

Supplemental Digital Appendix 1

ACS/APDS/ASE Entering Surgery Resident Prep Curriculum Intern Survey

Q.1. Please indicate your current position

- ☐ Non-designated preliminary PGY 1 resident
- ☐ Designated preliminary PGY1 resident (please specify specialty)
- ☐ Integrated categorical PGY1 resident (please specify specialty)
- ☐ Categorical PGY1 General Surgery resident

Q.2. As a fourth year medical student did you complete any of the following Surgery electives to prepare for your Surgery resident?

- ☐ Standard Surgery Sub-I
- ☐ Surgery ICU rotation
- ☐ Surgery M4 Preparatory Curriculum (aka "Surgery Bootcamp")
- ☐ Other (please specify)

Supplemental digital content for Minter RM, Amos KD, Bentz ML, Blair PG, Brandt C, D'Cunha J, Davis E, Delman KA, Deutsch ES, Divino C, Kingsley D, Klingensmith M, Meterissian S, Sachdeva AK, Terhune K, Termuhlen PM, and Mullan PB. Transition to Surgical Residency: A Multi-institutional Study of the Effect of Formal Preparatory Curricula in the Fourth Year of Medical School. Acad Med.

Q.3. Using the Likert scale below, please evaluate how prepared you felt to perform the elements outlined below in the following competency domains at the BEGINNING of your surgery residency. Medical Knowledge and Patient Care:

	1 (Not prepared at all)	2	3	4	5 (Well prepared)
Write patient care orders	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Write concise clinic notes in appropriate format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interpret normal and abnormal lab results	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interpret normal and abnormal radiograph findings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interpret 12 lead EKG	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manage perioperative IVFs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manage electrolyte abnormalities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Assess the adequacy of an airway	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lead a code following ACLS algorithms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Perform initial resuscitation for a patient in shock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Recognize a tension pneumothorax	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Recognize signs of pericardial tamponade	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Control bleeding from external wounds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Recognize signs of acute DVT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Recognize signs of pulmonary embolus	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q.4. Using the Likert scale below, please evaluate how prepared you felt to perform the elements outlined below in the following competency domains at the BEGINNING of your surgery residency. Medical Knowledge and Patient Care: Prescribe the following common perioperative-operative drugs:

	1 (Not prepared at all)	2	3	4	5 (Well prepared)
VTE prophylaxis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Therapeutic anticoagulation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Narcotic pain medication	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Anti-emetics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Anti-hypertensives	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Antibiotics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q.5. Using the Likert scale below, please evaluate how prepared you felt to perform the elements outlined below in the following competency domains at the BEGINNING of your surgery residency. Surgical and Technical skills:

	1 (Not prepared at all)	2	3	4	5 (Well prepared)
Practice universal precautions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Maintain sterile technique	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Use proper technique to prep the skin and drape the patient	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Administer a local anesthetic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insert and maintain nasogastric tube	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insert and maintain urinary catheters	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Evaluate peripheral pulses using a Doppler	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Perform venipuncture and insert a peripheral IV catheter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Perform an arterial stick and obtain an arterial sample	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Incise and drain a superficial abscess	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Perform superficial wound debridement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Perform minor excisions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Perform skin closure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Perform knot tying in the operating room	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Perform orotracheal intubation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Perform needle thoracostomy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Perform central venous line placement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Perform basic laparoscopic skills	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q.6. Using the Likert scale below, please evaluate how prepared you felt to perform the elements outlined below in the following competency domains at the BEGINNING of your surgery residency. Professionalism:

	1 (Not prepared at all)	2	3	4	5 (Well prepared)
Understand when and how to ask for help	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Understand the principles of informed consent	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Recognize impairment in self and colleagues	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Seek help when concerned that you or a colleague is impaired	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Use time management skills to balance your personal and professional life	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q.7. Using the Likert scale below, please evaluate how prepared you felt to perform the elements outlined below in the following competency domains at the BEGINNING of your surgery residency. Interpersonal and Communications Skills:

	1 (Not prepared at all)	2	3	4	5 (Well prepared)
Practice cultural, racial, gender and religious sensitivity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Communicates effectively with patients and families	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Communicates effectively with professional colleagues	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Communicates with difficult patients, families, or colleagues	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Discuss sensitive issues with patients, e.g. death and dying	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Effectively perform safe patient care "hand-offs"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Give accurate, concise, and clear oral presentations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q.8. Using the Likert scale below, please evaluate how prepared you felt to perform the elements outlined below in the following competency domains at the BEGINNING of your surgery residency. Practice-based learning and assessment:

	1 (Not prepared at all)	2	3	4	5 (Well prepared)
Develop an effective strategy for self-directed learning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Utilize evidence-based medicine principles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Effectively access, analyze, and utilize the scientific literature	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Report and honestly evaluate all patient complications	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q.9. Using the Likert scale below, please evaluate how prepared you felt to perform the elements outlined below in the following competency domains at the BEGINNING of your surgery residency. System-Based Practice:

	1 (Not prepared at all)	2	3	4	5 (Well prepared)
Optimally utilize the medical record	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Effectively interact with all members of the healthcare team	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comply with HIPAA and JCAHO regulations and standards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Provide appropriate documentation in the patients' chart	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Effectively utilize risk management when indicated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Apply information technology effectively to patient care	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q.10. If you participated in a preparatory course for Surgery residency during your M4 year, what did you find to be most helpful/important? If you did not participate in a M4 preparatory course for Surgery residency you may skip this question and proceed directly to question 12.

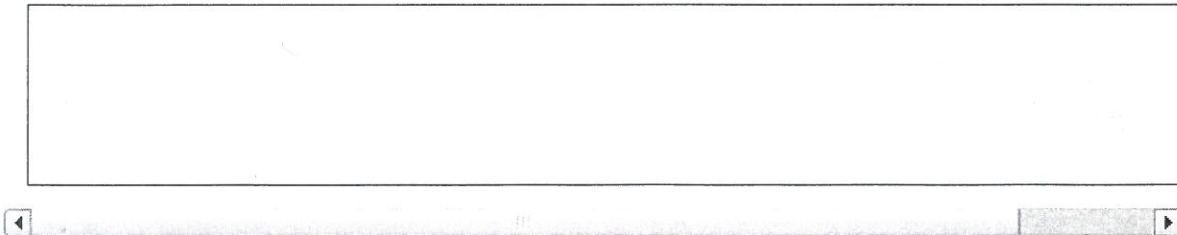
	Helpful/Important	Less Helpful/Important	Not Offered
Simulated nursing pages for common postoperative problems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Knot tying and suturing training	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Basic laparoscopic skills training	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cadaveric dissections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cadaver or live animal surgery	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Radiology case teaching	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wound care training	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Use of surgical energy devices	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q.11. If you participated in a preparatory course for Surgery residency during your M4 year, what did you find to be most helpful/important? If you did not participate in a M4 preparatory course for Surgery residency you may skip this question and proceed directly to question 12.

	Helpful/Important	Less Helpful/Important	Not Offered
Simulated patient care emergencies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Emergency procedures training	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Minor procedure training	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Standardized patient experiences	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lecture/Didactics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Q.12. Reflecting back on your first year of surgical residency, what was the most challenging clinical care scenario you faced, and why did you find it challenging? Specifically, did you feel that you lacked some skill or preparation that would have aided you in addressing it?



Once you have completed your survey, please click "NEXT" and a PDF version of your responses will be provided for you.