

Department Resident and Fellow Preparation Plan

*For participation in undergraduate medical education (UME)
through the Paul L. Foster School of Medicine*

Department: Emergency Medicine

Date Proposed: August 2016

Date Curriculum and Educational Policy Committee Approved: 4/10/2017

| | Description | Timing/cycle | Monitoring^ |
|---|---|-------------------------|---|
| <p>Process for verified distribution to all <u>current</u> residents and fellows of the following:</p> <ul style="list-style-type: none"> • EPGOs* • Clerkship syllabus (Year 3, EM, or Neurology) • Selective syllabi (Critical care and/or Sub-Internship) | <p>All documentation is distributed via e-mail to all current residents.</p> <ul style="list-style-type: none"> • <i>'Medical Residents as MS-4 Instructors'</i> • <i>'EM Clerkship Syllabus'</i>. | <p>End of June</p> | <p>Sign-in sheets are maintained as being present during the presentation and read-receipt is requested for all e-mailed documents.</p> |
| <p>Process for verified distribution to all <u>incoming</u> residents and fellows of the following:</p> <ul style="list-style-type: none"> • EPGOs* • Clerkship syllabus (Year 3, EM, or Neurology) • Selective syllabi (Critical care and/or Sub-Internship) | <p>Annually incoming residents are provided with <i>'Medical Residents as MS-4 Instructors'</i>, the <i>'EM Clerkship Syllabus'</i> and <i>'Appropriate Treatment of Medical Students'</i> on the welcome flash drives provided. The Chief Residents discuss this with all incoming residents during orientation.</p> | <p>July Orientation</p> | <p>Sign-in sheets are maintained as receipt of the flash drive and/or read-receipt is requested for any e-mailed documents.</p> |

Required activities for participation in UME elements (clerkships and selectives) sponsored by the department.

- Specify who is required to participate (i.e., what group or subset of residents and fellows)
- List each activity in a separate row below. Add rows as necessary.

| Activity | Description | Timing/cycle | Monitoring [^] |
|---|---|---------------------|---|
| 'Medical Residents as MS-4 Instructors' | At the end of June, Dr. Parsa presents 'Residents as Instructors' to the current residents. | Annual presentation | Sign-in sheets are maintained as being present during the presentation. |
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Other ROUTINE AND SYSTEMATIC processes for disseminating clerkship session or activity-related learning objectives, instructions, and expectations:

- List each process in a separate row below. Add rows as necessary.

| Process | Description | Timing, trigger, or cycle | Monitoring [^] |
|--|--|---------------------------|---|
| Preparation 1-2 weeks in advance. Didactic is scheduled between 45-60 minutes per rotation. | E-mail calendar invitation outlining date, time, location, basic expectations and objectives to accomplish as a presenter/teacher. | | Dr. Parsa is present during all sessions when residents are presenters/instructors providing guidance and feedback. |
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Any OPTIONAL OR SUPPLEMENTAL activities or resources provided to residents by the department to enhance their knowledge and abilities for participation in UME (specifying when and how often they occur, and who is eligible):

- Specify who is eligible (i.e., what type or subset of residents and fellows)
- List each process in a separate row below, Add rows as necessary.

| Activity or resource | Description | Timing, trigger, or cycle | Monitoring |
|----------------------|-------------|---------------------------|------------|
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* EPGOs: PLFSOM Education Program Goals and Objectives (updated version published and distributed annually – also publically available through the PLFSOM online academic catalog)

[^] Fulfillment of required activities and processes must be monitored. In addition, alternative means of fulfillment of required activities and processes should be identified as relevant/necessary. Utilization of optional activities or resources should be monitored, when possible.

ADDENDUM:

Formal teaching assigned to residents for which residents receive feedback and/or assessment of their teaching:

| Activity | Description | Timing/cycle | Monitoring^ |
|---|--|--|---|
| <p>Orientation Didactic – <i>Orthopedic Emergencies</i></p> | <p>Expectation to cover basic concepts of immobilization, how to describe fractures correctly, basic fracture classifications and emergency management including some common fractures are positioned, when to use knee/shoulder immobilizers, etc.</p> <p>Discuss non-fracture related orthopedic problems, like compartment syndrome, necrotizing fasciitis, etc. and splinting materials and practice putting splints may be practiced with.</p> | <p>EM Residents are assigned to lecture based on their current EM specialty rotation and assignments.</p> <p>Didactic is scheduled between 45-60 minutes per rotation.</p> | <p>Dr. Parsa is present during the didactic and provides a <i>'resident as instructor' assessment</i> to the resident for their permanent file as well as personal one-on-one feedback.</p> |
| <p>Orientation Didactic – <i>Toxicology in the ED</i></p> | <p>The lecture should be a general overview hitting on some of the following topics: General overdose management from the ED perspective (charcoal, supportive care, etc.) ASA and APAP overdose, substances that cause anion gap met acidosis (methanol, iron, isoniazid, etc. - this only needs to be 1-2 slides) CO and metHb Poisoning.</p> | <p>EM Residents are assigned to lecture based on their current EM specialty rotation and assignments.</p> <p>Didactic is scheduled between 45-60 minutes per rotation.</p> | <p>Dr. Parsa is present during the didactic and provides a <i>'resident as instructor' assessment</i> to the resident for their permanent file as well as personal one-on-one feedback.</p> |
| <p>Orientation Training – <i>UMC/EPCH Tour, Cerner Training, and Ultrasound</i></p> | <p>EPCH/UMC tour should include the Trauma Bays and their different roles. Briefly show the MS-4s what happens during a trauma or code, what is in the small Pyxis, where important equipment is stored, what they should do to be helpful when a critical patient arrives, etc..</p> <p>Cerner/First Net - show them the basics: Check Labs – Sign- up patient – Review old records – Write a note – Request endorsement - Etc.</p> <p>Ultrasound - Explain why to do ED ultrasound (can change management, easy and quick). Demonstrate an abdominal scan to complete the following: eFAST – RUQ – Aorta – Renal – Cardiac US.</p> | <p>EM Residents are assigned to lecture based on their current EM specialty rotation and assignments.</p> <p>Didactic is scheduled between 45-60 minutes per rotation.</p> | <p>Dr. Parsa is present during the didactic and personal one-on-one feedback.</p> |

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|--|---|---|--|
| <p>Task Trainers SIM</p> | <p>Adult/Pedi Airway</p> <ul style="list-style-type: none"> • Define the principles of ventilation and oxygenation. • Demonstrate simple techniques for opening a patient's airway, without the aid of equipment. <p>Intra-Osseous Line Placement</p> <ul style="list-style-type: none"> • Demonstrate the attachment of infusion devices on a simulated training apparatus. • List the complications and contraindications for this technique. <p>Lumbar Puncture</p> <ul style="list-style-type: none"> • Recognize the possible serious adverse effects. • Identify and demonstrate the basic anatomical landmarks and technique for the procedure. <p>Tube Thoracostomy</p> <ul style="list-style-type: none"> • Implement the steps for the insertion of a chest tube. • Discuss potential complications of this procedure and relevant prevention and management strategies. <p>Central Venous Catheterization</p> <ul style="list-style-type: none"> • Describe and demonstrate the basic anatomical landmarks in the procedure and the approach/ technique of the procedure. • Recognize the possible serious adverse effects. | <p>EM Residents are assigned to assist with the SIM based on their current EM specialty rotation and assignments.</p> | <p>Dr. Parsa is present and available for pre-SIM discussions, operations, guidance, and feedback with the Senior Residents.</p> |
| <p>Medical SIM Cases</p> | <p>Syncope / Pediatric Trauma / Chest Pain</p> <ul style="list-style-type: none"> • Demonstrate initial assessments and basic procedural skills. • Utilize communication skills and professionalism in a team setting. • Verbalize orders, interpretations, and medical management as a team. | <p>EM Residents are assigned to assist with the SIM based on their current EM specialty rotation and assignments.</p> | <p>Dr. Parsa is present and available for pre-SIM discussions, operations, guidance, and feedback with the Senior Residents.</p> |
| <p>Emergency Department Patient Care</p> | <p>Students work alongside EM Senior Residents providing patient care.</p> | <p>Ongoing</p> | <p>Ongoing supervision by Clerkship Director and EM Clinical Faculty.</p> |