

The Genetic Basis of Adult Medicine

What the Primary Care Provider Needs to Know



October 12 – 14, 2007

The Fairmont Copley Plaza • Boston, MA

Course Directors

Michael F. Murray, MD and Richard L. Maas, MD, PhD



Brigham and Women's Hospital
Department of Medicine
Division of Genetics

ACP
AMERICAN COLLEGE OF PHYSICIANS
INTERNAL MEDICINE | Doctors for Adults®

Harvard Medical School
Department of Continuing
Education



Harvard-Partners Center for Genetics and Genomics

COURSE DESCRIPTION

The care of adult patients in the 21st century will increasingly rely upon an improved understanding of the genetic basis of disease. For many clinicians the impact of this transformation of medicine is already being felt. This course is designed to allow practicing clinicians the opportunity to acquire an up-to-date understanding of “genetic medicine for adults” from faculty who work at the interface between the emerging science and the growing clinical applications.

COURSE OBJECTIVES INCLUDE:

- Update knowledge regarding the genetic basis of adult disease.
- Update knowledge regarding genetic testing, and the “best practice” applications for this testing in adults.
- Update knowledge regarding genetic privacy, and the non-clinical implications of genetic testing.
- Examine how changes in clinical practice, brought about through the integration of genetic knowledge into medicine, will translate to better patient care.

TARGET AUDIENCE:

Internal Medicine Physicians • Physicians • Family Physicians • Genetic Counselors
Registered Nurses • Nurses Practitioners • Physician's Assistants

COURSE DIRECTORS

Michael F. Murray, MD
*Division of Genetics
Brigham and Women's Hospital
Harvard-Partners Center for
Genetics and Genomics*

Richard L. Maas, MD, PhD
*Division of Genetics
Department of Medicine
Brigham and Women's Hospital
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HARVARD MEDICAL SCHOOL FACULTY

Anu Chittenden, MS, CGC

Dana Farber Cancer Institute

Dawn L. DeMeo, MD

Brigham and Women's Hospital

Mason W. Freeman, MD

Massachusetts General Hospital

Harvard-Partners Center for Genetics and Genomics

Monica Giovanni, MS, CGC

Brigham and Women's Hospital

Harvard-Partners Center for Genetics and Genomics

Samuel Z. Goldhaber, MD

Brigham and Women's Hospital

Patricia E. Greenstein, MD

Beth Israel Deaconess Medical Center

Carolyn Ho, MD

Brigham and Women's Hospital

Othon Iliopoulos, MD

Massachusetts General Hospital

Raju Kucherlapati, PhD

Harvard-Partners Center for Genetics and Genomics

Janina A. Longtine, MD

Brigham and Women's Hospital

David T. Miller, MD, PhD

Children's Hospital Boston

Ellis J. Neufeld, MD, PhD

Children's Hospital Boston

Martin R. Pollak, MD

Brigham and Women's Hospital

Gretchen H. Schneider, MS, CGC

Harvard-Partners Center for Genetics and Genomics

Lecia Sequist, MD, MPH

Massachusetts General Hospital

Benjamin N. Smith, MD

Brigham and Women's Hospital

Elena M. Stoffel, MD, MPH

Brigham and Women's Hospital

Dana Farber Cancer Institute

Kelan Tantisira, MD

Brigham and Women's Hospital

VISITING FACULTY

Mark W. Babyatsky, MD

Division of Gastroenterology

Mount Sinai Medical Center

Bruce R. Korf, MD, PhD

Department of Genetics

University of Alabama, Birmingham

Kenneth Offit, MD, MPH

Clinical Genetics Service

Memorial Sloan-Kettering Cancer Center

Reed E. Pyeritz, MD, PhD

Division of Medical Genetics

University of Pennsylvania School of Medicine

The Genetic Basis of Adult Medicine 2007: What the Primary

FRIDAY, OCTOBER 12

6:00-7:00 *Registration/Coffee*

OVERVIEW OF GENETIC MEDICINE

7:00-7:10 Welcome and Introduction
Michael F. Murray, MD

7:10-8:10 Keynote Lecture: What the
Primary Care Provider Needs
to Know about Genetics
Bruce R. Korf, MD, PhD

8:10-8:45 Key Genetic Principles That
You Need to Know
Richard L. Maas, MD, PhD

8:45-9:45 Personalized Medicine
Raju Kucherlapati, PhD

9:45-10:15 *Break*

UNDERDIAGNOSED MONOGENIC DISEASES

10:15-10:50 Genetics of Anemia in Adults
Ellis J. Neufeld, MD, PhD

10:50-11:25 Genetics of Thromboembolic
Disease
Samuel Z. Goldhaber, MD

11:25-12:00 Genetic Causes of Heart
Failure
Carolyn Ho, MD

12:00-1:30 *Lunch*

1:30-2:05 Genetics of Lipid Disorders
Mason W. Freeman, MD

2:05-2:40 Genetic Causes of Liver
Dysfunction
Benjamin N. Smith, MD

2:40-3:15 Genetics of Renal Failure
Martin Pollak, MD

3:15-3:45 Case Studies #1 - 35 yr old
woman with family history of
genetic disease
Gretchen H. Schneider, MS, CGC

3:45-4:00 *Break*

ETHICAL LEGAL SOCIAL IMPLICATIONS (ELSI) OF GENETICS LECTURE

4:00-5:00 Preimplantation genetic diag-
nosis for cancer syndromes: A
New Challenge for Preventive
Medicine
Kenneth Offit, MD, MPH

5:00-6:00 *Reception*
The Fairmont Copley Plaza

SATURDAY, OCTOBER 13

6:30-7:00 *Coffee*

COMMON POLYGENIC DISEASES

7:00-7:10 Review of Schedule

7:10-7:55 Genetics of Cardiovascular
Disease
David T. Miller, MD, PhD

7:55-8:40 Genetics of Pulmonary Disease
Dawn L. DeMeo, MD

8:40-9:25 Adult Neurogenetic Cases
Patricia E. Greenstein, MD

9:25-9:45 *Break*

9:45-10:30 Case Studies #2 - 59 yr old
man with fever, cough, and
sputum
Michael F. Murray, MD

10:30-11:30 Genetics of Gastrointestinal
Disease
Mark W. Babyatsky, MD

11:30-12:45 *Lunch*

CANCER GENETICS

12:45-1:35 Genetics of Breast and Ovarian
Cancer
Anu Chittenden, MS, CGC

1:35-2:25 Genetics of Colon and Other
Gastrointestinal Cancers
Elena M. Stoffel, MD, MPH

2:25-3:15 Genetics, Lung Cancer and
Treatment Responses
Lecia Sequist, MD, MPH

Care Provider Needs to Know

3:15-4:00 Genetics of Renal Cancer
Othon Iliopoulos, MD

4:00-4:15 *Break*

PHARMACOGENOMICS PLenary

4:15-5:15 Genetics as a Basis for
Medication Selection
Kelan Tantisira, MD

SUNDAY, OCTOBER 14

7:00-7:30 *Coffee*

GENETIC DIAGNOSIS & TESTING

7:30-7:40 Review of Schedule

7:40-8:30 Recommended Genetic
Screening 2007
Monica Giovanni, MS, CGC

8:30-9:30 Ordering a Genetic Test:
Who Offers Testing, How
Much Does It Cost, and Who
Will Pay for It?
Janina A. Longtine, MD

9:30-9:45 *Break*

9:45-10:45 Making the Family Health
History More Useful in
Primary Care Settings
Michael F. Murray, MD

GENETIC DISEASE & TREATMENT: CHANGING THE PARADIGM

10:45-11:45 Marfan and Related Disease:
A Diagnostic Imperative
Reed E. Pyeritz, MD, PhD

11:45-12:00 *Break*

CLINICAL CASE WORKSHOP

12:00-1:00 Presentations of Common
Scenarios in Adult Genetics

(Registration required at no additional cost. Lunch provided.)

COURSE LOCATION

All sessions will be held at:

The Fairmont Copley Plaza Hotel
138 St. James Avenue
Boston, MA 02116

(617) 267-5300 or (800) 441-1414

Fax (617) 375-9648

ACCOMMODATIONS

Hotel rooms in Boston are limited. You are urged to make your reservations early. **A limited number of rooms have been reserved at The Fairmont Copley Plaza Hotel (Tel: 617-267-5300; Fax: 617-437-0794) until September 20, 2007.** In addition, **a limited number of rooms have been reserved at The Hilton Boston Back Bay until September 11, 2007 (Tel: 617-236-1100; Fax: 617-867-6104).** Please specify that you are enrolled in this course to receive a reduced room rate. A map of Boston listing local hotels will be sent with your confirmation of enrollment. For additional housing assistance, please call Boston Reservations at (617) 332-4199.

TRAVEL

For information on reduced airfare, call Harvard Medical School-Department of Continuing Education at (617) 384-8600, Monday-Friday, 10AM to 4PM (EST).

ACCREDITATION

Harvard Medical School is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Harvard Medical School designates the Course Only for a maximum of 20.5 and the Course with Sunday Workshop for a maximum of 21.5 AMA PRA Category 1 Credit(s)TM. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Register or view course information online:
www.cme.hms.harvard.edu/courses/genetic

REGISTRATION FORM

REGISTRATION Register early, space is limited. All foreign payments must be made by a draft on a United States bank or by Visa or MasterCard. Telephone registrations are not accepted. If paying by check, make it payable to Harvard Medical School and mail with the completed registration form to: Harvard Medical School-Department of Continuing Education, P.O. Box 825, Boston, MA 02117-0825. If paying by credit card, mail it to the above address, register online at www.cme.hms.harvard.edu/courses/genetic or fax the completed registration form to (617) 384-8686.

INQUIRIES Inquiries should be directed to the above address, by email: hms-cme@hms.harvard.edu or made by phone: (617) 384-8600, Monday-Friday, 10am to 4pm (EST). Upon receipt of registration a confirmation letter will be mailed to the address listed on the form.

REFUND POLICY A handling fee of \$60 is deducted for cancellation. Refund requests must be received by mail or fax one week prior to the course. No refunds will be made thereafter.

Genetic Basis of Adult Medicine

October 12 - 14, 2007 COURSE # 271416

Registration Fee

Tuition

- | | |
|---|--------------------|
| <input type="radio"/> Physicians | \$650 (USD) |
| <input type="radio"/> Residents* & Fellows-in-Training*/ Allied Health Professionals
<i>*A letter of verification from Department Chair must accompany application for a reduced fee.</i> | \$425 (USD) |
| <input type="radio"/> Genetic Counselors (Does not include CEU fees for ABGC diplomates.) | \$425 (USD) |
| <input type="radio"/> American College of Physicians Members (Member # _____) | \$550 (USD) |

Full Name

Degree

Mailing Address

City

State/Province

Zip/Postal Code

Country

Daytime Phone

Fax Number

Email Address

Please check if you wish to be excluded from receiving email notices of future HMS-CME programs.

Professional School Attended

Year of Graduation

Principal Specialty

Board Certified? Yes No Organization /Affiliation

Clinical Case Workshop (Sunday, October 14)[†] **Yes!** I will attend. **No,** I will NOT attend.

[†] Advanced registration required. No additional fee.

PAYMENT INFORMATION:

Check is enclosed: Make check payable to Harvard Medical School and mail it with this form to: Harvard Medical School - Department of Continuing Education, P.O. Box 825, Boston, MA 02117-0825

Bill my credit card: VISA MASTERCARD Tuition Fee \$ _____

Credit Card Number

Expiration Date

Name as it Appears on Card

Signature

Registrations paid by credit card may be faxed to (617) 384-8686 or registered online at

www.cme.hms.harvard.edu/courses/genetic