Encounters
  - Internal Medicine
  - Surgery
  - End of Phase 2 Summative

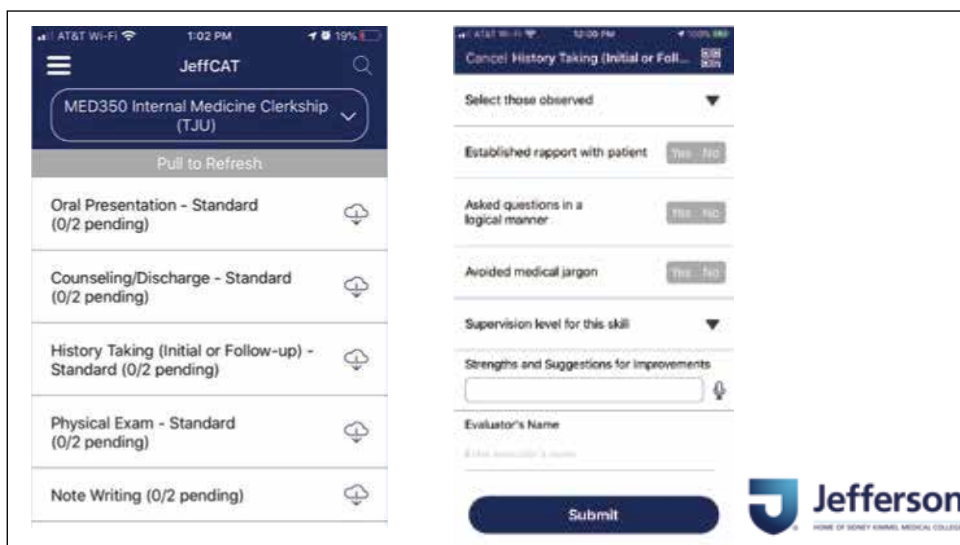


How do we know we are doing a good job preparing our students?

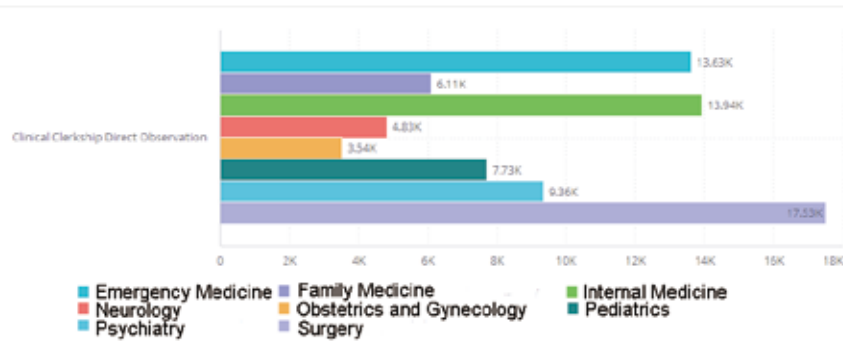


## Jefferson Direct Observation Tool (JeffDOT)

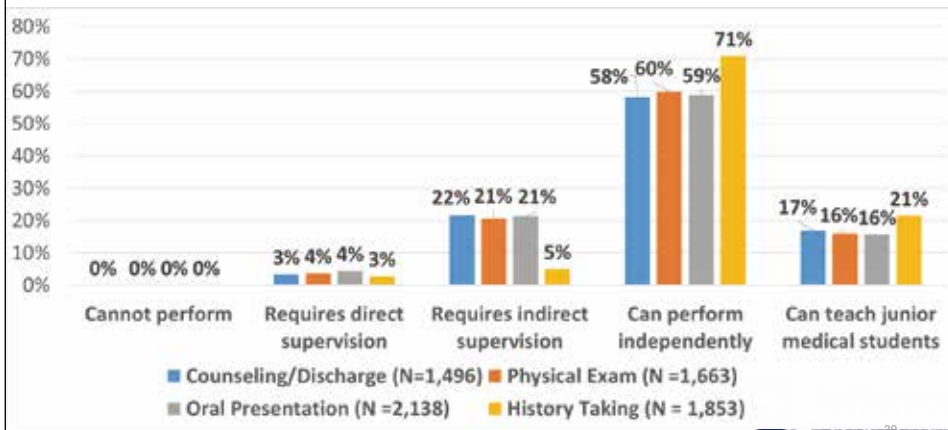
- JeffDOT is a mobile app (iOS and Android)
- Encourages frequent microassessments (<5 min) in real time
- Checklists are signed off by faculty observing students
- Four realms:
  - history taking
  - physical exam
  - oral presentation
  - counseling/discharge



## JeffDOTs per Clerkship



## Core Skill Checklist – M3 Performance



## JeffDOT impact

- >62% students are competent to perform **history taking**, **physical exam**, **oral presentation**, and **counseling/discharge independently**
- Students can self-track progress across the medical school curriculum
- Skill checklists **standardizes** bedside formative assessments
- JeffDOTS has shifted institutional culture from static faculty-centered to **learner-centered** "in the moment" assessment



## AAMC Resident Readiness Survey/ ACGME Harmonized Milestones (HM) Data

- Association of American Medical Colleges (AAMC) and Accreditation Council for Graduate Medical Education (ACGME) surveys program directors
- AAMC and ACGME shares data comparing our performance with national norms



### Subcommittee on Programmatic Outcomes and Competencies (SPOC)

#### SKMC Outcomes

#### Competency 4: Interpersonal and Communication Skills

Sidney Kimmel Medical College (SKMC)  
Undergraduate Medical Education  
Office of Assessment  
October 2025

HOME OF SIDNEY KIMMEL MEDICAL COLLEGE

#### SKMC [AAMC] Competency #4

- Competency #4-Interpersonal and communication skills: Physicians should demonstrate interpersonal and communication skills that result in the effective exchange of information and collaboration with patients, their families, and health professionals.
  - Medical Educational Program Objectives(MEPOs): -Graduates will:
    - ICS1 Communicate effectively with patients, families, peers, and other team members of diverse backgrounds, languages, cultures, and communities using strategies to build therapeutic alliances, promote inclusion and equity, and ensure understanding
    - ICS2 Communicate effectively with colleagues within one's profession or specialty, other health professionals, and health-related agencies
    - ICS3 Maintain comprehensive, timely, and clear medical records
    - ICS4 Demonstrate sensitivity, honesty, and compassion in difficult conversations
    - ICS5 Demonstrate empathy and an understanding about human emotions that allow one to develop and manage interpersonal interactions



## Methods of Assessment: Undergraduate Outcomes

- **Each phase director:**
  - Reviewed the national assessments
  - Determined the alignment with MEPOs (Medical Education Program Objectives).
- **Undergraduate Medical Education Program**
  - Multiple Choice
    - Block Exams, Quizzes, Anatomy Practicum, Scholarly Inquiry, USMLE Step 1, and USMLE Step 2CK
  - Clinical performance
    - Block Clinical Skills Assessments, OSCE: End of Year 1, End of Phase 1, End of Clerkship, End of Phase 2, and End of Phase 3, Direct Observations, Standardized Patient Encounters
  - Rubric
    - Clinical Skills Small Group, Wellness Week Reflection Essay, Health Mentors, and Clinical Experience, Scholarly Inquiry
- Formative assignments
  - Clerkship/Course specific assignments



## Post Graduation Outcomes

- **Survey of Program Directors -**
  - American Association of Medical Colleges (AAMC) Resident Readiness Survey (Pilot project)

Pilot Year	Academic Year	Response Rate	Number of graduates	Number submitted ERAS*	Number in ERAS and GME Track**
2	2021 – 2022	59.0%	271	250	148
3	2022 – 2023	61.6%	258	242	149
4	2023 - 2024	64.2%	274	257	165
5	2024 - 2025	65.0%	257	223	145

\*Number of graduates who submitted an ERAS application and were reported in GME Track as a resident in training  
 \*\*Number of graduates in ERAS and GME Track for whom Program Directors participated in a Resident Readiness Survey



## Methods of Assessment: Post Graduation Outcomes

- **Clinical Performance Assessment Tool**
  - Accreditation Council for Graduate Medical Education (ACGME) Harmonized Milestones (HM)
    - Completed by program director at the end of Intern year

Cohort	Percentage of Interns Participating	All Interns*	Interns from Participating Schools
Class of 2021	27%	35,729	9,688
Class of 2022	39%	36,628	14,461
Class of 2023	39%	37,757	14,760
Class of 2024	Not yet available	Not yet available	15,417

\*\*Source: ACGME Data Resource Books AY2021 – 2022, AY2022 – 2023, AY2023 – 2024 <https://www.acgme.org/about/publications-and-resources/graduate-medical-education-data-resource-books>



### Dates of longitudinal data included in summary

Graduating Class of:	2021	2022	2023	2024	2025
<b>UME Outcomes</b>					
Overall passing rate for assessments	✓	✓	✓	✓	✓
<b>Post Graduation Outcomes:</b>					
Resident Readiness Survey Results	✓	✓	✓	✓	
ACGME Harmonized Milestone Ratings	✓	✓	✓		



### Questions that need to be answered for each MEPO

1. Is the MEPO measurable by outcomes using our current assessment tools?
2. Were there sufficient assessments across all three phases for the MEPO?
3. Did the cohort demonstrate successful accomplishment of the MEPO?



### MEPO ICS1

- “Communicate effectively with patients, families, peers, and other team members of diverse backgrounds, languages, cultures, and communities using strategies to build therapeutic alliances, promote inclusion and equity, and ensure understanding”

This MEPO was evaluated using the following assessment methods:

Phase 1	Phase 2	Phase 3
Clinical Skills Assessment	Clerkship Clinical Evaluation form (Rubric)	Direct observations at bedside
Clinical Skills Small Group (Mid-year Feedback, End-of-Year Reflection, Patient Narrative, Wellness Week Reflection)	Direct observations at bedside	Course Clinical Evaluation form (Rubric)
End-of-Year 1 Clinical Skills Assessment	End-of-Clerkship OSCE (FMED, MED, PSYH, SURG, OBGYN, DCM)	Standardized Patient Encounter
End of Phase 1 OSCE	End-of-Phase 2 OSCE	End-of-Phase 3 OSCE
		USMLE Step 2 CS (Discontinued exam 2022)

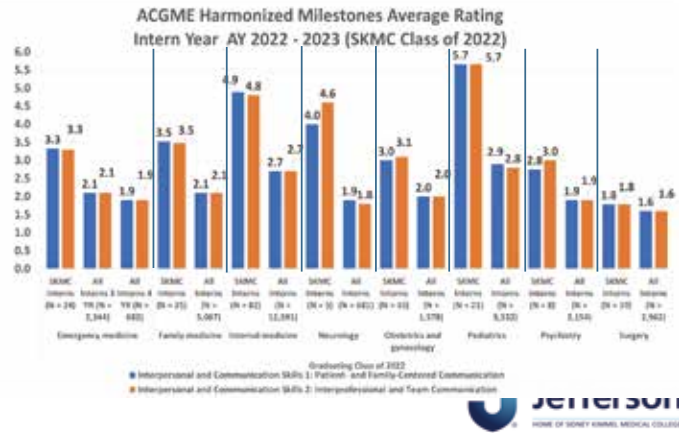
**Outcome:**

- Class of 2021: At least 97% of students passed each of these assessments.
- Class of 2022: At least 97% of students passed each of these assessments.
- Class of 2023: At least 96% of students passed each of these assessments.
- Class of 2024: At least 97% of students passed each of these assessments.
- Class of 2025: At least 97% of students passed each of these assessments.
- Class of 2026: At least 97% of students passed each of these assessments (Phase 1 and 2 only)
- Class of 2027: At least 100% of students passed each of these assessments (Phase 1 only)



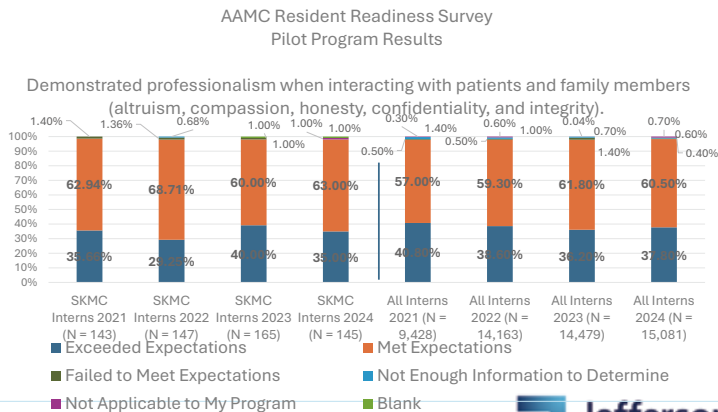
### ACGME Harmonized Milestones: ICS 1 and ICS 2

Aligns with:  
 UME MEPO ICS1  
 Communicate effectively with patients, families, peers, and other team members of diverse backgrounds, languages, cultures, and communities using strategies to build therapeutic alliances, promote inclusion and equity, and ensure understanding



### AAMC Resident Readiness Survey

Aligns with:  
 UME MEPO ICS1  
 Communicate effectively with patients, families, peers, and other team members of diverse backgrounds, languages, cultures, and communities using strategies to build therapeutic alliances, promote inclusion and equity, and ensure understanding



### AAMC Resident Readiness Survey/ ACGME Harmonized Milestones (HM) Data Conclusion

- For data available (Class of 2021-2023);
- SKMC students are performing at (or above the national norm) for most competencies assessed in these AAMC/ACGME surveys
- A thorough review is ongoing of all the data provided by the AAMC/ACGME



## Conclusions

- Our curriculum is constantly improving
- Dynamic > Static
  - Content
  - Feedback and Evaluation
- Philosophical debate regarding grades
  - Step 1 lessons



## Forest from the Trees



## With great gratitude

- Japan Accreditation Council for Medical Education
- Japan Society for Medical Education
- Institute of Science Tokyo
- Noguchi Medical Research Institute
  
- Nobuo Nara, MD, PhD
- Masanaga Yamawaki, MD, PhD, MMA
- Yoshihisa Asano, PhD, DPH



## With great gratitude

- Charlie Pohl, MD – Senior Vice Provost, Executive Director
- Joseph Gonnella, MD – Dean Emeritus, Jefferson Medical College
- Takami Sato, MD PhD – Director of Jefferson Japan Center
- Said Ibrahim, MD – Dean of SKMC
- Dimitri Papanagnou, MD – Associate Dean, Faculty Affairs
  
- Yumiko Radi, Director of Operations, Jefferson Japan Center
- Vincent Gleizer, Project Coordinator, Jefferson Japan Center



# Faculty Development for Clinical Skills Teaching

International Symposium supported by the Ministry of Education  
Tokyo, Japan  
Saturday, November 22, 2025



**Dimitrios Papanagnou, MD, EdD, MPH**  
Professor and Vice Chair for Education  
Department of Emergency Medicine

Senior Associate Dean, Faculty Development  
Director of Health Systems Science Curriculum  
Director, Medical Education Scholarly Inquiry Track


Sidney Kimmel Medical College  
Thomas Jefferson University

Associate Provost for Faculty Development  
Health Professions Education and Scholarship  
Thomas Jefferson University

**Goal:**

**To refine our understanding of faculty development with regards to teaching medical students clinical skills**

1. Define Clinical Skills
2. Convey that Faculty Are Essential
3. Discuss Faculty Development
4. Provide Examples in Practice
5. Share Best Practices from Jefferson

**Clinical Skills** | **01**

**What do we mean by clinical skills?**

Domain	Examples	How to teach this skill?
<b>Technical</b>	Physical exam, procedural skills, use of diagnostic instruments	Step-by-step demonstration, deliberate practice, safe technique
<b>Cognitive</b>	Clinical reasoning, prioritizing a differential diagnosis	Making thinking visible, prompting reflection, coaching reasoning
<b>Interpersonal</b>	Communication, empathy, teamwork, professionalism	Modeling behaviors, guided reflection, feedback on micro-skills

## Clinical skills instruction occurs across multiple settings.

At the bedside in the clinical environment

Simulation and skills laboratory settings

Classroom-based settings (e.g., small group learning sessions, case- and team-based learning)

## Why does effective clinical skills instruction matter?



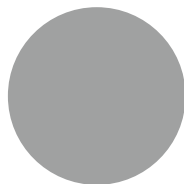
Clinical skills are foundational to professional identity formation.



Clinical encounters remain the primary context where learners build competence, confidence, and compassion.



Teaching these skills effectively does not just shape **what** learners do, but **who** they become as clinicians.



Faculty

02

## Faculty are essential.

Faculty are the lifeblood of the medical school.

Essentially, clinical faculty are living, breathing extenders of the curriculum in the clinical environment.

Faculty roles have evolved to be coaches of learning – not just evaluators of medical students.

Medical students eventually model their approaches to communication, empathy, and decision-making after the faculty they observe.



***“Faculty are extenders of the curriculum.”***

## Why the need to focus on faculty development?

---

Faculty skills decay over time

---

Being clinically excellent does not mean being a skilled teacher of clinical skills

---

Faculty vary in comfort and confidence when teaching clinical skills

---

Faculty feedback to learners is inconsistent

---

Faculty struggle with giving feedback – for both verbal and narrative feedback

---

There is limited time for learner observations given time pressures in the clinical setting

**What about resident as teachers?**

**The Good**

- Tend to be more available
- Procedural muscle memory
- Narrow hierarchy makes them more approachable
- Psychological safety

**The Not So Good**

- No formal teaching experience
- Significant variation in knowledge and skills
- Concerns their ability to assess learners

**Residents vs. Faculty in the Clinical Environment**

- In the setting of increasing work, supervision, and teaching demands, faculty have often relied on resident physicians to assist with medical student training.
- In some cases, residents are asked to complete student evaluations on their clinical skills performance.
- This can be problematic with regards to grade inflation.

	AY23-24			AY24-25		
	Faculty Evaluations	Resident Evaluations	T-Test	Attending Evaluations	Resident Evaluations	T-Test
Lower Quartile Mean	69.49%	79.54%	1.53248E-08	65.78%	77.14%	3.06491E-11
Upper Quartile Mean	93.50%	94.82%	0.053312028	92.38%	93.02%	0.260217664

**Faculty Development**

**03**



## What is Faculty Development?

- Activities that **prepare educators** for their respective roles.
- Training that helps faculty **acquire skills** relevant to their position.
- Instruction focused on **teaching effectiveness** and **professional development**.
- **Societal expectation** to ensure physicians-in-training are prepared to work.
- Essential, as most clinicians have had little to no training on how to teach.



## The stakes are high!

Poorly taught or inconsistently assessed clinical skills can lead to diagnostic and patient safety errors

**What does faculty development look like?**

## What are typical educational formats for delivery of faculty development?

Workshops

Teaching modules or microlearning experiences

Simulation-based training

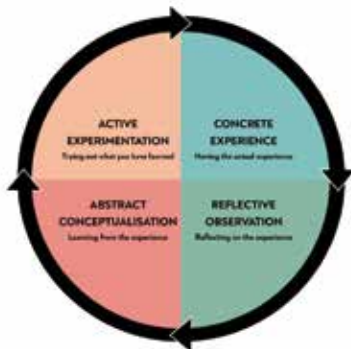
Peer observation

Feedback rounds

Video-based review for calibration

Communities of practice for teaching excellence

## Clinical Skills Teaching: What Does Theory Tell Us?



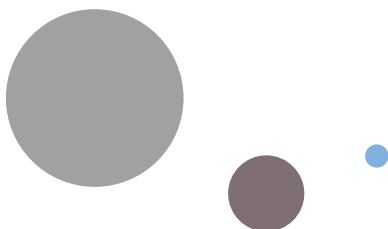
### What It Means for Faculty Educators?

Build time for reflection after skills sessions

Think aloud while demonstrating a skill

Let learners repeat a skill with specific goals and feedback

Model how you handle uncertainty and recalibrate performance




Foci of Faculty Development Training

04



# Observation



Direct observation is underutilized.

Faculty can be trained in focused observation techniques (e.g., using behavioral anchors, milestones, or entrustable professional activities).

Easy opportunity to use structured tools, like validated checklists.

## Example in Practice #1

### Looking for specific behaviors from the ACGME Milestones

Adapted from the Emergency Medicine Milestone Project (2021)  
Patient Care 4: Diagnosis

Patient Care 4: Diagnosis				
Level 1	Level 2	Level 3	Level 4	Level 5
Constructs a list of potential diagnoses based on the patient's chief complaint and initial assessment	Provides a prioritized differential diagnosis	Provides a diagnosis for common medical conditions and demonstrates the ability to modify a diagnosis based on a patient's clinical course and additional data	Provides a diagnosis for patients with multiple comorbidities or uncommon medical conditions, recognizing errors in clinical reasoning	Serves as a role model and educator to other learners for deriving diagnoses and recognizing errors in clinical reasoning
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments:				Not Yet Completed Level 1 <input type="checkbox"/> Not Yet Assessable <input type="checkbox"/>

# Teaching



Practice in-the-moment, just-in-time teaching strategies.

Emphasize the importance of teaching scripts.

Reflect on the use of questions as a teaching tool.

## Example in Practice #3

### Teaching Scripts

- Exemplary clinical teachers have been shown to use teaching scripts
- Way of organizing content and instructional approach for commonly encountered teaching moments

Teaching Script	
<p><b>Author:</b> Lindsay Wells  <b>Topic:</b> Review of Broad Spectrum Antibiotics for Community-Acquired Pneumonia (CAP)</p> <p><b>Identify the Trigger:</b>            Based on current situation/case</p> <p><b>High-Yield Teaching Point:</b>            What do they need to know that will impact their care of patients?</p> <p><b>Identify DSM:</b>            Find your source and specify evidence</p> <p><b>Describe Strategy:</b>            Interview, analysis, think</p> <p><b>Keep Script Brief:</b>            3-11 minutes, what are your key points?</p>	<p>Teacher states, "In this patient admitted pneumonia, I would like to start (finish) on antibiotics"</p> <p>Empiric therapy with a third-generation penicillin (ceftriaxone) is not routinely necessary for the treatment of uncomplicated CAP. It is safe to use ampicillin or penicillin G for children hospitalized with uncomplicated CAP.</p> <p>1. Bradley JS, et al. The management of community-acquired pneumonia in infants and children older than 1 month of age: Clinical Practice Guidelines by the Pediatric Infectious Diseases Society and the Infectious Diseases Society of America. <i>Clinical Infectious Diseases</i>. 2015; 59(10):1-10. IDSA guidelines recommend the empiric use of ampicillin or penicillin G for children hospitalized with uncomplicated CAP.</p> <p>2. Quen L, et al. Comparative effectiveness of empiric antibiotics for community-acquired pneumonia. <i>Health Affairs</i>. 2014; 33(3):e27-35.</p> <p>• Narrow spectrum therapy was not inferior to broad spectrum antibiotics in all measured outcomes including LOS, duration of oxygen, duration of fever, or readmission rates within 7 days.</p> <p><b>One Minute Preceptor</b></p> <p>Get commitment: "Do you want to provide Ceftriaxone?"            Probe for evidence: "Why?"            Expand on evidence: Therapy with a third-generation penicillin (ceftriaxone) (e.g. ceftriaxone or cefotaxime) should be prescribed for hospitalized children who are not fully immunized, in regions where local epidemiology of invasive pneumococcal strains documents high-level penicillin resistance, or for infants and children with life-threatening infection, including those with comorbid or immunized children with uncomplicated CAP; empiric therapy should be ampicillin or penicillin G. (Resistant/Ineffective Feedback: depending on their answer/commitment)</p> <p><b>Additional facts:</b>            What organisms are most commonly implicated in CAP?            Only 15% of CAP are bacterial in origin, viral infections are the most common cause of CAP in hospitalized children            Streptococcus pneumoniae is the most common bacterial etiology of CAP            • S. pneumoniae followed by SWSA are the most common cause of complicated CAP (e.g. empyema, abscess, empyema) in hospitalized children</p>

## Example in Practice #3

### The One-Minute Preceptor Model for Teaching

- First microskill: Get a commitment**
  - "What do you think is going on in this case?"
- Second microskill: Probe for supporting evidence**
  - "What led you to that diagnosis?"
- Third microskill: Teach general rules**
  - "A general rule relevant to this case is..."
- Fourth microskill: Reinforce what was done correctly**
  - "Excellent summary. You did a thorough job eliciting key history from this patient."
- Fifth microskill: Correct errors**
  - "Next time, I would encourage you to..."

## Example in Practice #4

How to Construct a Question?



Bloom's Taxonomy

**Creating:** Can students create a new product or point of view? They would be able to assemble, construct, create, design, develop, formulate, write, or invent.

**Evaluating:** Can the student justify a stand or decision? To evaluate information, a student might appraise, argue, defend, judge, select, support, value, and evaluate.

**Analyzing:** Can the student distinguish between the different parts? They would be able to compare, contrast, criticize, differentiate, discriminate, distinguish, examine, experiment, question, or test.

**Applying:** Can the student use the information in a new way? They would be able to choose, demonstrate, dramatize, employ, illustrate, interpret, operate, sketch, solve, use, or write.

**Understanding:** Can the student explain ideas or concepts? They would be able to classify, describe, discuss, explain, identify, locate, recognize, report, select, translate, or compare.

**Remembering:** Can the student recall or remember the information? They would be able to define, duplicate, list, memorize, recall, repeat, reproduce, or state.

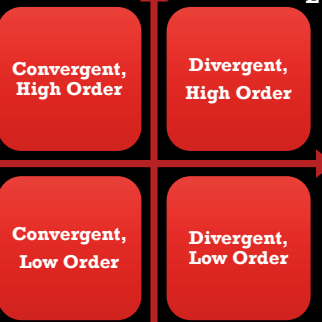
## Example in Practice #4

How to Construct a Question?



Analysis

Synthesis  
Evaluation



Knowledge  
Comprehension

Application

Consider a student presentation of a patient who presented with an allergic reaction . . .

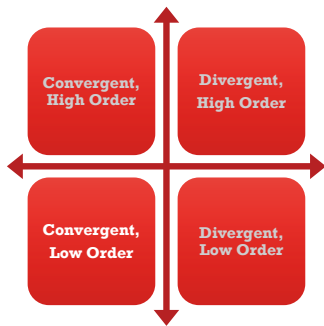


Faculty Member



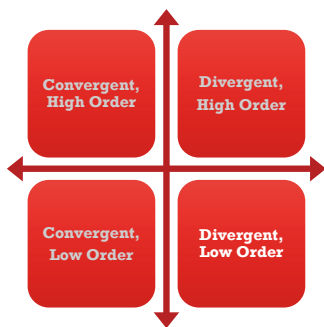
Medical Student





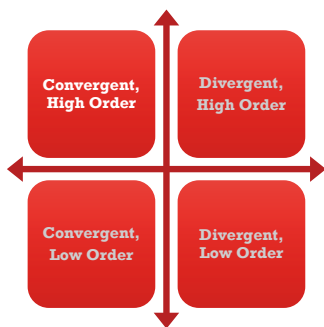
**So, what sort of allergic reaction is urticaria?**

# Knowledge Comprehension



**What red flags would you look for on history and physical examination?**

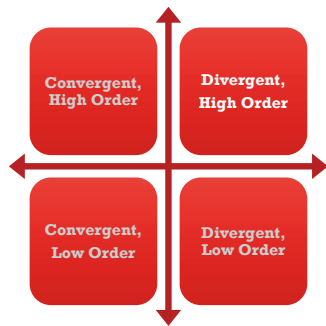
# Application



**How would your management change if she recently started a new antibiotic?**

# Analysis





**How would you justify the use of steroids in anaphylaxis given the evidence?**



# Synthesis Evaluation

## Feedback and Assessment



Shift from “feedback as evaluation” to “feedback as dialogue.”

Standardize methods to provide feedback to learners.

Emphasize a growth mindset.

### Example in Practice #5

#### The Pendelton Model for Feedback Delivery

1. The learner states what was good about his or her performance	2. The teacher states areas of agreement and elaborates on good performance.
3. The learner states what could have been improved	4. The teacher states what he or she thinks could have been improved

## Example in Practice #6

### Looking for specific behaviors from the ACGME Milestones

Adapted from the Emergency Medicine Milestone Project (2021)  
Patient Care 4: Diagnosis

Patient Care 4: Diagnosis				
Level 1	Level 2	Level 3	Level 4	Level 5
Constructs a list of potential diagnoses based on the patient's chief complaint and initial assessment	Provides a prioritized differential diagnosis	Provides a diagnosis for common medical conditions and demonstrates the ability to modify a diagnosis based on a patient's clinical course and additional data	Provides a diagnosis for patients with multiple comorbidities or uncommon medical conditions, recognizing errors in clinical reasoning	Serves as a role model and educator to other learners for deriving diagnoses and recognizing errors in clinical reasoning
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments:				Not Yet Completed Level 1 <input type="checkbox"/> Not Yet Assessable <input type="checkbox"/>

### Quality Narrative Evaluations

Adherence to a more standard framework will result in more accurate, transparent, and less biased evaluations of performance

Include examples as evidence of student performance

Examples should include both strengths and areas in need of improvement

### Specificity of Comments

Good

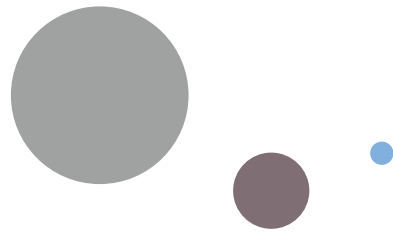
Qualifiers: *"hard worker"*

Better

Evidence: *"great team member, always helping out with tasks that needed to get done"*

Best

Examples" *"student took the time to make a phone call to an outside hospital to obtain much needed records for the team"*



# Best Practices to Inform Critical Steps

(informed by our experiences at Thomas Jefferson University)

# 05

Develop a conceptual framework for faculty development.

## The Jefferson Educator



Domains of Educational Practice  
CENTER FOR FACULTY DEVELOPMENT AND  
NEXUS LEARNING



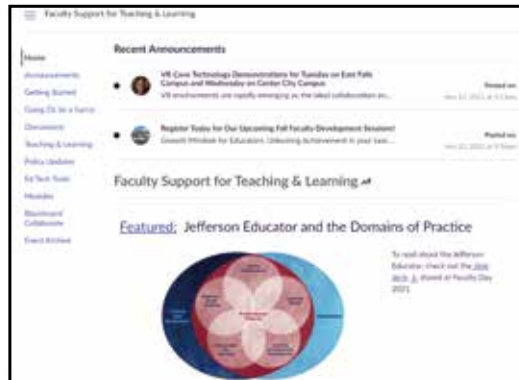
Meet faculty where they are. Employ accessible methods for participation.



## Meet faculty where they are. Employ accessible methods for participation.

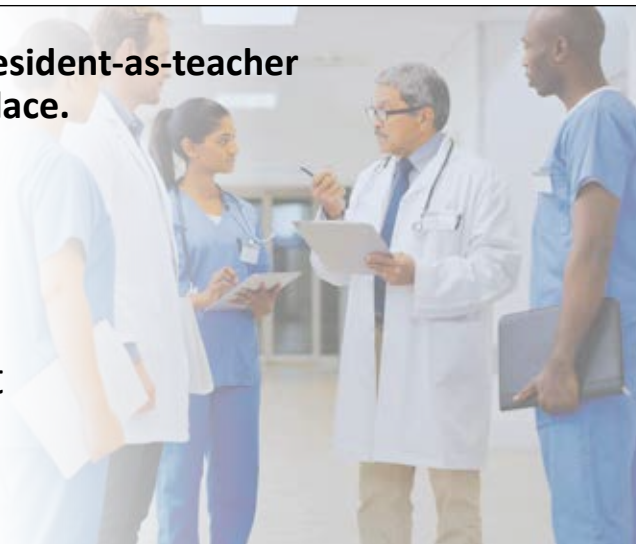
### Learning Management System for:

- Announcements
- Resources
- Archived Sessions Recordings
- Discussion Boards



## Ensure a robust resident-as-teacher curriculum is in place.

- ✓ Precepting
- ✓ Teaching
- ✓ Assessment



## Work closely with Department Chairs.



Identify local faculty champions



Identify local faculty needs



Ensure faculty clinical competence

## Reward faculty for participation.

1

Support faculty attendance for live, in-person, and synchronous sessions

2

Embed faculty development (e.g., micro-training) into monthly faculty meetings

3

Ensure participation is included in one's portfolio and taken into consideration for promotion milestones

1. Identify the medical education program objectives of the curriculum
2. Identify clerkship specific goals
3. Review essential policies and procedures when precepting students
4. Access resources that can assist with student instruction



Develop a one-stop resource for faculty when it comes to clinical skills instruction.

## Thank You!



1. Defined Clinical Skills
2. Conveyed that Faculty Are Essential
3. Discussed Faculty Development
4. Provided Examples in Practice
5. Shared Best Practices from Jefferson

[Dimitrios.Papanagnou@Jefferson.edu](mailto:Dimitrios.Papanagnou@Jefferson.edu)