

## **PT 584: Evidence in Practice**

**PT 584: Evidence in Practice - Spring 2022**  
**Lecture/Discussion** Mondays 8:00 to 10:00; Tuesday, April 26<sup>th</sup>, 1-3 pm

### **COURSE DESCRIPTION:**

Application of qualitative and quantitative research designs. Interpretation of statistical tests used in evidence-based medicine. A critical review of current articles related to diagnosis, prognosis, therapy, harm, cost, systematic reviews, meta-analysis, and clinical practice guidelines. Application of evidence to physical therapy practice.

**CAPTE STANDARDS & ELEMENTS:** *Standard 7: Elements 7B, and 7D*

### **DEPARTMENT OFFERING THE COURSE AND INSTRUCTOR(S):**

Physical Therapy

### **CREDIT HOURS:**

Two (2) credit hours

### **INSTRUCTOR(S):**

- Mohamed Elhamadany, PT, MS, DPT, Ph.D., PCS  
Office: 701-777-3689; Email: [mohamed.elhamadany@und.edu](mailto:mohamed.elhamadany@und.edu)
- Cindy Flom-Meland, PT, MPT, Ph.D., NCS  
Office: 701-777-4130; Email: [cindy.flom.meland@und.edu](mailto:cindy.flom.meland@und.edu)

### **CLOCK HOURS:**

Mondays, 8:00 am – 10:00 am

### **COURSE PREREQUISITES:**

Registered in Professional Physical Therapy Curriculum.

### **CURRICULUM PRACTICE MODEL:**

This course contributes to the UND PT Curriculum Practice Model in the areas of the critical inquiry and skills necessary to critically appraise research designs and research findings related to physical therapy practice.

### **COURSE OBJECTIVES:**

Upon completion of the course, the student will be able to:

- Discuss the components of a research appraisal from the perspectives of research design, critical appraisal, and clinical decision making
- Assess the validity of individual articles, systematic reviews, and meta-analyses
- Appraise studies with alternative designs
- Appraise diagnostic research studies
- Appraise prognostic research studies
- Critically appraise the applicability and quality of intervention research studies
- Appraise research studies of systematic reviews
- Appraise clinical practice guidelines (CPG)
- Formulating own clinical questions and searching for research evidence.
- Conduct and document a focused search of the literature to answer a specific clinical question.
- Communicate evidence for best practice

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### GRADING:

Grades will be determined by participation in group discussions, from TBL applications and any examinations or quizzes given in the course.

**GRADING SCALE:** A (90 – 100), B (80 – 89.9), C (76 – 79.9)

### ATTENDANCE:

Class attendance is expected 100% of the time. Students must first attempt to notify the instructor by phone or in person for any absences. The student must also contact the instructor directly through e-mail or written documentation for any absences.

### Make Up Work/Examinations:

Arrangements for make-up examinations must be made **by the student within three days** of the student's return to classes **for all absences**. **Students may be assigned additional coursework for all absences**. Students will not be allowed to make-up in-class quizzes/projects due to an absence.

### ACADEMIC INTEGRITY:

In accordance with the rules concerning scholastic dishonesty in the *Code of Student Life\** at the University of North Dakota, I affirm that I understand these rules and I agree to comply with them.

I will not:

- a. receive any additional information or assistance for any exam other than what was provided during class or approved tutor sessions
- b. copy from another student's test
- a. collaborate with or seek aid from another student who may have previously taken the exam
- b. knowingly use, buy, sell, steal, or solicit in whole or in part the contents of any exam
- c. bribe another person to obtain information about any exam

### DISABILITY ACCESS STATEMENT:

Contact me, FACULTY (office 777-3689, email [mohamed.elhamadany@med.und.edu](mailto:mohamed.elhamadany@med.und.edu), or visit Rm E-34X UND SMHS) to request disability accommodations, discuss medical information, or plan for an emergency evacuation. To get confidential guidance and support for disability accommodation requests, students are expected to register with DSS at [www.UND.edu/disability-services/](http://www.UND.edu/disability-services/), 180 McCannel Hall, or 701.777.3425.

**NOTICE OF NONDISCRIMINATION:** It is the policy of the University of North Dakota that no person shall be discriminated against because of race, religion, age, color, gender, disability, national origin, creed, sexual orientation, gender identity, genetic information, marital status, veteran's status, or political belief or affiliation and the equal opportunity and access to facilities shall be available to all. Concerns regarding Title IX, Title VI, Title VII, ADA, and Section 504 may be addressed to Donna Smith, Director of Equal Employment Opportunity/Affirmative Action and Title IX Coordinator, 401 Twamley Hall, 701.777.420181, [und.affirmativeactionoffice@UND.edu](mailto:und.affirmativeactionoffice@UND.edu) or the Office for Civil Rights, U.S. Dept. of Education, 500 West Madison, Suite 1475, Chicago, IL 60611 or any other federal agency.

**REPORTING SEXUAL VIOLENCE:** If you or a friend has experienced sexual violence, such as sexual assault, domestic violence, dating violence or stalking, or sex-based harassment, please contact UND's

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Title IX Coordinator, Donna Smith, for assistance: 701.777.420181; [donna.smith@UND.edu](mailto:donna.smith@UND.edu) or go to [UND.edu/affirmative-action/title-ix](https://UND.edu/affirmative-action/title-ix).

**FACULTY REPORTING OBLIGATIONS REGARDING SEXUAL VIOLENCE:** It is important for students to understand that faculty are required to share with UND's Title IX Coordinator any incidents of sexual violence they become aware of, even if those incidents occurred in the past or are disclosed as part of a class assignment. This does not mean an investigation will occur if the student does not want that, but it does allow UND to provide resources to help the student continue to be successful at UND. If you have been the victim of sexual violence, you can find information about confidential support services at [UND.edu/affirmative-action/title-ix](https://UND.edu/affirmative-action/title-ix).

**OMBUDS OFFICE:** "It is not our differences that divide us. It is our inability to recognize, accept, and celebrate those differences" (Audre Lorde). Before your differences with others become difficult and costly conflicts or formal grievances, in both seen and unseen ways, talk with the Ombuds Office in an informal, identity-protecting, impartial, and independent space. 314 Cambridge St Room 201. 701.777.6239. [www.UND.edu/ombuds](http://www.UND.edu/ombuds).

**UND CARES RESPONSE TEAM:** The [UND Cares Response Team](#) is available to assist with incidents involving UND students 24 hours a day, seven days a week. They respond to incidents such as major accidents, missing students, sickness that interferes with attending classes, death, suicidal ideations, situations involving self-harm, psychological trauma and sexual violence. Contact directly at 701.777.2664 during regular business hours OR 701.777.3491 after hours.

***If problems occur, students are required to work through channels of communication to resolve the problem before going to the chair or dean. The channel is student, instructor, chair, associate dean health sciences, and dean.*** rev 2/06, 5/06, 5/07, 4/08, 5/09, 5/10, 5/11, 8/13, 8/14, 8/15, 8/16, 11/18

### **COVID-19 SPECIAL STATEMENT:**

All members of the University community have a role in creating and maintaining a COVID-19 resilient campus. There are several expectations from the School of Medicine and Health Sciences that require compliance, including: Wear face coverings during interactions with others and in the classroom; Wash hands often and use hand sanitizer; Properly clean spaces; and, if you are experiencing any symptoms, Stay home and call your health care provider. Students who fail to comply with any of the COVID related requirements will not be permitted in the classroom and may be subject to disciplinary action. We encourage all members of the University community to model positive behavior both on- and off-campus. Any changes in the SMHS COVID related requirements will be communicated to you through the Friday weekly email "For your health" from the Dean's office and email from the program director or chair.

Students who test positive for COVID-19 are expected to immediately self-isolate/quarantine. If you have tested positive for COVID-19 we strongly recommend that you report the information to the Office of Student Rights and Responsibilities at 701.777.2664 or online at <https://veoci.com/veoci/p/w/ss2x4cq9238u>. Doing so will ensure students have the support they need to continue with their academic goals and to protect others. The policy related to COVID-19 may change throughout the semester due to community spread and updated CDC guidelines. Please check the policy frequently and ask faculty if you have any questions.

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DATE		TOPIC	Room
January	17	<b>Martin Luther King, Jr. Day – No class</b>	
January	24	<b>Statistics for EBM</b>	W202
January	31	<b>Diagnostic Article Discussion</b>	W202
February	07	<b>Therapy Article Discussion</b>	W202
February	14	<b>Cost Article Discussion</b>	W202
February	21	<b>President’s Day – No class</b>	
February	28	<b>Harm Article Discussion</b>	W202
March	07	<b>Systematic Review Article</b>	W202
March	14	<b>Spring Break – No class</b>	
March	21	<b>Meta-Analysis Article</b>	W202
March	28	<b>Clinical Guidelines</b>	W202
April	04	<b>Clinical Guidelines</b>	W202
April	11	<b>Critically Appraised Topics in PT</b>	W202
April	18	<b>Holiday Break – No class</b>	
April	25	<b>Reflection paper/ Presentation (team 1-5)</b>	W202
April	26 (1-3pm)	<b>Reflection paper/ Presentation (team 6-10)</b>	W202
May	2 – 6	<b>Final Week</b>	