MD/PhD Clinical & Translational Research Clerkship Overview

	Major Goals	Educational methods
I Knowledge (content)	Learn how subjects are recruited for clinical research studies	Hands on experience with an experienced clinical/translational researcher in a disease-specific clinical setting (outpatient clinic, hospital); didactic experience with CTRC study coordinator staff
	Learn how research questions are translated into protocols, including standard elements of human subjects research protocols (background, preliminary data, experimental design, methods, data analysis and sample size, human subjects issues)	Hands on experience with an experienced researcher in a disease-specific setting; follow patients as they are admitted to clinical research protocols on the CTRC.
	Learn how an Institutional Review Board functions	Attend at least one meeting each of the OHSU IRB .
	Learn how a scientific review board functions, and learn how to critically review clinical/translational protocols	Critically review submitted protocols for the OCTRI Scientific Review Committee, (SRC) and attend at least one SRC meeting.
	Understand ethical considerations in human based research	Hands on experience with principal investigators and clinical research assistants in the CTRC, IRB attendance
	Understand informed consent in the research setting	Hands on experience with principal investigators and clinical research assistants in the CTRC; practice obtaining informed consent.
	Understand the function of a data safety monitoring board.	Hands on experience with principal investigators and OCTRI regulatory specialists.
II Practice Skills	Perform histories and physical examinations for subjects entered in studies	Hands on experience under the mentorship of an experienced researcher in a disease-specific setting; broad experience with a variety of research subjects admitted to CTRC units.

	Improve communication skills for the purpose of explaining a research protocol to a subject – informed consent	Observe and participate in obtaining informed consent.
	Understand how to develop a clinical research protocol.	Structured readings on the elements of clinical research protocols, with examples of active CTRC protocols.
	Understand different study design options as to their feasibility, efficiency, and ability to derive unbiased inference. Use descriptive and inferential statistics appropriate for the study design	Structured readings on clinical research study design and statistics.
III Technical Skills	Learn to make physical measurements specific to clinical research studies, including cognitive and behavioral variables.	Hands on experience with a variety of clinical research protocols, under the supervision of investigators and CTRC professional staff.
	Measure nutritional and metabolic variables	Spend time with the CTRC Body Energy and Composition Core.
IV Attitudes, values and habits.	Understand the interactions among members of a clinical research team and how the team functions as a unit. Learn to work effectively in a multidisciplinary team	Hands on experience with clinical research team.
	Understand the principals of clinical equipoise with respect to clinical research trials.	
	Understand the processes of human research subject protection. Identify, evaluate and minimize risk to research subjects in a clinical and translational research project	
V Lifelong learning skills	Self-directed learning in developing clinical and translational research projects.	
	Learn to evaluate the literature of clinical and translational research	