# HEARTBEAT

### Cardiovascular Health Study

Special Issue



#### Andrew Duxbury, MD (left), John Robbins, MD, MHS, and Charles Bernick, MD (not pictured) are participating in investigations at the CHS UC Davis Field Center.

## To the physicians of our CHS participants...

During the next twenty years, the incidence of coronary heart disease and stroke in the US, and the cost of treating these diseases, is expected to increase by 40%. The majority of this increase will occur in persons aged 65 and older; yet before the Cardiovascular Health Study, very little research had targeted this age group. In the past, most studies focused on the risks of coronary heart disease for middle-aged white males; little attention was given to determining which risk factors might lead to heart disease and stroke in females, African-Americans, or older adults.

The Cardiovascular Health Study is committed to identifying these risk factors for all older adults. Findings from CHS have already been published in the medical literature that may help you make more informed decisions about the treatment of your patients. And to a great extent, you have played a crucial role in the process of investigation and analysis that has led to these findings.

When a CHS participant is ill, is hospitalized or dies, we use the participant's medical records to collect information about the illness or death (we call this an "event"). We may have already asked you to complete a questionnaire about a cardiovascular event experienced by one of your patients. When compared to the participant's health status at baseline, this information provides data essential to our research. We appreciate your willingness to support our data collection efforts, which will help make our research more comprehensive, relevant, and effective.

The yearly examinations completed by our participants have provided information that may also be beneficial to you as a health provider. Test results are available to you when requested by your patients. A timeline of CHS examination elements appears on page two of this newsletter.

All of the many published journal articles written by CHS Investigators are available without charge in reprint form. You will find a synopsis of one of these articles on page three. A complete list of articles and a return coupon for requesting reprints is also included.

Your colleagues working with CHS as investigators would welcome any questions you may have about the study. You may call the CHS Field Center at (916) 734-5562 at any time with questions or requests for information. A list of Principal Investigators at the UC Davis Field Center appears on page four.

We will continue to ask you to provide information and to share your conclusions about your patients' events and the conditions that precipitated them. We are confident that we can count on your cooperation and support.

# **CHS Timeline**

YEAR	EXAMINATION ACTIVITY		
1989-90	Basic Examination: Medical history   Blood pressure Height, weight   Electrocardiogram Cognitive function test   Physical function questionnaire Blood Lab: Lipids, hemostasis, fasting blood chemistries, hematology, glucose tolerance test   Additional Tests: Carotid ultrasound   Echocardiogram Pulmonary function   Physical activity questionnaire Ambulatory ECG (25% of cohort)		
1990-91	Basic Examination		
1991-92	Basic Examination		
1992-93	Basic Examination Blood Lab: Lipids, hemostasis, fasting blood chemistries, hematology, glucose tolerance test Additional Tests: Carotid and aortic ultrasound MRI (first half of cohort) Physical activity questionnaire Performance-based measurements Recruitment of African-American Cohort		
1993-94	Basic Examination Blood Lab: Lipids Additional tests: MRI (second half of cohort) Pulmonary function Peak oxygen flow meter Sleep-apnea questionnaire Performance-based measurements		
1994-95	Basic Examination Blood Lab: lipids Additional tests: Ambulatory ECG (25% of cohort) Echocardiography Performance-based measurements		
1995-96	Basic Examination Blood Lab: lipids		
1996-97	Basic Examination Blood Lab: lipids Additional tests: Pulmonary function		
1997-98	Basic Examination Blood Lab: Lipids, hemostasis, fasting blood chemistries, hematology, glucose tolerance test		
1998-99	Basic Examination Blood Lab: lipids Additional tests: Carotid and aortic ultrasonography		
1999-2000	Analyses		

### Research Highlight

# **Estrogen Use and Cardiovascular Disease**

Associations of Postmenopausal Estrogen Use with Cardiovascular Disease and Its Risk Factors in Older Women: Manolio TA, Furberg CD, Shemanski L, Psaty BM, O'Leary DH, Tracy RP, Bush TL. Circulation 1993;88:2163-2171.

The following is a synopsis of one of the 24 published research papers describing the findings of the Cardiovascular Health Study. Reprints of all 24 papers are available at no charge from the CHS Coordinating Center. Please use the enclosed coupon.

Question:		er, postmenopausal women related to : wease risk profile, similar to that seen in younger	
Population:	2955 postmenopausal women over 65 years old in the Cardiovascular Health Study.		
<u>Selected</u> <u>Measurements:</u>			
		: common and internal carotid thickness ar mass, doppler mitral peak flow velocity.	
Results:	Estrogen use (past or present) associated with:		
	DECREASED		
	LDL-Cholesterol	Carotid intimal-medial thickness	
	Fibrinogen	Carotid stenosis grade	
	Glucose	ECG left ventricular mass	
	Insulin	Mitral peak flow velocity	
	Obesity	· ·	
	Age		
	INCREASED		
	HDL-Cholesterol		
Socioeco		conomic Status	
Conclusions:	Postmenopausal estrogen use in older women was associated with a favorable risk profile for cardiovascular disease.		
	Estrogen use was associated with lower levels of subclinical disease.		
	Estrogen use may be associated with lower risk of cardiovascular disease in women at least to their mid-70s.		

# UC Davis Field Center Investigators

Research findings of the Cardiovscular Health Study have resulted from the combined efforts of a number of professionals involved in the implementation of procedures and the analysis of data obtained by the study. The investigators are available to answer any questions you may have about the study and may be reached at the CHS Field Center at (916) 734-5562. Investigators at the UC Davis Field Center are:

Charles Bernick, MD William Bommer, MD Andrew Duxbury, MD Mary Haan, MPH, Dr.PH Calvin Hirsch, MD Marshall Lee, MD Virginia Poirier, MD John Robbins, MD, MHS, Principal Investigator CHS Heartbeat is produced by the Cardiovascular Health Study Coordinating Center, University of Washington, Seattle, WA. It is supported by the National Heart, Lung and Blood Institute N01-HC-85079.

> Editorial staff David Siscovick, M.D., M.P.H. Annette Fitzpatrick, M.A. Lynnell Diamond *Coordinating Center*

Peg Meyer, R.N., M.Ed. University of Pittsburgh Field Center

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CARDIOVASCULAR HEALTH STUDY UNIVERSITY OF CALIFORNIA, DAVIS DEPARTMENT OF INTERNAL MEDICINE DIVISION OF GENERAL MEDICINE GENERAL INTERNAL MEDICINE INVESTIGATIVE CLINIC 2000 STOCKTON BOULEVARD, SUITE 100 SACRAMENTO, CA 95817

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