Overview and Activity Description

The series focuses on the role and use of genome and exome sequencing technologies in clinical practice; helping current physicians and other healthcare professional who are not board-certified geneticists to understand the application of genetics and genomics in their practice in the areas of Genetic Testing, Genomic Sequencing, Genetic Counseling, Sequencing and Interpretation, and Reporting and Delivery Results.

This webinar contains several modules addressing different aspects of the application of genomic testing to the particular area of clinical use.

*The ACMG’s Genomics in Clinical Practice is supported by an educational grant from Illumina, Inc.*

Learning Objectives

At the conclusion, of this activity participants should be able to:

1. Explain the different types of preconceptional and prenatal screening, including genetic screening and screening for carrier states.
2. Describe the genetics of and range of phenotypes associated with CFTR gene variation.
3. Describe the laboratory approaches to testing for CFTR variants and the transition from targeted testing to the use of genome sequencing platforms for testing including the associated bioinformatics and ultimate result interpretation.
4. Explain the pretest and posttest genetic counseling processes, best practices, and issues that arise in cystic fibrosis carrier screening.

Target Audience

- Medical and clinical geneticists; genetic counselors; pediatric, obstetric, and maternal-fetal specialists; and all medical practitioners who are providing comprehensive diagnostic, management, and counseling services for patients with, or at risk for, genetically influenced health problems
- Laboratory directors and technicians who conduct genetic testing
- Researchers involved in the discovery of genetic disorders and treatments
Any healthcare and public health professionals who have an interest in medical and clinical genetics and genomics

Faculty

John P. Clancy, MD
Research Director, Division of Pulmonary Medicine
Professor, UC Department of Pediatrics
University of Cincinnati
Cincinnati Children’s Hospital Medical Center

Anthony R. Gregg, MD, FACOG, FACMG
B.L. Stalnaker Professor and Chief, Division of Maternal–Fetal Medicine
Department of Obstetrics and Gynecology
University of Florida College of Medicine

Wayne W. Grody, MD, PhD, FACMG
Professor, Departments of Pathology & Laboratory Medicine, Pediatrics, and Human Genetics
Director, Molecular Diagnostic Laboratories and the Clinical Genomics Center
UCLA School of Medicine

Bruce R. Korf, MD, PhD, FACMG
Wayne H. and Sara Crews Finley Chair in Medical Genetics
Professor and Chair, Department of Genetics
Director, Heflin Center for Genomic Sciences
University of Alabama at Birmingham

Karen Siklosi Raraigh, MGC, CGC
Certified Genetic Counselor Johns Hopkins University Institute of Genetic Medicine

Michael Watson, MS, PhD, FACMG
Executive Director
American College of Medical Genetics and Genomics &
ACMG Foundation for Genetic and Genomic Medicine

Disclosure Statement

In accordance with the Accreditation Council for Continuing Medical Education and the policy of the American College of Medical Genetics, all individuals responsible for the content of this program have disclosed the existence of any financial interest and/or other relationship(s) they might have with any manufacturer(s) or provider(s) of any commercial product(s) or service(s) discussed in this program: receiving a salary, royalty, intellectual property rights, consulting fee, honoraria, ownership interest (e.g., stocks, stock options or other ownership interest, excluding diversified mutual funds), or other financial benefit. Financial benefits are usually associated with roles such as employment, management position, independent contractor (including contracted research), consulting, speaking and teaching, membership on advisory committees or review panels, board membership, and other activities for which remuneration is received or expected.
The following faculty members do not have any conflicts to report:

John P. Clancy, MD  
Research Director, Division of Pulmonary Medicine  
Professor, UC Department of Pediatrics  
University of Cincinnati  
Cincinnati Children’s Hospital Medical Center

Anthony R. Gregg, MD, FACOG, FACMG  
B.L. Stalnaker Professor and Chief, Division of Maternal–Fetal Medicine  
Department of Obstetrics and Gynecology  
University of Florida College of Medicine

Wayne W. Grody, MD, PhD, FACMG  
Professor, Departments of Pathology & Laboratory Medicine, Pediatrics, and Human Genetics  
Director, Molecular Diagnostic Laboratories and the Clinical Genomics Center  
UCLA School of Medicine

Bruce R. Korf, MD, PhD, FACMG  
Wayne H. and Sara Crews Finley Chair in Medical Genetics  
Professor and Chair, Department of Genetics  
Director, Heflin Center for Genomic Sciences  
University of Alabama at Birmingham

Karen Siklosi Raraigh, MGC, CGC  
Certified Genetic Counselor  
Johns Hopkins University Institute of Genetic Medicine

Michael Watson, MS, PhD, FACMG  
Executive Director  
American College of Medical Genetics and Genomics

Staff Members at ACMG

HIPAA Compliance by Speakers and Presenters

The ACMG supports medical information privacy. While the ACMG is not a “covered entity” under HIPAA 1996 and therefore is not required to meet these standards, ACMG wishes to take reasonable steps to ensure that the presentation of individually identifiable health information at ACMG-sponsored events has been properly authorized. All presenters have completed a form indicating whether they intend to present any form of individually identifiable healthcare information. If so, they were asked either to attest that a HIPAA-compliant consent form is on file at their institution, or to send ACMG a copy of the ACMG HIPAA compliance form. This information is on record at the ACMG Administrative Office and will be made available upon request.
Accreditation:
The American College of Medical Genetics and Genomics is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Credit Designation:
The American College of Medical Genetics and Genomics designates this enduring material for a maximum of 3 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Note: Those seeking credit for more than one repeated webinar can only be provided credit one time for that module. Each module is approximately 1 hour.

Content Validation and Fair Balance

1. ACMG follows the ACCME policy on Content Validation for CME activities, which requires:
   a) All recommendations involving clinical medicine must be based on evidence that is accepted within the profession of medicine as adequate justification for their indications and contraindications in the care of patients.
   b) All scientific research referred to, reported or used in CME in support or justification of patient care recommendations must conform to the generally accepted standards of experimental design, data collection and analysis.

2. Activities that fall outside the definition of CME/CE; “Educational activities that serve to maintain, develop, or increase the knowledge, skills, and professional performance and relationships that a physician uses to provide services for patients, the public, or the profession” (source: ACCME and AMA) will not be certified for credit. CME activities that promote recommendations, treatment, or manners of practicing medicine or pharmacy that are not within the definition of CME/CE or, are known to have risks or dangers that outweigh the benefits or, are known to be ineffective in the treatment of patients.

3. Presentations and CME/CE activity materials must give a balanced view of therapeutic options; use of generic names will contribute to this impartiality. If the CME/CE educational materials or content includes trade names, where available, trade names from several companies must be used.

If this course offers Education Credit the following applies -

The CME certificate fee is $30 for each webinar. In order to register for CME credits, please click on the course with a Fee for Educational Credits. You are required to complete the entire webinar, take a short test and complete an evaluation in order to receive your certificate.

Technical Requirements
Disclaimer

ACMG educational courses are designed primarily as an educational tool for health care providers who wish to increase their understanding of the application of genomic technologies to patient care. The ACMG does not endorse, or recommend the use of this educational program to make patient diagnoses, particular by individuals not trained in medical genetics. Adherence to the information provided in these programs does not necessarily ensure a successful diagnostic outcome. The program should not be considered inclusive of all proper procedures and tests or exclusive of other procedures and tests that are reasonably directed at obtaining the same results. In determining the propriety of any specific procedure or test, a healthcare provider should apply his or her own professional judgment to the specific clinical circumstances presented by the individual patient or specimen.


Ref Type: Electronic Citation


