University of North Carolina
Department of Allied Health Sciences
Division of Physician Assistant Studies

PAS 807: EMERGENCY MEDICINE
SUPERVISED CLINICAL PRACTICE EXPERIENCE

COURSE DIRECTOR
Jason Hrdina, EdD, MPAS, MPH, EM PA-C
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PA PROGRAM OFFICE
Bondurant Hall, Suite 2084
321 South Columbia Street, CB #7121
Chapel Hill, NC  27599-7121
(919) 962-8008

Office Hours (virtual via Microsoft Teams):
Monday’s (During SCPEs): 9 am – 11 am (20-minute appointment slots, via Microsoft Bookings)
Thursday’s (During SCPEs): 6 pm – 8 pm (20-minute appointment slots, via Microsoft Bookings)
Please don’t hesitate to reach out if you have questions or need additional help.

Effective 1 November 2021
COURSE DESCRIPTION
This four-week clinical course provides the UNC Chapel Hill MHSPAS physician assistant student with the opportunity to learn, understand, and gain supervised experience in practicing principles of academic and community emergency medicine. Students will learn methods for determining critical versus noncritical presentation and methods of patient stabilization. UNC Chapel Hill MHSPAS students will gain experiences in patients seeking emergency care across of life span to include infants, children, adolescents, adults, and the elderly. UNC Chapel Hill MHSPAS Students will have the opportunity to apply many of the procedures and techniques learned in the fundamentals of surgery course.

COURSE CREDITS
4 Credit Hours

COURSE PREREQUISITE(S):
Successful completion of the pre-clinical phase of the program.

JUSTIFICATION
This course is a required component of Physician Assistant education as specified in the Standards of Accreditation of the Accreditation Commission on the Education of Physician Assistant. The course promotes the mission of UNC-CH MHSPAS program by equipping students with knowledge in family medicine that will allow them to practice as Physician Assistants with the highest integrity and service to their patients.

COURSE GOALS:
The educational goals of the emergency medicine clinical learning experience include:

1. Proficiency in obtaining a thorough medical history and performance of a complete physical examination.
2. Effective communication with fellow healthcare team members, family members and patients.
3. The ability to care and demonstrate compassion and understanding while being supportive and willing to provide superior patient care.
4. A functional understanding of disease processes and injuries and be able to form appropriate differential and final diagnoses.
5. Appropriate utilization and interpretation of medical diagnostics.
6. The capacity and ability to apply critical thinking into the evaluation and care of patients.
7. The ability to conduct oneself in an ethical and moral manner.
8. Integrate diagnostic assessment skills with knowledge of patient presentation, pharmacology, and health care subspecialties to synthesize appropriate treatment plans.
9. Demonstrate basic competency in clinical procedures performed by a graduate Physician Assistant.

COURSE SCHEDULE
To prepare PA students for clinical practice, American Academy of Physician Assistants (AAPA) recommends PA students obtain a comprehensive educational program consisting of a total of 2,000 hours of supervised clinical practice.

Effective 1 November 2021
Dates for the supervised clinical practice experience are available in the eMedley platform system, located in eduSched. Students are required to reach out to the preceptor and/or clinical site two weeks prior to the start of the supervised clinical practice experience to receive their schedule. Contact information for the clinical site/preceptor are provided in eMedley.

Students may be required to work nights, overnights, weekends, on-call, holidays depending on preceptor/clinical site schedule. During certain supervised clinical practice learning experiences (including but not limited to emergency medicine, surgery, inpatient internal medicine, women’s health & prenatal care), students may be expected to work over 40 hours per week, (over 160 hours in a 4-week SCPE and/or six days a week with one day off). Students are not permitted to stack shifts to finish the supervised clinical practice experience early, decline shifts/clinical days or request specific days off.

Students are required to submit their schedule in Microsoft Teams by Thursday of the first week of the rotation for approval by the Director of Clinical Education. Students are required to ensure they have a minimum of 152 scheduled hours prior to submitting the schedule to the Director of Clinical Education for approval. Students should understand, 152 hours is a minimum requirement by the program, not the maximum, and should work with preceptors to obtain more patient care hours during the supervised clinical learning experience. Students should work with the preceptor/clinical site to ensure adequate hours are scheduled prior to submission of the schedule. The Director of Clinical Education and/or preceptor reserves the right to add additional shifts to the schedule during the supervised clinical practical experience. Please refer to the Student Duty Hour Policy for the detailed student duty hour guidelines for physician assistant students.

SUCCESS IN THE COURSE
The UNC Chapel Hill MHSPAS is a graduate level program that embraces student-centered adult learning as the major tenant of student’s success. In keeping with this, students are responsible for reading appropriate chapters in the required text in preparation for examinations and completing any assignments. UNC Chapel Hill MHSPAS physician assistant students will be responsible for all expected learning outcomes, supervised clinical practice experience expectations and assessment activities listed in each SCPE syllabus.

COURSE PREPARATION
*Students should review the following prior to beginning the emergency medicine clinical learning experience:*

I. Journal Articles/reading material provided by the preceptor in eMedley (if available)

II. Syllabus and Clinical Presentation and Skills Portfolio (*It is highly recommended students review Clinical Presentation and Skills Portfolio on the first day with the preceptor to set up a plan to ensure requirements are met during the rotation.)*

III. Documentation:
- EM SOAP/APS0 note with medical decision making
- Procedure note
- Informed consent note

IV. Skills:
- Suturing
- I&D abscess
- Sterile technique
- Slit lamp exam

Effective 1 November 2021
V. Evaluation and management of:
- Acute abdominal pain
- Chest pain
- Shortness of breath
- Allergic reaction
- Asthma exacerbation
- Pelvic pain/bleeding
- Neurologic complaints/deficits
- Common infectious disease

COURSE REQUIRED TEXTBOOKS:

COURSE RECOMMENDED RESOURCES:
- Hamilton RJ. Tarascon Pharmacopoeia. (Current Series). (Pocket or App version)
- Gilbert DN, Chambers HF, Eliopoulos GM. Sanford Guide to Antimicrobial Therapy. (Current Series). (Pocket or App version)
- Tintinalli’s Emergency Medicine Comprehensive Study Guide. (Current Series)
- Rosen’s Emergency Medicine. (Current Series)
- Roberts and Hedges. Clinical Procedures in Emergency Medicine. (Current Series)

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<thead>
<tr>
<th>Recommended Websites</th>
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<tbody>
<tr>
<td>UpToDate</td>
<td><a href="http://www.uptodate.com">www.uptodate.com</a></td>
</tr>
<tr>
<td>American College of Physicians</td>
<td><a href="http://www.acponline.org">www.acponline.org</a></td>
</tr>
<tr>
<td>American Medical Association (AMA)</td>
<td><a href="http://www.ama-assn.org/ama">www.ama-assn.org/ama</a></td>
</tr>
<tr>
<td>American Academy of Physician Assistants (AAPA)</td>
<td><a href="http://www.aapa.org">www.aapa.org</a></td>
</tr>
<tr>
<td>American College of Emergency Physicians (ACEP)</td>
<td><a href="http://www.acep.org">www.acep.org</a></td>
</tr>
<tr>
<td>Society of Emergency Medicine Physician Assistants (SEMPA)</td>
<td><a href="http://www.sempa.org">www.sempa.org</a></td>
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Effective 1 November 2021
Recommended Websites | Address
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EMCrit Blog | emcrit.org
EKG Basics Training | practicalclinicalskills.com

COURSE TEACHING METHODOLOGIES
The content in the clinical phase will be presented through a variety of methods that include observation and participation at the clinical site, independent reading and participation in online activities developed to guide experiential learning.

COURSE GRADING CRITERIA
1. Demonstrate acquisition of a strong medical science knowledge base as demonstrated on the standardized examination/quizzes.
2. Demonstrate satisfactory self-directed learning skills, clinical reasoning skills, interpersonal communication, commitment to patient-centered care, professionalism, and practice-based learning as evidenced by satisfactory performance on the preceptor evaluation.
3. Demonstrate a commitment to learning and professionalism by actively participating in all clinical activities and exceeding the professional behavior standards and minimum requirements for clinical rotations available in the UNC Chapel Hill MHSPAS Student Handbook.

COURSE INSTRUCTIONAL OBJECTIVES:
The instructional objectives of the emergency medicine clinical learning experience include:
1. Perform focused history and physical examinations.
2. Interpret appropriate lab and diagnostic studies and/or findings.
3. Participate as part of an interprofessional team.
4. Communicate findings of a given patient encounter in written and oral forms to all members of the health care team.
5. Communicate effectively with patients and families.
6. Develop differential diagnosis and formulated and/or implemented an appropriate management plan.
7. Perform and demonstrate clinical skills and procedures.
8. Critically evaluate the medical literature to use current practice guidelines and apply the principles of evidence-based medicine to patient care.

PROGRAM LEARNING OUTCOMES SUPPORTED BY THIS CLINICAL LEARNING EXPERIENCE:
Upon successful completion of the emergency medicine supervised clinical practical experience, the clinical phase PA student will possess the knowledge, skills, and attitudes necessary to demonstrate entry-level (to the PA profession) proficiency in the following:

<table>
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<tr>
<th>PROGRAM COMPETENCY DOMAIN</th>
<th>PROGRAM LEARNING OUTCOMES</th>
<th>METHOD OF ASSESSMENT</th>
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<tr>
<td>Medical Knowledge</td>
<td>Demonstrate medical knowledge of the sciences essential for one’s level of training of common acute and emergent presentations across a lifespan encountered in the emergency room setting.</td>
<td>PAEA End of Rotation Exam, Preceptor Evaluation, Clinical Presentation &amp; Skills Portfolio</td>
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<td>Patient Care</td>
<td>Performs an organized problem-focused or complete history as indicated by the clinical presentation in the emergency room setting.</td>
<td>Preceptor evaluation; eMedley Case Logs; Clinical Presentation &amp; Skills Portfolio</td>
</tr>
<tr>
<td>Patient Care</td>
<td>Performs an organized and accurate problem-focused or complete physical examination as indicated by the clinical presentation in the emergency room setting.</td>
<td>Preceptor Evaluation; eMedley Case Logs; Clinical Presentation &amp; Skills Portfolio</td>
</tr>
<tr>
<td>Patient Care</td>
<td>Demonstrates the ability to synthesize information and articulate medical decision-making for a working diagnosis and prioritized differential.</td>
<td>PAEA End of Rotation Exam &amp; Preceptor Evaluation</td>
</tr>
<tr>
<td>Patient Care</td>
<td>Develops an appropriate plan and recommends diagnostic studies in the context of the clinical presentation and patient preference.</td>
<td>PAEA End of Rotation Exam; Preceptor Evaluation</td>
</tr>
<tr>
<td>Patient Care</td>
<td>Interprets diagnostics in the context of the patient information, the clinical presentation, patient preferences, evidence-based medical literature and clinical judgement.</td>
<td>PAEA End of Rotation Exam; Preceptor Evaluation</td>
</tr>
<tr>
<td>Patient Care</td>
<td>Demonstrate diagnostic &amp; therapeutic procedures with preceptor supervision (when appropriate and possible)</td>
<td>Clinical Presentation &amp; Skills Portfolio; eMedley Case Logs</td>
</tr>
<tr>
<td>Interpersonal &amp; Communication Skills</td>
<td>Accurately and concisely communicate the findings of a given patient encounter in written forms to all members of the health care team, to include an APSO note.</td>
<td>Preceptor Evaluation</td>
</tr>
<tr>
<td>Interpersonal &amp; Communication Skills</td>
<td>Delivers succinct, accurate, organized, and complete oral presentations to all members of the health care team.</td>
<td>Preceptor Evaluation</td>
</tr>
<tr>
<td>Interpersonal &amp; Communication Skills</td>
<td>Develops rapport with patients using verbal and non-verbal communication skills to facilitate shared decision-making and information exchange.</td>
<td>Preceptor Evaluation</td>
</tr>
<tr>
<td>Practice-Based Learning and Improvement</td>
<td>Develops learning and improvement goals and strives to meet those goals</td>
<td>Preceptor Evaluation</td>
</tr>
<tr>
<td>Systems-Based Practice</td>
<td>Provides advocacy and support to assist patients in obtaining quality care and in dealing with the complexities of health care delivery systems.</td>
<td>Preceptor Evaluation</td>
</tr>
<tr>
<td>Professionalism (Professional Responsibility)</td>
<td>Demonstrates the professional behaviors expected of a medical professional (e.g., the student attended clinic on time, addressed the staff with respect, took feedback well, etc.)</td>
<td>Preceptor Evaluation</td>
</tr>
<tr>
<td>Professionalism and Cultural Sensitivity &amp; Humility</td>
<td>Demonstrates behaviors that convey compassion, respect, integrity, empathy for others, as well as sensitivity and openness to a diverse patient population.</td>
<td>Preceptor Evaluation</td>
</tr>
<tr>
<td>Interprofessional Professionalism</td>
<td>Collaborates with other health professionals to promote a climate of mutual respect and trust, communication, accountability, ethics, excellence, altruism &amp; caring, as well as patient-centered care.</td>
<td>Preceptor Evaluation/Interprofessional Assessment</td>
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**PAEA END OF ROTATION (EOR) ASSESSMENT: LEARNING OUTCOMES**

Upon successful completion of the emergency medicine supervised clinical practice experience, the clinical phase PA student (through clinical exposure & reading *Current Medical Diagnosis and Treatment, McGraw Hill*) will possess the medical knowledge of the disease/disorders and core task in the PAEA Emergency Medicine Topic List and Blueprint (see Appendix A & B) necessary to demonstrate entry-level (to the PA profession) proficiency in the following:

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HISTORY TAKING AND PHYSICAL EXAMINATION

- Identify elements of, and need for, comprehensive and focused interviews appropriate for the age and gender of the patient, reason for visit, urgency of the problem, and patient’s ability to provide history.
- Recognize and interpret* pertinent historical information.
- Identify history commonly associated with specific medical conditions.
- Identify elements of, and need for, comprehensive and focused physical examinations appropriate for the age and gender of the patient, reason for visit, urgency of the problem, and patient’s ability to participate in the examination.
- Identify required techniques in the physical examination.
- Recognize and interpret* pertinent physical examination findings when presented in written or illustrated form.
- Determine the need for other resources (e.g., past records, consultation, other members of the health care team, etc.) to expand knowledge of the patient’s history.
- Interpret history and physical examination findings to differentiate one disorder from another.

*Interpret means to determine whether normal or abnormal or determine the meaning of the finding relative to pathophysiologic processes and disease.

DIAGNOSTIC STUDIES

- Demonstrate knowledge of appropriate patient and family education related to laboratory and diagnostic studies.
- Identify techniques and potential complications for common diagnostic procedures.
- Select the appropriate initial and subsequent laboratory and diagnostic studies based on initial impressions determined from the history and physical examination or germane to the health-screening situation.
- Identify the indications for specific laboratory and diagnostic studies.
- Identify risks associated with laboratory and diagnostic studies.
- Recognize normal and abnormal values for routine laboratory and diagnostic studies.
- Interpret the results of routine laboratory and diagnostic studies.
- Select appropriate laboratory and diagnostic testing by considering and evaluating the cost, probable yield, invasiveness, and contraindications of laboratory and diagnostic studies.
- Determine if and when additional diagnostic studies are required.
- Identify laboratory and clinical studies considered to be the best for the diagnosis of certain conditions.

DIAGNOSIS

- Determine a differential diagnosis based upon historical information, physical examination findings, and laboratory and diagnostic study findings.
- Select the most likely diagnosis based on historical information, physical examination findings, and laboratory and diagnostic study findings.

HEALTH MAINTENANCE

- Determine appropriate counseling, as well as patient and family education, related to preventable diseases, communicable diseases, immunization schedules, and healthy lifestyles.
- Determine the appropriate history and physical examination in screening an asymptomatic patient during well-care visit based on age.

Effective 1 November 2021
• Recognize risk factors for conditions amenable to prevention or detection in an asymptomatic individual.
• Recognize the impact of stress on health and the psychological manifestations of illness and injury.
• Recognize the effects of aging and family roles on health.
• Recognize the impact of environmental and occupational exposures on health.
• Recognize the signs and symptoms of abuse and neglect and the indications for intervention and referral.
• Identify common barriers to care.
• Identify the risks and benefits of immunizations.
• Select the appropriate laboratory and diagnostic screening studies and identify normal ranges.
• Identify growth and human development milestones.
• Match anticipatory guidance to the appropriate age level and to the sequelae it is intended to prevent.

CLINICAL INTERVENTION
• Select the application or technique required for common clinical interventions.
• Identify appropriate monitoring for patients after interventions, including checking for compliance, adverse reactions, and effectiveness.
• Recognize appropriate counseling and patient and family education related to clinical interventions.
• Identify proper referral strategies for patients to other services for clinical intervention as appropriate.
• Determine appropriate follow-up from referrals.
• Select a clinical intervention plan that is consistent with the working diagnosis.
• Prioritize clinical interventions in emergent, acute, and chronic care situations.
• Evaluate severity of patient condition in terms of need for medical and/or surgical referral, admission to the hospital or other appropriate setting.
• Determine appropriate surgical treatment and postsurgical/postprocedural management.
• Identify potential complications of specific clinical interventions and procedures.
• Recognize appropriate plans for patient discharge and appropriate medical, surgical, and rehabilitation follow-up.
• Select nonpharmacologic modalities (e.g., physical therapy, surgery, counseling) to integrate into patient management plans.

CLINICAL THERAPEUTICS
• Identify appropriate counseling and patient and family education related to a clinical therapeutic agent including drug-drug interactions.
• Identify key safety factors related to the administration of medications (oral, topical, sublingual, subcutaneous, intramuscular, rectal, otologic, vaginal, and ophthalmic).
• Recognize appropriate plans to monitor pharmacotherapy, checking for compliance, side effects, adverse reactions, and effectiveness.
• Select a clinical therapeutic plan, that considers the cost, efficacy, possible adverse reactions, contraindications, and drug interactions for medications selected.
• Recognize the pharmacokinetic properties, indications, and contraindications for the use of pharmacologic agents. Apply this knowledge to the safe and effective selection and administration of medications.

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• **Identify side effects**, adverse reactions, contraindications, precautions, therapeutic effects, and dosing of the major classes of clinically important drugs and commonly used medications.
• Identify the risks for, and signs and symptoms of, drug interactions resulting from polypharmacy in the therapeutic regimen.
• **Recognize the appropriate actions** to take in response to acute, specific drug toxicity.
• **Modify therapeutic regimen** within the context of continuing care.

**SCIENTIFIC CONCEPTS**
• **Apply basic sciences** (anatomy, physiology, microbiology, genetics, etc.) to the diagnosis and management of specific medical conditions.
• **Recognize associations of disease conditions** and complications through application of scientific concepts.
• Demonstrate understanding of concepts of **public health** in the management of the population’s and an individual patient’s health and well-being, as well as disease.
• **Identify underlying processes or pathways** responsible for a specific condition or disease.

**COURSE ASSIGNMENTS AND ASSESSMENTS**
*Grades are assigned by the Clinical Course Director. The Clinical Course Director may obtain advice and consultation from the Preceptor and/or the Academic Excellence Committee. The following are requirements for a passing grade:*
1. Active participation in Q-stream MCQ’s (MOCK PANCE & Emergency Medicine)
2. Completion of requirements in Clinical Presentations & Clinical Skills Portfolio
3. PAEA End of Rotation Emergency Medicine Exam Score of ≥385
4. Preceptor Evaluation (Formative Midpoint and Summative Final) assessing competency in emergency medicine learning outcomes
5. Documenting daily clinical hours per the SCPE Case Log, Procedure Log, and Time Log Policy in eMedley web-based software. *(the Clinical Team will look for omissions in the student’s clinical hours and arrange for additional training opportunities (i.e., replace elective) to complement the current rotation if necessary).*
6. Documentation in the eMedley web-based software all patient encounters that is required per the SCPE Case Log, Procedure Log, and Time Log Policy over the course of the rotation to include visits for: *(the Clinical Team will look for omissions in the student’s experiences and arrange for additional training opportunities (i.e., replace elective) to complement the current rotation if necessary).*
   a. Acute medical problems
   b. Emergent medical problems
   c. Management of multiple health problems
   d. Across a lifespan (infants, children, adolescents, adults and elderly).
7. Additional requirements provided by the Clinical Instructor (Preceptor)
8. Additional assignments assigned by Clinical Faculty (e.g., ILP, Rosh Questions, Aquifer Virtual Patients)
9. Submission of evaluations located in evaluate of eMedley: Student Evaluation of Clinical Site, Student Evaluation of Preceptor, and Student Self-Assessment on PA Competencies
10. Contacting Clinical Education Team at any point in rotation to discuss concerns regarding the ability to achieve the above.

Effective 1 November 2021
COURSE GRADING SCALE
P = ≥ 70
F = <70
N = Incomplete
**There is no rounding of grades**

COURSE COMPLETION
All students must satisfactorily complete all required supervised clinical practice experience assignments and assessments as described above. All students are required to complete this course with a minimum final grade of 70% (385) on the PAEA End of Rotation Examination and a 70% on the Final Preceptor Evaluation.

REMEDIATION
Refer to the UNC-CH MHSPAS Student Handbook for a detailed description of the Clinical Phase remediation policies on examination, preceptor evaluations, and course failures.

EXAM DATE CHANGE POLICY
N/A

MIDPOINT AND FINAL PRECEPTOR ASSESSMENTS POLICY
It is the student’s professional responsibility to contact the preceptor and kindly ask them to complete the mid-point and final preceptor assessments. Incomplete preceptor assessments will result in a “Incomplete Grade” or a “Fail” on the transcript until the preceptor assessment is submitted. If the preceptor did not receive the link or would prefer, we send another, please e-mail the Clinical Team, and let them know what your preceptor needs. We will provide one reminder email to the preceptor on your behalf. Preceptor assessments are a clinical experience course requirement and tool the program an assessment tool to assess student progress and competency in meeting program learning outcomes. Incomplete preceptor assessments will result in professionalism referral to the UNC-CH MHSPAS Program Clinical Affairs Committee and/or UNC-CH MHSPAS Program Academic Excellence Committee. Students cannot graduate unless all course completion requirements are met, to include final preceptor assessments.

If you continue to have difficulty obtaining your assessment(s), you can print off a paper version and schedule a time to personally take it to your preceptor to be completed, scanned, and email to the UNC-CH MHSPAS Clinical Team. If you continue to have difficulty after trying the above steps, please let the Clinical Team know. To avoid this problem in the future, it is advisable to discuss setting aside time with the preceptor to complete your assessments and review the assessments by the appropriate due dates.

CLINICAL SITE/PRECEPTOR/SELF ASSESSMENTS POLICY
A clinical site, preceptor, and self-assessments is required to be completed at the end of this rotation by each student to complete the rotation. All evaluations must be completed to receive a passing grade. Incomplete evaluations will result in an “Incomplete” grade on your transcript until completed. Failure to complete these evaluations by the due date will result in a professionalism referral to the UNC-CH MHSPAS Program Clinical Affairs Committee and/or UNC-CH MHSPAS Program Academic Excellence Committee.

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ARC-PA STANDARDS ADDRESSED IN THIS COURSE

A3.06: The student must clearly identify themselves as a physician assistant student.
B2.09: The curriculum must include instruction in clinical and technical skills including procedures based on the current professional practice.
B2.10: The curriculum must prepare students to work collaboratively in interprofessional patient centered team.
B2.13: The curriculum must include instruction to prepare students to search, interpret and evaluate the medical literature
B3.03: Supervised clinical practice experiences must enable students to meet program program’s learning outcomes:
  • preventive, emergent, acute, and chronic patient encounters.
  • medical care across the life span to include infants, children, adolescents, adults and the elderly
B3.04: Supervised clinical practice experiences must occur in the following settings:
  • emergency department
B3.05 Instructional faculty for the supervised clinical practice portion of the educational program must consist primarily of practicing physicians and PAs:
B3.06: Supervised clinical practice experiences should occur with:
  • physicians who are specialty board certified in their area of instruction
  • NCCPA certified PAs
  • Other licensed health care providers experienced in their area of instruction
B3.07: Supervised clinical practice experiences should occur with preceptors practicing in the following disciplines:
  • emergency medicine
B4.01: The program must conduct frequent, objective and documented evaluations of students related to learning outcomes in the supervised clinical education component.
  • eMedley case and procedure logging
  • Q-Stream Multiple Choice Questions (MCQ’s)
  • Mid-Point Preceptor Formative Evaluation of Student
  • Final Preceptor Evaluation of Student
  • Completion of requirements in Clinical Presentations & Clinical Skills Portfolio
  • End of SCPE student self-assessment of program specific competencies
C2.01: The program must define and maintain effective processes and documents the initial and ongoing evaluation of all sites and preceptors used for supervised clinical practice experience, to ensure students are able to fulfill program learning outcomes with access to: (a) physical facilities, (b) patient populations, (c) supervision.
  • Program Faculty Initial Evaluation of Clinical Site
  • Program Faculty Ongoing Evaluation of Clinical Site
  • Student Evaluation of Clinical Site
  • Student Evaluation of Preceptor

PHYSICIAN ASSISTANT (PA) CORE COMPETENCIES:
The PA profession has adopted six core standards by which all PA professionals should possess in order to practice in the healthcare field. These standards are known as core competencies, which address medical knowledge, patient care, practice-based learning and improvement, systems-based practice, professionalism, and interpersonal and communication skills. Life-long, continued learning and

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professional behavior is emphasized throughout each of these domains.

Competency-based education focuses on student-learner performance (learning outcomes) in reaching specific objectives (goals and objectives of the curriculum). In this setting, learning and teaching are dynamically combined to help the student achieve the expected learning outcomes and instructional objectives.

During the clinical rotations, the student will meet program expectations and acquire the competencies needed for clinical PA practice. At a minimum, the student will have emergent and acute patient encounters.

**UNC CHAPEL HILL MHSPAS SPECIFIC COMPETENCIES**
For successful completion of the course of study for the degree of Master of Health Sciences (MHS) at the University of North Carolina at Chapel Hill Physician Assistant Studies program, candidates for graduation must possess the knowledge, skills, attitudes and judgment to function in a broad variety of clinical situations and to render a wide spectrum of patient care. Candidates must demonstrate the capacity to develop academic and emotional maturity and leadership skills to function in a medical team.

The UNC PA Program competencies addressed in the emergency medicine course are:

**Medical Knowledge**

- Acquire and demonstrate medical knowledge.

*Student learning experiences include basic science skills such as normal anatomy & physiology, pathophysiology, and the mechanisms of disease. Through a variety of learning modalities, including case-based learning, lectures, and hands-on activities, students will learn to use critical thinking and reasoning to evaluate patients, develop a sound differential diagnosis, and provide competent patient management. Health promotion and disease prevention are prioritized to improve health outcomes.*

**Patient Care**

- Develop and demonstrate patient care skills.
- Demonstrate proficient knowledge and skills of Primary Care practice.

*Students will be exposed to patients who are representative of the cultures and diversity of North Carolina. Students will also learn to care for patients of all ages. Students will be exposed to age-appropriate patient assessment, evaluation and management and acquire skills for caring for patients in a variety of settings (e.g., age spectrum, operative spectrum, ambulatory vs. acute). Patient and provider safety are emphasized throughout their training.*

**Professionalism and Cultural Sensitivity & Humility**

- Demonstrate and model professionalism and ethical behavior.
- Demonstrate respect and awareness of the impact of cultural considerations in the provision of healthcare delivery.

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Professional and ethical behavior in the classroom and clinic is demonstrated through role modeling of the faculty and staff, in lectures and workshops, and during clinical clerkships. Students will learn skills that support collaboration with patients, their families, and other health professionals, emphasizing the team approach to patient-centered care.

Interpersonal and Communication Skills

- Develop effective interpersonal and communication skills.
- Communicate effectively through telehealth modalities.

Students will be presented with learning opportunities to develop their communication skills, encompassing verbal, nonverbal and written exchanges of information, in a culturally/ethnically sensitive manner and among diverse communities of patients.

Systems-Based Practice

- Develop knowledge of healthcare delivery systems and health policy.

Students will be exposed to the current trends in health care delivery, including methods of coding and reimbursement, North Carolina healthcare systems, North Carolina PA rules and regulations, and both national and local PA organizations.

Self-Assessment and Ongoing Professional Development

- Acquire practice-based learning and life-long improvement skills.

Students will be exposed to and expected to demonstrate skills in the elements of using peer-reviewed evidence to evaluate the best practices of health care. Students will learn to search, interpret and evaluate medical literature, and apply this knowledge to individualized patient care.

COURSE APPEALS POLICY

If you feel you have been awarded an incorrect grade, please discuss with the course director. If together the issue cannot be resolved, you may pursue the formal grade appeal process based on the grounds of arithmetic/clerical error, arbitrariness, discrimination, harassment, or personal malice.

ALLIED HEALTH SCIENCES DIVERSITY POLICY

This course promotes and values mutual respect, diversity, and inclusion in the classroom. Diversity includes consideration of, for example, social backgrounds, economic circumstances, personal characteristics, philosophical outlooks, life experiences, perspectives, beliefs, expectations, and aspirations, to mention some salient factors. Learning to understand and appreciate views different from our own can create a sense of community and promote excellence in the learning environment.

ATTENDANCE POLICY

- University Policy:
  No right or privilege exists that permits a student to be absent from any class meetings, except for these University Approved Absences:

Effective 1 November 2021
1. Authorized University activities
2. Disability/religious observance/pregnancy, as required by law and approved by Accessibility Resources and Service and/or the Equal Opportunity and Compliance Office (EOC)
3. Significant health condition and/or personal/family emergency as approved by the Office of the Dean of Students, Gender Violence Service Coordinators, and/or the Equal Opportunity and Compliance Office (EOC).

**UNC-CH MHSPAS Program Policy:**
The UNC-CH MHSPAS Program works with students to meet attendance needs that do not fall within University approved absences. The UNC CH MHSPAS Program has a Clinical Phase attendance policy for situations when an absence is not University approved, to include requirements for make-up missed supervised clinical practice experiences. Any absence that is not approved by the Director of Clinical Education/Clinical Team will be considered an unexcused absence. The Director of Clinical Education/Clinical Team will notify the Clinical Site/Preceptor of any absence.

Please communicate with the Director of Clinical Education early about potential absences or being late for clinicals. Only the Director of Clinical Education can approve absences; preceptors are not allowed to approve any absence and will be considered unexcused. Please be aware that you are bound by the Honor Code when making a request for a university approved absence.

**IN-CLASS AND CLINICAL SETTING DRESS ATTIRE POLICY**
During all clinical encounters, a short white lab coat and name tag are required unless the preceptor asks that the student not wear a lab coat due to special patient populations. Student name tags MUST be always worn. Business casual dress is appropriate. No open-toed shoes are allowed.

During clinical seminar days, business casual dress is the required attire, unless otherwise specified by the Director of Clinical Education. Please refer to the UNC-CH MHSPAS Classroom and Clinical Setting Dress Policy for the detailed dress code policy.

**ACCESSIBILITY RESOURCES AND SERVICES**
The University of North Carolina at Chapel Hill facilitates the implementation of reasonable accommodations, including resources and services, for students with disabilities, chronic medical conditions, a temporary disability, or pregnancy complications resulting in barriers to fully accessing University courses, programs, and activities.

Accommodations are determined through the Office of Accessibility Resources and Service (ARS) for individuals with documented qualifying disabilities in accordance with applicable state and federal laws. See the ARS Website for contact information: https://ars.unc.edu or email ars@unc.edu.

**COUNSELING AND PSYCHOLOGICAL SERVICES**
CAPS is strongly committed to addressing the mental health needs of a diverse student body through timely access to consultation and connection to clinically appropriate services, whether for short or long-term needs. Go to their website: https://caps.unc.edu/ or visit their facilities on the third floor of the Campus Health Services building for a walk-in evaluation to learn more.

Effective 1 November 2021
TITLE IX RESOURCES
Any student who is impacted by discrimination, harassment, interpersonal (relationship) violence, sexual violence, sexual exploitation, or stalking is encouraged to seek resources on campus or in the community. Reports can be made online to the EOC at https://eoc.unc.edu/report-an-incident/. Please contact the University’s Title IX Coordinator (Elizabeth Hall, interim – titleixcoordinator@unc.edu), Report and Response Coordinators in the Equal Opportunity and Compliance Office (reportandresponse@unc.edu), Counseling and Psychological Services (confidential), or the Gender Violence Services Coordinators (gvsc@unc.edu; confidential) to discuss your specific needs. Additional resources are available at safe.unc.edu.

POLICY ON NON-DISCRIMINATION
The University is committed to providing an inclusive and welcoming environment for all members of our community and to ensuring that educational and employment decisions are based on individuals’ abilities and qualifications. Consistent with this principle and applicable laws, the University’s Policy Statement on Non-Discrimination offers access to its educational programs and activities as well as employment terms and conditions without respect to race, color, gender, national origin, age, religion, creed, genetic information, disability, veteran’s status, sexual orientation, gender identity or gender expression. Such a policy ensures that only relevant factors are considered and that equitable and consistent standards of conduct and performance are applied.

If you are experiencing harassment or discrimination, you can seek assistance and file a report through the Report and Response Coordinators (see contact info at safe.unc.edu) or the Equal Opportunity and Compliance Office, or online to the EOC at https://eoc.unc.edu/report-an-incident/.

STUDENT EXPOSURE TO INFECTIOUS AND ENVIRONMENTAL HAZARDS
The UNC-CH MHSPAS Program has created a student exposure policy with the recommendations of UNC Campus Health regarding exposure to infectious and environmental hazards during student learning activities.

PERSONAL SECURITY AND SAFETY
The UNC-CH MHSPAS Program has created a adverse event, personal security policy, and hostile intruder policy articulating the policy and procedures addressing personal security and safety of faculty, staff, and students in all locations where instruction occurs while enrolled in the program.

PROFESSIONAL BEHAVIOR
Professional behavior is an expectation and requirement of all UNC Chapel Hill MHSPAS students. Such behavior (but is not limited to): appropriate dress, arriving on time for class/clinic, demonstrating respect for lecturers and for fellow classmates, avoidance of disruptive classroom behaviors such as whispering, talking, late entry into the classroom, or engaging in non-course related computer or studying activities during class. Expectations of professional behavior also applies to social medical, online presence and online communications.

Students are expected to communicate with one another and all instructors in a professional and appropriate manner. Professional comportment is one of the most important components of preparation for and behavior within the medical profession and is taken very seriously. Unprofessionalism behavior will be referred to the UNC-CH MHSPAS Program Clinical Affairs Committee

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and/or UNC-CH MHSPAS Program Academic Excellence Committee resulting in a professionalism concern, warning, probation, and/or potentially dismissal from the program.

All UNC Chapel Hill MHSPAS students are subject to academic integrity and behavioral expectations of the University and the DAHS.

UNC-CHAPEL HILL HONOR CODE STATEMENT
As a condition of joining the Carolina community, Carolina students pledge “not to lie, cheat, or steal” and to hold themselves, as members of the Carolina community, to a high standard of academic and non-academic conduct while both on and off Carolina’s campus. This commitment to academic integrity, ethical behavior, personal responsibility, and civil discourse exemplifies the “Carolina Way,” and this commitment is codified in both the University’s Honor Code and in other University student conduct-related policies.

ACCEPTABLE USE POLICY
By enrolling as a student in this course, you agree to abide by the University of North Carolina at Chapel Hill policies related to the acceptable use of IT systems and services. You may be asked to participate in online discussions or other online activities that may include personal information about you or other students in the course. The rights and protection of other participants are protected under the UNC-Chapel Hill Information Technology Acceptable Use Policy, which covers topics related to using digital resources, such as privacy, confidentiality, and intellectual property.

Consult the University website “Safe Computing at UNC” for information about the data security policies, updates, and tips on keeping your identity, information, and devices safe.

CLINICAL PHASE POLICIES AND STUDENT RESPONSIBILITIES
All students must follow the policies and procedures that are included in the UNC Chapel Hill MHSPAS Student Handbook and located on the UNC Chapel Hill MHSPAS Homepage that are not included in this syllabus.

SYLLABUS MODIFICATIONS
The UNC-CH MHSPAS Program reserves the right to make changes to the syllabus, including project due dates and test dates. These changes will be announced as early as possible.

Appendix A

Effective 1 November 2021
# Emergency Medicine End of Rotation™
## EXAM TOPIC LIST
### CARDIOVASCULAR
- Acute/subacute bacterial endocarditis
- Angina
- Arrhythmias
- Cardiac tamponade
- Chest pain
- Conduction disorders (atrial fibrillation/flutter, supraventricular tachycardia, bundle branch block, ventricular tachycardia/fibrillation, premature beats)
- Coronary heart disease (non-ST acute myocardial infarction, ST segment elevation acute myocardial infarction, angina pectoris, unstable angina, Prinzmetal/variant angina)
- Dyspnea on exertion
- Edema
- Heart failure
- Hypertensive emergencies
- Hypotension (cardiogenic shock, orthostatic hypotension)
- Orthopnea
- Palpitations
- Pericardial effusion
- Peripheral vascular disease
- Syncope
- Valvular disease (aortic stenosis, aortic regurgitation, mitral stenosis, mitral regurgitation)
- Vascular disease (aortic aneurysm/dissection, arterial occlusion/thrombosis, phlebitis)

### ORTHOPEDICS/RHEUMATOLOGY
- Back strain/sprain
- Bursitis/tendonitis
- Cauda equina
- Costochondritis
- Ecchymosis/erythema
- Fractures/dislocations (shoulder, forearm/wrist/hand, hip, knee, ankle/foot)
- Gout
- Hemiated disk
- Low back pain
- Osteomyelitis
- Pain
- Septic arthritis
- Soft tissue injuries
- Sprains/strains
- Swelling/deformity

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### GASTROINTESTINAL/NUTRITIONAL

| Abdominal pain | Giardiasis and other parasitic infections |
| Acute appendicitis | Heartburn |
| Acute cholecystitis | Hematemesis |
| Acute hepatitis | Hemorrhoids (thrombosed) |
| Acute pancreatitis | Hernia (incarcerated/strangulated) |
| Anal fissure/fistula/abscess | Infectious diarrhea |
| Anorexia | Inflammatory bowel disease/toxic megacolon |
| Change in bowel habits/diarrhea/constipation | Ischemic bowel disease |
| Cholangitis | Jaundice |
| Cirrhosis | Mallory-Weiss tear |
| Diarrhea/constipation | Melena; bleeding per rectum |
| Diverticular disease | Nausea/vomiting |
| Esophagitis | Obstruction (small bowel, large bowel, volvulus) |
| Gastritis | Peptic ulcer disease |
| Gastroenteritis | |
| Gastrointestinal bleeding | |

### PULMONOLOGY

| Acute bronchiolitis | Pleural effusion |
| Acute bronchitis | Pleuritic chest pain |
| Acute epiglottitis | Pneumonia (bacterial, viral, fungal, human immunodeficiency virus-related) |
| Acute respiratory distress syndrome | Pneumothorax |
| Asthma | Respiratory syncytial virus |
| Croup | Shortness of breath |
| Foreign body aspiration | Tuberculosis |
| Hemoptysis | Wheezing |
| Influenza | |
| Lung cancer | |
| Pertussis | |
### NEUROLOGY

<table>
<thead>
<tr>
<th>Condition</th>
<th>Condition</th>
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</thead>
<tbody>
<tr>
<td>Altered level of consciousness/coma</td>
<td>Numbness/paresthesia</td>
</tr>
<tr>
<td>Bell palsy</td>
<td>Seizure (symptom)</td>
</tr>
<tr>
<td>Encephalitis</td>
<td>Seizure disorders</td>
</tr>
<tr>
<td>Epidural/subdural hematoma</td>
<td>Spinal cord injury</td>
</tr>
<tr>
<td>Guillain-Barré syndrome</td>
<td>Status epilepticus</td>
</tr>
<tr>
<td>Head trauma/concussion/contusion</td>
<td>Stroke</td>
</tr>
<tr>
<td>Headache (migraine, cluster, tension)</td>
<td>Subarachnoid hemorrhage/cerebral aneurysm</td>
</tr>
<tr>
<td>Intracerebral hemorrhage</td>
<td>Syncope</td>
</tr>
<tr>
<td>Loss of consciousness/change in mental status</td>
<td>Transient ischemic attack</td>
</tr>
<tr>
<td>Loss of coordination/ataxia</td>
<td>Vertigo</td>
</tr>
<tr>
<td>Loss of memory</td>
<td>Weakness/paralysis</td>
</tr>
<tr>
<td>Meningitis</td>
<td></td>
</tr>
</tbody>
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### ENOT/OPHTHALMOLOGY

<table>
<thead>
<tr>
<th>Condition</th>
<th>Condition</th>
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<tbody>
<tr>
<td>Acute laryngitis</td>
<td>Hyphema</td>
</tr>
<tr>
<td>Acute otitis media</td>
<td>Labyrinthitis</td>
</tr>
<tr>
<td>Acute pharyngitis (viral, bacterial)</td>
<td>Macular degeneration (wet)</td>
</tr>
<tr>
<td>Acute sinusitis</td>
<td>Mastoiditis</td>
</tr>
<tr>
<td>Allergic rhinitis</td>
<td>Nasal congestion</td>
</tr>
<tr>
<td>Barotrauma</td>
<td>Optic neuritis</td>
</tr>
<tr>
<td>Blepharitis</td>
<td>Orbital cellulitis</td>
</tr>
<tr>
<td>Blow-out fracture</td>
<td>Otitis externa</td>
</tr>
<tr>
<td>Conjunctivitis</td>
<td>Papilledema</td>
</tr>
<tr>
<td>Corneal abrasion/ulcer</td>
<td>Peritonsillar abscess</td>
</tr>
<tr>
<td>Dacryoadenitis</td>
<td>Retinal detachment</td>
</tr>
<tr>
<td>Dental abscess</td>
<td>Retinal vein occlusion</td>
</tr>
<tr>
<td>Ear pain</td>
<td>Sore throat</td>
</tr>
<tr>
<td>Epiglottitis</td>
<td>Trauma/hematoma (external ear)</td>
</tr>
<tr>
<td>Epistaxis</td>
<td>Tympanic membrane perforation</td>
</tr>
<tr>
<td>Foreign body (eye, ear, nose)</td>
<td>Vertigo</td>
</tr>
<tr>
<td>Glaucoma (acute angle closure)</td>
<td>Vision loss</td>
</tr>
</tbody>
</table>

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### UROLOGY/RENAL

- Acid/base disorders
- Acute renal failure
- Cystitis
- Dysuria
- Epididymitis
- Fluid and electrolyte disorders
- Glomerulonephritis
- Hematuria
- Hernias
- Incontinence
- Nephrolithiasis
- Orchitis
- Prostatitis
- Pyelonephritis
- Suprapubic/flank pain
- Testicular torsion
- Urethral torsion

### DERMATOLOGY

- Bullous pemphigoid
- Burns
- Cellulitis
- Dermatitis (eczema, contact)
- Discharge
- Drug eruptions
- Erysipelas
- Herpes zoster
- Impetigo
- Itching
- Lice
- Pilonidal disease
- Pressure sores
- Rash
- Scabies
- Spider bites
- Stevens-Johnson syndrome
- Toxic epidermal necrolysis
- Urticaria
- Viral exanthems

### ENDOCRINOLOGY

- Adrenal insufficiency
- Cushing disease
- Diabetes insipidus
- Diabetes mellitus
- Diabetic ketoacidosis
- Heat/cold intolerance
- Hyperparathyroidism
- Hyperthyroidism
- Hypothyroidism
- Nonketotic hyperglycemia
- Palpitations
- Thyroiditis
- Tremors
### OBSTETRICS/GYNECOLOGY

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<th>Condition</th>
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<td>Pelvic inflammatory disease</td>
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<tr>
<td>Dysfunctional uterine bleeding</td>
<td>Pelvic pain/dysmenorrhea</td>
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<tr>
<td>Ectopic pregnancy</td>
<td>Placenta abruption</td>
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<tr>
<td>Endometriosis</td>
<td>Placenta previa</td>
</tr>
<tr>
<td>Fetal distress</td>
<td>Premature rupture of membranes</td>
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<tr>
<td>Intrauterine pregnancy</td>
<td>Spontaneous abortion</td>
</tr>
<tr>
<td>Mastitis/breast abscess</td>
<td>Vaginal discharge</td>
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<tr>
<td>Ovarian cysts</td>
<td>Vaginitis</td>
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### PSYCHIATRY/BEHAVIORAL MEDICINE

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<td>Bipolar and related disorders</td>
<td>Spouse or partner neglect/violence</td>
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<tr>
<td>Depressive disorders</td>
<td>Substance use disorders</td>
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<td>Neurocognitive disorders</td>
<td>Suicide</td>
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<td>Panic disorder</td>
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<tr>
<td>Posttraumatic stress disorder</td>
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### HEMATOLOGY

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<td>Acute leukemia</td>
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<tr>
<td>Anemia</td>
<td>Hypercoagulable states</td>
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<tr>
<td>Aplastic anemia</td>
<td>Lymphomas</td>
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<tr>
<td>Clotting factor disorders</td>
<td>Polycythemia</td>
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<td>Easy bruising</td>
<td>Sickle cell anemia/crisis</td>
</tr>
<tr>
<td>Fatigue</td>
<td>Thrombocytopenia</td>
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### Appendix B

**Emergency Medicine End of Rotation™ Exam Blueprint**

<table>
<thead>
<tr>
<th>Emergency Medicine 100-Question Exam</th>
<th>History &amp; Physical</th>
<th>Diagnostic Studies</th>
<th>Diagnosis</th>
<th>Health Maintenance</th>
<th>Clinical Intervention</th>
<th>Clinical Therapeutics</th>
<th>Scientific Concepts</th>
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**Totals:**  (100%)  15  10  25  10  10  20  10  100

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