

Supplementary File 1: R-OSCE stations and corresponding CTSA core competencies.

Station	Practice OSCE Stations	Post-Program OSCE Stations	CTSA Core Thematic Areas and Competencies
	Influenza Vaccine	Underutilization of Implantable Cardioverter-Defibrillators in Older Patients	
1	<ul style="list-style-type: none"> Describe one potential concern about the study design that the colleague might have identified. Using the Belmont Principles as a guide describe two approaches that could be used to foster equitable engagement of communities in health research. 	<ul style="list-style-type: none"> Consider the hypotheses listed related to low level of treatment. Choose one and write a clinical question to test the hypothesis. Propose a study design to address the clinical research question. Based on the data presented, which variables made it less likely that an eligible patient would receive treatment? Recommend one equitable research strategy/practice that could help recruit and retain participants in future clinical trials. 	<p>III. Study Design</p> <ul style="list-style-type: none"> Assess the strengths and weaknesses of possible study designs for a given clinical or translational research question Propose study designs for addressing a clinical or translational research question Define the data that formulate research hypotheses <p>XIV. Community Engagement</p> <ul style="list-style-type: none"> Analyze the ethical complexities of conducting community-engaged research
	Cervical Cancer Screening	Fall Prevention in Older Adults	
2	<ul style="list-style-type: none"> Write a translational research question that could identify a method to increase participation of women in screening. List two strategies to increase participation of women at high risk for cervical cancer in cervical cancer screening. 	<ul style="list-style-type: none"> Write one translational research question to identify a method to increase implementation of fall-prevention interventions into health professions practices. List two strategies to inform health care professionals about the importance of incorporating prevention interventions into their practices 	<p>I. Clinical & Translational Research Questions</p> <ul style="list-style-type: none"> Derive translational questions from clinical research data <p>IX. Scientific Communication</p> <ul style="list-style-type: none"> Translate the implications of clinical and translational research findings for clinical practice, advocacy, and governmental groups
	Lung Disease and Alpha-1 Antitrypsin Deficiency	Potential New Anti-Amyloid Therapy for Alzheimer's Disease	
3	<ul style="list-style-type: none"> Write two translational research questions that 	<ul style="list-style-type: none"> Write two translational research questions that 	<p>I. Clinical & Translational Research Questions</p>

	<p>could be developed based on the clinical and basic science findings presented.</p> <ul style="list-style-type: none"> For one of the translational research questions, describe the composition of a translational research team that you would assemble to address the question. 	<p>would clarify the potential of treatment based on the findings presented.</p> <ul style="list-style-type: none"> For one of the translational research questions, describe the composition of a translational research team that you would assemble to address the question. 	<ul style="list-style-type: none"> Derive translational questions from clinical research data <p>XI. Translational Teamwork</p> <ul style="list-style-type: none"> Build a multidisciplinary team that matches the objectives of the research problem
	Responsible Conduct of Research Authorship	Responsible Conduct of Research Questionable Research Practices	
4	<ul style="list-style-type: none"> Critique the study team member's approach in bringing his concern to his mentor. Describe two changes that would increase the likelihood of getting the mentor to reconsider his response. Critique the study team member's approach. Compare this to the approach used earlier. Discuss whether he was successful in getting the mentor to change his response. 	<ul style="list-style-type: none"> Describe the responsibility the study team member has in responding to this issue. Recommend two approaches to address the issue. Critique the study team member's discussion with the principal investigator (PI). Compare this approach to the one used earlier and discuss whether going to the institutional review board (IRB) would help 	<p>VIII. Clinical Research Interactions – Responsible Conduct of Research</p> <ul style="list-style-type: none"> Outline criteria for determination of authorship. Describe the authority for and professional standards for the responsible conduct of research <p>XI. Translational Teamwork</p> <ul style="list-style-type: none"> Manage Conflict
	Informed Consent – Video Critique	Informed Consent – Video Critique	
5	<ul style="list-style-type: none"> Critique the researcher's overall performance. Do you believe informed consent was obtained in an ethical manner? Provide a brief rationale for your response. Use specific examples from the video to support your answer. 	<ul style="list-style-type: none"> Critique the researcher's overall performance. Do you believe informed consent was obtained in an ethical manner? Provide a brief rationale for your response. Use specific examples from the video to support your answer 	<p>VIII. Clinical research Interactions – Regulatory Support and Knowledge</p> <ul style="list-style-type: none"> Describe the essential elements of voluntary informed consent
	N/A	Lung Cancer Screening Recommendations	
6		<ul style="list-style-type: none"> Write two clinical research questions to address concerns about 	<p>I. Clinical & Translational Research Questions</p> <ul style="list-style-type: none"> Formulate a well-defined clinical or

		<p>the restrictive scope of screening guidelines.</p> <ul style="list-style-type: none"> Propose a study design to address one of the research questions you suggested. 	<p>translational research question to be studied in human or animal models.</p> <p>III. Study Design Propose study designs for addressing a clinical or translational research question.</p>
	N/A	DNA Markers in Head and Neck Cancer	
7		<ul style="list-style-type: none"> Describe two ways the study findings could be used to improve health outcomes. Write a clinical research question that could be the next step in conducting cancer research. 	<p>IX. Scientific Communication</p> <ul style="list-style-type: none"> Translate implications of clinical and translational research findings for clinical practice <p>I. Clinical & Translational Research Questions</p> <ul style="list-style-type: none"> Derive translational questions from clinical research data

*Note: Station numbers are arbitrary and do not reflect the order in which stations were administered