

BRIDGE Patient to Investigator Training Module 5 Specific COPD-Related Research Information Summary Document

Understanding COPD

To understand COPD-related research, reviewing what is COPD can be helpful:

Chronic: the disease lasts a long time, is always present

Obstructive: the ability to move air in and out of the lungs is obstructed

Pulmonary: the disease is in the lungs

Disease: the lungs have been damaged

COPD Facts

COPD is caused by—smoking, breathing in fumes/chemicals, dust and/or genetic factors.

3 broad types of COPD: Chronic Bronchitis COPD, Emphysema and Alpha-1 Antitrypsin Deficiency

Types of COPD Research

Defining and Describing COPD

Some COPD-related research attempts to answer critical questions ...

Who is at risk of getting COPD?

- *Epidemiology of COPD studies*—focused on frequency, patterns, causes, and risks
- *New approaches to diagnosis studies*—focused on expanding COPD diagnosis criteria
- *Non-smoking causes of COPD studies*—focused on the individuals with COPD who have never smoked

What are the different types of COPD?

- *Phenotypes research*—focused on common characteristics and disease progression among groups of patients
- *Asthma-COPD overlap research*—focused on COPD patients who also have a diagnosis of asthma

What happens to COPD over time?

- *The progression or natural history of COPD studies*—focused on how COPD changes from “moderate” to “severe.”

Treatment-Focused Treatment

- *Oxygen issues studies*—focused on how much and when individuals with COPD need oxygen
- *New treatment studies*—focused on daily, maintenance and rescue medications
- *New device studies*—focused on developing new devices like bronchial valves

Molecular and Cellular

- Studies that examine COPD at the molecular and cellular levels
- Studies that use research on animals and in labs
- Studies that focus on understanding COPD processes, causes, and effects on the lungs

Implementation Research (applying what has been learned)

- *Screening for COPD in primary care research*—focused ways of identifying undiagnosed COPD individuals
- *Readmissions research*—focused on programs and interventions designed to reduce COPD hospital readmissions.
- *Patient and caregiver perspective*—focused on listening to patients and caregivers about what should be studied and how clinical trials should be planned, implemented, and shared.

Future COPD Research

- *More molecular/cellular work*
- *Women and COPD*
- *Minorities and COPD*
- *New approaches to treatment*
- *New approaches to diagnosis and monitoring*
- *A cure...*

Current COPD-Related Research Studies

COPD Genetic Epidemiology (COPDGene) Study

One of the *largest and longest studies* devoted to examining the *underlying genetic factors* that cause some smokers to get COPD while others do not

RELIANCE Study

A study focused on comparing 2 COPD drugs used to prevent episodes and hospitalization: azithromycin and roflumilast

COPD Assessment in Primary Care to Identify Undiagnosed Respiratory Disease and Exacerbation Risk (CAPTURE) Study

A study focused on validating a 5-item questionnaire used for COPD screening in primary care.

A Unique COPD Network Devoted to Connecting Patients to Researchers

COPD Patient-Powered Research Network (PPRN)

Striving to be ***one of the largest networks*** of COPD patients and those at risk who have agreed to ***share their health information***

- Connects researchers with individuals with COPD
- Created and managed by the COPD Foundation
- Collects and stores information provided by patients that can be used in studies
- Focuses on research *questions and issues important* to people with COPD