第六届北京协和呼吸病学峰会

暨第二届ACCP呼吸与危重症最新进展临床峰会

Proceedings of the 6th Peking Union Conference on Respiratory Medicine and the Second ACCP-China Annual Conference Series on Pulmonary and Critical Care in Beijing

论文集

蔡柏蔷肖 毅主编

中国协和医科大学出版社

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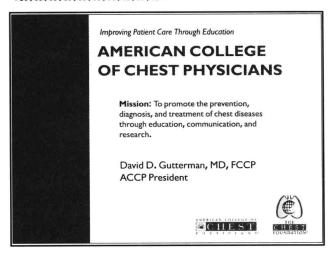
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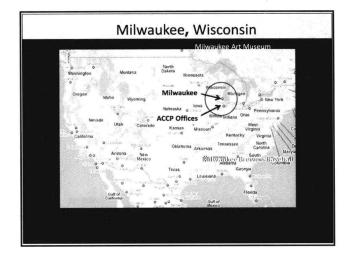
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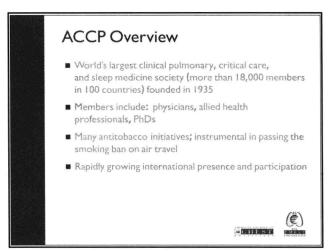
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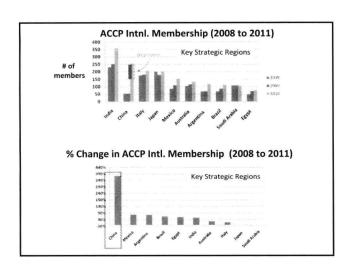




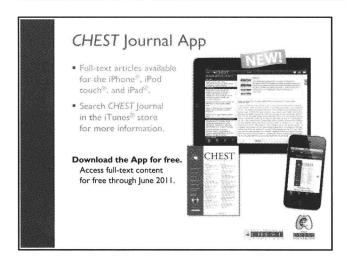


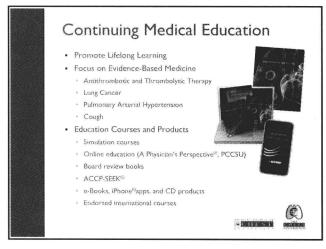


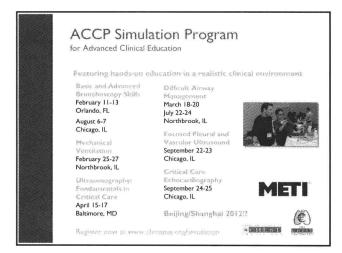


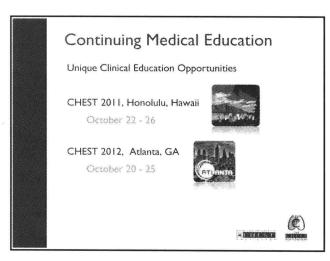


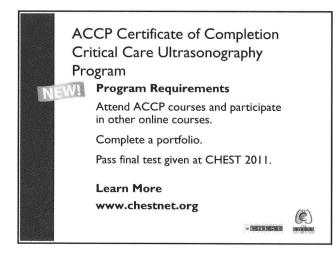


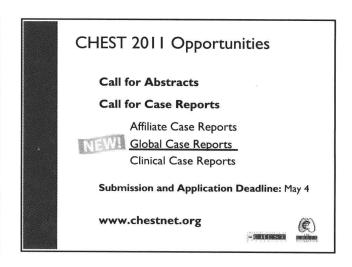


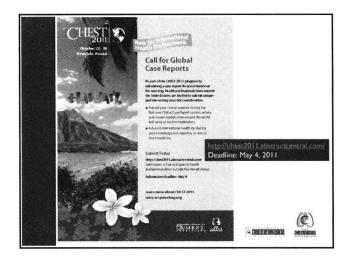




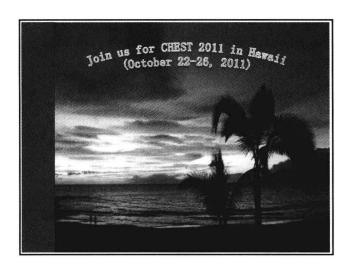












个人简介

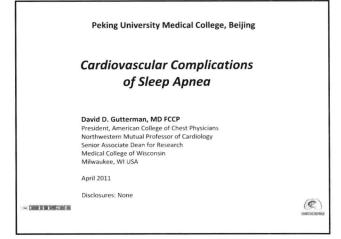


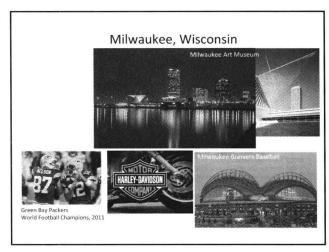
David D. Gutterman, MD

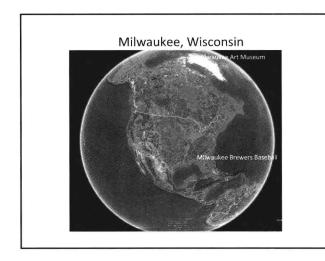
Dr. Gutterman is the Northwestern Mutual Professor of Cardiology. He is involved actively in clinical practice, supervises an NIH funded research laboratory, and provides senior administrative oversight of research administration at the Medical College of Wisconsin. He has served in a leadership role in a variety of national and international cardiovascular scientific organizations. He is currently the president of the American College of

Chest Physicians, and has served as chair of the American Physiological Society's Cardiovas-cular Section, and as chair of the American Heart Association Scientific Publishing Committee. Dr. Gutterman is the Senior Associate Dean for Research at the Medical College of Wisconsin. He received an M. D. degree from the University of North Carolina, and completed residency training in internal medicine and fellowship in cardiology at the University of Iowa where he joined the faculty in 1987. Dr. Gutterman was promoted to Professor of Medicine in 1998 prior to moving to the Medical College of Wisconsin.

Dr. Gutterman's investigative interests focus on regulation of human vascular reactivity both at the fundamental and translational research levels. His research efforts span basic and clinical science related to vascular health and disease. His laboratory is one of only 2 worldwide that examines the ability of small blood vessels to control blood flow to the human heart. Dr. Gutterman has also undertaken studies to examine the earliest changes that occur in the development of atherosclerosis (clinical endothelium dysfunction) and has used this technique to examine the beneficial and detrimental roles of various exercise regimens and of dieting on cardiovascular health. Dr. Gutterman had authored more than 100 articles and reviews related to cardiovascular function and pathophysiology.













Cardiovascular Disease and Sleep Apnea

Objectives

- Define epidemiology of cardiovascular disease in sleep disordered breathing
- Examine prognosis and management of SDB and CVD

Address the following questions:

- 1. Which cardiovascular complications are associated with sleep disordered breathing
- (SDB)? How common are they?

 2. Does treating SDB influence cardiovascular disease?

 3. What are the clinical practice implications for patient management?



Cardiovascular Disease and Sleep Apnea

Epidemiology

SDB prevalence in US: 15 million adults (24% for men, 9% for women) (in Japan, men=3%, women=0.5%)

- 1 in 5 has some degree of OSA (AHI>5/hour)
- 1 in 15 with mod-severe OSA (AHI>15/hour) only ~15% are referred for evaluation

CSA Prevalence in general population is 0.5-2%, more in older population, diabetes, CHF

CVD Prevalence (MI, angina, CHD) in US =6.5%, with 4% MI

Both SDB and CVD are relatively common occurrances

Ortonia Cettino (1857)

Association between Sleep Disordered Breathing & Cardiovascular Disease

Cardiovascular conditions associated with SDB

-Congestive Heart Failure

- Systolic Dysfunction
- -Diastolic Dysfunction
- -Stroke

-Hypertension

- Left Ventricular Hypertrophy
- Pulmonary Arterial Hypertension

-Arrhythmias

- -Tachyarrhythmias
 - Ventricular Tachycardia and Fibrillation;
 - Sudden Cardiac Death
- Atrial Fibrillation
- -Bradyarrhythmias

ONES MAR CHITTO

Association between Sleep Disordered Breathing & Cardiovascular Disease

Cardiovascular conditions associated with SDB

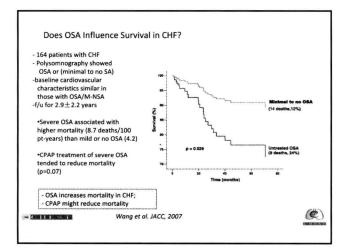
- Congestive Heart Failure:
 "45/45 rule": SDB is present in 45% of patients with LVEF<45%
 - In CHF, most SDB is Central Sleep Apnea/Cheyne-Stokes Respiration, although 11-37% is OSA
 - higher frequency of OSA in diastolic dysfunction (~50%)

Somers et al. Circulation 2008 Yaggi et al. NEJM 2005

Minoguchi et al. AJRCCM 2007

Shahar et al. AJRCCM 2001

UNESSED CHESTO



Association between Sleep Disordered Breathing & Cardiovascular Disease

Cardiovascular conditions associated with SDB

CHE. SDB is present in 45% of patients with LVEF<45%

- In CHF, most SDB is CSA, although 11-37% is OSA
 - rare daytime somnolence male > female prevalence
 - higher frequency of OSA in diastolic dysfunction (~50%)

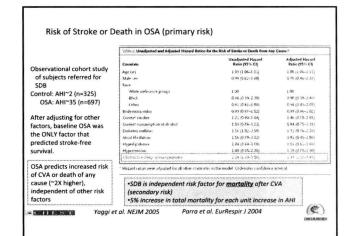
- In patients with stroke, 17% have OSA, 21% with CSA
- up to 62% of TIAs are associated with SDB conversely, 25% of those with moderate OSA have MRI-proven CVA vs. 6% of control group without SDB

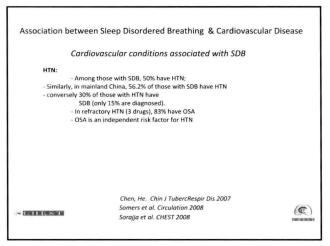
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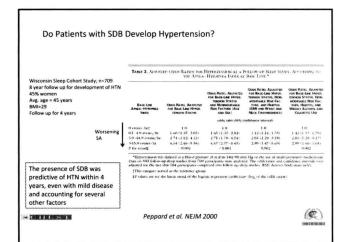
Somers et al. Circulation 2008 Yaggi et al. NEJM 2005

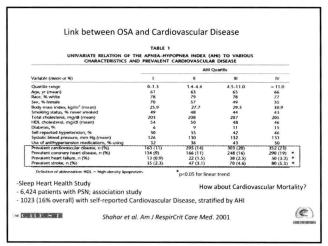
Minoquchi et al. AJRCCM 2007 Shahar et al. AJRCCM 2001

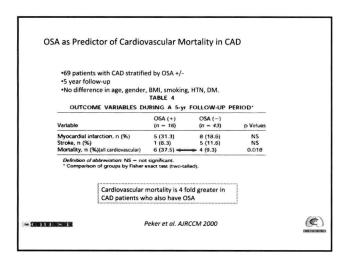


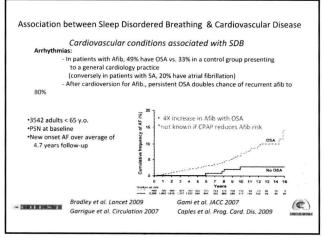


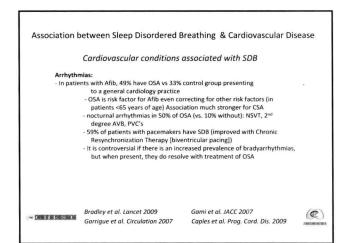


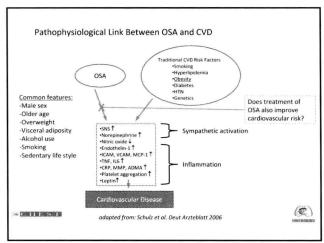


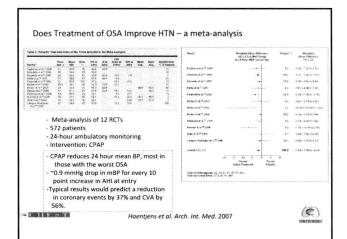


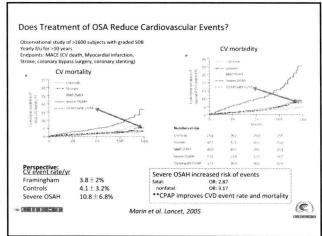


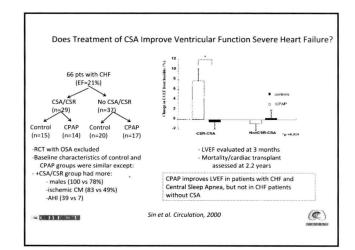


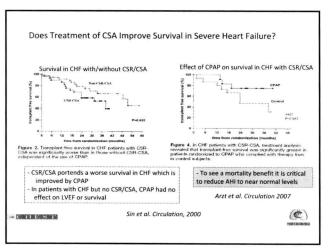


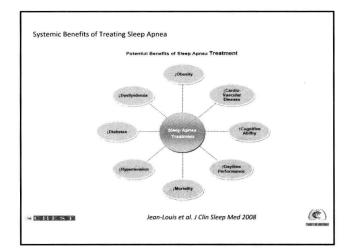


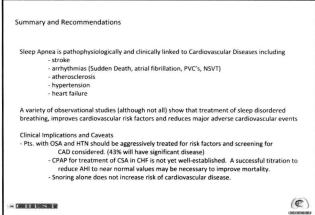


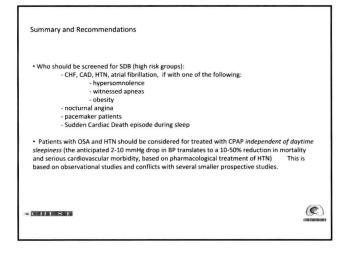


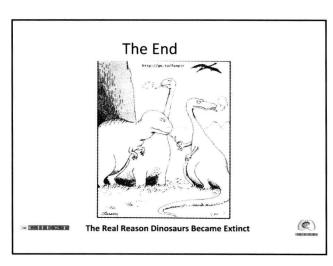












个人简介



Renli Qiao, MD, PhD, FCCP

Dr. Renli Qiao is an Associate Professor of Clinical Medicine at Department of Medicine, Keck School of Medicine, University of Southern California in Los Angeles, California, USA. He received his MD in Shanxi Medical College and his PhD in Peking Union Medical College. He is one of the very few with quadruple Board Certifications in Internal Medicine, Pulmonary Diseases, Critical Care and Sleep Medicine. He is a Fellow and a member

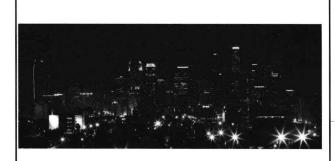
of Executive Committee of American College of Chest Physicians. His research interest is in pulmonary hypertension and phenotypic transdifferentiation of alveolar epithelial cells. He spends his spare time in Chinese writing and enjoys a wide readership with his series of "As a Doctor in America" which appears regular in an oversea internet-based magazine.

COPD and Pulmonary Hypertension

RenliQiao, MD, PhD, FCCP

Associate Professor of Clinical Medicine Diplomat, Pulmonary, Critical Care, Sleep Medicine Keck School of Medicine University of Southern California Los Angeles, CA

CHEST



Night Skyline of Los Angeles

Why discuss?

- Pulmonary hypertension in COPD and ILD. Weitzenblum E et al. SeminRespirCrit Care Med 30:458-470, 2009
- PHTN in pts with COPD. Barbera JA, Blanco I. Drugs. 1153-71, 2009
- Rt heart function in COPD. MacNee W. SeminRespirCrit Care Med. 31:295-312, 2010
- PHTN in COPD. Minai OA et al. Chest. 137:39S-51S, 2010

-CHEST

Hypoxic Pulmonary Vasoconstriction





Von Euler, US Liljestrand, G (1946). "Observations on the pulmonary arterial blood pressure in the cat". Acta Physiol. Scand. 12 (301–320)

CHEST

-CHEST

The Early Report of CorPulmonale

WHO. Chronic corpulmonale: a report of an expert committee. WHO Tech Rep Ser. 213:35, 1961

CHEST

Harrison's Principles of Internal Medicine

Corpulmonale, often referred to as *pulmonary heart disease*, is defined as dilation and hypertrophy of the right ventricle (RV) in response to diseases of the pulmonary vasculature and/or lung parenchyma that are sufficient to cause**pulmonary** hypertension.

CHEST

Harrison's Principles of Internal Medicine

Many of the signs that are encountered in corpulmonale are also present in HF patients with a depressed EF, including:

- 1. tachypnea
- 2. elevated JVD, hepatomegaly
- 3. peripheral edema.

-CHEST

The Natural History of COPD

COPD

Pulmonary Hypertension



CorPulmonale (RHF, peripheral edema)

· CHEST

Pulmonary Arterial Catheterization





CHEST

Pulmonary HTN in COPD

- In COPD pts (120) evaluated for LVRS
- FEV1 = 27% predicted
- In 91%, mean PAP > 20 mmHg
- In 5%, PAP > 35 mmHg
- · Poor correlation between PFT and PAP
- PAP correlated with occlusion pressure (air trapping vs LV dysfuntion)

Scharf SM et al, AJRCCM 166:314-22, 2002

Why should a mild PHTN cause RHF in COPD?

-CHEST

PHTN from other lung diseases





Cystic Fibrosis

Idiopathic Pulmonary Fibrosis