

Pharmacogenomics Certificate Program

Dates: Jan 5, 2022 – Mar 1, 2022

Place: Online - <https://canvas.instructure.com/login/canvas>

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Program Overview:

This practice-based continuing education program will enhance a clinician's ability to apply pharmacogenetic information to practice and select the most appropriate therapeutic interventions. Topics that will be covered include: fundamentals of pharmacogenomics; interpretation of pharmacogenomic test results, literature evaluation and use of evidence-based guidelines; case-based scenarios, as well as how to implement pharmacogenomics in different health care settings.

Program Learning Objectives:

Program learning objectives include:

- Demonstrate an understanding of basic genetic concepts and nomenclature.
- Demonstrate an understanding of how genetic variation contributes to inter-individual variability in drug pharmacokinetics, response, and adverse effects.
- Recommend pharmacogenomic testing, when appropriate, to aid in drug and dose selection.
- Evaluate the results of pharmacogenomic tests and apply the results to patient care.
- Use evidence-based guidelines and literature to formulate patient-specific medication regimen plans based on pharmacogenomic test results and other patient-specific factors.
- Communicate pharmacogenomic-specific medication recommendations to the health care team.
- Educate patients and health care professionals about the principles of pharmacogenomics and the indications for, and clinical utility of, pharmacogenomic testing.
- Educate patients and health care professionals about the ethical, legal, social, and economic implications of pharmacogenomic testing.
- Formulate a clinical pharmacogenomics implementation plan that can be applied at the system level.

Program Format:

During this 8-week program, participants should expect to spend approximately 3 hours per week on the material. On a weekly basis, participants will watch a video, complete an online exercise, and contribute to an online discussion thread. Participants are also required to attend a live video chat during Week 4 and Week 8. Participants will be required to complete a pre-test and post-test. The primary means of communication for this program will be via Canvas. Throughout the entire program, the instructor is available by email (Christina.aquilante@cuanschutz.edu) or phone (303-724-6126) to answer questions and provide feedback.

Program Activities and Assessments:

Each week runs from Wednesday through Tuesday (e.g., Week 1 = Jan 5 through Jan 11). See the Program Schedule for weekly details and due dates. The activities and assessments in this program include:

- **Pre-Test:** Complete the online pre-test prior to Jan 11. *The pre-test is not graded.*

- **Videos:** Watch weekly online videos covering various pharmacogenomics topics.
- **Exercises:** Complete 8 online exercises (1 per week). Each exercise is due at the end of the week.
- **Discussion Posts:** Complete 8 discussion posts (1 per week). Each discussion post is due at the end of the week.
- **Live Video Chat:** Attend 2 live video chats, one during Week 4 and one during Week 8.
- **Post-Test:** Complete the online post-test prior to Mar 8.

To receive continuing pharmacy education credit and a certificate upon completion of the course, participants must receive a 70% or better on each of the exercises, receive a 70% or better on the post-test, participate in each weekly discussion post, and attend the two live video chats. Two attempts will be allowed for each graded exercise and the post-test.

Continuing Education Credit:

The University of Colorado Skaggs School of Pharmacy and Pharmaceutical Sciences is accredited by the Accreditation Council for Pharmacy Education as a provider of continuing pharmacy education. This activity provides 24.0 contact hours of practice-based continuing pharmacy education (22.0 hours home-study, 2.0 hours live). UAN : 0008-0000-21-001-B01-P, release 01/01/2021; expiry 01/01/2024.



The University of Colorado College of Nursing is an approved provider of continuing nursing education by the Western Multi-State Division, an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation. This educational offering for 24 contact hours (15 pharmacology contact hours) of continuing nursing education is provided by the University of Colorado College of Nursing Office of Continuing Education.

Continuing medical education (24.0 hours): This Blended Learning activity, Pharmacogenomics Certificate Training, has been reviewed by the American Academy of Family Physicians and has a term of 01/06/2021-01/06/2022. This activity is acceptable for up to 24.00 Prescribed credit(s); the total amount of credit consists of 22.00 Enduring Prescribed credits and 2.00 Live Prescribed credits. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

This educational public service program (CPE component) offers Continuing Education credits only; it does not offer credit towards any degree program at the University of Colorado Skaggs School of Pharmacy and Pharmaceutical Sciences or College of Nursing. The target audience for this activity is pharmacists, nurses, and physicians.

Disclosures:

Dr. Aquilante has no relevant financial relationships to disclose. The Continuing Education staff at the University of Colorado Skaggs School of Pharmacy and Pharmaceutical Sciences and College of Nursing have no relevant financial relationships to disclose.

Technical Requirements:

A computer with a high speed internet connection and audio is necessary. A webcam is preferred, but not required.