

Integrating Pharmacogenomics into Clinical Practice: Certificate Program Online

Activity Description

Pharmacogenomics (PGx) explores how genes affect medication response. Mayo Clinic offers an online certificate for pharmacists, physicians, nurses, and students to integrate PGx into practice. The course includes 16+ hours of flexible, engaging content with 50+ videos and case studies. Learners earn a certificate and CME credit.

Target Audience

This activity has been designed for pharmacists, physicians, nurse practitioners, physician assistants, nurses, students, and other members of the healthcare team.

Learning Objectives

Upon conclusion of this activity, participants should be able to:

- Recognize foundational pharmacogenomics principles.
- Identify what to consider when implementing pharmacogenomics in clinical practice.
- Recognize pharmacogenomics test results to make recommendations for an individualized medication management plan.
- Identify barriers and challenges of considering pharmacogenomics in patient care.

Attendance at this Mayo Clinic course does not indicate nor guarantee competence or proficiency in the performance of any procedures which may be discussed or taught in this course.

Accreditation Statement



In support of improving patient care, Mayo Clinic College of Medicine and Science is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC) to provide continuing education for the healthcare team.

Credit Statement(s)

AMA

Mayo Clinic College of Medicine and Science designates this enduring material for a maximum of 16.00 *AMA PRA Category 1 Credits*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

ANCC

Mayo Clinic College of Medicine and Science designates this activity for a maximum of 16.00 ANCC contact hours. Nurses should claim only the credit commensurate with the extent of their participation in the activity.



ACPE

Mayo Clinic College of Medicine and Science designates this educational activity for a maximum of 16.00 Knowledge-based contact hours. Participants should claim only the credit commensurate with the extent of their participation in the activity.

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Other Healthcare Professionals

A record of attendance will be provided to all registrants for requesting credits in accordance with state nursing boards, specialty societies or other professional associations.

Disclosure Summary

As a provider accredited by Joint Accreditation for Interprofessional Continuing Education, Mayo Clinic College of Medicine and Science must ensure balance, independence, objectivity and scientific rigor in its educational activities. All who are in a position to control the content are required to disclose all financial relationships with any ineligible company. Faculty will also identify any off-label and/or investigational use of pharmaceuticals or instruments discussed in their content for FDA compliance.

Listed below are individuals with control of the content of this program who have disclosed...

Relevant financial relationship(s) with ineligible companies:

Name	Nature of Relationship	Company
Jan Anderson	Stock Equity	Takeda Pharamceuticals
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Nabila Bennani	Honoraria	Pfizer, Inc.
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Matthew Goetz, M.D.	Honoraria	DAVA Oncology, LP
Matthew Goetz, M.D.	Honoraria	EcoR1 Capital, LLC
Matthew Goetz, M.D.	Honoraria	Eli Lilly and Company
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Matthew Goetz, M.D.	Honoraria	Sermonix Pharmaceuticals, LLC
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Caren Hughes
Michelle Cooper
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References to off-label and/or investigational usage(s) of pharmaceuticals or instruments in their presentation:

Name	Manufacturer/Provider	Product/Device/Medication
Edward Loftus, JR	Multiple companies (generic)	Azathioprine
Edward Loftus, JR	Multiple companies (generic)	Mercaptopurine

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Prerequisites for Participation

There are no prerequisites needed prior to participating in this education activity.

Method of Participation

Participation in this activity consists of reviewing the educational material, completing the learner assessment and evaluation.

How to Obtain Credit

To obtain credit, complete the assessment, evaluation and submit.

Release and Expiration Dates

Release Date:	April 6, 2026
Renewal Date:	(If applicable)
Expiration Date:	April 5, 2029

Acknowledgement of Commercial Support

No commercial support was received in the production of this activity.

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Bibliographic Resources

Moyer AM, Black JL. Pharmacogenomic Testing in the Clinical Laboratory: Historical Progress and Future Opportunities. *Ann Lab Med.* 2025 May 1;45(3):247-258. doi: 10.3343/alm.2024.0652. Epub 2025 Apr 2. PMID: 40170583; PMCID: PMC11996682.

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