<table>
<thead>
<tr>
<th><strong>Course title:</strong></th>
<th>Hand Sewn Intestinal Anastomosis</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Course director:</strong></td>
<td>Joselin Anandam, MD Colorectal Surgery</td>
</tr>
<tr>
<td><strong>Specialty:</strong></td>
<td>Colorectal Surgery</td>
</tr>
<tr>
<td><strong>Additional course faculty:</strong></td>
<td>BTCC Fellows</td>
</tr>
<tr>
<td></td>
<td>Debbie Hogg, BS Clinical Study Coordinator</td>
</tr>
<tr>
<td></td>
<td>Kristine Gilberg-Fisher, RN, BSN Clinical Educator</td>
</tr>
<tr>
<td></td>
<td>Seifu Tesfay, RN, MS SCMIS Manager</td>
</tr>
<tr>
<td><strong>Participants:</strong></td>
<td>PGY 2 General Surgery residents</td>
</tr>
<tr>
<td></td>
<td># participants for course: 12</td>
</tr>
<tr>
<td><strong>Curriculum date:</strong></td>
<td>3/26/14</td>
</tr>
<tr>
<td><strong>Expected attendance:</strong></td>
<td>12</td>
</tr>
<tr>
<td><strong>Sessions assigned to each trainee</strong></td>
<td>1</td>
</tr>
<tr>
<td><strong>Duration of each session</strong></td>
<td>2 hr(s)</td>
</tr>
<tr>
<td><strong>Trainees per session</strong></td>
<td>13</td>
</tr>
<tr>
<td><strong>Other assigned sessions:</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Duration of each session</strong></td>
<td>hr(s)</td>
</tr>
<tr>
<td><strong>Trainees per session</strong></td>
<td></td>
</tr>
<tr>
<td><strong>When other sessions are held?</strong></td>
<td></td>
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</tbody>
</table>

**Course Completion Verification** - How do you know when a trainee has completed each component of the course and the overall course itself? Please specify for each course component, if applicable – for example, assigned reading component verified by written testing and skills component verified by attending 2 course-instructor led sessions.

<table>
<thead>
<tr>
<th>Attendance based:</th>
<th>based on trainee attending all of the designated sessions</th>
</tr>
</thead>
<tbody>
<tr>
<td>☒ Attendance based:</td>
<td>based on trainee attending all of the designated sessions</td>
</tr>
<tr>
<td>☒ Entire course - course solely based on attendance</td>
<td></td>
</tr>
<tr>
<td>☐ Part of course - attendance to designated sessions required in addition to other components listed below</td>
<td></td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Repetition based:</th>
<th>based on the trainee performing a specific number of repetitions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components:</td>
<td></td>
</tr>
<tr>
<td># of Repetitions:</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Proficiency based:</th>
<th>based on the trainee performing a specified number of repetitions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components:</td>
<td></td>
</tr>
<tr>
<td>Method for determining:</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Written testing:</th>
<th>based on passing a written test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components:</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Documentation of watching videos/CD's/web-based materials:</th>
<th>based on proctor or instructor verification that the trainee has watched the specified materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components:</td>
<td></td>
</tr>
</tbody>
</table>

| Other (specify): |
| Components: |
Self-study or self-practice (Is self-study or self-practice an expectation of this course?)

☐ No
☒ Yes

Self-study component(s): Listed under Resources
Estimated time requirements for self-study: 0.5 hrs
Phase of course where self-study completed: Prior to course

Self-practice component(s):
Estimated time requirements for self-practice: _________ hrs
Phase of course where self-study completed: ____________________________

Training Location(s): J-9 OR

Resources (Textbooks, CD-ROMs, Videos, etc.):
(Articles will be sent to participants via e-mail 2 weeks prior to course)

ASC APDS Surgical Skills Curriculum for Residents (November 2007) 1-11 Model 19 “Hand Sewn Anastomosis” by R. James Valentine, MD UTSW and Brian J. Kaplan, MD Virginia Commonwealth University.

Educational Scope:

☒ Skills Components: Demonstrate the creation of an end-to-end intestinal anastomosis

☒ Cognitive Components: Critical thinking/problem solving

☒ Judgment Components: Teaching will utilize the preoperative evaluation of patients requiring hand sewn intestinal anastomosis and postoperative complications.
Learning Objectives:
List the steps in the performance of a hand sewn, end to end intestinal anastomosis and understand the correct suture material to use.
Identify and manage potential postoperative complications of a hand sewn intestinal anastomosis.
Identify technical causes of anastomotic failure.
Describe advantages and disadvantages of a single layer versus a double-layer hand sewn intestinal anastomosis.
Describe circumstances in which one would choose an end to end, end to side, or side to side intestinal anastomosis.
Demonstrate laboratory performance of an end to end intestinal anastomosis using single and double-layer techniques.

Summary of Curriculum, Teaching Methods, and Resource Utilization:
(For each component, please specify what material will be taught during each session, how will the material be taught, and what teaching materials will be used. Please also specify the overall format for the course including expectations required for successful course completion)
A preliminary seminar session led by faculty prior to skills lab which will teach the indications for small bowel hand sewn intestinal anastomosis. The operative evaluation for a small bowel hand sewn intestinal anastomosis will be discussed with participants. The circumstances in which one would choose an end to end, end to side, or side to side intestinal anastomosis will be discussed with opportunity for question and answer period.

A skill session will follow with two residents per suture board station, one acts as surgeon and the other acts as assistant, then switch. All residents will demonstrate an end-to-end, end to side and side to side small bowel intestinal anastomoses being evaluated by proctoring faculty.

Methods for giving feedback to learners (Formative and Summative):
Facility will use direct observation with immediate feedback to participants during session. The faculty will offer comments on each individual performance.

Methods of assessment of learners:
Questions will be asked to assess learning cognitive information. Facility will use direct observation of each participant’s skill level with immediate feedback.

Methods of course evaluation:
Post-test questionnaires completed by trainees at the end of the course and faculty evaluations of skills sessions
Materials:
- Ex vivo porcine models
- Suture boards
- Binder clips
- Bowel clamps or hemostats w/ rubber shod
- 3-0 Silk suture (control release), 3-0 chromic suture, or other absorbable suture
- Needle drivers
- Forceps
- Suture scissors
- Syringe w/ water