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# Pathway to Competence: Surgical Foundations

### Attached to this PDF is a printable Table of Contents

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### The Pathway to Competence: Understanding its origins and purpose

Every discipline that transitions to Competence by Design (CBD) develops a Pathway to Competence document (the pathway) as part of the discipline's CBD educational standards suite. The pathway helps to highlight the foundational connection between CanMEDS and the rest of the CBD design, including stages of training, milestones and EPAs.

The pathway illustrates the progression of a resident's competence through 4 stages of training in a given discipline or special program. These stages include Transition to Discipline, Foundations of Discipline, Core of Discipline, and Transition to Practice. The pathway presents the CanMEDS milestones (observable markers) that the resident must acquire in order to attain the exit competencies outlined in the Discipline Competencies.

# Using the Pathway to Competence: Curriculum mapping and learning plans

The material in this document is subject to change. It is the user's responsibility to ensure that he/she is using the latest version, which is accessible via the <u>Royal College's website</u>.

The pathway document can be used to:

- Build a curriculum map
  - [Program directors, clinician educators, educational designers, curriculum planners]
    - o describe the skills to be developed at each stage of training;
    - identify those milestones likely to be observed as part of the work based assessment program; and
    - $\circ$   $\,$  identify those skills that may need additional learning experiences at each stage of training.
- Create individualized learning plans
  - identify why a resident might be struggling and what skills the resident needs to progress along the competence continuum [Advisors/supervisors; program directors]; and
  - project an educational roadmap that helps residents identify their own learning objectives. [Learners]

Please note that this may not be an exhaustive list of uses and/or users. The pathway document is relatively new to Canadian residency training and, as a result, it is too early to know all of the different ways that people will use it. If you use this document in other ways, please consider letting us know so we can share this with others.

Contact us at cbd@royalcollege.ca if you have any questions or comments about this document.

# Understanding the structure and format of the Pathway to Competence document

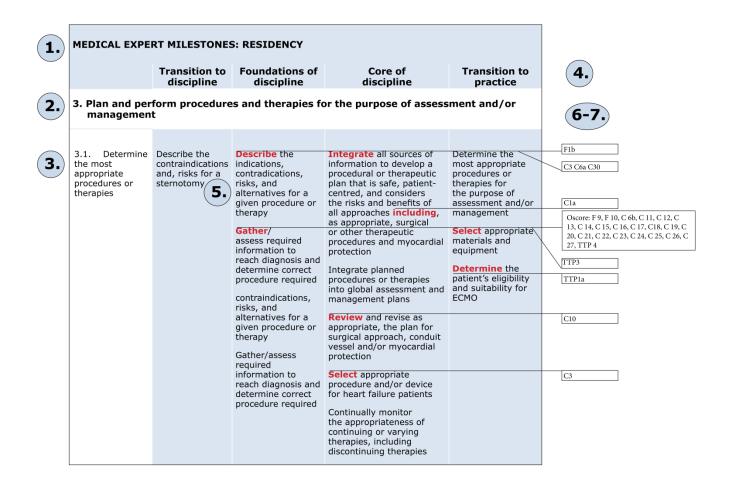
The *Pathway to Competence* is presented as a chart with the competencies, organized by CanMEDS Role, appearing down the *y-axis*, and the stages of training as columns along the *x-*axis. Each row displays the milestones for the associated enabling competency, allowing readers to see a progression across stages. Ultimately, the *Pathway to Competence* also allows for customized isolated views. For example, a preceptor can see all of the Medical Expert milestones that a resident must achieve in the Core of Discipline stage, or she can view the ideal progression for just one particular key competency (e.g. handover).

The following information provides guidance on navigation and interpretation of the various elements of this technical document.

- When working with the electronic version of the pathway, you will find a navigation bar on the left hand side of the PDF. This will support quick and easy transition between sections of the document.
- The Medical Expert Role tends to have the most specialty specific content, which is why it tends to be the longest section of the pathway.
- You will find that there is some discipline-specific customization at the enabling competency level and significant discipline-specific customization at the milestone level.

The following examples highlight some of the different elements of the pathway and should help users navigate through the document.

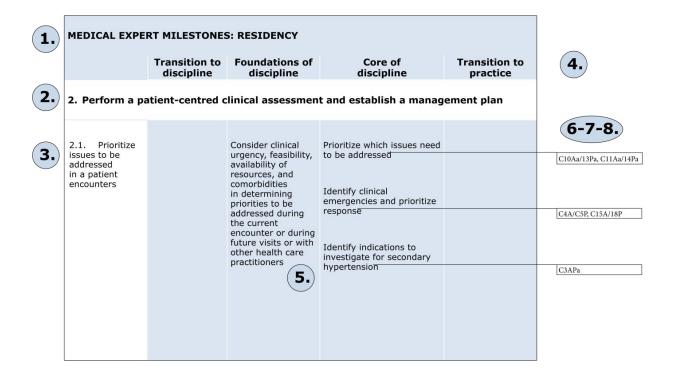
# **Example 1- Cardiac Surgery**



- 1. **CanMEDS Role**: At the highest level, the competencies in the pathway document are organized by CanMEDS Role. There are 7 sections in the Pathway to Competence Document (i.e. 1 per CanMEDS Role)
- 2. **Key Competencies**: Under each CanMEDS Role you will find a series of key competencies.
- 3. **Enabling Competencies**: Under each key competency there are a number of sub-competencies, known as enabling competencies.
- 4. **Stages**: In CBD, the <u>Competence Continuum</u> includes four stages of training: Transition to Discipline, Foundations of Discipline, Core of Discipline, and Transition to Practice. The 4 stages are presented as columns along the *x*-axis of the table
- 5. Milestones: In CBD, milestones are written to describe the markers of an individual ability in relation to a CanMEDS enabling competency. The milestones are stage specific, which means that a trainee within that particular stage should be working to develop and demonstrate competence at this level for this enabling competency.
- 6. **EPA Tags**: Throughout the document there are a series of comment boxes, which function as EPA tags. These tags tell you which EPAs use this milestone (in other words, which tasks use this ability); from the perspective of teaching and learning, this tag tells you under which EPAs that milestone will be observed.
  - Not every milestone is tagged to an EPA. You should be mindful of the tagging / lack of tagging in the context of curriculum mapping. If there's a tag, there is a good chance that the milestone will be taught/observed in a clinical setting. If there are no tags, then you will want to ensure the content is covered in other educational experiences.
  - Note: each tag starts off with "Comment [XX#]. This information is generated automatically during document development. You can ignore this information as it is irrelevant from a user's perspective.
- 7. **Tagging convention**: The EPAs are tagged with a particular naming convention (i.e. letters followed by numbers).
  - The letters refer to the stage of training.
    - TTD = Transition to discipline
    - F = Foundation of training
    - C = Core of training
    - TTP = Transition to practice
  - The numbers following the letters refer to the number of the EPA in that particular stage.
  - Some EPAs are bolded. This bolding is a visual cue to indicate that this particular milestone is incorporated in the EPA's observation form.
  - Some EPAs include OSCORE in the tag. These milestones are common to an observation form used for surgical procedures, and therefore represent common skills for a surgical discipline.

- Some EPA include an a or b in the tag. This refers to EPAs in which the
  observation plan has multiple parts. (e.g. part (a) is about clinical
  assessment and part (b) is about multisource feedback)
- 8. **Coding for adult/pediatric streams**: In some cases, there may be a letter after the number (i.e. an A or P). the letter refers to the stream within the discipline to which this item is applicable (e.g. a milestone with a code of TTP1AP means that this milestone is evaluated in EPA 1 of Transition to Practice and the milestones is applicable to both the adult and pediatric stream).

# **Example 2- Nephrology**



2018

Comment [FV6]: F 1 a

VERSION 1.0

Effective for residents who enter training on or after July 1st 2018

MEDICAL EXPERT MILESTONES: RESIDENCY			
	Transition to discipline	Foundations of discipline	
1. Practise medicine within their defined sco	pe of practice and expertise		
1.1. Demonstrate a commitment to high-quality care for their patients		Demonstrate compassion for patients	
1.2. Integrate the CanMEDS Intrinsic Roles into their practice	Explain how the Intrinsic Roles need to be integrated in surgical practice to deliver optimal patient care		
1.3. Apply knowledge of the clinical and biomedical sciences relevant to Surgical Foundations	Apply knowledge of the different tubes, drains and lines used in the care of the surgical patient, the indications for their use and the risks associated with them	Apply clinical and biomedical sciences to manage core patient presentations in surgical practice  Apply knowledge of anatomy relevant to the surgical site	Comment [FV2]: F 1 a, F 3, F 6, F 7 a, F 8, F 9  Comment [FV1]: TTD 7  Comment [FV3]: F 6
1.4. Perform appropriately timed clinical assessments with recommendations that are presented in an organized manner		Perform focused clinical assessments with recommendations that are well-documented  Recognize urgent problems that may need the involvement of more experienced colleagues and seek their assistance immediately	Comment [FV4]: F 2 , F 3 , F 7 a, F 8  Comment [FV5]: F 1 a , F 2 F 6 F 8
1.5. Carry out professional duties in the face of multiple competing demands		On the basis of patient-centered priorities, seek assistance to prioritize multiple competing tasks	

that need to be addressed

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	TO COMPETENCE (2018)

 Recognize and respond to the complexity, uncertainty, and ambiguity inherent in surgical practice Identify clinical situations in which complexity, uncertainty, and ambiguity may play a role in decision-making

Recognize own limits and seek assistance when necessary

Develop a plan that considers the current complexity, uncertainty, and ambiguity in a clinical situation

Comment [FV7]: TTD 1

Comment [FV8]: TTD 2

MEDICAL EXPERT MILESTONES: RESIDEN	CY
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### Transition to discipline

### Foundations of discipline

### 2. Perform a patient-centred clinical assessment and establish a management plan

2.1. Prioritize issues to be addressed in a patient encounter

Identify the concerns and goals of the patient and family for the encounter

Identify patients at risk for sudden deterioration in clinical status requiring closer follow-up

Perform the Airway Breathing and Circulation (ABC) protocol

Perform initial resuscitation according to ACLS quidelines

Demonstrate situational awareness

2.2. Elicit a history, perform a physical exam that is relevant, concise and accurate to context; select appropriate investigations; and interpret their results for the purpose of diagnosis and management, disease prevention, and health promotion Elicit a history and perform a physical exam that informs the diagnosis

Develop a differential diagnosis and adjust as new information is  $\left| \text{obtained} \right|$ 

Select necessary initial investigations to assist in diagnosis and management

Iteratively establish priorities as the patient's situation evolves

Prioritize the clinical assessment of a patient with traumatic injury following ATLS guidelines

the patient's presentation

Select and/or interpret appropriate investigations

Develop a specific differential diagnosis relevant to

and/or interpret appropriate investigations and/or imaging with sufficient attention to clinical details

Interpret common and simple investigational modalities:

- Plain chest X-ray
- · Plain views of the abdomen

Comment [FV9]: TTD 1

Comment [FV12]: F 2

Comment [FV10]: TTD 4

Comment [FV11]: TTD 2

Comment [FV13]: TTD 1 , TTD 2

Comment [FV16]: F 1 a, F 2 , F 3, F 8

Comment [FV14]: TTD 2

**Comment [FV17]:** F 1 a, **F 3**, F 8

Comment [FV15]: TTD 2

Comment [FV18]: F 1 a

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2.3. Establish goals of care in collaboration with		<ul> <li>Common cross-sectional imaging</li> <li>Routine imaging in trauma</li> <li>Ultrasound</li> <li>Electrocardiogram (ECG)</li> <li>Work with patients and their families to</li> </ul>
patients and their families, which may include slowing disease progression, treating symptoms, achieving cure, improving function, and palliation		Address with the patient and family their ideas about the nature and cause of the health problem, fears and concerns, and expectations of health care professionals
2.4. Establish a patient-centred management plan	Develop an initial management plan for common patient presentations in surgical practice  Use appropriate prophylaxis:	Develop and implement initial management plans for common problems in surgical practice  Ensure that the patient and family are informed about the risks and benefits of each treatment option in the context of best evidence and guidelines, addressing fears and concerns  Discuss clinical uncertainty with the patient and family  Develop and implement plans for pre-operative optimization of patients:  • Burns and thermal injuries  • Cardiac disease  • Arrythmias  • Heart failure  • Ischemic heart disease  • Valvular heart disease  • Disorders of hemostasis; congenital and acquired  • Endocrine disease  • Adrenal  • Diabetes

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Comment [FV19]: F 4

Comment [FV22]: F 1 a

Comment [FV20]: TTD 1

Comment [FV23]: F 4

Comment [FV21]: TTD 7

Comment [FV24]: F 4

Comment [FV25]: F 3

- o Thyroid
- Patient with immunosuppression
  - o Chronic disease states
  - Human immunodeficiency virus infection and acquired immune deficiency syndrome (HIV/AIDS)
  - Secondary to medications
  - Post-transplant
- Infections
- Liver disease
  - o Cirrhosis and its complications
- Malnutrition
- · Morbid obesity
- Pregnancy
- · Pulmonary disease
  - Respiratory failure
  - Chronic obstructive lung disease (COLD)
  - o Sleep apnea
- Renal disease
  - Acid-base and electrolytes disorders
  - Renal dysfunction
- Shock of all types
- Trauma/thermal injury (according to ATLS protocols)

Manage unexpected peri-operative bleeding (both surgical and nonsurgical)

Use appropriate prophylaxis:

- Antibiotic
- Thromboembolic
- Immunization

Comment [FV26]: F 1 a

Comment [FV27]: TD 6, F 3, F 5 a

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MEDICAL EXPERT MILESTONES: RESIDENCY	Transition to discipline	Foundations of discipline	
3. Plan and perform procedures and therapies	s for the purpose of assessment and/or manage	· ·	
3.1. Determine the most appropriate procedures or therapies		Describe the indications, contraindications, risks, and alternatives for a given procedure or therapy  Describe to patients common procedures or therapies for common conditions in their discipline  Inform the patient and family concerning alternatives for operative and non-operative care  Gather and/or assess required information to determine the procedure required	Comment [FV28]: F 3  Comment [FV29]: F 1 b
3.2. Obtain and document informed consent, explaining the risks and benefits of, and the rationale for, a proposed procedure or therapy	Describe the ethical principles and legal process of obtaining and documenting informed consent  Obtain and document informed consent for simple wound closure	Obtain informed consent for commonly performed procedures and therapies, under supervision  Assess patients' decision-making capacity	Comment [FV30]: TTD 1  Comment [FV32]: F 3, F 4  Comment [FV33]: F 3, F 4  Comment [FV31]: TTD 6
3.3. Prioritize procedures or therapies, taking into account clinical urgency and available resources	Recognize and discuss the importance of the triaging and timing of a procedure or therapy  Determine the priority with which various problems with in-situ tubes, drains and lines require intervention	Consider urgency and potential for deterioration, in advocating for the timely execution of a procedure or therapy	Comment [FV34]: TTD 1  Comment [FV36]: F 1 a, F 2, F 3, F 8  Comment [FV35]: TTD 7
3.4. Perform procedures in a timely, skillful and safe manner, adapting to unanticipated findings or changing clinical circumstances	Demonstrate effective procedure preparation, including the use of a pre-procedure time-out or surgical safety checklist as appropriate  Set up and position the patient for a procedure  Perform pre-procedural tasks in a timely, skillful,	Perform pre-procedural tasks in a timely, skillful, and safe manner  • Apply aseptic technique for all procedures  • Gather and manage the availability of appropriate instruments and materials for minor procedures	Comment [FV59]: F 2  Comment [FV60]: F 5 a  Comment [FV37]: TTD 5  Comment [FV61]: F 5 a  Comment [FV38]: F 1 b

### and safe manner

- Ensure maintenance of sterility
- Maintain universal precautions
- Ensure safe handling of sharps
- Hand-cleanse, gown and glove

Perform pre-procedural tasks for a simple wound closure

- Apply aseptic technique
- Gather and manage the availability of appropriate instruments and materials for minor procedures
- Obtain appropriate assistance
- Position the patient appropriately
- Prepare the operative site
- Hand-cleanse, gown and glove
- Demonstrate appropriate draping of the patient
- Deliver pre-procedural local anesthesia if appropriate

Perform procedural tasks in a timely, skillful and safe manner:

- Use common surgical instruments, including but not limited to needle drivers, retractors, forceps, clamps, and scissors
- Select and use suture materials
- Assess the quality of the closure

- Obtain appropriate assistance
- Position the patient appropriately
- Mark appropriate side/site
- Prepare the operative site
- Cleanse the operative site
- Demonstrate appropriate draping of the patient
- Deliver pre-procedural local anesthesia, if appropriate

Perform procedural tasks in a timely, skillful, and safe manner:

- Use common surgical instruments, including but not limited to needle drivers, retractors, forceps, clamps, electrocautery, scalpel, and scissors
- Provide operative assistance
  - Demonstrate how to provide operative assistance as necessary for the safe and effective performance of operative procedures
  - o Take direction from a lead surgeon
- Use operative assistance appropriately
  - Recognize when to use operative assistance as necessary for the safe and effective performance of operative procedures
  - Demonstrate an understanding of personal technical limitations
  - o Direct assistants
- Select and use suture materials
- Select and use drains and tubes, as appropriate

Comment [FV40]: TTD 5 Comment [FV62]: F 5 a Comment [FV41]: TTD 5, F 5 a Comment [FV63]: F 5 a Comment [FV42]: TTD 5 Comment [FV64]: F 5 a Comment [FV43]: TTD 5, F 5 a Comment [FV65]: F 5 a Comment [FV66]: F 5 a Comment [FV44]: TTD 6 Comment [FV67]: F 5 a Comment [FV45]: TTD 6 Comment [FV46]: TTD 6 Comment [FV68]: F 5 a, F 6 Comment [FV69]: F 5 a, F 6 Comment [FV47]: TTD 6 Comment [FV48]: TTD 6 Comment [FV49]: TTD 6 Comment [FV70]: F 6 Comment [FV50]: TTD 6 Comment [FV51]: TTD 6 Comment [FV52]: TTD 6 Comment [FV71]: F 6 Comment [FV53]: TTD 6 Comment [FV54]: TTD 6

Comment [FV39]: TTD 5

Comment [FV72]: F 6

Comment [FV55]: TTD 6

Comment [FV73]: F 6

Comment [FV56]: TTD 6

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Perform common procedures in a skillful, fluid and safe manner

- unblock tubes and/or drains
- closure of simple wounds

Perform surgical techniques in a timely, skillful, and safe manner:

- Incision using sharp and energy-based instruments
- Blunt and sharp dissection without injury to adjacent structures
- Tissue handling with attention to the preservation of tissue vitality
- Vascular control in elective and critical situations
- Hemorrhage control pack , apply pressure (simple bleeding)
- Knot tying and suturing
- Closure of layered incision
- Insertion and removal of drains
- Selection and application of a wound dressing
- Insertion of a urethral catheter
- Insertion of a nasogastric tube
- Application of a tourniquet
- Application of a splint for bony injury or soft tissue injury
- Drainage of a superficial abscess
- Biopsy
- Securing arterial and venous vascular access in critical and non-critical situations
- Debridement of pressure sore or foot ulcer

Perform common procedures in a skillful, fluid and safe manner :

- Needle thoracostomy
- Tube thoracostomy

Comment [FV57]: TTD 7

Comment [FV58]: TTD 7

Comment [FV74]: F 2 , F 6

Comment [FV75]: F 6

Comment [FV76]: F 6

Comment [FV77]: F 6

**Comment [FV78]:** F 2

Comment [FV79]: F 6

Comment [FV80]: F 6

Comment [FV81]: F 6

Comment [FV82]: F 6

Comment [FV83]: F 2

Comment [FV84]: F 2

Comment [FV85]: F 1 b

Comment [FV86]: F 1 b

**Comment [FV87]:** F 1 b

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- Central venous line access
- Surgical airway:
  - Needle cricothyroidotomy
  - o Cricothyroidotomy or tracheostomy

Perform post-procedural tasks in a timely, skillful, and safe manner:

- Prepare and handle specimens for intraoperative consultation with a pathologist
- Use appropriate specimen collection techniques, including choosing correct specimen container and fixative/preservative
- Perform appropriate wound surveillance and dressing care

Seek assistance as needed when unanticipated findings or changing clinical circumstances are encountered

Establish and implement a plan for post-procedure care

Comment [FV88]: F 1 b

Comment [FV89]: F 1 b

Comment [FV90]: F 5 a, F 7 a

**Comment [FV91]:** F 5 a

Comment [FV92]: F 5 a, F 7 a

Comment [FV93]: F 1 b

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	Transition to discipline	Foundations of discipline
4. Establish plans for ongoing care and, whe	n appropriate, timely consultation	
4.1. Implement a patient-centred care plan that supports ongoing care, follow-up on investigations, response to treatment, and further consultation	Identify the potential need for consultation	Coordinate investigation, treatment, and follow-up plans when multiple physicians and healthcare professionals are involved  Ensure follow-up on results of investigation and response to treatment  Apply standardized care paths, including patient education components  Implement a post-operative care plan for patients with an uneventful post-operative course  Implement a post-operative care plan for patients with a complicated post-operative course  • Fever  • Cardiac disorders  • Arrhythmias  • Heart failure  • Ischemia  • Gastrointestinal disease:  • GI bleeding  • Ileus  • Pulmonary disease  • Aspiration pneumonia  • Hospital-acquired pneumonia  • Pneumothorax

Comment [FV94]: TTD 2

Comment [FV95]: F 1 a, F 3, F 7, F 8

Comment [FV96]: F 7 a, F 8

Comment [FV97]: F 4

Comment [KJ98]: F 7 a

Comment [KJ99]: F 8

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- o Pulmonary embolus
- o Respiratory failure
- Renal disease:
  - Acid-base and electrolyte disorders
  - o Oliguria; anuria
  - Renal failure
- Vascular disease:
  - o Deep venous thrombosis
- Sepsis associated with
  - Catheter
  - o Superficial surgical site infection
  - Deep surgical site infection
- o Compartment syndromes
  - Abdominal
  - o Limb
- Fat embolism
- o Pressure sores

Establish plans for ongoing care, taking into account the patient's clinical state as well as available resources

Implement management to stabilize the patient prior to additional testing or transfer

Identify the needs of the patient and appropriately consult other health professionals as  $\left|\text{indicated}\right|$ 

Comment [FV100]: F 2

Comment [FV101]: F 2

Comment [FV102]: F 8

MEDICAL EXPERT MILESTONES: RESIDENCY	Transition to discipline	Foundations of discipline	
5. Actively contribute, as an individual and as patient safety	a member of a team providing care, to the conti	inuous improvement of health care quality and	
5.1. Recognize and respond to harm from health care delivery, including patient safety incidents	Recognize the occurrence of a patient safety incident  Differentiate outcomes of medical conditions and diseases from complications related to the inherent risks of treatments and from patient safety incidents	Prioritize the initial medical response to adverse events to mitigate further injury  Incorporate, as appropriate, into a differential diagnoses, harm from health care delivery  Demonstrate an understanding of the steps to take when there has been a break in universal precautions or sterility contamination  Prevent complications that stem from operative positioning  Recognize the occurrence of a patient safety incident	Comment [FV103]: F 5 a  Comment [FV104]: F 5 a  Comment [FV105]: F 8
5.2. Adopt strategies that promote patient safety and address human and system factors	Describe common types of cognitive and affective bias  Describe the principles of situational awareness and their implications for medical practice	Use cognitive aids such as procedural checklists, structured communication tools, or care paths, to enhance patient safety  Describe strategies to address human and system factors on clinical practice  Apply an error prevention system in the operating room	Comment [FV106]: F 3 , F 5 a, F 7

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	Transition to discipline	Foundations of discipline
1. Establish professional therapeutic relationsh	hips with patients and their families	
1.1. Communicate using a patient-centred approach that encourages patient trust and autonomy and is characterized by empathy, respect, and compassion	Communicate using a patient-centred approach that facilitates patient trust and autonomy and is characterized by empathy, respect, and compassion	
<ul> <li>.2. Optimize the physical environment for patient comfort, dignity, privacy, engagement, and safety</li> </ul>	Mitigate physical barriers to communication to optimize patient comfort, privacy, engagement, and safety	Optimize the physical environment for patient comfort, privacy, engagement, and safety
1.3. Recognize when the perspectives, values, or biases of patients, physicians, or other health care professionals may have an impact on the quality of care, and modify the approach to the patient accordingly	Respect diversity and differences in decision-making, including but not limited to those that arise as an impact of:  • Age  • Cultural beliefs  • Family composition  • Gender and gender identity  • Religion  • Sexual orientation  • Socioeconomic status	
.4. Respond to a patient's non-verbal behaviours to enhance communication	Identify, verify and validate non-verbal cues on the part of patients and their families  Use appropriate non-verbal communication to demonstrate attentiveness, interest, and responsiveness to the patient and family	

Comment [FV107]: TTD 1

Comment [FV109]: F 2 , F 4

omment [FV108]: TTD 1, TTD 2

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Identify and effectively explore issues to be addressed in a surgical patient encounter, including but not limited to the patient's context and preferences which include items to be addressed such as age, ethnicity, gender, family,

and religious beliefs

1.5. Manage disagreements and emotionally Recognize when personal feelings in an encounter are valuable clues to the patient's emotional state charged conversations Manage challenging conversations: Comment [VF110]: F 4 · Addressing anger, confusion and misunderstanding Cultural differences Language barriers Delivering bad news Disclosing adverse events Discussing end-of-life care Discussing organ donation Differing abilities (hearing loss, vision loss, education, etc.) 1.6. Adapt to the unique needs and preferences of Encourage discussion, questions, and interaction each patient and to his or her clinical condition to validate understanding during the encounter Comment [FV111]: F 3 , F 4, and circumstances 2. Elicit and synthesize accurate and relevant information, incorporating the perspectives of patients and their families 2.1. Use patient-centred interviewing skills to Conduct a patient-centred interview, gathering all effectively identify and gather relevant relevant biomedical and psychosocial information biomedical and psychosocial information for any clinical presentation Comment [FV112]: TTD 1 Integrate and synthesize information about the patient's beliefs, values, preferences, context and expectations with biomedical and psychosocial information Comment [FV113]: TTD 1

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Comment [FV114]: TTD 1

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2.2. Provide a clear structure for and manage the flow of an entire patient encounter	Conduct a focused and efficient patient interview, managing the flow of the encounter while being attentive to the patient's cues and responses		Comment [FV115]: TTD 1
2.3. Seek and synthesize relevant information from other sources, including the patient's family, with the patient's consent	Seek and synthesize relevant information from other sources, including the patient's family, hospital records and other health care professionals, with the patient's consent		Comment [FV116]: TTD 1, TTD 2, TTD 3
3. Share health care information and plans w	ith patients and their families		
Share information and explanations that are clear, accurate, and timely while checking for patient and family understanding	Obtain appropriate consent for sharing information  Communicate the plan of care in a clear, compassionate, respectful, and accurate manner to the patient and family  Recognize when to seek help in providing clear explanations to the patient and family  Plan and discuss appropriate post-operative care and issues with patients and families	Use strategies to verify and validate the understanding of the patient and family with regard to the diagnosis, prognosis, management plan and/or discharge plan  Plan and discuss appropriate post-operative, immediate and/or long-term care and issues with patients and families as appropriate	Comment [FV119]: F 3 , F 7a, F 8  Comment [FV117]: TTD 7
3.2. Disclose harmful patient safety incidents to patients and their families accurately and appropriately		Describe the steps in providing disclosure after patient safety incident	Comment [FV121]: F 8
4. Engage patients and their families in develo	oping plans that reflect the patient's health care	needs and goals	
4.1. Facilitate discussions with patients and their families in a way that is respectful, non-judgmental, and culturally safe	Conduct an interview, demonstrating cultural awareness	Explore the perspectives of the patient and other when developing care plans  Communicate with cultural awareness and sensitivity	Comment [FV122]: F 4

SURGICAL	FOUNDATIONS PATHWAY TO COMPETENCE (201)	8)
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4.2. Assist patients and their families to identify,
access, and make use of information and
communication technologies to support their
care and manage their health

Encourage discussion, questions, and interaction in the encounter

Answer questions from the patient and family about next steps

Comment [FV123]: F 7a

4.3. Use communication skills and strategies that help patients and their families make informed decisions regarding their health

5. Document and share written and electronic information about the medical encounter to optimize clinical decision-making, patient safety, confidentiality, and privacy

5.1. Document clinical encounters in an accurate, complete, timely, and accessible manner, in compliance with regulatory and legal requirements Organize information in appropriate sections within an electronic or written medical record

Maintain accurate and up-to-date problem lists and medication lists

Document an initial management plan for common patient presentations in surgical practice

Document information about patients and their medical conditions in a manner that enhances intra- and interprofessional care

Prepare recommendations in written and/or verbal form in response to a request from another health care professional

Document clinical encounters to adequately convey clinical reasoning and the rationale for decisions

Document operative procedures to adequately convey clinical findings, reasoning and the rationale for decisions

Comment [FV124]: TTD 1 , TTD 3

Comment [FV127]: F 4 , F 5 a, F 7a

Comment [FV125]: TTD 1, TTD 3

Comment [FV126]: TTD 3

Comment [FV128]: F 1 a, F 3, F 8

Comment [FV129]: F 5 a

5.2. Communicate effectively using a written health record, electronic medical record, or other digital technology Demonstrate reflective listening, open-ended inquiry, empathy, and effective eye contact while using a written or electronic medical record

Demonstrate an understanding of the risk of breaching patient confidentiality as a result of the use of new technologies such as telehealth, and internet or digital storage and transmission devices

5.3. Share information with patients and others in a manner that respects patient privacy and confidentiality and enhances understanding

Assess patients' needs and preferences with respect to methods of information sharing

Comment [FV130]: TTD 1

Comment [FV131]: TTD 3

### **COLLABORATOR MILESTONES: RESIDENCY**

### Transition to discipline

### Foundations of discipline

### 1. Work effectively with physicians and other colleagues in the health care professions

1.1. Establish and maintain positive relationships with physicians and other colleagues in the health care professions to support relationship-centred collaborative care Receive and appropriately respond to input from other health care professionals

Compare and contrast enablers of and barriers to collaboration in health care

Respect established protocols of the operating room and team

Differentiate between task and relationship issues among health care professionals

1.2. Negotiate overlapping and shared responsibilities with physicians and other colleagues in the health care professions in episodic and ongoing care Discuss the role and responsibilities of a surgeon

Discuss the roles and responsibilities of all participants in the operating room

Describe the roles and scopes of practice of other health care providers related to surgical practice

Collaborate with other health care providers and all involved parties in booking the case including but not limited to ICU, Step down unit, or |OR|

Comment [FV132]: TTD 2, F 2 , F 5 b, F 6 , F  $8\,$ 

Comment [FV133]: F 5 ab, F 6

Comment [FV135]: F 7 ab

Comment [FV134]: TTD 5

Comment [FV136]: F 3

SURG	ICAL FOUNDATIONS PATHWAY TO COMPETENCE	E (2018)	
		Work effectively with other healthcare professionals	Comment [FV137]: F 1 b
1.3. Engage in respectful shared decision-making with physicians and other colleagues in the health care professions	Discuss with the patient and family any plan for involving other health care professionals, including other physicians, in the patient's care  Describe the elements of a good consultation	Integrate the patient's perspective and context into the collaborative care plan	Comment [FV140]: F 3, F 7ab  Comment [FV138]: TTD 1, TTD 4  Comment [FV139]: TTD 1
2. Work with physicians other colleagues in the	he health care professions to promote understan	ding, manage differences, and resolve conflicts	
2.1. Show respect toward collaborators	Convey information thoughtfully  Respond to nursing requests and concerns in a respectful and timely manner	Actively listen to and engage in interactions with collaborators	Comment [FV142]: F 5 ab, F 6, F 7 b  Comment [FV141]: TTD 7
2.2. Implement strategies to promote understanding, manage differences, and resolve conflict in a manner that supports a collaborative culture	Communicate effectively with other physicians and health care professionals	Identify communication barriers between health care professionals  Communicate clearly and directly to promote understanding, manage differences, and resolve conflicts  Listen to understand and find common ground with collaborators	Comment [FV143]: TTD 2  Comment [FV144]: F 2, F 5 b, F 6
3. Hand over the care of a patient to another	health care professional to facilitate continuity o	f safe patient care	
3.1. Determine when care should be transferred to another physician or health care professional		Determine when care should be transferred to another physician or health professional  Initiate and coordinate transfer of care to other health care professionals  Identify patients requiring handover to other	Comment [FV145]: F 2  Comment [FV146]: F 2

3.2. Demonstrate safe handover of care, using both verbal and written communication, during a patient transition to a different health	Describe specific information requ handover during transitions in ca
care professional, setting, or stage of care	Acknowledge that incomplete or i handover can result in suboptima not harm

uired for safe are

inaccurate nal patient care, if

Communicate with the receiving physicians or health care professionals during transitions in care

Perform safe and effective handover during transitions in care

physicians or health care professionals

Communicate with the receiving physicians or health care professionals during transitions in care, clarifying issues after transfer as needed

Communicate with the patient's primary health care professional about the patient's care

Summarize the patient's issues in the transfer summary, including plans to deal with the ongoing issues

Arrange for the appropriate resources and allied health care assistance to be available for the surgical patient

Comment [FV147]: F 1 a

Comment [FV148]: TTD 4

Comment [FV152]: F 1 a, F 2

Comment [FV149]: TTD 4

Comment [FV153]: F 7 a

Comment [FV150]: TTD 3 TTD 4

Comment [FV154]: F 7 a

Comment [FV151]: TTD 2, TTD 4

Comment [FV155]: F 7 a

LEADER MILESTONES: RESIDENCY	Transition to discipline	Foundations of discipline			
1. Contribute to the improvement of health care delivery in teams, organizations, and systems					
1.1. Apply the science of quality improvement to contribute to improving systems of patient care	Describe quality improvement methodologies	Compare and contrast the traditional methods of research design with those of improvement science  Compare and contrast systems of theory with traditional approaches to quality improvement  Seek data to inform practice and engage in an iterative process of improvement  Describe the use of a pre-operative team checklist and how it improves patient safety			
1.2. Contribute to a culture that promotes patient safety	Demonstrate an understanding of institutional patient safety guidelines  Report patient safety incidents	Adhere to institutional safety procedures  Participate in the surgical checklist for all procedures			

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Comment [FV156]: F 6

		Provide informed discharge
1.3. Analyze patient safety incidents to enhance systems of care	Describe the available supports for patients and health care professionals when patient safety incidents occur	Participate in continuous quality improvement activities including but not limited to morbidity and mortality rounds
1.4. Use health informatics to improve the quality of patient care and optimize patient safety	Utilize the data available in health information systems in their discipline to optimize patient care	Access supports and notification processes to enhance patient safety in their institution

Comment [FV158]: F 7 a

Comment [FV157]: TTD 3

### 2. Engage in the stewardship of health care resources

2.1. Allocate health care resources for optimal patient care	Describe the costs of common diagnostic and therapeutic interventions relevant to their discipline	Describe models for resource stewardship in health care used at the institutional level  Consider costs when choosing care options
Apply evidence and management processes to achieve cost-appropriate care		Apply evidence and guidelines with respect to resource utilization in common clinical scenarios including but not limited to use of blood products, investigations, inpatient versus outpatient treatment and appropriate utilization of critical care unit resources

**Comment [FV159]:** F 1 a

### 3. Demonstrate leadership in professional practice

3.1. Demonstrate leadership skills to enhance healthcare	Analyze their own leadership styles, including strengths, weaknesses, and biases	
3.2. Facilitate change in health care to enhance services and outcomes		Analyze patient feedback to help improve patient experiences and clinical outcomes
		Describe key health policy and organizational

SURGICAL	FOLINDATI	ONS PATHWAY 1	TO COMPETENCE	(2018)
JUNGICAL				(2010)

issues in their discipline

Demonstrate an understanding of the introduction of new technologies and the need for:

- Health technology assessment
- Education
- Credentialing

# 4. Manage career planning, finances, and health human resources in a practice

4.1. Set priorities and manage time to integrate practice and personal life	Align priorities with expectations for professional practice	Build relationships with mentors  Organize work using strategies that address strengths and identify areas to improve in personal effectiveness
4.2. Manage a career and practice	Review opportunities for practice preparation, including choices available for further training  Maintain a portfolio and reflect upon professional development	Examine personal interests and seek career mentorship and counselling
4.3. Implement processes to ensure personal practice improvement	Describe how practice standardization can improve quality of health care  Demonstrate an understanding of the appropriate use of information technology to enhance surgical practice  Presentation software  Personal digital assistant (PDAs)  Simulation and other technologies  Social media	

Comment [FV160]: TTD 4

	Transition to discipline	Foundations of discipline	
Respond to an individual patient's health no	eeds by advocating with the patient within and	beyond the clinical environment	
1. Work with patients to address determinants of health that affect them, and their access to needed health services or resources	Analyze a given patient's needs for health services or resources related to the scope of surgical practice	Demonstrate an approach to working with patients to advocate for health services or resources	Comment [FV161]: F 7 b
.2. Work with patients and their families to increase opportunities to adopt healthy behaviours	Identify resources or agencies that address the health needs of patients	Select patient education resources related to surgical practice  Educate the patient and family about information and communication technologies to improve health  Encourage patients to use appropriate safety equipment for work and leisure pursuits  Identify opportunities to advocate for and facilitate appropriate screening	Comment [FV163]: F 4 , F 7 a  Comment [FV162]: TTD 1
3. Incorporate disease prevention, health promotion, and health surveillance into interactions with individual patients		Work with the patient and family to identify opportunities for disease prevention, health promotion, and health protection  Incorporate disease prevention, health promotion, and health surveillance into interactions with individual patients  Perform screening for  Child abuse Elder abuse Domestic violence	Comment [FV164]: F 3, F 7 a  Comment [FV165]: F 7a

	SURGICAL FO	DUNDATIONS	PATHWAY TO	D COMPETENCE (	(2018)
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### Counsel regarding risk factors to health

- Obesity
- Smoking
- Substance use and abuse
- Other patient behaviours that place them at risk for injury or disease

Counsel regarding opportunities for health and wellness

Advocate for vulnerable and marginalized patients

Advocate for appropriate screening and facilitate process

# 2. Respond to the needs of communities or populations they serve by advocating with them for system-level change in a socially accountable manner

2.1. Work with a community or population to identify the determinants of health that affect them		Demonstrate an appreciation of the needs of the communities or populations they serve and advocate for system level change
2.2. Improve clinical practice by applying a process of continuous quality improvement to disease prevention, health promotion, and health surveillance activities	Participate in health promotion and disease prevention programs relevant to their practice	Identify patients or populations that are not being served optimally in their clinical practice
Contribute to a process to improve health in the community or population they serve	Demonstrate an appreciation of the importance of organ transplantation and identify potential donors	Partner with others to identify the health needs of a community or population they serve

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Comment [FV166]: F 3

	Transition to discipline	Foundations of discipline
. Engage in the continuous enhancement of t	heir professional activities through ongoing lear	rning
1. Develop, implement, monitor, and revise a personal learning plan to enhance professional practice	Describe physicians' obligations for lifelong learning and ongoing enhancement of competence Recognize the duality of being a learner as well as a practitioner	Create a learning plan in collaboration with a designated supervisor identifying learning needs related to surgical practice and career goals  Use technology to develop, record, monitor, revise, and report on learning in medicine  Demonstrate a structured approach to monitoring progress of learning in the clinical setting  Utilize learning portfolios, which may incorporate:  Surgical logs or portfolio  Encounter cards  Personal reflection pieces
Identify opportunities for learning and improvement by regularly reflecting on and assessing their performance using various internal and external data sources		Identify, record, prioritize and answer learning needs that arise in daily work, scanning the literature or attending formal or informal education sessions  Use surgical encounters to guide learning and skill refinement
.3. Engage in collaborative learning to continuously improve personal practice and contribute to collective improvements in practice		Identify the learning needs of a junior learner  Participate in and appreciate the utility of surgical morbidity and mortality rounds.
2. Teach students, residents, the public, and o	ther health care professionals	

Comment [FV167]: TTD 2

Comment [FV168]: F 6

Comment [FV169]: F 9

SURGICAL	FOUNDATIONS	PATHWAY TO	COMPETENCE (	(2018)
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the impact of the formal, informal, and hidden curriculum on learners	negative role-modelling  Describe the link between role-modelling and the hidden curriculum	<b>Comment [FV170]:</b> F 9
2.2. Promote a safe learning environment	Explain how power differentials between learners and teachers can affect the learning environment  Create a positive learning environment	<b>Comment [FV171]:</b> F 9
2.3. Ensure patient safety is maintained when learners are involved	Identify unsafe clinical situations involving learners and manage them appropriately  Demonstrate an understanding of the role of appropriate supervision	Comment [FV172]: F 9  Comment [FV173]: F 5 a, F 6, F 9
2.4. Plan and deliver a learning activity	Demonstrate basic skills in teaching others, including peers  Plan learning activities appropriate to the level of the learner  Present a review of a surgical topic	Comment [FV174]: F 9  Comment [FV175]: F 9
2.5. Provide feedback to enhance learning and performance	Provide written or verbal feedback to other learners, faculty and other members of the team	Comment [FV176]: F 9
Assess and evaluate learners, teachers, and programs in an educationally appropriate manner		

### 3. Integrate best available evidence into practice

3.1. Recognize practice uncertainty and knowledge gaps in clinical and other professional encounters and generate focused questions that can address them

Recognize uncertainty and knowledge gaps in clinical and other professional encounters relevant to surgical practice

3.2. Identify, select, and navigate pre-appraised resources	Contrast the various study designs used in medicine and the quality of various pre-appraised resources
3.3. Critically evaluate the integrity, reliability, and applicability of health-related research and literature	Interpret study findings, including a critique of their relevance to surgical practice  Determine the validity and risk of bias in a source of evidence
3.4. Integrate evidence into decision-making in their practice	Discuss the barriers to and facilitators of applying evidence into practice  Describe how various sources of information, including studies, expert opinion, and practice audits, contribute to the evidence base of medical practice

### 4. Contribute to the creation and dissemination of knowledge and practices applicable to health

4.1. Demonstrate an understanding of the scientific principles of research and scholarly inquiry and the role of research evidence in healthcare	
4.2. Identify ethical principles for research and incorporate them into obtaining informed consent, considering potential harms and benefits, and considering vulnerable populations	Discuss and provide examples of the ethical principles applicable to research and scholarly inquiry relevant to surgical practice
4.3. Contribute to the work of a research program	Compare and contrast the roles and

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responsibilities of members of a research team and describe how they differ from clinical and other

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	practice roles and responsibilities
4.4. Pose questions amenable to scholarly investigation and select appropriate methods to address them	Describe and compare the common methodologies used for scholarly inquiry in surgical practice
4.5. Summarize and communicate to professional and lay audiences, including patients and their families, the findings of relevant research and scholarly inquiry	Summarize and communicate to peers the findings of applicable research and scholarship

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	Transition to discipline	Foundations of discipline	
I. Demonstrate a commitment to patients by	applying best practices and adhering to high et	hical standards	
1.1. Exhibit appropriate professional behaviours and relationships in all aspects of practice, demonstrating honesty, integrity, humility, commitment, compassion, respect, altruism, respect for diversity, and maintenance of confidentiality	Consistently prioritize the needs of patients and others to ensure a patient's legitimate needs are met Demonstrate punctuality  Complete assigned responsibilities	Independently manage specialty-specific issues surrounding confidentiality, intervening when confidentiality is breached  Demonstrate the ability to be objective in treating patients regardless of their socioeconomic status or other factors  Exhibit appropriate professional behaviours	Comment [FV177]: TTD 2, TTD 7  Comment [FV178]: TTD 3  Comment [FV179]: F 3  Comment [FV180]: F 6
.2. Demonstrate a commitment to excellence in all aspects of practice			
1.3. Recognize ethical issues encountered in practice		Provide care to the critically ill patient commensurate to expressed advanced directives  Recognize and respond appropriately in situations where consent is obtained under constraints of emergency circumstances	Comment [FV181]: F 1 a  Comment [FV182]: F 4
1.4. Recognize and manage conflicts of interest		Demonstrate an awareness of the influence of industry on practice and training  Identify potential conflicts of interest in surgical practice  Manage conflicts of interest related to surgical care, including consent issues related to the duality of the learner as surgeon	Comment [FV183]: F 4
5. Exhibit professional behaviours in the use of technology-enabled communication	Describe the risks of technology enabled communication in surgical practice including but	Demonstrate appropriate use of technology enabled communication	Comment [FV184]: TTD 3 TTD 4

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not limited to social media

### 2. Demonstrate a commitment to society by recognizing and responding to societal expectations in health care

2.1. Demonstrate accountability to patients, society, and the profession by responding to societal expectations of physicians

2.2. Demonstrate a commitment to patient safety

and quality improvement

Manage tensions between societal and physician's expectations

Describe the tension between the physician's role as advocate for individual patients and the need to manage scarce resources

Demonstrate a commitment to patient safety and quality improvement through adherence to institutional policies and procedures, and clinical practice guidelines

Monitor institutional and clinical environments and respond to issues that can harm patients or the delivery of health care

Comment [FV185]: F 3

Comment [FV186]: F 6, F 7 a, F 8

### 3. Demonstrate a commitment to the profession by adhering to standards and participating in physician led regulation

3.1. Fulfil and adhere to the professional and ethical codes, standards of practice, and laws governing practice

Describe the roles of the Royal College, provincial regulatory body, hospital board and university from a resident's perspective

Fulfil and adhere to the professional and ethical codes, standards of practice, and laws governing bractice:

- The Canada Health Act
- Pertinent provincial and federal health legislation including but not limited to Personal Health Information Protection Act (PHIPA)
- · Provincial regulatory bodies
- Hospital governance
- · Operating room governance
- Worker's compensation organizations
- Role of the Coroner's Office/Medical Examiners
- Public health as it relates to mandatory reporting of disease

Comment [FV187]: F 5 ab

SURGICAL	FOUNDATIONS PATHWAY TO COMPETENCE (2018)
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	Apply knowledge of institutional policies procedures and guidelines for residency code of conduct
3.2. Recognize and respond to unprofessional and unethical behaviours in physicians and other colleagues in the health care profession	Respond to peer-group lapses in professional conduct  Identify the process or policy regarding concerns about professional lapses
3.3. Participate in peer assessment and standard- setting	Contribute to the assessments for other learners on their clinical rotation

Comment [FV188]: F 9

### 4. Demonstrate a commitment to physician health and well-being to foster optimal patient care

4.1. Exhibit self-awareness and effectively manage influences on personal wellbeing and professional performance

Demonstrate knowledge of the factors in residency that may affect personal well- being and professional performance

Demonstrate knowledge of the resident safety policy of your program

Demonstrate an understanding of techniques for stress reduction

Demonstrate an understanding of occupational risks and their management

- Ergonomics
- Infection
- Radiation
- Fire

Develop a personal plan for managing stress and maintaining physical and mental well-being during residency

Manage the mental, physical and environmental challenges that impact behaviour and/or performance in the clinical setting

Demonstrate an ability to regulate attention, emotions, thoughts, and behaviours while maintaining capacity to perform professional tasks

Demonstrate an awareness of the risks associated with the high stress environments in which surgeons work

Demonstrate techniques for stress reduction Promote a healthy lifestyle and demonstrate awareness of personal at risk behaviours:

- Substance abuse
- Fatigue management
- Healthy personal relationships
- Immunizations

Comment [FV190]: F1 a, F2 , F5 ab

Comment [FV191]: F 6 , F 7 b

Comment [FV189]: TTD 5

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4.2. Manage personal and professional demands for a sustainable practice throughout the surgeon life cycle	Describe the influence of personal and environmental factors on the development of a career plan  Describe strategies for improving work/life balance.
Promote a culture that recognizes, supports, and responds effectively to colleagues in need	Recognize the signs of physical and emotional stress in colleagues and know when and how to help.  Use strategies to mitigate the impact of patient safety incidents

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