Supplemental Digital Appendix 1

American College of Surgeons

General Surgery Residency Survey

Program Name:			
Respondents' Names:			
Respondents' Positions:			
Question 1. How many chief residents ha	ave graduated from your prograr	n in each of the past five years, by gen	nder?
2005: Male	Female		
2006: Male	Female		
2007: Male	Female		
2008: Male	Female		
2009: Male	Female		
Question 2. What is the total number of other through 2008/2009)?	categorical residents, by gende	r, that have entered your program over	the past five academic years (2004/2005
Male (total f	or 2004/2005 through 2008/200	9)	
Female (total f	For 2004/2005 through 2008/200	09)	
following graduation from you Totalnumber (2) Number in each sub-specialt	ur program? 005-2009)		ntered surgical clinical fellowships immediately
Breast		Oncology	
Cardiothoracic		Pediatric	
Colorectal		Plastics	
Critical Care		Transplant	
Endocrine		Vascular	
Hand		Other	
Hepato-Biliary-Pancreation	ε	(please specify)	
Minimally invasive/laparo	scopic		
	n, in order to enter other surgic		2005 through 2008/2009), prior to completing five include residents who transferred to another
Total number (2	2004/2005 through 2008/2009)		
Number in each sub-specialt	у:		
Cardiothoracic		Plastics	
ENT		Urology	
Neurosurgery		Vascular	
Ophthalmology		Other	
Orthopedic Surgery		(please specify)	<u> </u>

2008/2009	ne total number of categorical residents, by gender, that has prior to completing five clinical years, in order to enter a	have left your program over the past five academic years (2004/2005 through a non-surgical specialty? (for example, family practice, anesthesia, internal
medicine)		
Male	(total for 2004/2005 through 2008/2009)	
Female	(total for 2004/2005 through 2008/2009)	
	a 6. ne total number of categorical residents currently enrolled 1 through 5)	in your program?
	e, how many are supported by GME Medicare?	nis information.)
most rece	y faculty members are involved in resident education at your Program Information Form (PIF)?	our program, as reported to the Residency Review Committee (RRC) in your
Number	of faculty members	
Question (Program	8. Directors only)	
compleme	•	sident across five years of training" and that programs seeking an increase in pperative cases." (http://www.acgme.org/acWebsite/downloads/RRC_progReq
	ly on this ACGME requirement (if funding were NOT an is n resident complement?	sue), do you currently have clinical and operative volume to accommodate an
O Yes		
	s, how many additional residents per year could your prog I on current clinical and operative volume?	gram accommodate
O No		
Question (Program	9. Directors only)	
included in	n a curriculum for a five-year general surgery residency tra	dent Education (SCORE)'s list of "essential and common" procedures to be aining program. These procedures are defined by the SCORE as "frequently tency is required by end of training (and should be attainable primarily by case
Overall, h	ow would you characterize the number of these "essentia	and common" procedures available to your residents during their training?
o We	have the just the right amount of these procedures to med	et resident training needs.
O The	number of these procedures available exceeds resident tra	aining needs.
O It is	a struggle to meet resident training needs for at least son	ne of these procedures.
C	Abdomen - General Open exploratory laparotomy Bowel resection	☐ Upper and lower endoscopy/bronchoscopy ☐ Breast, Skin and Soft Tissue Breast biopsy and mastectomy
C	Abdomen - Hernia Open and laparoscopic hernia repair (inguinal, emoral and ventral)	ALND and SLN Endocrine
C	Abdomen - Biliary Open and laparoscopic cholecystectomy with or vithout cholangiography	Partial or total thyroidectomy Parathyroidectomy Surgical Critical Care
C	Abdomen - Liver Open and laparoscopic liver biopsy	Pulmonary artery catheter placement Airway management/tracheostomy Measurement of compartment pressures (abdomen, extremity)
	Abdomen - Spleen	□ Vascular - Venous

Open and laparoscopic splenectomy	Venous insufficiency and operation for varicose veins
☐ Alimentary Tract - Esophagus	Vascular - Access
Laparoscopic antireflux procedure	Arteriovenous graft/fistula
The Alice of the A	Theresis Courses
Alimentary Tract - Stomach Percutaneous endoscopic gastrostomy	Thoracic Surgery Chest tube placement
Open gastrostomy	chest tube placement
	Pediatric Surgery
☐ Alimentary Tract - Anorectal	Inguinal herniorrhaphy in children
Hemorrhoidectomy	Umbilical hernia repair in children
Subcutaneous lateral internal sphincterotomy	•
Drainage anorectal abscess	
Anal fistulotomy	
Question 10. (Program Directors only)	
Polovi is a list of precedures based on the Surgical Council on Posidon	t Education (SCORE)'s list of "essential and uncommon" procedures to be
included in a curriculum for a five-year general surgery residency training urgent, operations seen in general surgery practice and not typically do required by end of training (but cannot be attained by case volume alor	ng program. These procedures are defined by SCORE as "rare, often one in significant numbers by trainees; specific procedure competency
Overall, how would you characterize the number of these "essential and	d uncommon" procedures available to your residents during their training?
• We have the just the right amount of these procedures to meet re	esident training needs.
O The number of these procedures available exceeds resident training	ng needs.
It is a struggle to meet resident training needs for these procedure	res.
Abdomen - Biliary	☐ Trauma
Open common bile duct exploration	Management of esophageal trauma
1	Splenectomy/splenorrhaphy
☐ Abdomen - Spleen	Repair hepatic lacerations
Splenectomy/splenorrhaphy	Drainage pancreatic injury
	Repair bladder injury Repair vascular injury
☐ Alimentary Tract - Esophagus	Fasciotomy for injury
Open antireflux procedure	y
Laparoscopic repair of paraesophageal hernia	☐ Vascular - Arterial Disease
☐ Alimentary Tract - Stomach	Embolectomy/thrombectomy artery
Partial/total gastrectomy	Amputations
Truncal vagotomy and drainage	
	 Thoracic Surgery Exploratory thoracotomy Pericardial window
☐ Alimentary Tract - Small Intestine	for drainage
Repair of duodenal perforation	Tot dramage
Superior mesenteric artery embolectomy/thrombectomy	☐ Pediatric Surgery
Alimentary Tract - Large Intestine	Pyloromyotomy
☐ Alimentary Tract - Large Intestine Subtotal colectomy with ileorectal anastomosis/ileostomy	Emergency operation for malrotation
Subtotal colectority with acorectal anastomosis/acostority	Emergency operation for intussusception
Alimentary Tract - Anorectal	
Excision of anal cancer	Genitourinary
	Nephrectomy
☐ Alimentary Tract - Pancreas	Orchiectomy
Whipple procedure	Repair iatrogenic ureteral injury
	☐ Head and Neck
	Cricothyroidotomy
	Cheothyloladionly
Question 11.	
Have you applied for an increase in resident complement from the Res (2004/2005 through 2008/2009)?	idency Review Committee (RRC) during the past five academic years
O Yes	
0 ::	
O No	

Question 12. (Program Directors only)

With regard to the training of general surgeons in the U.S., do you believe:
• We are training too many surgeons nationally.
We are training the correct number of surgeons
nationally. We are not training enough surgeons nationally.
Question 13.
(Program Directors only)
Do you believe that there is currently a shortage of general surgeons in the U.S.?
• Yes, across the
nation Yes, in some
places No
O Not sure
Question 14.
(Program Directors only)
Please provide additional comments about the current supply of general surgeons or general surgery training capacity.