

## Pharmacogenomics Certificate Program

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| <b>Dates</b>                           | <b>Jan 6, 2021 – Mar 2, 2021</b>   |
| <b>Place</b>                           | <b>Online</b>  |
| <b>Instructor</b>                      | <b>Christina Aquilante, Pharm.D., FCCP</b>   |
| <b>Course Format</b>                   | <p>The program provides pharmacists, nurses, and physicians with an understanding of how genetic factors influence drug disposition, response, and adverse effects. Knowledge gained from this program will enhance a participant’s ability to apply pharmacogenomic information to clinical practice and select the most appropriate therapeutic interventions.</p> <p>Topics covered include:</p> <ul style="list-style-type: none"> <li>• Fundamentals of pharmacogenomics;</li> <li>• Impact of pharmacogenomics on drug clinical pharmacology;</li> <li>• Interpretation of pharmacogenomic test results;</li> <li>• Interpretation of pharmacogenomic literature and use of evidence-based guidelines;</li> <li>• Case-based scenarios of clinically-actionable pharmacogenomic examples in the areas of: <ul style="list-style-type: none"> <li>– Drug-induced hypersensitivity reactions</li> <li>– Pain, neurology, and psychiatry</li> <li>– Cardiology</li> <li>– Oncology</li> </ul> </li> <li>• Patient and provider education on pharmacogenomics;</li> <li>• Clinical implementation of pharmacogenomics in different healthcare settings.</li> </ul> |
| <b>Unique Features of this Program</b> | <p><b><u>Practice-based program</u></b> - taught by an expert in the field.</p> <p><b><u>24 hours of continuing education credit for pharmacists, nurses, and physicians.</u></b> Participants receive a certificate upon successful completion of the course.</p> <p><b>Online</b> - watch weekly videos and complete exercises at your convenience.</p> <p><b>Intensive</b> – the 8-week program thoroughly covers clinical pharmacogenomics, yet keeps the needs of the busy professional in mind. No travel required.</p> <p><b>Interactive</b> – <u>online discussions</u> and <u>live video chats</u> allow you to share ideas with other program participants and interact with the program instructor. The instructor will be accessible to you throughout the 8-week program, including weekly feedback on your work.</p>   |

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| <b>Learning Objectives</b>    | <p>Program Outcomes, each participant will:</p> <ul style="list-style-type: none"> <li>• Describe basic genetic concepts and nomenclature.</li> <li>• Describe how genetic variation contributes to inter-individual variability in drug pharmacokinetics, response, and adverse effects.</li> <li>• Recommend pharmacogenomic testing, when appropriate, to aid in drug and dose selection.</li> <li>• Evaluate the results of pharmacogenomic tests and apply the results to patient care.</li> <li>• Use evidence-based guidelines and literature to formulate patient-specific medication regimen plans based on pharmacogenomic test results and other patient-specific factors.</li> <li>• Communicate pharmacogenomic-specific medication recommendations to the health care team.</li> <li>• Educate patients and health care professionals about the principles of pharmacogenomics and the indications for, and clinical utility of, pharmacogenomic testing.</li> <li>• Educate patients and health care professionals about the ethical, legal, social, and economic implications of pharmacogenomic testing.</li> <li>• Formulate a clinical pharmacogenomics implementation plan that can be applied at the system level.</li> </ul>  |
| <b>Disclosures</b>            | <p>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.</p>   |
| <b>Continuing Education</b>   | <p>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 <b>practice-based continuing pharmacy education</b> (22.0 hours home-study, 2.0 hours live). UAN: 0008-0000-21-001-B01-P. </p> <p>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 <b>continuing nursing education</b> is provided by the University of Colorado College of Nursing Office of Continuing Education.</p> <p><b>Continuing medical education:</b> This Enduring Material activity, Pharmacogenomics Certificate Program, has been reviewed and is acceptable for up to 24.00 Prescribed credit(s) by the American Academy of Family Physicians. AAFP certification begins 01/06/2021. Term of approval is for one year from this date. Physicians should claim only the credit commensurate with the extent of their participation in the activity.</p> <p>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.</p> |
| <b>Technical Requirements</b> | <p>A computer with a high speed internet connection and audio is necessary. A webcam is preferred, but not required.</p>  |
| <b>Cost</b>                   | <p>The cost of the program is \$695 on or before 12/07/20 (early bird). The cost of the program after 12/07/20 is \$795. Discount available for CU faculty, preceptors, and alumni, and UHealth clinicians.</p>   |
| <b>Registration</b>           | <p><a href="https://cuocpd.regfox.com/pgx-jan-2021">https://cuocpd.regfox.com/pgx-jan-2021</a></p>  |

### Instructor Biography

Christina Aquilante, Pharm.D., FCCP, is Professor in the Department of Pharmaceutical Sciences at the University of Colorado Skaggs School of Pharmacy and Pharmaceutical Sciences in Aurora, Colorado, USA. Dr. Aquilante received her Doctor of Pharmacy from the University of North Carolina at Chapel Hill and completed a pharmacy practice residency at Shands Hospital at the University of Florida. Following residency, she completed a post-doctoral fellowship in cardiovascular pharmacogenomics at the University of Florida College of Pharmacy.

Dr. Aquilante joined the University of Colorado School of Pharmacy faculty in January 2004. She maintains an active clinical pharmacogenomics research program focused on cardiovascular diseases and has over 70 peer-reviewed publications and book chapters. Her research has been funded by the National Institutes of Health (NIH), American Heart Association (AHA), and/or private foundations.



Dr. Aquilante is a member of the Colorado Center for Personalized Medicine (CCPM). In this capacity, she is the Director of the Pharmacogenomics Implementation Committee Colorado (PICColo), a system-wide clinical pharmacogenomics implementation initiative at University of Colorado Health (UCHealth).

Dr. Aquilante represents the American College of Clinical Pharmacy (ACCP) on the NIH Inter-Society Coordinating Committee for Practitioner Education in Genetics and Genomics. She is a member of the Clinical Pharmacogenomics Implementation Consortium (CPIC), Past Chair of the American Association of Colleges of Pharmacy (AACP) Pharmacogenomics Special Interest Group, Past Chair of the ACCP Research Affairs Committee, and past Vice-Chair of the ACCP Clinical Practice Affairs Committee.

Dr. Aquilante is the recipient of the 2019 Chancellor's Teaching Award from the University of Colorado Graduate School. Dr. Aquilante developed and teaches required clinical pharmacogenomics courses for all entry-level PharmD, North American-Trained PharmD, and International-Trained PharmD students at the University of Colorado. She developed a Pharmacogenomics Continuing Education Certificate Program for practicing pharmacists, physicians, and nurses, and directs a Clinical Pharmacogenomics Certificate Program for the American College of Clinical Pharmacy. Dr. Aquilante has delivered international clinical pharmacogenomics workshops at the Children's Cancer Hospital Egypt (57357, Cairo), National University of Singapore, Taipei Medical University, Abu Dhabi Health Services Company (SEHA), and United Arab Emirates University. She has delivered these Certificate Programs and Workshops to over 1000 health care professionals worldwide since January 2017.

In her free time, she enjoys traveling, hiking, biking, and visiting her family in Philadelphia (Go Eagles!).