

以醫療服務回饋社會

# EPAs評量前評核者之共識

- 1.如何建立評核教師的共識?
- 2.如何進行雙向回饋?

連恒煇 20230826



# **Mental Models**

# **Shared Mental Models are...**

"...knowledge structures held by members of a team that enable them to form accurate explanations and expectations for the task, and, in turn, coordinate their actions and adapt their behavior to demands of the task and other team members."

J. A. Cannon-Bowers, E. Salas, and S. Converse. Shared mental models in expert team decision making. In N. J. Castellan, editor, Individual and group decision making, pages 221 – 245. Lawrence Erlbaum Associates, 1993.



# **Key Thinking Concepts: Mental Models**

- 1. The Map is not the territory
  - "Maps are reductions of what they represent"
- 2. Circle of competence
  - "Understanding one's own circle of competence improves decision making and outcomes"
- 3. First principles thinking
  - "A tool to help clarify complicated problems by separating underlying facts from any assumptions based on them."

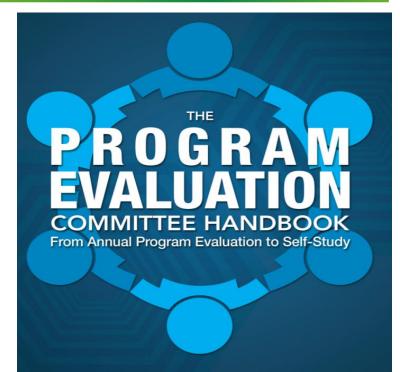


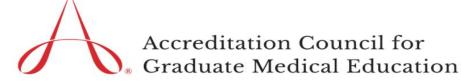
### 大綱

- CBME為主軸之醫學中心教學任務 & 核心能力
- PEC
- 行動載具APP教學評量系統
- Milestone & EPA
- Core EPAs of each teaching program
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- 主動學習專區及其評量之建構(Moodle)



#### PEC是甚麼?





What We Do

Designated Institutional Officials Program Directors and Coordinators

Residents and Fellows

Educ

Home > Program Directors and Coordinators > Welcome > Program Directors' Guide to the Common Program Requiremen

# Program Directors' Guide to the Common Program Requirements

- Launch an effective program evaluation committee
- Examine and complete the five areas of focus required by the ACGME
- Conduct the annual program evaluation
- Identify the strengths and weaknesses of your program and develop an action plan for improvement
- Understand the broad and loosely defined requirements for the program evaluation committee

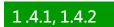




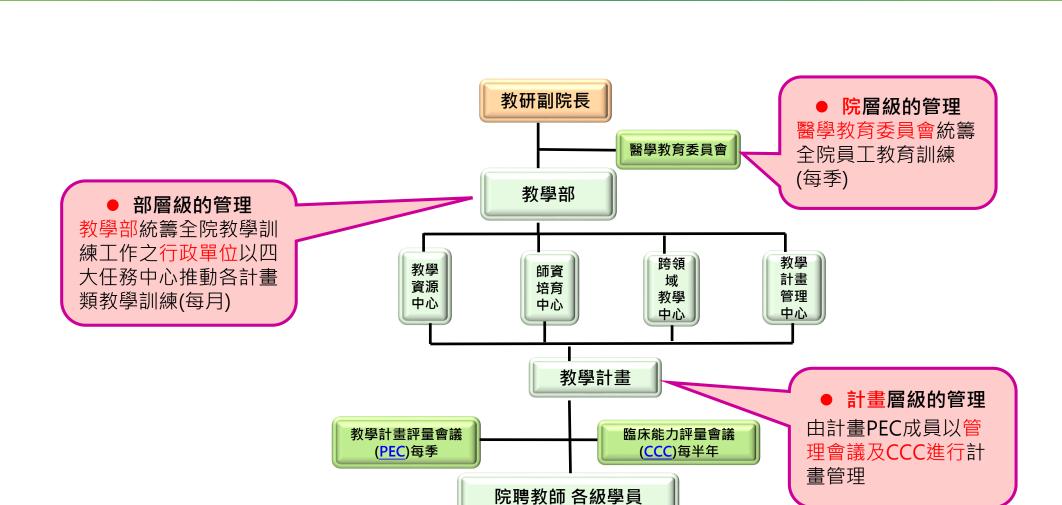
## Five Focus of PEC

- Resident performance
- Faculty Development
- Graduate Performance, including performance on certification examinations
- Program quality using resident/fellow and faculty surveys plus other evaluation sources
- Progress on the previous year's action plan

The Program Evaluation Committee Handbook: From Annual Program Evaluation to Self-Study... Chapter 3: The APE Five Focus Areas.



#### CGH教學推動相關組織架構







#### CGH PEC會議記錄全院共通範本

#### 填表完成時,請將本文中紅字以及此框格刪除,

#### 110 年度第一次教學計畫評量會議 會議記錄。

時 間:110年00月00日(星期00),00時00分。

地 點:0000000 。

主 席:OOO 主任 (本教學計畫主持人,請附職稱)。

與會人員:000、000、000、000、000、000、000、000、000

OOO、OOO (所有院聘教師及至少一位受訓學員代表)。

記 錄:000

#### 壹、上次會議決議事項追蹤報告。

- · xxxxxxxxx

說明:XXXXXXX 擬辦:XXXXXXX

決議: XXXXX

= • XXXXXXXXX

說明:xxxxxxxx

擬辦:XXXXXXX

決議: xxxxx

貳、評量事項。

一、 教學資源與管理。

#### i. 本期(1~3月)網路教學平台課程建置情況及評量方式↓

	位於 N	Moodle 中之計畫課程	建置₽
職級₽	課程名稱↓	評量方式↓ (Ex.筆試)↓	對應六大核心能力₽
R≠	EX:值班交接班須知÷	360 度評量₽	1~6₽
ø	EX:SDM 須知₽	Mini-CEX€	1~6₽
PGY₽	EX:工作須知(計畫☆ 週工作表 )P-1≠	360 度評量↓	1~6₽
ø	病歷書寫須知 P-2→	CpD₂	1~6₽
Student₽	EX:針扎預防須知₽	DOPS₽	1~6₽
ę	EX:值班工作常知 S-2÷	360₽	1~6₽

70.40	位於 E-Lear	rning 中之計畫	課程建置₽	位於院內網站組織單位中之計畫翻轉 學習課程₽				
職級。	課程名稱↓	評量方式↓ (Ex. \ (Ex. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	對應六大 核心能力↔	課程名稱↓	評量方式↓ (Ex.CbD)↓	對應六大核 心能力₽	1	
R₽	翻轉教學 課程 R-1≠	÷	1~6₽	翻轉教學 課程 R-1₽	4	1~6₽	]	
4	翻轉教學 課程 R-2	₽	1~60	翻轉數學 課程 R-2+	₽	1~6₽	,	
PGY.	翻轉教學 課程 P-1•	Đ	1~60	翻轉教學 課程 P-1₽	₽	1~6₽		
42	翻轉教學 課程 P-2+	47	1~6₽	翻轉教學 課程 P-2↔	₽	1~6+		
Student₽	翻轉教學 課程 S-1-	ø.	1~6₽	翻轉教學 課程 S-1₽	P	1~6₽	ŀ	
4	翻轉教學 課程 S-2→	₽	1~6₽	翻轉教學 課程 S-2₽	₽	1~6₽		

#### 填寫說明:表中紅字為範例,請參照填寫。有疑問請致電教學部。↓

#### ix. 本期教師使用電子評量次數統計(1-3 月獨立列表)~

#### [110年1月]√

教師姓名₽	CbD	Mini-CEX₽	DOPS₽	360 度₽	單位使用率%↓ (使用人数/總人数)↓
₽	4	₽	₽	₽	
₽	ė.	ė.	ė	ې	
₽	4	÷	₽	φ.	₽
₽	φ	4	₽	₽	

#### [110年2月]√

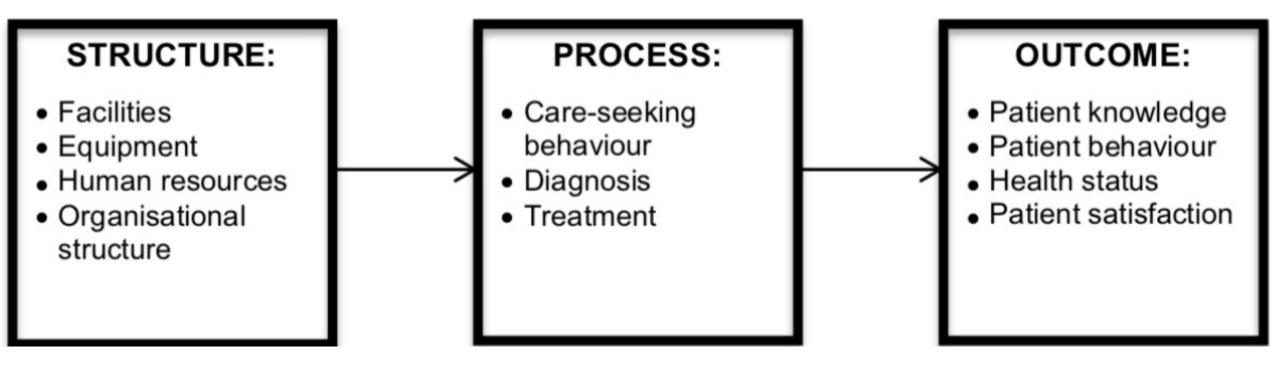
教師姓名₽	CbD <sub>2</sub>	Mini-CEX∉	DOPS₽	360 度₽	單位使用率%↓
42-1-22-0	9990				(使用人數/總人數)₽
ø.	٠	· ·	4	φ.	
P	٩	₽	4	φ.	
₽	φ	₽	₽	₽	₩
ę	ē	4	4	φ.	

#### [110年3月]√

CbD₀.	Mini-CEX₽	DOPS₽	360 度₽	單位使用率%↓ (使用人数/總人数)↓
47	₽	4	4	
4	₽	₽	₽	
t)	ė.	ē	4	
c)	4	φ	φ.	
	CbDe e	ChDe         Mini-CEXe           ψ         ψ           ψ         ψ           ψ         ψ           ψ         ψ	ChDe         Mini-CEXe         DOPSe           ψ         ψ         ψ           ψ         ψ         ψ           ψ         ψ         ψ           ψ         ψ         ψ	ChDe         Mini-CEXe         DOPSe         360 度e           ジ         ジ         ジ         ジ           ジ         ジ         ジ         ジ           ジ         ジ         ジ         ジ           ジ         ジ         ジ         ジ           ジ         ジ         ジ         ジ

	EPA1(一般病	EPA2(程序	EPA3(值班交	EPA4(會議表
	房照顧)	procedure)	班會診)	現;行政)
PC	<b>O</b>	<b>O</b>		
MK	0	0		
SBP			0	<b>O</b>
PBLI		<b>O</b>		<b>O</b>
P			0	0
ICS	<b>O</b>		<b>O</b>	

### The Donabedian Model 1988



Donabedian A. The quality of care: how can it be assessed? JAMA 1988; 260(12): 1743-1748.



# **Competency Frameworks**

#### **Competence**-based medical education

An observable ability of a health professional, integrating multiple components such as knowledge, skills, values and Attitudes.



### Core Components of CBME

- An outcomes based competency framework
- Progressive sequencing of competencies
- Learning experiences tailored to competencies
- Teaching tailored to competencies
- Programmatic assessment



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# Competency Map

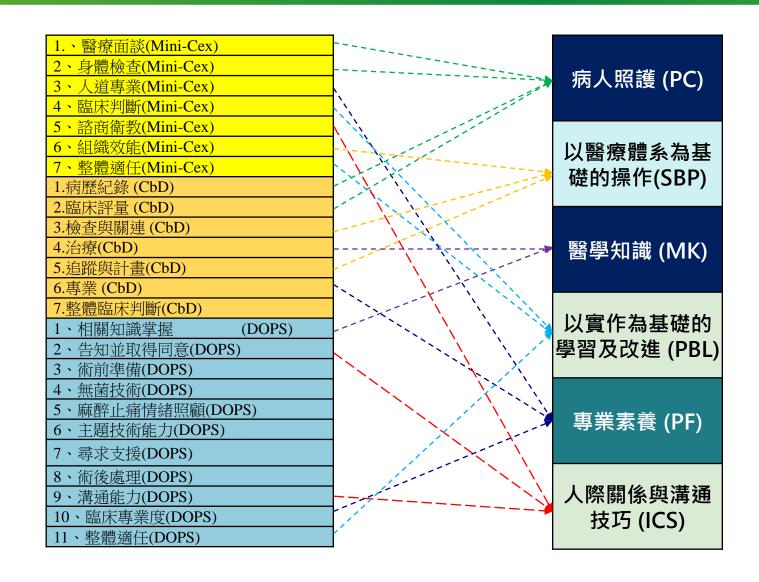
- ■ACGME 六大核心能力
- ■全人醫療 (body, mind, spirit, socioeconomic)
- Clinical thinking (Clinical reasoning)
- ■病人為中心 (SDM)

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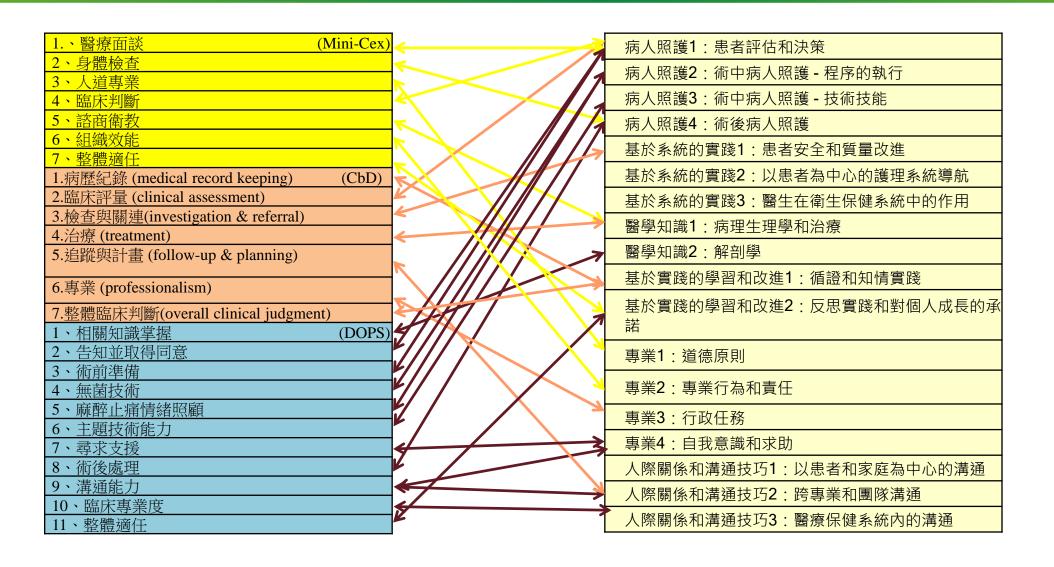


#### Mini-Cex、DOPS、CbD、360度對應 ACGME 六大核心能力





## MDC360對應GS Milestone 18 Sub-Competencies







### 智慧化評量系統







# 行動智慧化評量系統



#### 每月追蹤PGY學員教學評量各科完成率(11207)

1:1 P.1	4月(完成人數/	5月(完成人數/	6月(完成人數/	1:1 무리	4月(完成人數/	5月(完成人數/	6月(完成人數/
科別	輪訓人數(%))	輪訓人數(%))	輪訓人數(%))	科別	輪訓人數(%))	輪訓人數(%))	輪訓人數(%))
內科	12/13(92%)	13/14(93%)	7/13(54%)	放射線科	3/3(100%)	2/3(67%)	2/3(67%)
外科	12/12(100%)	10/12(83%)	11/11(100%)	家庭醫學	2/2(100%)	1/1(100%)	1/2(50%)
婦產科	4/4(100%)	4/4(100%)	3/4(75%)	皮膚科	1/1(100%)	1/1(100%)	1/1(100%)
兒科	4/4(100%)	4/4(100%)	3/3(100%)	精神科	1/1(100%)	1/1(100%)	1/1(100%)
急診	3/3(100%)	4/4(100%)	4/5(80%)	耳鼻喉科	1/1(100%)	1/1(100%)	0/1(0%)
老年醫學科	2/2(100%)	2/2(100%)	0/2(0%)	眼科	NA	NA	1/1(100%)
麻醉科	1/1(100%)	1/1(100%)	1/1(100%)	核子醫學	1/1(100%)	0/1(0%)	1/1(100%)
神經內科	NA	NA	NA	復健科	NA	NA	NA





#### 每季各教學計畫PEC統計計畫教師為各級學員評量份數

#### 〇〇科

教師完成各級學員電子評量次數統計(主持人應確認各級學員皆完成表定評量項目並確認計畫教師皆依醫院聘教職要求完成具信效度之評量)

教師姓名	CbD	Mini-CEX	DOPS (NA)	360度	單位使用率 % (使用人數/總 人數)
Α	0	0	0	0	
В	1	0	0	0	
С	1	1	0	1	
D	0	0	0	2	
Е	1	1	0	3	0.00/
F	1	3	0	0	90%
G	4	3	1	0	
Н	1	1	0	1	
I	1	1	0	0	
J	1	1	0	6	
完成份數/ 須完成份數	11/5份	11/5份	1/0份	13/2份	

科別	M	D	С	360
家醫科R(1位)	1次/月	NA	1次/月	NA
家醫科PGY(2位) (至該科僅1個月)	1次/月	NA	1次/月	1次/月

#### 職能治療

教師姓名 (應包含計畫 院聘教師)	СьD	Mini-CEX	DOPS	360度	單位使用率 % (使用人數/ 總人數)
1	6	0	0	9	
2	0	3	0	6	
3	0	3	6	4	1000/
4	0	5	0	6	100% (7/7)
5	0	7	4	2	(1/1)
6	0	2	0	2	
7	5	7	0	5	
完成份數/ 須完成份數	11/8份	27/20份	10/8份	34/16份	

#### 每學員本期應完成次數

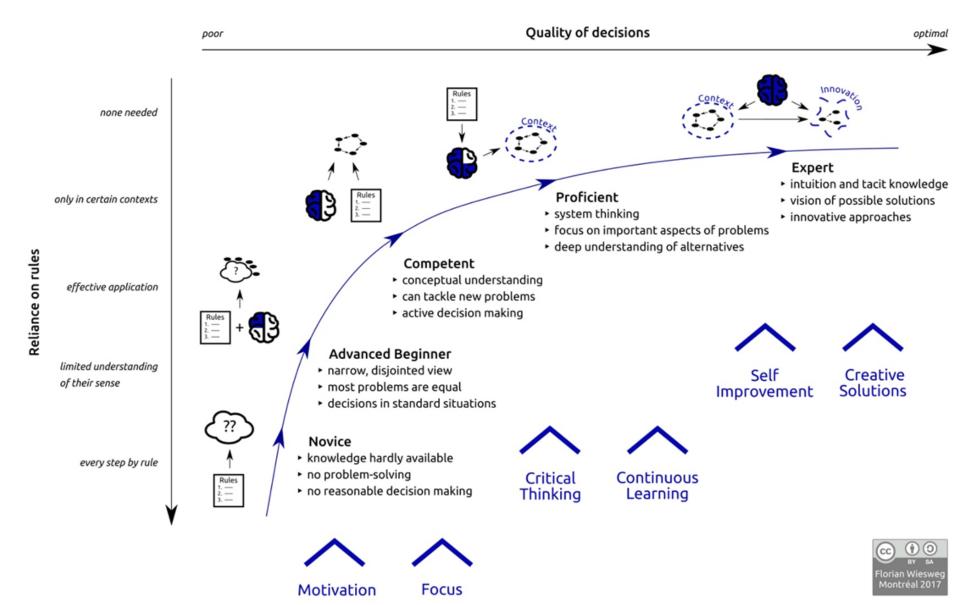
職能治療	M	D	С	360
PGY2(2位)	1	NA	1	1
實習學生(生理)(2位)	4	4	1	2
實習學生(兒童)(3位)	2	NA	1	2
實習學生(心理)(2位)	2	NA	1	2

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# Dreyfus Model of Skill Acquisition



#### What is a Milestone?

The Milestones provide the narrative descriptions of behaviors that represent the developmental progression of performance along a continuum from student to expert practitioner and should be used to guide learner assessment and ultimately entrustment decisions."

Carol Carraccio, MD, MA Chair, Pediatric Milestones Working Group

# ACGME Milestones since 2007(GS)

	Level 1	Level 2	Level 3	Level 4	Level 5		Level	I and 2	Level 3	Level 4	Level 5
Patient Care 1: Patient Evaluation and	Gathers necessary information and develop-	Evaluates natients: orders and interverts	Develops a plan to manage healthy potionte	Develops a plan to manage patients with	Develops a clinical pathway or outdaling for	Systems, Reced Practice 3: Physician Role in Health Con-	Level 1 Describes basic health payment systems, including	Level 2 Describes how working within the health care system	Level 3  Analyzes how personal practice affects the system (e.g.,	Level 4 Uses shared decision making in patient care, taking into	
Patient Care 1: Patient Evaluation and Decision Making			with straightforward conditions ( (e.g., colon cancer, breast cancer)	complex conditions (e.g., patient with multiple comorbidities) and conditions (e.g., hemorrhagic shock)	the management of patients with complex conditions	Systems-Based Practice 3: Physician Role in Health Care Systems	Describes basic health payment systems, including poveriment, private, public, and uninsured care as well as different practice models	Describes now working within the nearm care system impacts patient care	Analyzes now personal practice affects the system (e.g., length of stay, readmission rates, clinical efficiency)	Uses stated decision making in patient care, taking into consideration costs to the patient	Advocates or leads change to enhance systems for high- value, efficient, and effective patient care
		Manages non-operative patients with straightforward conditions (e.g., bowel obstruction, diverticulitis)	Adapts management plan for changing clinics situation (e.g., drainage of diverticular absces	Manages non-operative patients with complex conditions (e.g., severe pancreatitis)			Describes the key components of documentation for billing and coding	Documents the key components required for billing and coding	Describes basic elements needed to transition to practice teg_content expeditions, mulpractic insurance, government regulation, compliance, Medicare Access and CHIP Reauthorization Act)	Identifies resources and effectively plans for transition to practice (e.g., information technology, legal, billing and coding, financial, personnel)	Participates in advocacy activities for health policy
Patient Care 2: Intra-Operative Patient Care - Performance of Procedures	perionistrates basic skills (e.g., knot tying, suturing)	Performs bedside procedures (e.g., central in chest tube)	ererionis common operations (e.g., herma, cholecystectomy, appendectomy)	Performs complex operations (e.g., low anterior resection, paraesophegeal hemia, abdominal wall reconstruction)	Performs uncommon or aplex operations (e.g. Whipple, esophagectom )	Practice-Based Learning and Improvement I; Bridence- Based and Informed Practice	Demonstrates how to access and use available evidence, and incorporate patient preferences and values into the care of putients with routine conditions	Articulates clinical questions and chicks parient preferences and values in order to guide evidence-based care	Locates and applies the best available evidence, integrated with patient preference, to the care of patients with complex conditions	Critically appraises and applies evidence, even in the face of uncertain and/or conflicting evidence, to guide care, tailores to the individual potient	Coaches others to critically appraise and apply evidence for patients with complex conditions and/or participates in the development of guidelines
Des	CHU	elu	II pi	Glun	complex operations to junior cative techniques, passumentation, operations eapproaches, or	Practice-Based Learning and Improvement 2: Reflective Practice and Commitment to Personal Growth	Establishes goals for personal and professional developmen	Identifies opportunities for performance improvement designs a learning plan	Integrates performance feedback and practice data to develop and implement a learning plan	Revises learning plan based on performance data	Coaches others in the design and implementation of learning plans
					significant improvement in established techniques	Professionalism 1: Ethical Principles	Demonstrates knowledge of the ethical principles underlyin informed consent, surrogate decision making, advance directives, confidentiality, error disclosure, stewardship of limited resources, and related topics	Analyzes straightforward situations using ethical principles	Recognizes need to seek help in managing and resolving complex ethical situations	Recognizes and uses appropriate resources for managing at resolving efficial dilemmas, as needed (e.g., ethics consultations, literature review, risk management/legal consultation)	Identifies and seeks to address system-level factors that induce or exacerbate ethical problems or impede their resolution
OI C	OHIL	oete	псу			Professionalism 2: Professional Behavior and Accountabilit	Completes patient care tasks and responsibilities, identifies potential barriers, and describes strategies for ensuring timely task completion	Performs patient care tasks and responsibilities in a timely manner with appropriate attention to detail in routine structions	Performs patient care tasks and responsibilities in a timely manner with appropriate attention to detail in complex or stressful situations	Recognizes situations that may impact others <sup>2</sup> ability to complete patient-care tasks and responsibilities in a timely manner	Develops systems to enhance other a abelity to efficiently complete patient-care tasks and responsibilities
Driver Com to Dura Comprise Driver Com	sortive direction	proves forward in the operation out requires prompting to complete the operation	operation and anticipates next steps	Adapts to unexpected findings and events during the course of the operation	Danker Wilderhauserick Frank		Describes when and how to appropriately report lapses in professional behavior	Takes responsibility for his or her own professional behavior	Demonstrates professional behavior in complex or stressful situations  Exhibits ammorriste confidence and self-awareness of limit	Intervenes to prevent and correct lapses in professional behavior in self and others  Appropriately reports larses in professional behavior	Couches others when their behavior fails to meet professional expectations
Patient Care 4: Post-Operative Patient Care		(e.g., sepsis, anastomotic leak)	patient with complex conditions (e.g., renal failure, congestive heart failure, cirrhosis)	problems in patient with complex conditions	management of complex post-operative problems		Recognizes limits in the knowledge/skills of self and seeks help	hdp	in knowledge/skills	(simulated or actual)  Aids Junior learners in recognition of limits in	
	Manages routine post-operative course for a common operation (e.g., hernia, cholecystectomy, appendectomy)	Manages simple post-operative problems	Manages routine post-operative course for a complex operation (e.g., Whipple, esophagectomy)	Manages complex post-operative problems		Professionalism 3: Administrative Tasks	Takes responsibility for failure to complete administrative tasks and responsibilities, identifies potential contributing factors, and describes strategies for ensuring timely task completion in the future	Performs administrative tasks and responsibilities in a timely manner with appropriate attention to detail in routine situations	Performs administrative tasks and responsibilities in a timely manner with appropriate attention to detail in complex or stressful situations	Recognizes situations that may impact others' ability to complete administrative tasks and responsibilities in a timel manner	Develops systems to enhance other 's ability to efficiently complete administrative tasks and responsibilities
Medical Knowledge 1: Pathophysiology and Treatment	Demonstrates knowledge of pathophysiology and treatments of patients with common surgical conditions	Demonstrates knowledge of pathophysiology and treatments of patients with complex surgical conditions	Demonstrates knowledge of the impact of patient factors on pathophysiology and the treatment of patients with surgical conditions	Demonstrates comprehensive knowledge of the varying patterns of disease presentation and alternative and adjuvant treatments of patients with surgical conditions	Contributes to peer-reviewed literature on the varying patterns of disease presentation, and alternative and adjuvant treatments of patients with surgical conditions	Professionalism 4: Self-Awareness and Help-Seeking	Identifies the institutional resources available to marage personal, physical, and emotional health (e.g., some and chronic disease, substance abuse, and mental health problems)	Monitors his or her own personal health and wellness and appropriately mitigates fatigue and/or stress	Promotes healthy habits and creates an emotionally healthy environment for colleagues	Recognizes and appropriately addresses signs and symptom of burnout, depression, suicidal ideation, potential for violence, and/or substance abuse in other members of the health care team.	Couches others when emotional responses or limitations in knowledgeskills do not meet professional expectations
Medical Knowledge 2: Anatomy	Identifies normal anatomy (e.g., inguinal cana during common operations	didentifies variations in anatomy (e.g., bile due anatomic variations) during common operations	tidentifies normal anatomy (e.g., gastric blood supply) during complex operations	Identifies variations in anatomy (e.g., replaced right hepatic artery) during complex operations	Develops simulation models for teaching anatomy and operations		Demonstrates knowledge of the principles of physician well being and futigue mitigation	Manages his or her own time and assures fitness for duty	Models appropriate management of personal health issues, fatigue, and stress	Proactively modifies schedules or intervenes in other ways to assure that these caregivers under his or her supervision maintain personal wellness and do not compromise patient safety (e.g., roquires naps, counsels, refers to services, reports to program director)	
	Articulates the steps of common operations	Articulates the implications of varying anatomy on the steps of common operations	Articulates the steps of complex operations	Articulates the implications of varying anatomy on the steps of complex operations	Leads anatomy instruction for students and co-residents	Interpersonal and Communication Skills 1: Patient and Family-Centered Communication	Communicates with patients and their families in an understandable and respectful manner	Customizes communication, in the setting of personal biases and barriers (e.g., age, literacy, cognitive disabilities, cultural differences) with potients and families	Delivers complex and difficult information to patients and families	Facilitates difficult discussions specific to patient and famil conferences, (e.g., end-of-life, explaining complications, therapeutic uncertainty)	Coaches others in the facilitation of crucial conversations
Systems-Based Practice 1: Patient Safety and Quality Improvement	Demonstrates knowledge of common patient safety events	Identifies system factors that lead to patient safety events	Participates in analysis of patient safety event (simulated or actual)	sConducts analysis of patient safety events and offers error prevention strategies (simulated or actual)							
	Demonstrates knowledge of how to report patient safety events	Reports patient safety events through institutional reporting systems (simulated or actual)	Participates in disclosure of patient safety events to patients and families (simulated or actual)	Discloses patient safety events to patients and families (simulated or actual)	Mentors others in the disclosure of patient safety events	Interpersonal and Communication Skills 2: Interprofessiona and Team Communication	Provides tunicity updates to patients and families  Respectfully requests and receives a consultation	Actively listens to patients and families to elien patient preferences and expectations  Clearly and concisely requests and responds to a consultation	Uses shared decision making to make a personanzed care plan  Verifies understanding of recommendations when providing or receiving a consultation	effectively negotiates and manages contrict among patients families, and the health care team  Coordinates recommendations from different members of the health care team to continue national care, resolving	Coaches others in contrict resources  Coaches flexible communication strategies that value input from all health care team members
	Demonstrates knowledge of basic quality improvement methodologies and metrics	Describes local quality improvement initiatives (e.g., infection rate, hand hygiene, opioid use)	Participates in local quality improvement initiatives	Demonstrates the skills required to identify, develop, implement, and analyze a quality improvement project	Creates, implements, and assesses quality improvement initiatives at the institutional or community level	ase rom collinarias	the language of the second sec		The object of the communication	the health care team to optimize patient care, resolving conflict when needed	
Systems-Based Practice 2: System Navigation for Patient-Centered Care	Demonstrates knowledge of care coordination	Coordinates multidisciplinary care of patients in routine clinical situations (e.g., dressing change)	Coordinates and/or leads multidisciplinary care of patients in complex clinical situations (e.g., home parenteral nutrition, postoperative intravenous feeding, intensive care unit)	Coordinates care of patients with barriers to health care access (e.g., trauma patient with no access to care) or other disparities in care	Leads in the design and implementation of improvements to care coordination		cover ranginger than values as members of the health care team	Communicates information effectively with all health care ream members  Solicits feedback on performance as a member of the health care team	communicates concerns and provides feedback to peers and learners.	Communicates constructive feedback to superiors	Facilitates regular health care team-based feedback in complex situations
	Performs safe and effective transitions of care/hand-offs in routine clinical situations	Performs safe and effective transitions of care/hand-offs in complex clinical situations	Supervises safe and effective transitions of care/hand-offs of junior residents	Resolves conflicts in transitions of care between teams	Leads in the design and implementation of improvements to transitions of care	Interpressonal and Communication Skills 3: Communication within Health Care Systems	Accurately records information in the patient record, including appropriate use of documentation templates	Demonstrates efficient use of electronic medical record to communicate with the health care team	Integrates and synthesizes all relevant data from outside systems and prior encounters into the health record	Appropriately selects form and urgency of communication based on context	Guides departmental or institutional communication around policies and procedures

(18/161)

2007 Olle ten Cate, Academic Medicine, Can We Bridge the Gap between Theory and Clinical Practice?



### What is a EPA?

"We should only fully trust colleagues or trainees to carry out a critical activity once they have attained all the competencies that are needed to adequately complete this activity.."

Olle ten Cate, PhD, and Fedde Scheele, PhD. Viewpoint: Competency-Based Postgraduate Training: Can We Bridge the Gap between Theory and Clinical Practice? Academic Medicine. 2007: 82(6)

#### Frameworks of Milestone and EPA

Competence base analyze and Describe of curriculum

Activity base Describe and analyze of curriculum

Levels

Can We Bridge the Gap between Theory and Clinical Practice?

	Competency	Milestones (L1 to L5)		EPAs in Working
	Medical Knowledge	MK¹		
П		MK <sup>2</sup>		EPA1
lÌ	Patient Care	PC <sup>1</sup>		(L1 to L5)
П		PC <sup>2</sup>		
	Professionalism	Prof <sup>1</sup>		EDA2
		Prof <sup>2</sup>	<b>**</b> - ***	EPA2 (L1 to L5)
	Interpersonal Skills	ISC <sup>1</sup>	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	(E1 to E3)
П		ISC <sup>2</sup>	\	
۱Į	Systems-based Practice	SBP <sup>1</sup>	/ //	
١		SBP <sup>2</sup>	1253	
	Practice-based learning	PBLI <sup>1</sup>		EPA3
		PBLI <sup>2</sup>		(L1 to L5)

2007 Olle ten Cate, Academic Medicine, Can We Bridge the Gap between Theory and Clinical Practice?

Analyze to
Understand

Synthesize to
Educate and
Evaluate

Physicians prepared to meet the health care needs of the

population **EPA** in Training Competency Milestones **EPA** in Practice Medical Knowledge MK<sup>1</sup> "Lead" and work Lead & work within  $MK^2$ IP health care teams. with IP care team Patient Care  $PC^1$ PC<sup>2</sup> Professionalism Prof<sup>1</sup> Care for patients Care for patients Prof<sup>2</sup> with chronic illness with chronic diseases ISC1 with indirect **Interpersonal Skills** supervision ISC<sup>2</sup> Systems-based SBP<sup>1</sup> Practice SBP<sup>2</sup> Participate in QI and Enhance patient Practice-based PBLI<sup>1</sup> pt. safety initiatives safety. learning PBLI<sup>2</sup> Improve quality of health care



# Work place base teaching & learning

時間\日期。	~~~	<b>-</b> +	三。	四。	五↓
7:30~8:30 @	大外科。 Morning Meeting。 國壽 B1 第 31 會議室	Journal Meeting。 (每月第一、二週)。 國壽 B1 第 33 會議室。 M & M Conference。 大外科每月最後一週。 國壽 B1 第 31 會議室。	GS Grand Round	<u>外科部</u> 。 <u>教學專題演講</u> 。 國壽 B1 第 31 會議室。	外科部手術麻醉審查會議。 國壽 B1 第 31 會議室。 (每月第一、二週)。 SPC/CPC (倒數第二週)。 全院演講 (最後一週)。 本館七樓會議室。
8:30~12:00	Orientation。 課表介紹。 確認刷手無菌穿手術 衣。 排定 primary care 病 房。 /教學總醫師。	手術教學及討論。 開刀房。 開刀房。 黃清水顧問/。 連恒輝醫師。	9:00~12:00。 每小時一名學員輪流。 <u>門診教學</u> 。 連 <u>恒</u> 輝醫師。 101 診察室。 or <u>手術教學及討論</u> 。	9:00~12:00。 隔週。 <u>教學門診</u> 。 連恒煇醫師/第 329 診察 室。 <b>or <u>手術教學及討論</u></b> 蔡明霖醫師。 蔡欣恬醫師。	手術教學及討論。 黃清水顧問/。 戴鋒泉主任。 開刀房。
12:00~13:00		中午	休息 🖟		+
13:00~14:00	GI-GS Combine meeting (毎月第一、三週)。 國壽 B1 第 31 會議室	14:00~17:00。 每小時一名學員輪流。 門診教學。	1400。 病房教學迴診。	Primary care	1400。 病例討論。 25 病房。
14:00~17:00	14:00~17:00。 <b>門診教學</b> 戴鋒泉醫師 123 診察室。 Or 病房 primary care。	蔡明霖醫師。 123 診察室。 or 手術教學及討論。	連恒輝醫師。 教學總醫師。	Or 返校授課。	連短輝醫師。

#### **Entrustment decisions**

- Can be an <u>observer</u> only
- II Can practice this skill with <u>direct supervision</u> (supervisor in room)
- III Can practice this skill with <u>indirect supervision</u> (supervisor close by- e.g. conference room)
- IV Can perform skill <u>unsupervised</u>



### Novice To Expert:

## Level description of EPA and milestone

Level	Milestone	EPA	執行臨床任務 受信任程度	概略對應學員層級
1	incoming resident	Observation no execution	操作於病人時必由教師在旁直接協助逐步 共同操作	實習醫學生
2	not yet mid level	Execution with direct supervision	教師直接/完全督導下 必要時介入之操作	PGY PGY1
3	demonstrates majority target	supervision quickly available	教師間接/應學員請求 督導下允許執行 教師隨時侯傳,再度 確認 (double checked)	PGY2 R1 R2
4	graduation goal	Supervision at a distance	允許獨立操作執行, 教師事後確認即可	R3 R4
5	expert resident	Supervision junior	允許督導與教導其他 資淺學員同儕	R4~

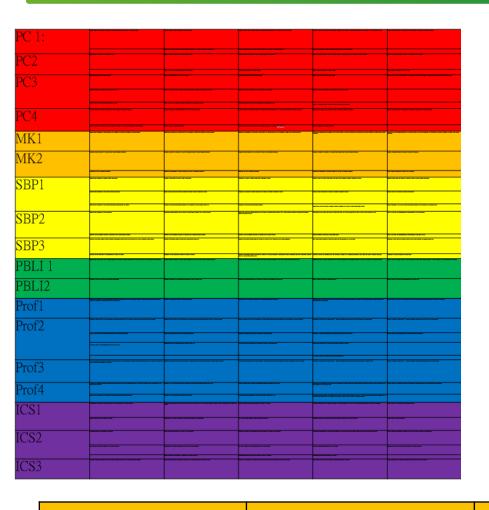
### What we had done for CBME

Core Components	Current status				
Framework	ACGME competencies; complete milestones or EPAs				
Progressing	Time-base with regular formative & summative assessments with certificate examination				
Tailored learn	Work place learning Monthly Assess	Mini-Cex DOPS CbD			
Tailored Teach	Observe and feedback Monthly Assess	Multi-Source Feedback(360)			
Programmatic assessment	Taiwan pilot Milestone project(RRC) since 2013 and EPA (PGY)since 2018				

## EPA share same sub-Competencies with milestone

			EPAs		
		Ward care	operation	值班, OPD & consultation	Meeting & Administration
	PC1	0		0	0
	PC2		0		
	PC3		0		
	PC4	0		0	0
ies	MK1	0		0	©
ACGME milestone subcompetencies	MK2		0		0
	SBP1	0		©	©
Con	SBP2	0		0	0
gns	SBP3	0		0	0
one	PBLI1	0		0	©
est	PBLI2		0		0
Ē	P1	0	0	©	0
J. ME	P2	0	0	©	
ACG	P3				©
	P4	0	0	0	0
	ICS1	0		©	
	ICS2	0		0	0
	ICS3	0		0	0

## Same Goals of EPAs & Milestones

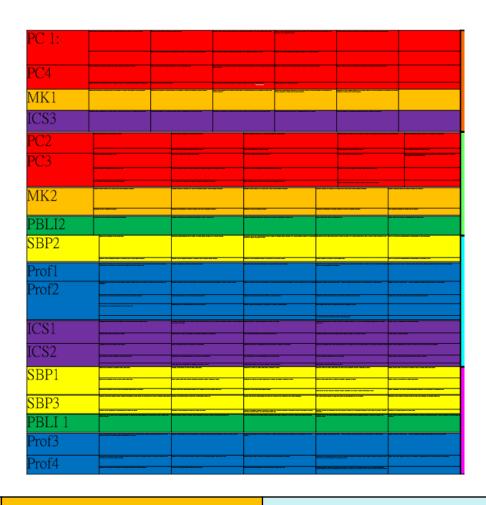












Competence
Framework

**Sequential Progression** 

Tailored
Learning
Experiences

Competencyfocused Instruction

Programmatic Assessment

### 大綱

- CBME為主軸之醫學中心教學任務 & 核心能力
- PEC
- 行動載具APP教學評量系統
- Milestone & EPA
- Core EPAs of each teaching program
- Clinical Competency Committee (CCC)
- 主動學習專區及其評量之建構(Moodle)





### EPA 1 = 4 sub-Competencies = 27 milestones)

#### 外科可信賴專業活動 EPA1:手術前後病人照護。

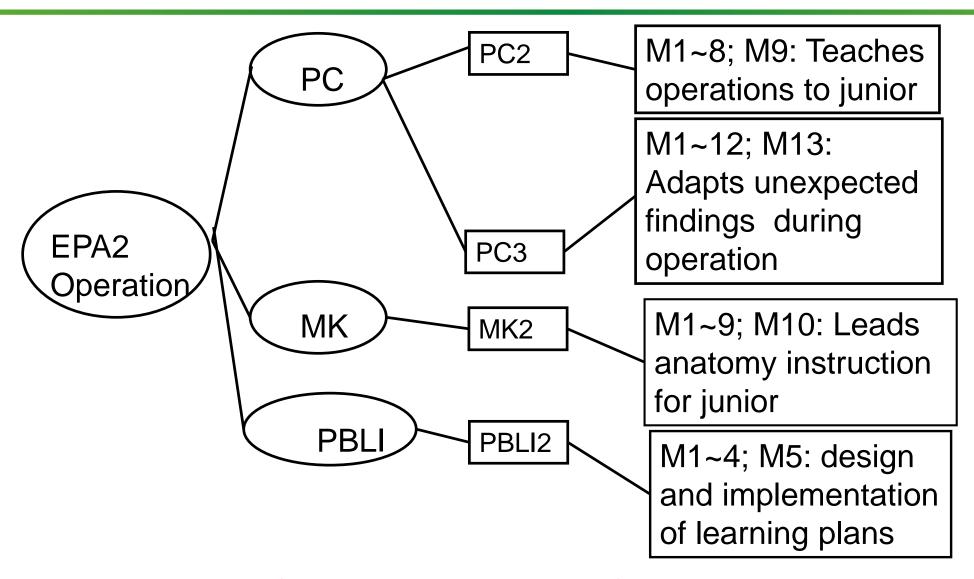
Tid Cd EDA		$\neg$
Title of the EPA.	Pre-operative evaluation, preparation and management	1
Specification and limitations	Risk assessment, pre-OP preparation, informed consent, communication with patient &	-
_	family, preparation of hemodynamic monitors, inotropic agents, blood components	
	Limitations: non ₽	
Most relevant domains of competence	PC1,4; MK1; ICS3 -	-
Required experience, knowledge,	K: pre OP prepare; Post OP complication, pathophysiology, differential	1
skills, attitude, behavior for	diagnosis and management of shock, fluid and blood transfusion management	
entrustment &	S: physical examination for airway, hemodynamic stability,	
	re-check and interpretation of pre-operative examinations,	
	hemodynamic monitoring and assessment, preparation of blood	
	components, change dressing, communication skills.	
	A: responsibility, alertness, efficiency	
Sources of information to assess	1. Peri-OP bedside procedure (DOPS x1);2. Interpretation of clinical recored (CbD x1);3.	4
progress and ground a summative	MSF(x1)	
entrustment decision	4. global rating (x1);	
Entrustment for which level of	Levels of entrustment: Achieve level 4 at the end of R4	4
supervision is to be reached at which	1. Observe, not act	
stage of training?	2. Direct supervision (present in the room, proactive)	
	3. Indirect supervision (not present; quickly available; reactive)	
	4. Unsupervised practice - only clinical oversight.	
	5. Permission to supervise junior learners.	
Expiration date	2years -	+

	外科 EPA1	: 手術前後住院病	人照護 被評	者姓名	_ 職級	
EPA1 - Peri-Operative Patient Care -	ACGME Subcompetence 項目編號↔	Level 1≠	Level 20	Level 3.	Level 4₽	Level 5.
手術前後病人照 護。	照 病人照護 1:。 患者評估和決 策。	收集患者必要的資訊並 列出鑑別診斷。	評估患者、開立診斷或 處治之醫囑。	針對病情單純健康患者 制定計劃(如結腸癌, 前列腺肥大)。	對病情複雜的患者"制 定計劃、如多種合併症 患者失血性休克)。	為複雜病情患者制定治療計劃或臨床路徑。
		ψ.	處理病情簡單直接的非 手術患者(如腸梗阻, 憩室炎)。	處理不斷變化的臨床情	- 000	€
		( 部分完成 )		,,, , , , , , , , , , , , , , , ,		- +
	病人照護 4:。 術後病人護理。	評估簡單的術後問題如 發燒,出血,低血壓 , 火尿。		評估複雜病情如賢袞。 竭,心衰竭,肝硬化) 患者的複雜術後問題。	預測和緩解複雜病情患 者的術後問題。	為複雜的術後問題制定。臨床路徑或指南。
		常規術後處置如, 孤, 氣, 膽囊切除術, 闌尾 切除術)。	簡單的術後處置。	複雜手術的常規術後處 置如 Whipple, 食道切	複雜的術後問題處置。	<i>₽</i>
				除術 <u>)</u> 口腔癌。 □ □ □ [		
	醫學知識 1: 病理生理和治療。	展示常見手術的病理生理學和治療知識。	展示複雜手術的病理生理學和治療知識。	生理和手術治療影	代及輔助治療的不同模	依實證文獻對同一疾病。 不同模式患者(如手 術條件)安排替代和 輔助治療。
	人際關係和溝 通技巧3:。 醫療保健系統	能使用適當文件格式 <u>樂</u> 確記錄患者的訊息。	能有效利用電子病歷與 醫療團隊溝通。	能將外部和之前的相關 資訊數據整合到病歷記 錄中。		能指導政策和程序相關。 的部門或機構溝通。
	內的溝通。	DA 1 5 L1				- e

請於方框中打勾評量 EPA 1~5 Level。

Rotate R: PGY goal level 1/R1 goal level 2/R2 goal level 3/Fix R (3~) goal level 4.









# EPA 1 Ward care = 4 sub-Competencies = 27 milestones)

`		I	T	T	T	Γ
EPA1	ACGME					
Peri-Operative	Subcompetence	Level 1	Level 2	Level 3	Level 4	Level 5
Patient Care	項目編號					
手術前後病人照		收集患者必要的資訊並	評估患者開立診斷或處	針對病情單純健康患者	對病情複雜的患者"制	為複雜病情患者制定治
護		列出鑑別診斷	治之醫囑	制定計劃(如結腸癌,	定計劃 (如多種合併症	療計劃或臨床路徑
	- 1 na 14t			乳腺癌)	患者失血性休克)	
	病人照護 1:		處理病情簡單直接的非	處理不斷變化的臨床情	處理病情複雜的非手術	
	患者評估和決		手術患者(如腸梗阻,	況(例如憩室膿腫引	患者如重症胰臟炎)	
	策		憩室炎)	流)的治療計劃"		
		( 部分完成 )	(線左項目	全部完成)		
		評估簡單的術後問題如	評估複雜的術後問題如	評估複雜病情如腎衰	預測和緩解複雜病情患	為複雜的術後問題制定
		發燒,出血,低血壓,	敗血症,吻合滲漏)	竭,心衰竭,肝硬化)	者的術後問題	臨床路徑或指南
		少尿		患者的複雜術後問題		
	病人照護 4:	常規術後處理如,疝	簡單的術後問題處理	複雜手術的常規術後處	複雜的術後問題處理	
	術後病人照護	氣,膽囊切除術,闌尾	. , ,	理如 Whipple, 食道切		
		切除術)		除術)		
						I
		展示常見手術條件患者	展示複雜手術條件患者	展示患者因素對病理	展示對疾病的表現和替	依實證文獻對同一疾病
			的病理生理學和治療知		代及輔助治療的不同模	
	病理生理和治		識		式的全面了解	條件)安排替代和輔助
	療					治療
	///					
					1	指導政策和程序相關的
	人際關係和溝	包括適當使用文件格式		據整合到病歷記錄中	當的溝通形式	部門或機構溝通
	通技巧3:	已行迎亩沃川又计俗式	六西凉田小舟也	10000000000000000000000000000000000000	由叫件地心式	四11以7双/再/再进
	系統內的溝通					
						_



## EPA 2 OP = 4 sub-Competencies =37 milestones)

	Level 1	Level 2	Level 3	Level 4	Level 5
	展示基本手術技能如打	執行床邊程序如	執行常規手術如疝	執行複雜手術如低位	執行罕見的複雜手術
	结,縫合	CVC,插胸管	氣,膽囊切除術,闌	前切除,食管旁疝,	(例如 Whipple,食道
			尾切除術	腹壁重建	切除術)
病人照護2:		傳授醫學生和初級住	教授初級住院醫師床	教授初級住院醫師的	教授初級住院醫師複
執行手術		院醫師基本技能如打	邊操作如 CVC,插胸	常見手術如疝氣,膽	雜的手術如低位前切
		結,縫合	管	囊切除術,闌尾切除	除,食管旁疝,腹壁
				術	重建
l i					
	組織處理技能有限	組織處理技能有時仔	始終如一地仔細的組	根據組織情況調整組	創新技術、儀器,或
		細有時粗糙	織處理	織處理	重大的改進
	需要提示識別適當的手	能識別適當的手術切	正常解剖結構術中手	異常解剖結構術中手	
	術切面(plane)	面(plane),但需要重新	術切面(plane) 和相關	術切面(plane) 和相關	
病人照護3:	-	定向以保持最佳組織	結構都能看得很清楚	結構都能看得很清楚	
手術技能		面的解剖位置			
	手術進行中總是須直接	手術進行中可以進行	在整個手術過程流暢	在手術過程中適當處	
	告知下一步驟	手術步驟但過程需要	地進行並可以預測後	理意外的發現和事件	
		提示以完成步驟	續步驟		
	在常規手術中識別正常	在常規操作期間識別	識別複雜手術中的正	識別複雜手術中解剖	開發教學解剖和操作
	解剖結構(如腹股溝)	解剖結構的變化(如膽	常解剖結構(如胃血	結構的變化(如異位	手術模型
醫學知識2:		管解剖變化)	液供應)	右肝動脈)	
解剖學	闡明常見手術的步驟	闡明不同解剖對常見	闡明復雜手術的步驟	闡明不同解剖對複雜	為學生和住院醫師提
		手術步驟的影響		手術步驟的影響	供解剖學指導
+ 4 1 13	為職崖及生崖設定目標	善用機會設定學習計畫	可以整合工作成果及回	根據表現數據修改學習	指導他人設計和實施
基於實踐的學		促進成長	饋數據以設計和調整學	計劃	學習計劃
習和改進2:			習計劃		
泰綜合醫院 y General Hospital		1			

# EPA 3值班及會診 = 5 sub-Competencies = 52 milestones)

	Level 1 ₽		Level 2 ₽	Level 3 ₽	Level 4 ₽	Level 5 🖟
基於系統的實踐 2:	具備跨域協調的知識↓	1.		在復雜情況下協調或領導跨領 城照護(如家庭腸外營養,加 護病房照護)↓	協調缺乏醫療保險患者的照護 (如無保險的患者)↓	領導協調改進照護的設計和實施↓
以患者為中心的護 理系統導航↓	在常規情況下執行安全有效的照 護/交接班。		〖雜的臨床情况下執行安全 【的照護/交接班↓	1 - 1	解決團隊之間交接班的衝突↓	領導照護交接班流程的設計。 進和實施↓
	展示知情同意,代理決策,預立 醫囑,保密,錯誤披露,有限資 源管理以及相關主題的道德原則 知識↓		道德原則分析面臨的狀況	根據需要導求協助處理和解決 複雜的道德情況↓		德問題或阻礙其解決的系統!
專業 1: 道德原則 專業 2:專業行為和	完成惠者照護職責,識別潛在障 。礙,並描述確保即時完成任務的 策略。	1 -				開發系統以提高其他人有效成患者護理任務和職責的能
責任↓	描述何時以及如何恰當地報告職 業行為的失誤↓			為々	糾正自我和他人的專業行為以 預防失誤↓	專業期望 ₽
	認識到自我知識/技能的限制並 尋求幫助。		‡求幫助↓	表現出對知識/技能限制的適 當信心和自我意識。	適當報告職業行為失誤(模擬 或實際)幫助初學者認識其知 識/技能的限制。	l .
人際關係和溝通技 巧 1:以患者和家庭	以可理解和尊重的方式與患者及 其家屬進行溝通↓	<b>礙</b> 障碌	者和家屬的個人偏見和障 (例如,年齡,識字,認知 ē,文化差異)的背景下進 通↓	的信息₽	安排針對困難議題(如死亡, 解釋併發症,治療不確定性) 的家庭會議↓	指導其他人進行關鍵對話↓
為中心的溝通。	能對惠者和家屬進行及時有效之 訊息更新↓	積相		使用共享決策制定個性化的照 護計劃↓	有效地協商和管理患者,家屬 和醫療團隊之間的意見衝突↓	指導其他人解決意見衝突。
		•				
	尊重請求並接受諮詢↓	明研	<b>而簡要地請求及回應諮詢</b>	在提供或接受諮詢時驗證對建 議的理解↓	協調醫療團隊不同成員的建議 解決衝突優化惠者照護¢	靈活運用溝通策略,重視所 醫療團隊成員的意見↓
人際關係和溝通技 巧 2:跨專業和團 溝通↓		溝道	信息₽	使用積極的傾聽來調整溝通方式以適應團隊需求中 (連續期計並如同供和總則本提	在危機情況下保持有效溝通↓ 向上級傳達建設性的反饋意見	在復雜情況下促成醫療團隊 意見回饋 a
	4	鬼男	(對營寮保健剧隊的回饋↓	傳達關注亚向同伴和學習者提 供反饋↓	同上級傳達建設性的及領意見	4 4
						□ +



# EPA 4 會議及行政= 4 sub-Competencies = 37 milestones)

,						
	Level 1₽	Le	vel 2 <i>₽</i>	Level 3 ₽	Level 4 ₽	Level 5 ₽
	俱備常見病人安全事件的知識↓	確定導致病人 因素↓		參與病人安全事件的分析 √模 擬或寬際 √	對病人安全事件進行分析並提 供錯誤預防策略(模擬或實際)	積極參與團隊和流程以修改系。 統以防止病人安全事件發生↓
	俱備如何報告病人安全事件的↓ 知識↓	通過機構報告 際)報告病人		參與向患者和家屬披露患者安 全事件(模擬或實際)↓	向患者和家屬披露病人安全事 件(模擬或實際)↓	指導其他人披露病人安全事件。
基於系統的實踐 1,3:建構以患者為	俱備基本質量改進方法和指標↓ 的知識↓		改進舉措 (如感 生,阿片類藥物	參與當地的質量改進計劃₽	展示識別,開發,實施和分析 質量改進項目所需的技能↓	在機構或學會層面創建,實施。 和評估質量改進計劃↓
中心的照護統及醫		***	ī [		<u> </u>	] 4
師在健保系統中的 作用↓ ↓	一 描述基本的健保支付系統,包括 政府,私人,公共和未保險的護 理以及不同的實踐模型↓	描述醫療保健何影響患者護	.,	分析個人實踐如何影響系統↓ (例如,住院時間,再入院率, 臨床效率)↓	在患者護理中使用共同決策, 同時考慮患者的費用↓	倡導者或領導者改變以增強高。 價值,高效和有效的患者護理 系統↓
		記錄計費和編 件4		瞭解過渡到實踐的基本要素↓ (如合同談判,醫療事故保 險,政府監管,醫療保險和	確定過渡到實踐的資源和有效 計劃(例如,信息技術,法律 , 計費和編碼,財務,人事)↓	
				授權)₽		
		-				
基於實踐的學習和 改進1:擴斃和知情				的最佳證據,以便為患有復雜		指導其他人批判性地評估和應。 用複雜病症患者的證據和/或 參與製定指南↓
實踐₽		<u> </u>	7 -		1	٠
	能了解管理任務和職責潛在的↓ 影響因素,並描述確保即時完成 任務的策略↓	, ,	任務和職責↓		認識到可能影響他人及時完成	開發系統以提高其他人有效完。
			1 [			
專業 3,4:行政任 務,自我覺察和求 助↓	經問題的機構資源 (例如急性 和慢性疾病、藥物濫用和心理			察覺並適當地解決團隊其他成 員的倦怠,抑鬱,自殺意念,暴 力或藥物濫用的跡象和症狀↓		教導團隊成員控制不當情緒改 進知識技能以符合專業之水準
	具備醫療人員健康和疲勞營理↓ 的知識↓	適當管理個人		保在其監督下人員保持個人健 康並且不損害患者安全(例 如,需要小睡,諮詢服務,向	行調整以確保其監督下的團隊 人員保持個人健康維護病人安	47
Catnay General Hospital				-1 -1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		



## 大綱

- CBME為主軸之醫學中心教學任務 & 核心能力
- PEC
- 行動載具APP教學評量系統
- Milestone & EPA
- Core EPAs of each teaching program
- Clinical Competency Committee (CCC)
- 主動學習專區及其評量之建構(Moodle)



#### **ACGME CCC Guidebook 2017**

The CCC serves several purposes, for the program director, the program itself, the faculty, the residents/fellows, the ACGME, and the specialty.

The ultimate purposeis to demonstrate our accountability as medical educators to the public, that our graduates will provide high quality, safe care to our patients and maintain the standards of the health care system."



#### **Clinical Competency Committees**

A Guidebook for Programs
3rd Edition

Kathryn Andolsek Duke University

Jamie Padmore Medstar-Georgetown

Karen E. Hauer University of California at San Francisco

> Andem Ekpenyong Rush University Hospital

> > Laura Edgar ACGME

Eric Holmboe ACGME

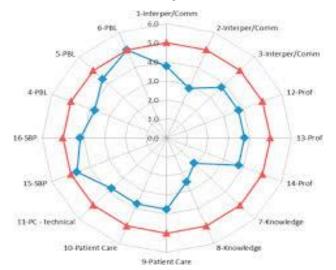


# What is a Clinical Competency Committee (CCC)?

"A CCC is a required body comprising three or more members of the active teaching faculty who is advisory to the program director and reviews the progress of all residents in the program."



(ACGME Glossary of Terms 7/1/2013)





# **CCC** Role

Problem Identification Model	Developmental Model
<ul><li>Focus on identifying</li></ul>	<ul> <li>Discuss all residents</li> <li>Assist all residents on</li></ul>
struggling learners <li>More common</li>	their learning trajectory

Acad Med 2015 Hauer et al. Reviewing Residents' Competence: A Qualitative Study of the Role of Clinical Competency Committees in Program Assessment,

### CCC purposes

- For the program director, the program itself, the faculty, the residents/fellows, the ACGME, and the specialty.
- The ultimate purpose is to demonstrate our accountability as medical educators to the public
- Our graduates will provide high quality, safe care to our patients and maintain the standards of the health care

### Andolsek et al. ACGME CCC Guidebook 2017



## 111 年度外科教學計畫臨床能力評量會議 會議記錄表

時 間:	111 年 4 月 15 日,上午 8 時 30 分
地 點:	第 33 會議室
主 席:	
與會人員:	
記 錄:	管理師
討論對象:	R4
	R3
	R2
	R1



# 各級學員訓練與評量結果: 多元評量考核統計

學員	職級		多元評量工具(至少兩種,列出單次成績或多次平均成績並註明是否符合教學目標, 只列出所實施之評量)									
姓名		病歷寫作 評核	mini-CEX	DOPS	CbD	MSF 360度	RRC住院醫師 評分表					
1	R2	7.5		4.7	4.3	7.4	87.7					
2	R2	8.0		4.3	4.8	6.3	90.7					
3	R2			5.0	4.7	7.9	86.3					
4	R2	7.1	7.9		4.6	7.4	88.3					
5	R2	7.3			4.6	7.6	90.6					
6	R2	7.3			4.3	7.7	87.6					
7	R2	7.0			4.8	7.7	89.3					
8	R2	7.1	8	4.1	4.5	8.6	90.3					
9	R1	7.8	7.7	5.0	5.1	7.8	88					
10	R1	7.1		5.3	4.0	8.3	87.3					
11	R1	6.4			5.0	7.2	86.3					
12	R1	7.4		5.2	4.6	7.3	90					
13 國泰綜合醫院	R1	7.3		4.0	4.0	7.7	84.3					





# 可信賴專業活動考核情形統計

			R2:1	R2	2	R1	.:1	R1	.:2
		自評	委員共識	自評	委員共識	自評	委員共識	自評	委員共識
	病人照護1	5	3.8	5	3.8	3	2.5	3	2.1
   E1	病人照護4	4	3.8	4	3.5	3	2.3	2	1.9
= 1	醫學知識1	4	3.6	4	3.3	5	2.2	2	1.7
	人際關係溝通3	4	4.1	4	3.5	5	2.3	3	1.9
	病人照護2:	5	3.6	5	3.4	3	2.2	3	2.0
	病人照護3:	4	3.5	4	3.4	3	2.2	2	1.8
E2	醫學知識2:	4	3.5	5	3.5	3	2.1	1	1.7
	實踐學習改進2	4	4.0	4	3.5	5	2.5	1	1.9
	系統實踐2:	5	3.9	5	3.5	3	2.1	4	1.9
	<b>車坐1</b> 2	5	3.7	5	3.3	5	2.0	4	1.9
E3	專業1,2	4	4.3	4	3.5	6	2.1	3	1.8
	人際關係溝通1:	4	3.7	5	3.7	4	2.1	4	1.8
	人際關係溝通2:	4	3.8	3	3.3	4	2.2	2	1.8
	系統實踐1,3:	4	3.7	4	3.7	3	2.1	1	1.9
	水 炒 貝 攻 1,5	4	3.8	4	3.5	3	2.1	1	1.7
E4	實踐學習改進1:	5	3.9	4	3.5	4	2.1	4	1.8
	專業3,4:行政	4	3.9	5	3.4	5	2.1	3	1.5
	寸 ホン,す・11 以	4	3.7	4	3.5	5	2.3	5	1.8
		4.3	3.8	4.3	3.5	4	2.2	2.7	1.8



# 各級學員學習成果回饋(請由教師填寫)

學員姓名	職級	回饋及改善
1	R2	CbD 準備詳盡 DOPS 學習認真,能勝任交付之任務 360度評量 同僚人際關係協調能力佳,專業素養醫學知識優,病人照護態度佳(同儕)
		<ul><li>▶工作認真負責,聰明伶俐(主治醫師)</li><li>▶學姊工作認真,好相處,願意給予學弟妹協助(同儕)</li></ul>
2	R2	CbD 分析有條理,診斷和評估得宜  本病例為38歲之年輕男性,PSA超過4ug/ml,為少見之病例,學習內容為Biopsy之決定施行與否,本病例PSA追蹤一年仍見上升,因此TRUSBx indicated。學習PSA高之病人何時應予施行TRUS-Bx。  >foley沒尿除了血塊造成的阻塞之外,還有很多其他原因,需先排除病人因為腎臟功能受損或sepsis造成沒尿,可由bedside echo或PE做鑑別診斷 DOPS 達文西手術準備有一定的程度,無菌觀念好  >可以正確判讀腎臟缺損影像,並適切說出鑑別診斷  >攝護腺手術後之導管放置並不容易,要多次學習才能避免錯置。  >學員有認真在教師指導下學習。  >尿路動力學的判讀很重要,需注意病人檢查時的情緒。 360度評量學習能力很強表現稱職中規中矩期望在未來能夠加強教學與研究的表現(主治醫師)
		▶積極參與臨床照護,與團隊成員及同儕討論及個案檢討,能及時處置病患問題,與團隊 其他成員互動良好,能適時解除護理人員的疑惑(資深護理師)

### EPA學員自評及委員評量摘要

		R1		R1		R2		R2		R3		R3		R3		R4		R4	
		自	評	自	評	自	評	自	評	自	評	自	評	自	評	自	評	自	評
E	PA1:病人照護 1:評估和決策	4	3	4	3.6	5	4.8	5	4.9	4	6	7	6	7	7	6	6.5	7	7
疖	5人照護 4:術後照護	4	2.9	3	3.5	5	4.5	4	4.9	4	6	7	6	7	7	6	7.0	7	8
知	u識 1:病理生理和治療	4	3	3	3.5	5	4.7	5	5.2	4	6	7	6	7	7	6	6.5	7	8
漳	ţ通 3:醫療系統內溝通	4	3	3	3.5	5	4.6	5	5.2	4	6	7	6	7	7	6	7.0	7	7
	PA2 引人照護 2:執行手術	4	2.8	3	3.2	6	4.7	5	4.9	6	6.3	5	6.5	7	6.5	6	6.7	5	7
病	5人照護 3:手術技能	4	2.8	3	3.3	5	4.6	4	5.1	5	6.3	6	6.5	7	7	6	7.0	5	7.5
医	§學知識 2:解剖學	4	2.8	3	3.3	5	4.6	4	4.9	5	6.7	6	6.5	7	7	6	6.7	5	7
學	習和改進 2:個人成長	4	3.2	4	3.3	6	4.6	5	5.3	5	6.7	6	6.5	7	7	6	7.0	5	7
E	PA3 SBP 2:以患者為中心系	4	3.2	3	3.5	5	4.5	5	5.0	6	6.5	7	7	7	7	6	6.5	7	8
專	ī業 <b>1,2</b> :道德專業責任	4	3.3	3	3.8	6	4.6	5	5.3	6	7.0	6	8	7	6	6	6.5	7	8
		4	3.2	3	3.6	6	4.6	5	5.2	6	6.5	6	7	7	7	6	6	7	7
湋	葬通 1: 患者及家屬溝通	4	3.0	3	3.4	6	4.6	5	5.0	6	6	7	7	7	7	6	6.5	7	8
湋	<b>達通 2:跨團隊溝通</b>	4	3.2	3	3.7	5	4.7	5	5.2	6	6	7	7	7	7	6	6.5	7	8
E	PA4: SBP 1,3	4	3.2	4	3.7	5	4.4	5	5.1	4.5	6	6	7	7	7	6	6.5	8	8
學	學習和改進 1:循證和實踐	4	2.9	3	3.6	6	4.6	5	4.6	5	6	6	7	7	7	6	6.5	8	8
專	專業 <b>3,4</b> :行政任務	4	3	3	3.3	5	4.7	5	5.1	4	6	6	7	7	7	6	6	8	8

# ●如何進行雙向回饋

6.2.3 評估教學成效及訓練成果,並提供新進醫事人員適當之反映管道



(學生填寫)本次評量中・教師指正教學內容:
□1.醫療面談 □2.身體檢查 □3.人道專業 □4.臨床判斷 □5.諮商衛教 □6.組織效能 □7.整體適任 □8.其他 (學生填寫)學員所學習之內容或需改進事項:
(老師填寫)本次評量教師對於學員學習成效總評: 帶入片語
門診注意親切態度為病人服務
(老師填寫)本次評量用於CCC會議的參考強度: ◎強 ○一般
臨床教師簽章: 連恒煇(229151)(2023/08/10) 學員簽章:
■ 暫存 ■ 完成 ✓ 結案 ■ 教學部完成 ■ 修改記錄 ■ 列印

#### What is Feedback?

"Feedback is defined as a regulatory mechanism where the effect of an action is fed back to modify and improve future action" (Ramani, JGIM 2019)

- Learner centered
- Social context is key



### Why is it important?

- Feedback keeps learners on course towards their goals
  - Correct problems
  - Reinforce effective performance
  - Helps learner become competent

#### Characteristics of effective feedback

- Specific
- Timely
- Based on behaviors/observations
- Non-judgmental
- Action plan with learner involvement

What does the learner do with the feedback?

# Factors influencing learners' acceptance of feedback

### "Credibility:

- learner-teacher relationship
- the manner of delivery
- perceived intentions of feedback providers
- direct observation of performance
- congruence of data with self-assessment, and perceived threat to selfesteem or autonomy"



#### **ADAPT**

### ■ **A**sk

• Self-assessment



#### **■** Discuss

- What as done well?
- What could be done more effectively?

#### Ask

- Get response to the feedback
- ? Receptivity



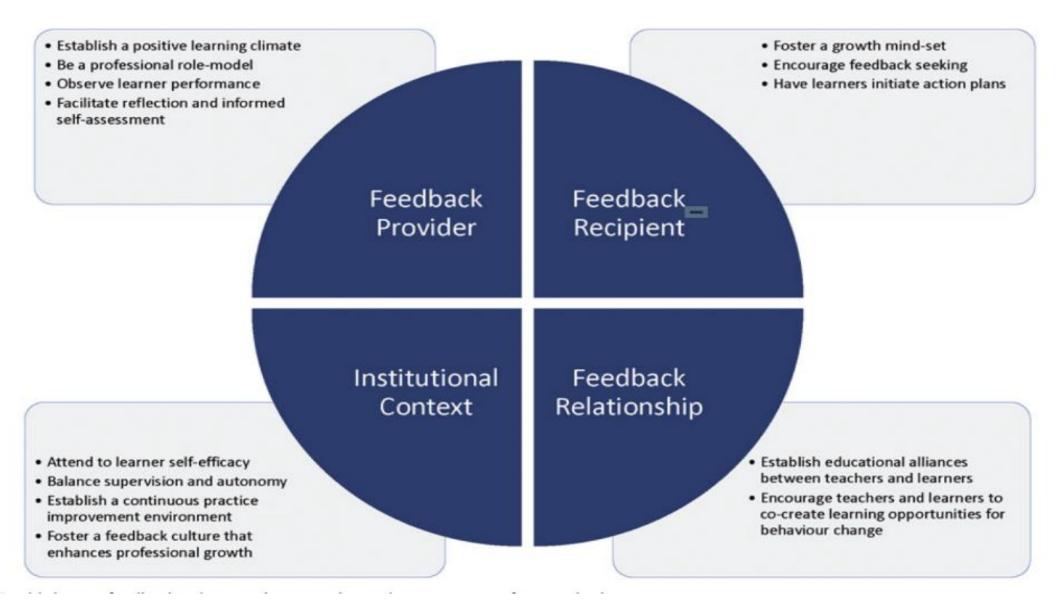


- PT Plan Together
  - Engage the learner in developing an action plan
  - Feasible?
  - Follow up?





### Twelve tips to promote a feedback culture with a growth mind-set





### Share mental model of Faculty

- Faculty need to be able to:
  - Develop a shared understanding of the milestones/EPAs
  - Use a variety of teaching methods
  - Assess clinical skills
    - Observe
      - Know what to look for
      - Develop language to describe that which is observed
  - Engage in feedback dialogues with learners

	教師評分	學生評分	教師回饋	學生回饋
EPA1				
EPA2				
EPA3				
EPA4				





### 反思

- ■強化學員學習自覺
- ■強化教學評量中之描述性(narrative description)回饋
- ■各級學員EPA符合標準設定
- ■對未達期待學員之輔導機制