



Innovative Strategies in Utilizing the ACS Fundamentals of Surgery Curriculum

Kim Echert, C-TAGME, American College of Surgeons, Senior Manager,
Programs to Enhance Resident and Medical Student Education

What ACS FSC is ...

- 94 Interactive Case Scenarios
- Spans 11 Critical Content Areas
- Accessible 24/7 through the Web
- Realistic Triggers – Sounds, Photos, X-rays, ...
- Annual Subscription for all PGY-1 Residents
- Uses Principles of Adult Education – Active vs. Passive Learning

What ACS FSC is not ...

a Test!

- Designed to provide a safe, self-paced, instructional resource for practice
- Resident is encouraged to explore when and why a clinical decision is right and why another choice would be wrong
- The more time spent in each case scenario, the better!

Let's take a look for ourselves ...

<http://www.facs.org/education/fundsurgerydemo2/index.html>

Quick History

- Based on *Essentials for Medical Students and PGY-1 Residents*
- Launched in 2008 and used in a variety of surgical disciplines
- Developed by surgeon educators
- Provided by the American College of Surgeons

Innovative Strategies for Use

Self-Study for Newly-Matched Residents

Lecture Series or in Small Groups

Remediation or Focused Study

Tied to Specific Rotations (Goals & Objectives?)

Review for Standardized Exam

And my personal favorite ...

DOCUMENTATION

Semiannual Performance Review

Annual Program Review

Internal Review

Accreditation Review

Let's hear from the experts!

Kim Agretto, C-TAGME, Easton Hospital

Gretchen Lynch, C-TAGME, University of Missouri-
Columbia

Alison Powers, American College of Surgeons,
Fundamentals of Surgery Curriculum



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**Kim Agretto, C-TAGME
Easton Hospital – Easton, PA
Community Health Systems
March 25, 2011**



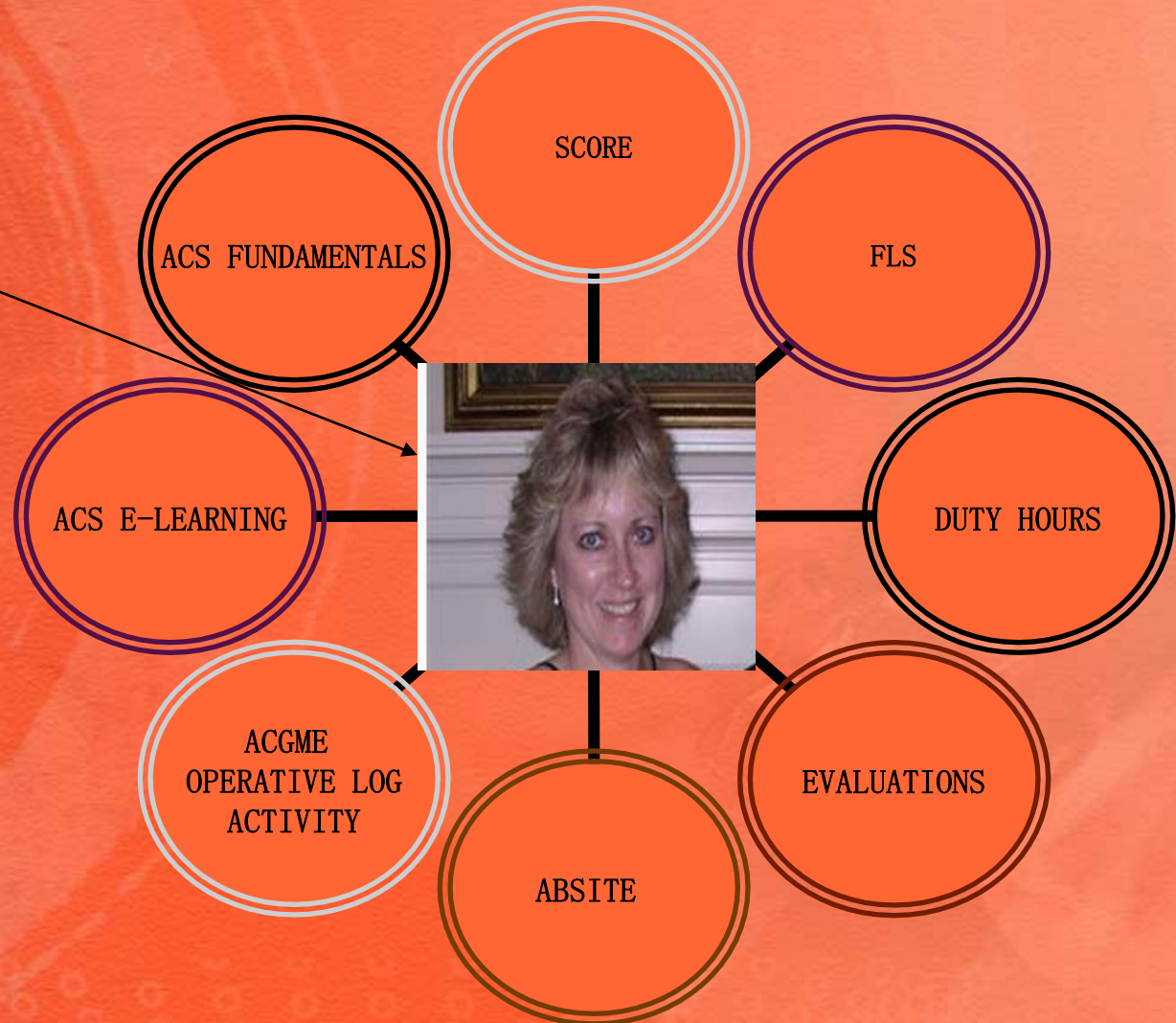
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Acknowledgements & Thanks to:

**Carrie Houston, Dr. Ferrara –
Phoenix Integrated Surgical Residency Program**

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How in the world did I get here?





**Look Familiar
June**

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Intern year – begins March 18, 2011

Match Day

- Welcome letter
- Contract
- Licensure application
- Human Resources documentation
- Visa application – (if applicable)
- ECFMG certificate (if applicable)
- Apartment hunting
- Arrange for moving to new location



Orientation – 2 weeks

- Welcome – CEO
- Physical Examination
- BLS, ACLS, FCCS
- Chief Residents
- Program Director
- Program Administrator
- Health Information Mgmt
- Nursing Orientation
- Operating Room
- Aidert Training
- Risk Management
- Legal Review
- Patient's Rights and Advocacy
- Human Resources
- Infection Control
- Radiology
- Core Measures
- Wound & Ostomy Care
- Pharmacy
- Physical Environment
- Medical Library
- Research
- Lab Hemacult
- Customer Cares



PARANOIA

OMG - I'M ALONE

DOCUMENT, DOCUMENT, DOCUMENT

THEY ARE GOING TO THINK I AM STUPID!

Am I going to survive the night?

How am I supposed to study?

SHOULD I CALL THE ATTENDING OR MY CHIEF?

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WHAT DIDN'T WORK.....

- **Assigning modules with no deadlines**
- **Assigning modules with no deadlines**

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I saw the light at the end of the tunnel

- Presentation at 2010 ARCS Conference by Dr. Ferrara

The wheels started to turn

- We can incorporate this into our curriculum with a twist

Buy in

- Surgical Skills for Interns
 - Director of Skills Lab had to be committed
 - Include ACS Fundamentals & E-learning
 - All of the ACGME core competencies would be covered

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One month rotation that includes (but is not limited to):

- **Completion of all Fundamentals of Surgery Modules**
 - Orientation with Program Administrator**
 - Modules assigned all at once**
 - Notebook provided (which includes all requirements)**
 - Must print out all certificates of completion**
 - Modules available all year for review**

- Sign off by Skills Lab Director & Program Administrator required**
- Reviewed by Program Director during semi-annual evaluation**
- Part of semi-annual evaluation report**

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Excerpt from Evaluation:

6) Systems-Based Practice:

- Dr. Resident's overall score for systems based practice is 3.71 which is average. Dr. Resident is becoming aware of other hospital resources for testing and consultation.**
- Dr. Resident completes his medical records in accordance with hospital and program policy.**
- Dr. Resident's office hours are average and needs to be improved during the next six months (57%).**
- Dr. Resident has completed his/her Surgical Skills rotation. All ACS Fundamentals of Surgery modules have been completed. S/he has also completed the SAGES FLS videos and practice tests. S/he has been tested on the SAGES skills sets and will require additional practice during the year to accomplish proficiency for extracorporeal knot and to meet the timeframes required. Dr. Resident has completed the ACS e-learning assignments and has been tested in accordance with the curriculum established. The surgical skills notebook is in order and has been approved by the Skills Lab Director, Program Administrator and reviewed by the Program Director.**

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What are the goals we hope are attained by the PGY-1 intern :

- To instill confidence**
- Improve decision making skills**
- To increase medical knowledge and stimulate learning**
- To improve ABSITE scores**
- To enhances overall knowledge of the hospital as a system that functions collectively**
- To develop awareness of cost containment measure**
- To have yet another avenue by which we meet the ACGME competency requirements**

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Resident Suggestions for future use:

- **Utilize as an exercise/competition to build teamwork**
- **Incorporate scenarios during Ward Rounds when similar patient is encountered on the floor**
- **Incorporate some of the modules during orientation**

Suggestions for ACS:

- **Provide suggested basic science references as it applies to that particular scenario**

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PGY-1 Evaluation of rotation:

- **Full completion of all modules**
- **Help to instill confidence especially when on-call the first few months!**
- **Allowed for the completion of the modules within their own timeframe which equaled better comprehension and retention**
- **Could repeat modules as needed for refresher and studying for monthly quizzes**
- **Modules have a repetitive nature with regard to order of tests**

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What will we do in the future:

- **Assign certain modules prior to resident orientation or as part of the orientation (2 weeks, endless period)**
- **If necessary, use during the PGY-2 year if needed for remediation or just to improve knowledge base**
- **Use modules during ward rounds**

Effective Utilization of the Fundamentals of Surgery On-Line Curriculum

Gretchen M. Lynch, C-TAGME
Manager, Medical Education
University of Missouri-Columbia



Effective Utilization of the Fundamentals of Surgery On-Line Curriculum

Year One

- No Due Dates
- No Real Expectations
- Limited Use



Effective Utilization of the Fundamentals of Surgery On-Line Curriculum

Year Two

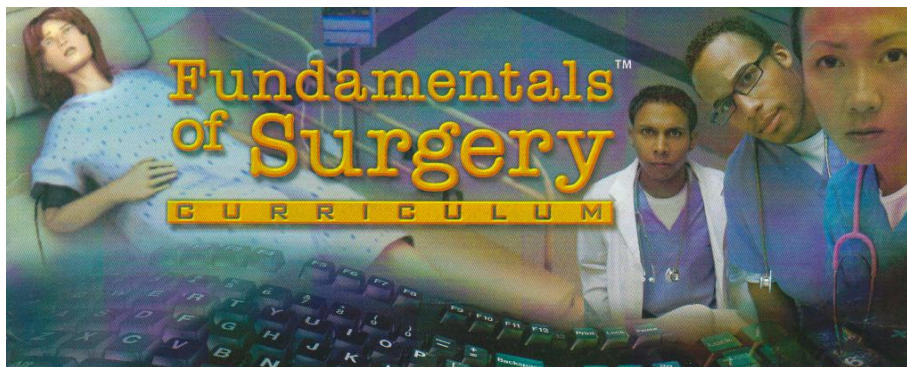
- Had a Plan
- Set Due Dates
- Real Expectations
- Improved Use



Effective Utilization of the Fundamentals of Surgery On-Line Curriculum

Year Three

- Have a Detailed Plan
- Specific Due Dates
- Enforced Expectations
- Curriculum Completion



Effective Utilization of the Fundamentals of Surgery On-Line Curriculum

Questions

?



AMERICAN COLLEGE of SURGEONS
Division of Education
FUNDAMENTALS of SURGERY



User Friendly Administration

A product of the Division of Education, American College of Surgeons



Alison Powers

Administrative Assistant

What do I do?

- **Activate accounts**
- **Customer service**
- **Technical support**



Useful Reports

3

most useful reports
for
program administrators...



Useful Reports

1. Custom Report

customizable progress data

2. Group Transcript

group progress

3. Course Transcript

individual progress



Custom Report

Specify a report that is

**narrowly focused on a user or
specific content** or

**broadly focused on all users and all
content** in an excel spreadsheet

Emailed to you!



Custom Report

Add New Report

Please fill out the form below.

Report Name:

Report Description:

Select Users: All Users Organization(s) Group(s) User(s)

Available:

Items Included In Report:

Remove

Remove All

Select Dates: Today -

Customized by...
Type of user
Period of time



Custom Report

Select Type of Content: All Package Course Assessment Task Quiz/Survey

Available: Content Included In Report:

Select Status: All In Process Completed Passed Failed

Due Date: None Expired Expires in days or less

Include Domain Custom Fields:

USERNAME

Include Review Data: Yes No

Report Frequency: Once Daily Weekly Monthly Yearly

Send Report To:

Customized by...

Type of content

Type of status

Frequency of report



Custom Report

FIRST NAME	TITLE	STATUS	SCORE	TIME (MINUTES)	FIRST ACCESSED DATE	LAST ACCESSED DATE	LAST ACCESSED TIME	GROUPS	USER NAME
260.106*do not change*	F and E 1	completed	-	17	27-Jul-10	16-Sep-10	5:22 PM		260.106
260.106*do not change*	Cardiac 1	completed	-	5	16-Sep-10	16-Sep-10	5:00 PM		260.106
260.106*do not change*	Cardiac 2	completed	-	8	16-Sep-10	16-Sep-10	5:08 PM		260.106
260.107*do not change*	Wound 1	passed	83	6	1-Jul-10	1-Jul-10	7:12 PM		260.107
260.107*do not change*	GI 8	completed	-	8	19-Aug-10	20-Aug-10	12:00 AM		260.107
260.107*do not change*	ED Abdomen 8	incomplete	-	9	20-Jul-10	20-Jul-10	7:25 PM		260.107
260.107*do not change*	F and E 7	completed	-	14	10-Aug-10	10-Aug-10	1:49 PM		260.107
260.107*do not change*	Pain 1 7	completed	-	4	7-Aug-10	7-Aug-10	10:31 AM		260.107
260.107*do not change*	Pain 3 1	completed	-	11	7-Aug-10	7-Aug-10	11:24 AM		260.107
260.107*do not change*	Postop Hypotension 2	completed	-	20	5-Aug-10	5-Aug-10	2:51 PM		260.107
260.107*do not change*	Mental Status 2	completed	-	11	3-Aug-10	3-Aug-10	2:49 PM		260.107
260.107*do not change*	GI 9	completed	-	11	19-Aug-10	19-Aug-10	11:41 PM		260.107
260.107*do not change*	GI 10	completed	-	12	19-Aug-10	19-Aug-10	2:53 AM		260.107
260.107*do not change*	F and E 5	completed	-	15	4-Aug-10	4-Aug-10	2:51 PM		260.107
260.107*do not change*	F and E 1	completed	-	32	26-Jul-10	26-Jul-10	6:35 PM		260.107
260.107*do not change*	Lab Studies	completed	-	13	1-Jul-10	1-Jul-10	7:05 PM		260.107
260.107*do not change*	ED Abdomen Introduction	completed	-	8	12-Jul-10	12-Jul-10	6:29 PM		260.107
260.107*do not change*	Pain 1 1	completed	-	7	8-Jul-10	10-Aug-10	2:38 PM		260.107
260.107*do not change*	Postop Hypotension 1	completed	-	16	2-Aug-10	2-Aug-10	2:51 PM		260.107
260.107*do not change*	ED Abdomen 1	completed	-	23	12-Jul-10	12-Jul-10	6:44 PM		260.107
260.107*do not change*	F and E 3	completed	-	15	26-Jul-10	26-Jul-10	7:07 PM		260.107
260.107*do not change*	Pain 2	incomplete	-	18	8-Jul-10	1-Dec-10	2:19 PM		260.107
260.107*do not change*	F and E 4	completed	-	17	2-Aug-10	2-Aug-10	2:42 PM		260.107
260.107*do not change*	GI 7	completed	-	11	20-Aug-10	20-Aug-10	12:12 AM		260.107
260.107*do not change*	Wound 1	incomplete	-	9	26-Aug-10	26-Aug-10	4:00 AM		260.107



Group Transcript

This is the most readable report that first gives you group progress information ...

Group Transcript

This is the transcript you selected.

GROUP: 2010 Intern
REPORT DATE: 28 Feb 2011

Summary Details

USER SUMMARY	Not Started	In process	Completed *	Passed	Failed	Total	Average Score	Time Spent
Total	483	13	164	12	0	672	-	34:15:44

Show 25 entries Search:

USER	Not Started	In process	Completed *	Passed	Failed	Total	Average Score	Time Spent
do not change, 290.098*do not change*	95	1	0	0	0	96	-	00:00:00
do not change, 290.101*do not change*	64	0	30	2	0	96	-	05:42:19
do not change, 290.102*do not change*	85	2	7	2	0	96	-	02:31:02
do not change, 290.103*do not change*	27	1	66	2	0	96	-	14:09:49
do not change, 290.104*do not change*	71	0	23	2	0	96	-	03:36:00
do not change, 290.151*do not change*	73	0	21	2	0	96	-	04:54:11
do not change, 290.152*do not change*	68	9	17	2	0	96	-	03:22:23

* Courses not explicitly recorded as "Passed" or "Failed" are simply reported as "Completed".



Course Transcript

Course Transcript

USER NAME: *d
ORGANIZATION
REPORT DATE:

Summary Details

USER SUMMARY	Not Started	In process	Completed *	Passed	Failed	Total	Average Score	Time Spent
Total	27	1	66	2	0	96	-	14:09:49

* Courses not explicitly recorded as "Passed" or "Failed" are simply reported as "Completed".

Show 50 entries Search:

Cat.#	Items	Status	Score	Begin Date	Time Spent	Last Accessed	Info	Options
112107	Preop Eval 1	Completed	-	14 Oct 2010	00:14:25	18 Oct 2010	Info	Edit
112309	Preop Eval 2	Completed	-	18 Oct 2010	00:13:34	18 Oct 2010	Info	Edit
112311	Preop Eval Introduction	Completed	-	14 Oct 2010	00:13:31	14 Oct 2010	Info	Edit
112313	Preop Eval Summary	Completed	-	18 Oct 2010	00:00:32	18 Oct 2010	Info	Edit
112315	Preop Eval 3	Completed	-	18 Oct 2010	00:14:12	18 Oct 2010	Info	Edit
112330	Mental Status Introduction	Completed	-	29 Oct 2010	00:01:38	29 Oct 2010	Info	Edit
112334	Mental Status 1	Completed	-	29 Oct 2010	00:32:54	04 Nov 2010	Info	Edit
112336	Mental Status 2	Completed	-	04 Nov 2010	00:15:23	04 Nov 2010	Info	Edit
112339	Mental Status 3	Completed	-	04 Nov 2010	00:19:59	04 Nov 2010	Info	Edit
112341	Mental Status 4	Completed	-	10 Nov 2010	00:21:10	10 Nov 2010	Info	Edit
112343	Mental Status 5	Completed	-	10 Nov 2010	00:17:01	10 Nov 2010	Info	Edit
112345	Mental Status 6	Completed	-	16 Nov 2010	00:12:51	16 Nov 2010	Info	Edit
112419	Cardiac 1	Not Started	-	-	00:00:00	-	Info	Edit
112421	Cardiac 2	Not Started	-	-	00:00:00	-	Info	Edit
112425	ED Abdomen 1	Completed	-	17 Sep 2010	00:07:09	18 Sep 2010	Info	Edit
112427	ED Abdomen 2	Completed	-	18 Sep 2010	00:13:55	18 Sep 2010	Info	Edit

...then changes to a Course Transcript with progress information specific to that individual user.



Course Transcript

Course Transcript

▶ Course Transcript

USER NAME: **Powers, Alison**
 ORGANIZATION: **ACS FCS 2009**
 REPORT DATE: **02 Mar 2011**

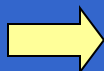
Summary [Details](#)

USER SUMMARY	Not Started	In process	Completed *	Passed	Failed	Total	Average Score	Time Spent
Total	64	11	24	1	0	100	-	07:48:04

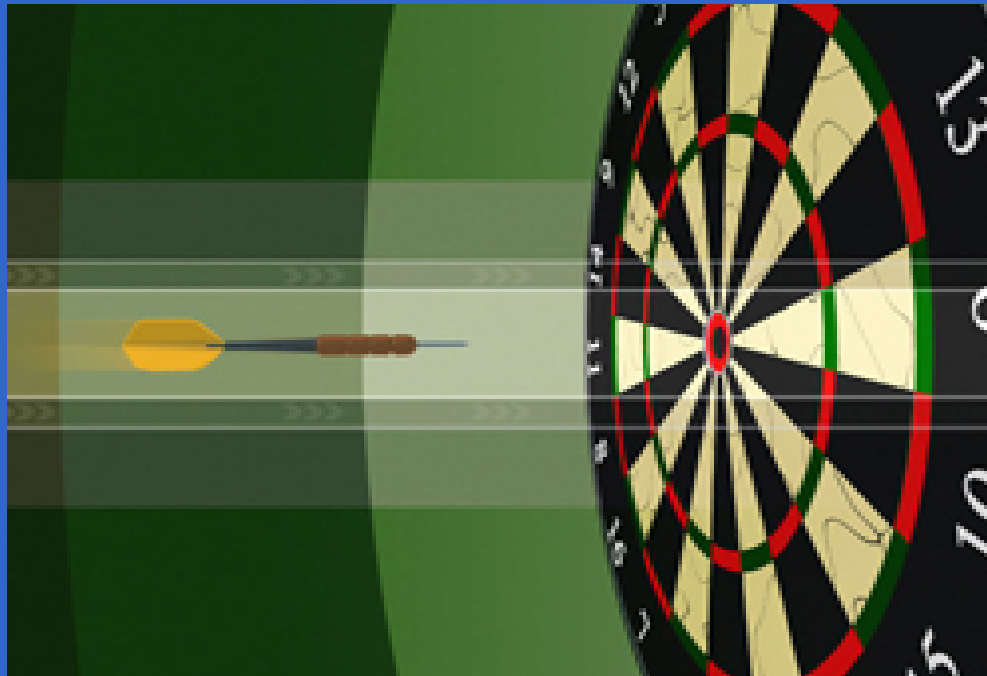
* Courses not explicitly recorded as "Passed" or "Failed" are simply reported as "Completed".

Show entries

Cat.#	Items	Status	Score	Begin Date	Time Spent	Last Accessed	Info	Options
112078	Pain 1 3	Completed	-	30 Sep 2010	00:02:30	30 Sep 2010		Edit
112083	Pain 1 4	Completed	-	30 Sep 2010	00:04:45	30 Sep 2010		Edit
112085	Pain 1 5	Not Started	-	-	00:00:00	-		Edit
112087	Pain 1 6	Not Started	-	-	00:00:00	-		Edit
112089	Pain 1 7	Not Started	-	-	00:00:00	-		Edit
112093	Pain 2 1	Not Started	-	-	00:00:00	-		Edit
112095	Pain 2 2	Not Started	-	-	00:00:00	-		Edit
112099	Pain 2 3	Not Started	-	-	00:00:00	-		Edit
112101	Pain 2 4	Not Started	-	-	00:00:00	-		Edit
112103	Pain 3 1	Completed	-	29 Sep 2010	00:04:22	29 Sep 2010		Edit



Reports help your residents... ...stay on target



How to use reports

1. Annual program review
2. Semiannual performance review
3. Internal reviews
4. Accreditation reviews



Resources



For assistance in administering your program, please contact Alison Powers @ 312/202-5171, or by email apowers@facs.org



American College of Surgeons,
Division of Education

“Promoting Excellence in Surgical Care through
Education, Training and Validation”

By Alison Powers

ACS/Fundamentals of Surgery Curriculum

