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. Explain the evolving range of genetic abnormalities that are amenable to PGD testing.
3. Explain the types of results encountered in prenatal whole genome analysis by cytogenomic arrays as a prelude to what may be seen in embryo testing.
4. Describe the various approaches to preimplantation genetic testing and the impact of genetic information on embryo selection.
5. Explain the limitations that arise in single cell testing by molecular methods.
6. Explain the process by which genomic testing results are generated and analytically and clinically interpreted and the role of bioinformatics in this process.

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

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Disclosure Statement

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The following faculty members do not have any conflicts to report:

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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**

Your browser needs to support JavaScript and Chrome. Your browser also needs to accept cookies. Adobe Acrobat Reader version 5.0 or higher must be installed on your computer in order to view Adobe PDF documents. You need Flash Player and you will be able to check your system as you log-in.

**Disclaimer**

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References

