2013-2014 TECHNICAL SKILLS COURSE OUTLINE

Course title:	Minimally Invasive Procedures of the Breast				
Course director:	Roshini Rao, MI	П			
Specialty:	Surgony	0			
Specially:	Surgery				
Additional course faculty:					
Additional course facalty.					
Participants:	PGY 2 Surgerv	residents			
	# participants				
	for course:	12			
Curriculum dates:	Percutaneous b	oreast bio	osy _	8/21/13	
	Breast ultrasou	nd		10/02/13	
	Breast balloon l	brachythe	rapy _	1/29/14	
Expected attendance:		12			
Sessions assigned to each trai	nee	3			
Duration of each session		2	hr(s)		
Trainees per session		13			
Other assigned sessions:					
Duration of each session			hr(s)		
Trainees per session					
When other sessions are held	?				

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<u>Course Completion Verification</u> - 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.*

\boxtimes	Attendance based:	based on trainee attending all of the designated sessions			
	Entire course - course solely based on attendance				
	Part of course - attendance to designated sessions required in addition to other components listed below				
	Repetition based:	based on the trainee performing a specific number of repetitions			
	Components:				
	# of Repetitions:				
\boxtimes	Proficiency based:	based on the trainee performing a specified number of repetitions			
	Components:	 Fine Needle Aspiration: Demonstrate ability to infiltrate local anesthesia, obtain aspirate, and thereafter place onto slides appropriately. Core Biopsy: Vocalize understanding for rationale for core biopsy versus FNA, demonstrate appropriate anesthetic infiltration, obtain adequate core samples. Partial breast irradiation: Vocalize understanding for partial breast irradiation. 			
	Method for determining:	Direct instructor observation of procedural steps with accompanying documentation of achievement.			
	Written testing:	based on passing a written test			
	Components:				
	<u>Documentation of watching videos/CD's/web-based materials:</u> based on proctor or instructor verification that the trainee has watched the specified materials				
	Components:				

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	Other (<i>specify</i>):
	Components:
Self-study or self	f-practice (Is self-study or self-practice an expectation of this course?)
	No
\boxtimes	Yes
	Self-study component(s): Preview articles prior to session
	Estimated time requirements for self-study: <u>1/2</u> 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 Locatio	<u>n(s):</u> Skills Lab (E6.202)
<u>Resources (Textl</u> Thomas Stavros	books, CD-ROMs, Videos, etc): "Breast Ultrasound."
Selected reading	s from ASBS ultrasound course
"Fine-Needle As	piration: Techniques & Smear Preparation" by David Lieu for Percutanous Biopsy Session.

Book chapters from Clinical Lab Med (2005) 631-654 "Breast Fine Needle Aspiration Biopsy: Prevailing Recommendations and Contemporary Practices" by Andrea Abati, MD and Aylin Simsir, MD for Ultrasounded guided session.

Surgical Clinics of North America 84 (2004) 1001-1034 "Updates in Breast Ultrasound" by Richard E. Fine, MD and Edgar D. Staren, MD, PhD.

Journal Radiotherapy and Oncology (January 2009) 157-165 "Accelerated Partial Breast Irradiation Utilizing Balloon Brachytherapy Techniques" by Jonathan B. Strauss and Adam Dicker for Breast Brachytherapy.

Educational Scope:

Skills Components:

Ability to perform FNA versus core biopsy versus Mammosite placement, performed with and without ultrasound guidance.

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\boxtimes	<u>Cognitive</u>	
	Components:	Lectures given on each topic and information given in the
		form of book chapters.
\boxtimes	<u>Judgment</u>	
	Components:	What clinical situations require the use of one biopsy
		technique versus another?

Learning Objectives:

Understand the indications and techniques for performance of FNA versus Core biopsy in palpable breast masses. Understand the indications and techniques for performance of ultrasound guided vacuum assisted core biopsy. Understand the current indications and techniques for breast Mammosite placement.

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)

1st Session: Percutaneous biopsy of palpable mass using FNA or Core biopsy:

- 1. Handout of fine needle aspiration technique and core biopsy technique given 2 weeks prior to course
- 2. Twenty minute lecture with interactive questions
- 3. Turkey breast with green olives used as model (3 models per session, 3-4 students per model), Tru-cut biopsy needles, Mammotome biopsy needle
 - a. Performance of FNA and core biopsy by instructor
 - b. Individual students given opportunity to attempt biopsy
 - c. Final performance of one FNA and one core biopsy by each student with observation and assessment by instructor (see sheet)

2nd Session: Ultrasound guided vacuum assisted core biopsy

- 1. Handout describing basic breast ultrasound and vacuum assisted core biopsy given 2 weeks prior to course
 - 2. Twenty minute lecture with interactive questions
 - 3. Commercial breast phantoms used as model
 - a. Vacuum assisted core biopsy with ultrasound guidance demonstrated by instructor
 - 4. Performance of biopsy by each student with instructor assessment and evaluation
- 3rd Session: Balloon Brachytherapy Techniques
 - 1. Handout of Balloon Brachytherapy Techniques given 2 weeks prior to course
 - 2. Twenty minute lecture with interactive questions
 - 3. Performance of technique by each student with instructor assessment and evaluation

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Methods for giving feedback to learners (Formative and Summative):

During the practice phase, instructor will provide feedback directly to students. Each student will receive a copy of the final evaluation given at the end of the session.

Methods of assessment of learners:

Assigned reading component verified by oral questioning during introductory session. The Skills component is verified by attendance, direct observation by instructor using evaluation checklist, and by objective evidence of appropriate tissue within biopsy taken.

Methods for remediation:

Based on final evaluation at end of every session, if there is a student who is unable to perform the technique and obtain appropriate tissue, a second session with one on one instruction will be arranged.

Methods of course evaluation:

Post-test questionnaires completed by trainees at the end of the course and faculty evaluations of skills sessions

Materials:

Automated core biopsy devices	3
Phantom breast phantoms	
(w/ simulated masses)	2
Mammotome vacuum	
(assisted biopsy devices)	2
Ultrasound machines	3
Commercial breast phantoms	3
Butterfly needles and syringes	12
Mammosite balloons	3
Latex-gloves	1 box
Pap & formalin fixatives	
11 blade knives	3
12 cc syringes	3