

College of Health Sciences
Master of Science in Medicine - Physician Assistant

Learning Outcome: #1 Gather a history and perform a physical examination.

Outcome Measure: Students will demonstrate competency in eliciting a history from a patient and performing the relevant physical examination.

Criteria for Success (how do you judge if the students have met your standards): Beginning in the spring semester students are assessed on their History & Physical examination skills through a patient centered OSCE occurring as part of the final examination at the conclusion of twelve (12) organ system courses. 100% of students will demonstrate competency in these areas over the course of the curriculum, as assessed by their preceptor and culminating in MSM 6800 Capstone.

Contributing courses: MSM 6100 Fundamentals of Hematology and Oncology
MSM 6101 Fundamentals of Dermatology
MSM 6102 Fundamentals of Infectious Disease
MSM 6103 Fundamentals of Cardiovascular Disease
MSM 6104 Fundamentals of Pulmonology
MSM 6105 Fundamentals of Gastroenterology
MSM 6106 Fundamentals of Nephrology and Genitourinary Disease
MSM 6107 Fundamentals of Neurology
MSM 6107 Fundamentals of Endocrinology
MSM 6109 Fundamentals of Rheumatology and Orthopedics
MSM 6300 Foundations in Psychiatry
MSM 6301 Foundations in Pediatrics
MSM 6302 Foundations in Women's Health
MSM 6303 Foundations in Emergency Medicine
MSM 6304 Foundations in Surgery

Signature Assignment: MSM 6800 Capstone

Longitudinal Data:

Graduating Class	History Gathering	Physical Examination
Fall 2023 (n= 28)	100%	100%

Conclusions Drawn from Data: Assessment of this PLO across the curriculum indicates adequate opportunities to achieve competency with sufficient evaluations to ensure students at risk are identified in a timely manner.

Changes to be Made Based on Data: No changes at this time.

College of Health Sciences
Department of Physician Assistant Education

Learning Outcome: PLO #2 Prioritize a differential diagnosis following a clinical encounter

Criteria for Success (how do you judge if the students have met your standards): 90% of students will demonstrate competency in compiling and prioritizing comprehensive differential diagnoses as presented in preceptor evaluations and in their final summative assessment.

Contributing courses: MSM 6100 Fundamentals of Hematology and Oncology
MSM 6101 Fundamentals of Dermatology
MSM 6102 Fundamentals of Infectious Disease
MSM 6103 Fundamentals of Cardiovascular Disease
MSM 6104 Fundamentals of Pulmonology
MSM 6105 Fundamentals of Gastroenterology
MSM 6106 Fundamentals of Nephrology and Genitourinary Disease
MSM 6106 Fundamentals of Neurology
MSM 6107 Fundamentals of Endocrinology

Signature Course: MSM 6800 Capstone

Assignments: clinical preceptor evaluations; final summative evaluation in capstone

Longitudinal Data:

	Preceptor Evaluation	MSM 6800
Fall 2023 (n=28)	100%	100%

Conclusions Drawn from Data: Preceptors are consistent in their evaluation of the students knowledge and clinical reasoning which in turn are consistent with the program's final, summative evaluation of the students' competency

Changes to be Made Based on Data: None at present but we will continue to monitor preceptor evaluations and ensure a robust, final summative evaluation instrument.

Rubric Used: preceptor evaluation submissions (internal)

Department of Physician Assistant Education
Name of Assessment Doc

Learning Outcome: PLO #3 Recommend and interpret common diagnostic and screening tests

Outcome Measure: ≥95% of students will achieve competency as rated by clinical phase preceptors and by MSM 6800 Capstone

Criteria for Success (how do you judge if the students have met your standards):
MSM 6800 Capstone

Longitudinal Data: (here is where you have a table that you add to every year)

	Preceptor Evaluations	Capstone examination
Class of 2023	100%	100% competent (67% @ advanced performance level)
Class of 2024	pending	

Conclusions Drawn from Data: students familiarity with common diagnostic and screening tests varied by organ system varies by organ system and setting.

Changes to be Made Based on Data: Increased emphasis on inpatient diagnostic and screening tests will be provided to students.

Rubric Used: Preceptor evaluation of students' knowledge of diagnostic and screening tests and the PAEA End of Curriculum examination content covering "diagnostics studies."

Physician Assistant Education Department
Name of Assessment Doc: PLO Data for MSM-PA

Learning Outcome: PLO # 4 Enter and Discuss orders and prescriptions

Outcome Measure: By the conclusion of the program 100% of students will demonstrate competency in their ability to enter orders into the electronic medical record including prescriptions and discuss their clinical reasoning for said orders.

Criteria for Success: These skills are a component of multiple courses across the four-semester didactic portion of the curriculum. In addition, these skills are a component of the End of Didactic examination passage of which is necessary to progress to the clinical phase. Finally, this PLO is a portion of every preceptor evaluation completed over the course of the clinical phase.

Longitudinal Data: (here is where you have a table that you add to every year)

	End of Didactic Exam	Preceptor Eval
Class of 2023	96%	100%
Class of 2024	100%	pending

Conclusions Drawn from Data: The current curriculum provides adequate instruction and opportunity for students to apply instruction within the didactic phase and demonstrate competency in the clinical environment.

Changes to be Made Based on Data: Although students have multiple opportunities to practice these skills, the current model provides limited graded evaluations before the students are in the clinics and hospitals. Going forward there will be one or more graded evaluations prior to the end of the didactic phase.

Physician Assistant Education Department
Name of Assessment Doc: PLO Data for MSM-PA

Learning Outcome # 5 : Document a clinical encounter in the patient record

Outcome Measure: Students will demonstrate the ability to accurately and succinctly document patient encounters in the medical record as evaluated by clinical preceptors in their final two clinical clerkships and as a component of the Capstone evaluation.

Students complete “mock” clinical encounters biweekly in the didactic phase of the program which comprise part of their course grade. In addition, their “write ups” are evaluated by their clinical preceptors over the course of their clinical year and finally as part of their capstone summative evaluation.

Longitudinal Data:

	Preceptor Evaluation	Summative Eval
Class of 2023 (n =28)	100%	100%

Conclusions Drawn from Data: Students are required to complete a minimum of 20 patient encounter records prior to entering the clinical phase and nearly 1000 documented encounters in the clinical phase. The evaluations by faculty and preceptors suggest that this current schedule and system is resulting in excellent preparation for the legal documentation required of practitioners.

Changes to be Made Based on Data: None at this time.

College of Health Sciences
Master of Science in Medicine - Physician Assistant

Learning Outcome: PLO #6 Provide an oral presentation of a clinical encounter

Outcome Measure: 100% of students will demonstrate the ability to deliver an oral presentation of a clinical encounter to their clinical preceptors

Criteria for Success: Students receive instruction over the course of the didactic phase in the format and content of a comprehensive oral presentation of a patient to a preceptor. Mid-curriculum evaluation now takes place in MSM 6304 Foundations in Surgery and final assessment takes place in the final clinical rotations.

Longitudinal Data:

	MSM 6304 Surgery	Final Preceptor Eval
Class of 2023	Not tested	100% competent or proficient
Class of 2024	75% competent or proficient	Mid-year 100% scored competent or proficient

Conclusions Drawn from Data: Inaugural cohort afforded multiple opportunities to practice patient encounter presentations but were not formally evaluated until their clinical rotations. Recognizing that gap, a formal evaluation of each student was incorporated into their didactic surgery course (MSM 6304 Surgery) prior to entering the clinical phase.

Changes to be Made Based on Data: continue with initial evaluation during MSM 6304 and final evaluations in the clinical phase.

College of Health Sciences
Master of Science in Medicine - Physician Assistant

Learning Outcome: PLO # 7 Form clinical questions and retrieve evidence to advance patient care

Outcome Measure: 80% of students will demonstrate proficiency in evaluating medical evidence to address patient care

Criteria for Success (how do you judge if the students have met your standards): Initial instruction in evidence-based medicine, the evaluation of medical studies and their relevance to patient care is provided in MSM 6004 Medicine and Society I (competency = final score $\geq 90\%$). Ongoing assessment occurs over the course of the didactic semesters with final evaluation in MSM 6600 Service Elective.

Longitudinal Data: (here is where you have a table that you add to every year)

	MSM6004 Medicine & Society I	MSM 6600 Service Elective
Class of 2023	100%	78.6%
Class of 2024	100%	Pending – available 12/2024
Class of 2025	100%	Pending – available 12/2025

Conclusions Drawn from Data: instruction in the first semester of the program appears to be adequate, however, implementation of the EBM principles in the clinical environment are below the expected level.

Changes to be Made Based on Data: terminal assignment in MSM6600 has been modified to provide clearer instructions related to the retrieval and use of specific, up to date evidence impacting care of the student's patients.

Physician Assistant Education Department
Name of Assessment Doc: PLO Data for MSM-PA

Learning Outcome: PLO #8 Give or receive a patient handover to transition care responsibly.

Outcome Measure: By the conclusion of the program, 100% students will demonstrate competency in the ability to transition care from one provider to another.

Criteria for Success: 100% of students will demonstrate appropriate use of SBAR or I-PASS to ensure responsible patient care transfer in a simulated environment.

Students receive instruction in the I-PASS structured handover process, practice it over the course of the didactic phase and are assessed in their final OSCE for MSM 6303 Emergency Medicine and again within the preceptor evaluations during the clinical phase

Longitudinal Data:	EM OSCE evaluation	Preceptor Evaluation
Class of 2023	80%	100%
Class of 2024	75%	pending

Conclusions Drawn from Data: Sufficient instruction and opportunity to practice and utilize this skill during the clinical phase to ensure competency prior to graduation.

Changes to be Made Based on Data: increase practice opportunities prior to the initial OSCE evaluation in MSM 6303.

Rubric Used: National Library of Medicine: Standard Handover Technique to Transfer Care

Physician Assistant Education Department
PLO Data for MSM-PA

Learning Outcome: PLO #9 Collaborate as a member of an interprofessional team

Outcome Measure: After instruction and simulation activities designed to promote interprofessional education, preceptor evaluations of interprofessional team participation over the course of the clinical year on “Collegiality and Interprofessional Teamwork” are reviewed.

Criteria for Success (how do you judge if the students have met your standards): >80% of preceptor evaluations judge the students to be Proficient by the close of the clinical phase.

Longitudinal Data:

Graduating Class	Proficient	Unacceptable
2023	100%	0%

Conclusions Drawn from Data: current instruction, simulations and evaluation of application are producing the desired results. Students participated in a combined IPE event with UCSD pharm students, and USD NP students in their first year, As the CHS increases its IPE activities, students will have additional opportunities to experience teams of varied professionals with whom they will work.

Changes to be Made Based on Data: none at this time

Rubric Used:

Preceptorship Clinical Clerkship Evaluation

Collegiality and Interprofessional teamwork	Does not contribute to team; fails to understand role of team members; self-centered in approach to work; avoids work; does not complete tasks	Readily assumes responsibility; works well with team; does their share
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College of Health Sciences
Master of Science in Medicine - Physician Assistant

Learning Outcome: PLO # 10 Recognize a patient requiring urgent or emergent care and initiate evaluation and management.

Outcome Measure: Students will recognize a patient requiring urgent or emergency care and initiate evaluation and management as demonstrated in the final OSCE evaluation of MSM 6303 Foundations In Emergency Medicine and in Preceptor evaluations for MSM 6506 Clinical Emergency Medicine.

Criteria for Success (how do you judge if the students have met your standards): Prior to graduation 100% of PA students will demonstrate competency in the recognition and initiation of treatment for patients requiring emergency intervention.

Longitudinal Data: (here is where you have a table that you add to every year)

	MSM 6303 EM	MSM 6506 EM
Class of 2023	76%	100%
Class of 2024	100%	In process

Conclusions Drawn from Data: Instruction and assessment of students in the didactic phase of the program was revised and strengthened in the class of 2024 resulting in a significant increase in the course final. Results from their clinical rotations are still pending.

Changes to be Made Based on Data: Based on the preceptor assessments of the CO 2024 didactic phase instruction will be modified as appropriate.

Rubric Used

College of Health Sciences
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Learning Outcome: PLO #11 Obtain informed consent for test and/or procedures

Outcome Measure: Students will receive rating of competent or proficient on preceptor evaluations under the section "Obtains informed consent for diagnostic tests or procedures providing comprehensive information to the family and/or patient in a clear, concise and compassionate manner" in MSM 6504 Clinical Surgery, MSM 6502 Clinical Pediatrics, MSM 6503 Clinical Women's Health and MSM 6506 Clinical Emergency Medicine.

Criteria for Success: 90% of students will demonstrate proficiency in obtaining informed consent by educating patients on the risk and benefits of common clinical procedures as evaluated by their clinical preceptor

Longitudinal Data:	Preceptor evaluation
Class of 2023	100% received one or more ratings of competent or proficient
Class of 2024	61% of students have completed one or more evaluations with 95% of them rated as competent or proficient;

Conclusions Drawn from Data: instruction in obtaining informed consent over the course of the didactic phase appears to be adequate as judged by the students' performance in the clinical phase of the curriculum.

Changes to be Made Based on Data: none at this time; when the current cohort completes their rotations the data will be reviewed again to assess trends or areas of deficiency within clinical disciplines.

Rubric Used: preceptor evaluation

Physician Assistant Education Department
Name of Assessment Doc: PLO Data for MSM-PA

Learning Outcome: PLO #12 Perform general procedures of a physician assistant.

Outcome Measure: Students will demonstrate competency in performing the general procedures common to physician assistants as defined within course syllabi. Students undergo multiple assessments of the various procedural skills defined in their didactic syllabi with a final assessment as part of their capstone course.

Criteria for Success (how do you judge if the students have met your standards): 93% of students will demonstrate competency in pre-defined procedures prior by the completion of their clinical rotations.

Longitudinal Data: (here is where you have a table that you add to every year)

Cohort	Fac Eval	Preceptor Evaluation
Class of 2023	100%	100%

Conclusions Drawn from Data: current system provides appropriate instruction and opportunities to demonstrate competency prior to graduation.

Changes to be Made Based on Data: some procedures initially listed as requiring competency to be demonstrated have been found to be insufficiently utilized in the clinical setting and, while still taught, will no longer be assessed.

Rubric Used: Internal Rubric based on *Essential Clinical Procedures, Dehn R and Asprey D*