[ATS 2010 L8]: CONCERT Consortium and Consensus Conferences on Effectiveness / Translational Research

COPD Outcomes-based Network for Clinical Effectiveness and Research Translation (CONCERT)

Jerry A. Krishnan, MD, PhD
Associate Professor of Medicine and Epidemiology
Director, Asthma and COPD Center
University of Chicago
Numerous tx have efficacy in COPD

- Reduce mortality
  - Smoking cessation
  - Supplemental oxygen
  - Non-invasive mechanical ventilation
  - Lung volume reduction surgery for emphysema
    - Post-hoc: Upper lobe emphysema with low exercise capacity

- Reduce exacerbations
  - ICS, LABA, ICS/LABA, LAMA
  - Pulmonary rehabilitation

- Improve respiratory Sx and functional status
  - LABA, SABA, ipratropium
Limitations of *efficacy* studies

- Efficacy studies exclude various (most) real-world pts
  - Some may have different harm to benefit profiles

- Research conditions do not mimic delivery of care
  - Heterogeneous groups of clinicians
  - Resource-poor to resource-intensive settings

- Thus, in some (most) patients
  - Efficacious interventions may be *ineffective*
    - Need comparative effectiveness studies

  - Efficacious interventions may be *impractical*
    - Need implementation studies
Americans with COPD Receive 58% of Appropriate Health Care

Care of patients hospitalized with AE-COPD is highly variable

Lindenauer PK, Ann Intern Med 2006
Comparative effectiveness research (CER)

• Compares strategies of care used in clinical settings
  – Delivery of care (‘implementation research’)

• Studies in real-world settings
  – Understudied populations (elderly, minorities, co-morbid conditions)
CER studies in COPD can serve as a model for other common complex health disorders

- Multiple co-morbid conditions
- Multiple healthcare providers
- Multiple healthcare settings
CER is underdeveloped

- Needs infrastructure to support collaboration between stakeholders who generate, disseminate, and use new knowledge
  - To prioritize research questions with stakeholder input
  - To conduct collaborative CER studies of guaranteed value

- Patients, families
- Clinicians and professional organizations
- Payers
- Policymakers
- Regulators
- Funding agencies
- Researchers
Our Mission

We are a multi-center collaboration of investigators (COPD Outcomes-based Network for Clinical Effectiveness & Research Translation (CONCERT) Investigators) with expertise in epidemiology, statistics, health services research, cost-effectiveness analysis, clinical trials, performance measurement, quality improvement, implementation research, and multi-center data coordination. **Our goal is to employ effectiveness and translational research methodologies to improve the care and outcomes of patients with COPD.** We will utilize translational science, clinical evaluation, quality measurement, and implementation methodologies to improve the science of effectiveness research and develop innovative strategies to optimize, implement, and monitor the effectiveness of care in COPD.

Our research interests

CONCERT Investigators have a broad-based interest in the following research areas in COPD:

1. Improving health outcomes
2. Developing quality measurement and improvement methods
3. Identifying effective strategies to improve care
4. Reducing unnecessary expenditure and inappropriate utilization
5. Translating effective therapies across care delivery settings
6. Developing innovative care models for hospitalized patients, including transitions of care
7. Optimizing palliative care concurrent with best standards for interventional care
8. Implementing strategies for rapid adoption of novel therapies and interventions
9. Demonstrating linkages between performance measurement and outcomes

6 Academic healthcare centers in CTSA-funded institutions

Baystate (Tufts), Kaiser Permanente (OHSU), UC, UIC, UNC, and UW
>30 Stakeholders (as of 4/2010)
Setting effectiveness and translational research priorities to improve COPD care

Year 1
May 21-22, 2009
Hard Rock Cafe
San Diego, CA

- Chronic COPD care
- Care coordination in COPD

Year 2
May 20-21, 2010
New Orleans

- Acute COPD care
- Transitions in care in COPD
Awarded NHLBI RC2 to establish CER infrastructure, 9/09

6 Clinical Centers (8 sites)
1 Data coordinating Center
• **CONCERT External Advisory Committee**
  – Sonia Buist, MD
  – Stephan Fihn, MD, MPH
  – Eddy Lang, MD
  – David Mannino, MD
  – Peter Pronovost, MD, PhD
  – Cynthia S. Rand, PhD
  – Peter Wyer, MD

• **CONCERT Consultants**
  – Peter Bach, MD, MAPP
  – Barry Make, MD
  – Wilson Pace, MD
  – Barbara Yawn, MD, MSc

• **CONCERT Steering Committee**
  – David Au, MD, MS
  – Shannon Carson, MD, MS
  – Jerry Krishnan, MD, MS
  – Todd Lee, PharmD, PhD
  – Peter Lindenauer, MD, MSc
  – Mary Ann McBurnie, PhD
  – Richard Mularski, MD, MSHS, MCR
  – William Vollmer, PhD