



# **BIOSPECIMEN and DATA RESOURCES**

## **LUNG DISEASE**

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BioLINCC Resources are provided at no cost (other than the cost of shipping biospecimens)

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#### **A Case Controlled Etiologic Study of Sarcoidosis (ACCESS)**

Epidemiology Study  
June 1995 - March 2003

Resources: [Data](#), [Bronchial Lavage](#), [DNA](#), [Peripheral Blood Mononuclear Cells](#), [Plasma](#)

ACCESS examined the etiology of sarcoidosis, as well as socioeconomic variables and the clinical course of patients with sarcoidosis, including quality of life.

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#### **A Randomized Controlled Study of Adenotonsillectomy for Children with Obstructive Sleep Apnea Syndrome (CHAT)**

Clinical Trial  
October 2007 – June 2012

Resources: [Data only](#)

CHAT evaluated the efficacy of early adenotonsillectomy versus watchful waiting with supportive care, with respect to cognitive, behavioral, quality-of-life, and sleep factors in children with the obstructive sleep apnea syndrome.

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#### **Acute Respiratory Distress Network (ARDSNet) Resources**

ARDSNet is a consortium of clinical centers and a coordinating center intended to design and test novel therapies for the treatment of Acute Lung Injury (ALI) and Acute Respiratory Distress Syndrome (ARDS).

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#### **Acute Respiratory Distress Network (ARDSNet) Studies 01 and 03 Lower versus higher tidal volume, ketoconazole treatment and lisofylline treatment (ARMA/KARMA/LARMA)**

Clinical Trial  
1996-1999

Resources: [Data](#), [Plasma](#), [Serum](#), [Urine](#)

The Karma trial investigated the efficacy and safety of Ketoconazole and Respiratory Management in the treatment of ALI and ARDS. The ARMA component compared two ventilator strategies: a tidal volume of 6 mL/kg versus 12 mL/kg. The LARMA phase of the study investigated the efficacy of Lisofylline and Respiratory Management.

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#### **Acute Respiratory Distress Network (ARDSNet) Studies 06 and 08 Prospective, Randomized, Multicenter Trial of Aerosolized Albuterol Versus Placebo for the Treatment of Acute Lung Injury (ALTA)**

Clinical Trial  
August 2007 – November 2008

Resources: [Data](#), [Bronchial Lavage](#), [DNA](#), [Plasma](#), [Urine](#)

ARDSNet-ALTA tested the hypothesis that an aerosolized beta-2-agonist, albuterol, would improve clinical outcomes in patients with ALI and ARDS.

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#### **Acute Respiratory Distress Network (ARDSNet) Studies 07 and 08 Prospective, Randomized, Blinded, Placebo-controlled, Multi-center Trial of Omega-3 Fatty Acid, Gamma-Linolenic Acid, and Anti-Oxidant Supplementation in the Management of Acute Lung Injury or Acute Respiratory Distress Syndrome (Omega)**

Clinical Trial  
12/2007 – 04/2009

Resources: [Data](#), [Bronchial Lavage](#), [DNA](#), [Plasma](#), [Urine](#)

ARDSNet-Omega investigated if dietary supplementation of omega-3 (n-3) fatty acids,  $\gamma$ -linolenic acid and antioxidants to patients with ALI would increase ventilator-free days to study day 28.

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#### **Acute Respiratory Distress Network (ARDSNet) Studies 07, 08, 09, 11, and 12 Early Versus Delayed Enteral Feeding to Treat People with Acute Lung Injury or Acute Respiratory Distress Syndrome (EDEN)**

Clinical Trial  
12/2007 – 5/2011

Resources: [Data](#), [Bronchial Lavage](#), [DNA](#), [Plasma](#), [Urine](#)

ARDSNet-EDEN tested if initial lower-volume trophic enteral feeding would increase ventilator-free days and decrease gastrointestinal intolerances compared with initial full enteral feeding in ALI patients.

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#### **Acute Respiratory Distress Network (ARDSNet) Studies 10 and 12 Statins for Acutely Injured Lungs from Sepsis (SAILS)**

Clinical Trial  
2010 - 2013

Resources: [Data](#), [DNA](#), [Plasma](#), [Urine](#)

ARDSNet-SAILS assessed the efficacy and safety of oral rosuvastatin in patients with sepsis-induced ALI and test the hypothesis that rosuvastatin therapy would improve the clinical outcomes of critically ill patients with sepsis-associated ARDS.

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[Acute Respiratory Distress Network \(ARDSNet\) Study 02 Late Steroid Rescue Study \(LaSRS\)](#)

Clinical Trial  
1997-2003

Resources: [Data](#), [BAL Slides](#), [Bronchial Lavage](#), [Plasma](#)

ARDSNet-LASRS tested the effects of methylprednisolone, a corticosteroid, compared to placebo, on mortality at 60 days in patients with persistent ARDS.

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[Acute Respiratory Distress Network \(ARDSNet\) Study 04 Assessment of Low tidal Volume and elevated End-expiratory volume to Obviate Lung Injury \(ALVEOLI\)](#)

Clinical Trial  
1999-2002

Resources: [Data](#), [DNA](#), [Plasma](#)

ARDSNet-ALVEOLI compared clinical outcomes of patients with ALI and ARDS treated with a higher end-expiratory lung volume/lower FiO2 versus a lower end-expiratory lung volume/higher FiO2 ventilation strategy.

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[Acute Respiratory Distress Network \(ARDSNet\) Study 05 Fluid and Catheter Treatment Trial \(FACTT\)](#)

Clinical Trial  
2000-2005

Resources: [Data](#), [DNA](#), [Plasma](#), [Serum](#)

ARDSNet-FACTT evaluated the benefits and risks of Pulmonary Artery Catheters (PACs) in patients with established ALI by comparing hemodynamic management guided by a PAC with hemodynamic management guided by a central venous catheter.

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**Asthma Clinical Research Network (ACRN) Resources**

ACRN was initiated to perform multiple controlled clinical trials for treating patients with asthma.

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[Asthma Clinical Research Network \(ACRN\) Beta Adrenergic Response by Genotype \(BARGE\)](#)

Clinical Trial  
1993-2008

Resources: [Data only](#)

ACRN-BARGE examined the use of regularly scheduled albuterol treatment in asthma, in a genotype-stratified, randomized, placebo-controlled cross-over trial in patients with mild asthma.

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[Asthma Clinical Research Network \(ACRN\) Beta Agonist in Mild Asthma Study \(BAGS\)](#)

Clinical Trial  
1994-1996

Resources: [Data only](#)

ACRN-BAGS tested the hypothesis that in patients with mild asthma, whose only asthma treatment is inhaled Beta-agonists, addition of regular inhaled Beta-agonist treatment to treatment on an "as needed only" basis will result in no effect on asthma control.

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[Asthma Clinical Research Network \(ACRN\) Colchicine In Moderate Asthma \(CIMA\)](#)

Clinical Trial  
February 1996 - June 1996

Resources: [Data only](#)

ACRN-CIMA tested the therapeutic benefit of colchicine as measured by maintenance of control when inhaled steroids are discontinued in patients with moderate asthma.

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[Asthma Clinical Research Network \(ACRN\) Dose of Inhaled Corticosteroids with Equisystemic Effects \(DICE\)](#)

Clinical Trial  
1998-1999

Resources: [Data only](#)

ACRN-DICE aimed to establish a reliable method to evaluate systemic bioavailability and to determine equisystemic effects in inhaled corticosteroids.

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[Asthma Clinical Research Network \(ACRN\) IMProving Asthma Control Trial \(IMPACT\)](#)

Clinical Trial  
May 2000 - May 2003

Resources: [Data only](#)

ACRN-IMPACT evaluated the efficacy of intermittent short-course corticosteroid treatment guided by a symptom-based action plan alone or in addition to daily treatment with either inhaled budesonide or oral zafirlukast over a one-year period.

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**Asthma Clinical Research Network (ACRN) Measuring Inhaled Corticosteroid Efficacy (MICE)**

Clinical Trial  
1999-2000

Resources: [Data only](#)

ACRN-MICE compared the relative beneficial and systemic effects in a dose-response relationship for two inhaled corticosteroids: beclomethasone dipropionate and fluticasone propionate.

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**Asthma Clinical Research Network (ACRN) Predicting Response to Inhaled Corticosteroid Efficacy (PRICE)**

Clinical Trial  
June 2003 - September 2004

Resources: [Data only](#)

ACRN-PRICE evaluated potential biomarkers of predicting short-term response to inhaled corticosteroid with subsequent evaluation of responders and non-responders to asthma control over a longer interval.

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**Asthma Clinical Research Network (ACRN) Salmeterol Off Corticosteroids (SOCS) and Salmeterol Inhaled Corticosteroids (SLIC)**

Clinical Trial  
1997-1999

Resources: [Data only](#)

ACRN-SOCS and ACRN-SLIC were concurrently managed clinical trials that investigated whether inhaled corticosteroid therapy can be reduced or eliminated in patients with persistent asthma after adding a long-acting beta 2-agonist to their treatment regimen.

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**Asthma Clinical Research Network (ACRN) Salmeterol and Leukotriene Modifiers vs. Salmeterol and ICS Treatment (SLIMSIT)**

Clinical Trial  
2003-2004

Resources: [Data only](#)

ACRN-SLiMSIT evaluated the clinical efficacy of regular asthma treatment with the combination of a leukotriene receptor antagonist (montelukast) and a long-acting beta-agonist (salmeterol).

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**Asthma Clinical Research Network (ACRN) Smoking Modulates Outcomes of Glucocorticoid Therapy in Asthma (SMOG)**

Clinical Trial  
2002 - 2004

Resources: [Data only](#)

ACRN-SMOG evaluated if the response to an inhaled corticosteroid or a leukotriene receptor antagonist is attenuated in individuals with asthma who smoke.

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**Asthma Clinical Research Network Trial (ACRN) - Best Adjustment Strategy for Asthma in Long Term (BASALT) and Tiotropium Bromide as an Alternative to Increased Inhaled Corticosteroid in Patients Inadequately Controlled on a Lower Dose of Inhaled Corticosteroid (TALC)**

Clinical Trial  
June 2007 - July 2010 (BASALT) | May 2008 - May 2010 (TALC)

Resources: [Data only](#)

ACRN-BASALT investigated if adjustment of inhaled corticosteroid therapy based on exhaled nitric oxide or day-to-day symptoms is superior to guideline-informed, physician assessment-based adjustment in preventing treatment failure in adults with mild to moderate asthma. ACRN-TALC examined the effectiveness of the medication tiotropium bromide combined with a low dose of inhaled corticosteroid at maintaining asthma control in people with moderately severe asthma.

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**Asthma Clinical Research Network Trial (ACRN) - Long-Acting Beta Agonist Response by Genotype (LARGE)**

Clinical Trial  
December 2004 - February 2008

Resources: [Data only](#)

ACRN-LARGE evaluated whether regularly scheduled use of an inhaled long-acting beta agonist (salmeterol) in the setting of concomitant use of inhaled corticosteroids would have a detrimental effect on asthma control in people who bear the B16 Arg/Arg genotype of the beta-2 adrenergic receptor gene.

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**Asthma Clinical Research Network Trial (ACRN) - Macrolides in Asthma (MIA)**

Clinical Trial  
July 2006 - March 2009

Resources: [Data only](#)

ACRN-MIA tested the hypothesis that clarithromycin would improve asthma control in individuals with mild-to-moderate persistent asthma that was not well-controlled despite treatment with low-dose inhaled corticosteroids.

## AsthmaNet Resources

AsthmaNet is a nationwide clinical research network that developed and conducted multiple clinical trials that explore new approaches in treating asthma from childhood through adulthood.

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### [AsthmaNet Airway Microbiome in Asthma: Relationships to Asthma Phenotype and Inhaled Corticosteroid Treatment](#)

Clinical Trial  
Oct 2012 – July 2014  
Resources: [Data](#), [DNA](#), [Plasma](#)

The MICROBIOME study aimed to compare the bronchial bacterial microbiota in adults with steroid-naïve atopic asthma, with atopy but no asthma, and non-atopic healthy subjects; and to determine whether inhaled corticosteroid treatment alters bronchial microbial community composition in adults with asthma.

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### [AsthmaNet Azithromycin for Preventing the Development of Upper Respiratory Tract Illness Into Lower Respiratory Tract Symptoms in Children \(APRIL\) and Oral Corticosteroids for Treating Episodes of Significant Lower Respiratory Tract Symptoms in Children \(OCELOT\)](#)

Clinical Trial  
March 2011 – January 2015  
Resources: [Data](#), [DNA](#), [Plasma](#)

The APRIL study evaluated the early administration of azithromycin in preschool children with recurrent severe lower respiratory tract illnesses and found that it reduced the likelihood of severe illness. The OCELOT study assessed the efficacy of oral corticosteroids in decreasing the severity of symptoms of children whose episode progressed to recurrent severe wheezing, but the trial was prematurely terminated due to a lack of feasibility.

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### [AsthmaNet Best African American Response to Asthma Drugs \(BARD\)](#)

Clinical Trial  
February 2014 – July 2017  
Resources: [Data](#), [DNA](#), [Plasma](#), [RNA](#), [Sputum](#)

The BARD trials evaluated whether patients of African American heritage with inadequately controlled asthma benefit from the addition of a long-acting beta-agonist and/or increased glucocorticoids dosage in order to determine a preferred pharmacotherapy strategy in African American children, adolescents, and adults.

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### [AsthmaNet Individualized Therapy For Asthma in Toddlers \(INFANT\) and Acetaminophen Versus Ibuprofen in Children With Asthma \(AVICA\)](#)

Clinical Trial  
February 2013 – April 2015  
Resources: [Data](#), [DNA](#), [Plasma](#)

INFANT was designed to determine whether individual young children with mild persistent asthma responded better to one treatment than another and, if so, whether those children can be identified by phenotypic characteristics. AVICA compared the use of acetaminophen to the use of ibuprofen on asthma exacerbations among young children with mild persistent asthma.

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### [AsthmaNet Proof of Concept Study of Alendronate for Asthma \(ALFA\)](#)

Clinical Trial  
January 2015 – September 2016  
Resources: [Data](#), [DNA](#), [Plasma](#)

ALFA aimed to determine whether alendronate can reduce long-acting beta-2-adrenergic receptor agonist-associated loss of bronchoprotection in inhaled corticosteroid-treated patients.

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### [AsthmaNet Step-up Yellow Zone Inhaled Corticosteroids to Prevent Exacerbations \(STICS\)](#)

Clinical Trial  
July 2014–April 2017  
Resources: [Data](#), [DNA](#), [Plasma](#)

AsthmaNet-STICS was a double-blind, parallel-group trial that assessed the efficacy and safety of increasing the dose of inhaled glucocorticoids by a factor of 5 for 7 days in school-age children with mild-to-moderate persistent asthma at the early signs of loss of asthma control.

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### [AsthmaNet Steroids in Eosinophil Negative Asthma \(SIENA\)](#)

Clinical Trial  
July 2014 – May 2018  
Resources: [Data](#), [DNA](#), [Plasma](#), [RNA](#), [Sputum](#)

SIENA was designed to compare an inhaled glucocorticoid with placebo and a long-acting muscarinic antagonist with placebo in patients with mild, persistent asthma, according to the patient's sputum eosinophil level at baseline.

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#### [AsthmaNet Vitamin D Add-on Therapy Enhances Corticosteroid Responsiveness in Asthma \(VIDA\)](#)

Clinical Trial  
April 2011 – January 2014  
**Resources:** [Data](#), [DNA](#), [Plasma](#), [RNA](#), [Sputum](#)

VIDA was designed to evaluate if vitamin D supplementation would improve the clinical efficacy of inhaled corticosteroids in patients with symptomatic asthma and lower vitamin D levels.

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#### [Broccoli Sprouts Extracts Trial \(BEST-COPD\)](#)

Clinical Trial  
September 2010-July 2013  
**Resources:** [Data only](#)

BEST-COPD aimed to establish a safe and tolerable dose of sulforaphane that effects in vivo antioxidants via Nrf2 for development as a potential novel treatment for patients with COPD.

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#### [Childhood Asthma Management Program \(CAMP\)](#)

Clinical Trial  
September 1991 – March 2012  
**Resources:** [Data only](#)

CAMP evaluated whether continuous, long-term treatment with either an inhaled corticosteroid or an inhaled noncorticosteroid drug safely produces an improvement in lung growth as compared with treatment for symptoms only. The three continuation studies extended follow-up of the clinical trial cohort for an additional 4.5, 3.75, and 4 years respectively to observe asthma progression.

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#### **Childhood Asthma Research and Education (CARE) Network Resources**

The CARE Network was created to conduct multiple, well-designed clinical trials for rapid evaluation of new and existing therapeutic approaches to asthma and to disseminate laboratory and clinical findings to the health care community.

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#### [Childhood Asthma Research and Education \(CARE\) Network Characterizing the Response to a Leukotriene Receptor Antagonist and an Inhaled Corticosteroid \(CLIC\)](#)

Clinical Trial  
January 2002-March 2003  
**Resources:** [Data only](#)

CARE-CLIC evaluated if response to inhaled corticosteroids and leukotriene receptor antagonists is similar in children with mild-to-moderate persistent asthma, or if children who do not respond to one medication respond to the other.

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#### [Childhood Asthma Research and Education \(CARE\) Network Trial - Acute Intervention Management Strategies \(AIMS\)](#)

Clinical Trial  
February 2004-November 2006  
**Resources:** [Data only](#)

The CARE-AIMS study compared the effectiveness of episodic use of an inhaled corticosteroid and a leukotriene receptor antagonist on reduction of morbidity in preschoolers with moderate-to-severe intermittent wheezing.

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#### [Childhood Asthma Research and Education \(CARE\) Network Trial - Best Add-On Therapy Giving Effective Response \(BADGER\)](#)

Clinical Trial  
March 2007-December 2011  
**Resources:** [Data only](#)

The CARE-BADGER study compared the effectiveness of a higher dose of inhaled corticosteroids (ICS), ICS combined with a long-acting beta-agonist medication, and ICS combined with a leukotriene receptor antagonist medication at reducing the impact and severity of asthma exacerbations that occur in children with mild to moderate persistent asthma.

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#### [Childhood Asthma Research and Education \(CARE\) Network Trial - Montelukast or Azithromycin for Reduction of Inhaled Corticosteroids in Childhood Asthma \(MARS\)](#)

Clinical Trial  
March 2006 – March 2007  
**Resources:** [Data only](#)

The CARE-MARS study aimed to determine if azithromycin or montelukast use would allow reduction of inhaled corticosteroids in children with moderate to severe persistent asthma.

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**Childhood Asthma Research and Education (CARE) Network Trial - Pediatric Asthma Controller Trial (PACT)**

Clinical Trial  
August 2002 – September 2004  
**Resources:** [Data only](#)

The CARE-PACT study was designed to determine whether, in children with mild to moderate persistent asthma, similar or greater asthma control could be obtained with a regimen of a LABA and half the dose of an ICS known to be effective compared to an ICS alone or a LTRA.

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**Childhood Asthma Research and Education (CARE) Network Trial - Prevention of Early Asthma in Kids (PEAK)**

Clinical Trial  
January 2001-September 2004  
**Resources:** [Data only](#)

The CARE-PEAK study investigated whether inhaled corticosteroids modified the subsequent development of asthma in preschool children at high risk for asthma.

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**Childhood Asthma Research and Education (CARE) Network Trial - Treating children to Prevent Exacerbations of Asthma (TREXA)**

Clinical Trial  
November 2006 to December 2011  
**Resources:** [Data only](#)

CARE TREXA assessed the effectiveness of inhaled corticosteroid (ICS) combinations for long term asthma control and exacerbations in pediatric patients.

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**Childhood Asthma Research and Education (CARE) Network Trial - Maintenance Versus Intermittent Inhaled Steroids in Wheezing Toddlers (MIST)**

Clinical Trial  
August 2008 – July 2010  
**Resources:** [Data only](#)

The CARE-MIST study aimed to determine whether a daily low-dose regimen of budesonide would be superior to an intermittent high-dose regimen in preschool aged children who had positive values on the modified asthma predictive index along with recurrent wheezing.

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**Clinical Study of Intermittent Positive Pressure Breathing (IPPB)**

Clinical Trial  
1976-1983  
**Resources:** [Data only](#)

IPPB evaluated the efficacy of long-term intermittent positive pressure breathing treatment when used as an adjunct to the overall care of ambulatory outpatients with chronic obstructive pulmonary disease as compared to use of a powered nebulizer.

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**Colchicine Coronavirus SARS-CoV2 Trial (COLCORONA)**

Clinical Trial  
March 2020 – January 2021  
**Resources:** [Data only](#)

The COLCORONA study aimed to investigate the effect of colchicine on the composite of COVID-19-related death or hospital admission in community-treated patients.

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**Effect of Positive Airway Pressure on Reducing Airway Reactivity in Patients With Asthma (CPAP)**

Clinical Trial  
July 2012 - October 2014  
**Resources:** [Data only](#)

CPAP evaluated whether 12 weeks of nocturnal CPAP use would decrease the concentration of methacholine necessary to reduce FEV1 by 20% (PC20) in asthma patients.

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**Effectiveness and Safety of Intermittent Antimicrobial Therapy for the Treatment of New Onset Pseudomonas Aeruginosa Airway Infection in Young Patients with Cystic Fibrosis (EPIC)**

Clinical Trial  
2004-2009  
**Resources:** [Data only](#)

EPIC investigated the efficacy and safety of four antipseudomonal treatments in children with cystic fibrosis with recently acquired Pseudomonas aeruginosa infection.

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### [High Frequency Ventilation in Premature Infants \(HIFI\)](#)

Clinical Trial

1984-1988

Resources: [Data only](#)

HIFI evaluated the hypothesis that high frequency oscillatory ventilation in preterm infants would reduce the incidence of mortality and pulmonary complications compared to conventional mechanical ventilation.

### **Idiopathic Pulmonary Fibrosis Network (IPFnet) Resources**

IPFnet is a network of research centers dedicated to the study of idiopathic pulmonary fibrosis (IPF).

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### [Idiopathic Pulmonary Fibrosis Network \(IPFnet\) AntiCoagulant Effectiveness in Idiopathic Pulmonary Fibrosis \(ACE IPF\)](#)

Clinical Trial

10/2009 – 7/2011

Resources: [Data only](#)

IPFnet-ACE IPF hypothesized that treatment with warfarin at recognized therapeutic doses would reduce rates of mortality, hospitalization, and declines in Forced Vital Capacity in subjects with IPF.

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### [Idiopathic Pulmonary Fibrosis Network \(IPFnet\) Prednisone, Azathioprine, and N-Acetylcysteine: A Study That Evaluates Response in Idiopathic Pulmonary Fibrosis \(PANTHER IPF\)](#)

Clinical Trial

10/2009 – 1/2014

Resources: [Data only](#)

IPFnet-PANTHER IPF evaluated the effectiveness of a drug combination of prednisone, azathioprine, and N-acetylcysteine in the treatment of mild-to-moderate IPF compared to N-acetylcysteine alone or placebo.

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### [Idiopathic Pulmonary Fibrosis Network \(IPFnet\) Sildenafil Trial of Exercise Performance in Idiopathic Pulmonary Fibrosis \(STEP IPF\)](#)

Clinical Trial

08/2007 – 10/2009

Resources: [Data only](#)

IPFnet-STEP IPF evaluated if treatment with sildenafil would improve walk distance, dyspnea, and quality of life in patients with advanced IPF.

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### [Individualized Comparative Effectiveness of Models Optimizing Patient Safety and Resident Education \(iCOMPARE\)](#)

Clinical Trial

July 2015 – December 2016

Resources: [Data only](#)

The iCOMPARE trial aimed to compare all-cause mortality of patients cared for by trainees in internal-medicine residency programs with either standard duty hours or flexible duty hours. The Time and Motion substudy additionally aimed to determine the amount of time trainees spend on direct patient care and education. The Sleep and Alertness substudy aimed to determine the sleepiness of trainees.

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### [Long-term Oxygen Treatment Trial \(LOTT\)](#)

Clinical Trial

January 2009- August 2015

Resources: [Data only](#)

LOTT evaluated the efficacy of long-term treatment with supplemental oxygen in patients with stable chronic obstructive pulmonary disease (COPD) and resting or exercise-induced moderate desaturation.

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### [Longitudinal Studies of HIV-Associated Lung Infections and Complications \(Lung HIV\)](#)

Epidemiology Study

September 2007 – June 2012

Resources: [Data only](#)

Lung HIV was an initiative established to expedite the data and specimen collection results of eight different HIV and pulmonary studies operated under NHLBI. The project used these existing studies to create a foundation for future research and provide further insight on the relationship between pulmonary disease and HIV infection.



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#### **Losartan Effects on Emphysema Progression (LEEP)**

Clinical Trial  
May 2017 - June 2021  
Resources: [Data only](#)

The LEEP study was initiated to evaluate the efficacy of the angiotensin receptor blocker losartan on reducing the progression of emphysema in participants with COPD and mild to moderate emphysema.

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#### **Lung Health Study (LHS)**

Clinical Trial  
1984-2005  
Resources: [Data only](#)

LHS examined the effects of Special Care, compared to Usual Care, on rate of decline in pulmonary function in cigarette smokers. Additionally, the study examined if participants with chronic obstructive pulmonary disease (COPD), who were assigned to inhaled corticosteroids had a lower rate of decline in lung function and lower incidence of respiratory morbidity. The study also evaluated the long-term effects of smoking cessation and continued smoking in subjects with early COPD.

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#### **Lung Tissue Research Consortium (LTRC)**

Epidemiology Study  
March 2005 - February 2019  
Resources: [Data](#), [DNA](#), [Plasma](#), [Serum](#), [Tissue - FFPE Cassettes](#), [Tissue - RNALater Frozen](#), [Tissue - Snap Frozen](#)

The LTRC was a biobank resource that collected lung tissue, blood samples, clinical data, and radiographic studies from participants with chronic obstructive pulmonary disease, idiopathic pulmonary fibrosis, other related idiopathic interstitial pneumonias and interstitial pneumonias associated with connective tissue diseases who undergo medically-indicated lung resection.

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#### **National Emphysema Treatment Trial (NETT)**

Clinical Trial  
1996-2005  
Resources: [Data only](#)

NETT compared lung-volume-reduction surgery with medical therapy for severe emphysema, and identified patient selection criteria for lung volume reduction surgery. The current release of the NETT study dataset includes follow-up data through May of 2013.

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#### **New Data Analysis Methods for Actigraphy in Sleep Medicine (MASM)**

Epidemiology Study  
July 2009 - November 2011  
Resources: [Data only](#)

MASM measured activity data in subjects with sleep disorders or restless leg syndrome in order to define an object oriented data model for large activity datasets and patient level data, and apply existing and new advanced statistical and visualization methods for activity data.

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#### **Novel Influenza A Surveillance Registry (H1N1)**

Epidemiology Study  
October 2009 - October 2010  
Resources: [Data only](#)

H1N1 aimed to characterize the demographics, clinical features, outcomes, and resource utilization of patients with H1N1 influenza infection who require intensive care.

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#### **Patient Registry for Primary Pulmonary Hypertension (PPH Registry)**

Epidemiology Study  
1994-1999  
Resources: [Data only](#)

The PPH Registry evaluated the natural history, etiology, pathogenesis and treatment of primary pulmonary hypertension.

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#### **Pediatric Pulmonary and Cardiovascular Complications of Vertically Transmitted HIV Infection (P2C2)**

Epidemiology Study  
May 1989 - March 2003  
Resources: [Data](#), [Serum](#)

P2C2 aimed to determine the prevalence and natural history of pulmonary and cardiac complications associated with HIV infection in utero, in infancy, and during early childhood.

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## **Prematurity and Respiratory Outcomes Program (PROP) Core Database Protocol**

Epidemiology Study  
August 2011 – March 2016  
**Resources:** [Data only](#)

PROP aimed to identify suitable predictors of respiratory outcomes that may serve as surrogate endpoints in future trials of prevention and therapy of respiratory diseases in preterm infants.

### **Prevention and Early Treatment of Acute Lung Injury (PETAL) Resources**

The PETAL Network was formed to develop and conduct randomized controlled clinical trials to prevent Acute Respiratory Distress Syndrome (ARDS) or provide early treatment to improve the outcome of patients who have ARDS.

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#### **Prevention and Early Treatment of Acute Lung Injury (PETAL) Acetaminophen in Sepsis: Targeted Therapy to Enhance Recovery (ASTER)**

Clinical Trial  
10/2021 – 7/2023  
**Resources:** [Data](#), [Plasma](#), [Urine](#), [Whole Blood](#)

The PETAL-ASTER study assessed the utility of plasma cell-free hemoglobin level as a biomarker for future sepsis trials and whether acetaminophen would increase the number of days alive and free of organ support for patients with sepsis and respiratory or circulatory organ dysfunction.

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#### **Prevention and Early Treatment of Acute Lung Injury (PETAL) Crystalloid Liberal or Vasopressors Early Resuscitation in Sepsis (CLOVERS)**

Clinical Trial  
March 2018 – January 2023  
**Resources:** [Data](#), [Plasma](#), [Whole Blood](#)

The PETAL-CLOVERS study compared the effects of a restrictive fluid strategy (with early use of vasopressors) to a liberal fluid strategy in patients with sepsis-induced hypotension.

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#### **Prevention and Early Treatment of Acute Lung Injury (PETAL) Network - Low Tidal Volume Universal Support Feasibility of Recruitment for Interventional Trial (LOTUS FRUIT)**

Epidemiology Study  
July 2016 – October 2016  
**Resources:** [Data only](#)

PETAL-LOTUS FRUIT conducted a prospective, observational study of patients with acute respiratory failure to assess the feasibility for a cluster-randomized trial of low-tidal volume ventilation versus usual care in patients with acute respiratory failure.

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#### **Prevention and Early Treatment of Acute Lung Injury (PETAL) Network - Outcomes Related to COVID-19 treated with Hydroxychloroquine among In-patients with symptomatic Disease (ORCHID)**

Clinical Trial  
April 2020 – July 2020  
**Resources:** [Data only](#)

The PETAL-ORCHID trial evaluated whether hydroxychloroquine is an efficacious treatment for adults hospitalized with COVID-19, with findings that did not support the use of this treatment.

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#### **Prevention and Early Treatment of Acute Lung Injury (PETAL) Network - Repository of Electronic Data COVID-19 Observational Study (RED CORAL)**

Epidemiology Study  
March 2020 – June 2020  
**Resources:** [Data only](#)

The objective of PETAL-RED CORAL was to collect data for investigation of demographics, clinical characteristics, risk factors, care practices, outcomes and resource utilization of adult patients hospitalized with severe acute COVID-19.

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#### **Prevention and Early Treatment of Acute Lung Injury (PETAL) Network - Biology and Longitudinal Epidemiology of PETAL COVID-19 Observational Study (BLUE CORAL)**

Epidemiology Study  
June 2020 to March 2022  
**Resources:** [Data](#), [Bronchial Lavage](#), [Plasma](#), [Tracheal Aspirate](#), [Urine](#), [Whole Blood](#)

The BLUE CORAL study measured the incidence and changes over time in symptoms, disability, and financial status after COVID-19-related hospitalization to address the knowledge gaps and provide critical data to help guide clinical care, public health, and scientific efforts.

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**[Prevention and Early Treatment of Acute Lung Injury \(PETAL\) Network - Functional, imaging, and respiratory evaluation in CORAL \(FIRE CORAL\)](#)**

Epidemiology Study  
June 2021 to May 2022

Resources: [Data](#), [Plasma](#), [Whole Blood](#)

The FIRE CORAL study examined the recovery from COVID-19 disease following acute hospitalization with an emphasis on functional, imaging, and respiratory evaluation, and assessed the feasibility of conducting a larger study to evaluate variables associated with differential recovery.

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**[Prevention and Early Treatment of Acute Lung Injury \(PETAL\) Network - Reevaluation of Systemic Early Neuromuscular Blockade \(ROSE\)](#)**

Clinical Trial  
January 2016 – April 2019

Resources: [Data](#), [DNA](#), [Plasma](#), [Urine](#), [Whole Blood](#)

The goal of PETAL-ROSE was to determine the efficacy and safety of early neuromuscular blockade with concomitant heavy sedation as compared with a strategy of usual care with lighter sedation targets in patients with moderate-to-severe ARDS.

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**[Prevention and Early Treatment of Acute Lung Injury \(PETAL\) Network - Vitamin D to Improve Outcomes by Leveraging Early Treatment \(VIOLET\)](#)**

Clinical Trial  
April 2017 – December 2018

Resources: [Data](#), [Plasma](#), [Whole Blood](#)

The PETAL-VIOLET study was initiated to evaluate the effect of short-term vitamin D supplementation on mortality among critically ill patients with a vitamin D deficiency.

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**[Prospective Investigation of Pulmonary Embolism Diagnosis \(PIOPED\)](#)**

Clinical Trial  
1983-1989

Resources: [Data only](#)

PIOPED examined the sensitivities and specificities of ventilation/perfusion lung scans for acute pulmonary embolism.

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**[Proteomic biomarkers of progressive fibrosing interstitial lung disease: a multicentre cohort analysis \(PF-ILD Proteomics\)](#)**

Epidemiology Study  
2006 – 2021

Resources: [Data only](#)

PF-ILD Proteomics was initiated to identify novel plasma biomarkers of progressive fibrosing interstitial lung disease and develop a proteomic signature to predict this phenotype.

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**[Pulmonary Complications of HIV Infection Study \(PACS\)](#)**

Epidemiology Study  
1987-1997

Resources: [Data only](#)

PACS evaluated the types, incidence, course, and outcome of pulmonary disorders in newly diagnosed cases of AIDS, newly diagnosed cases of AIDS-related complex and newly diagnosed asymptomatic HIV infection.

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**[Randomized Evaluation of Sedation Titration for Respiratory Failure \(RESTORE\)](#)**

Clinical Trial  
January 2009 – December 2013

Resources: [Data only](#)

RESTORE evaluated whether critically ill children managed with a nurse-implemented, goal-directed sedation protocol would experience fewer days of mechanical ventilation than patients receiving usual care.

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**[Randomized Order Safety Trial Evaluating Resident-physician Schedules Study \(ROSTERS\)](#)**

Clinical Trial  
July 2013 – March 2017

Resources: [Data only](#)

The ROSTERS study evaluated whether implementation of a schedule that eliminated shifts  $\geq 24$  hours for resident-physicians would result in improved patient safety.

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**[Study of Asthma and Nasal Steroids \(STAN\)](#)**

Clinical Trial  
September 2010 – June 2015

Resources: [Data only](#)

STAN tested whether treatment of chronic sinonasal disease with nasal corticosteroids improves asthma control in children and adults.

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#### **Study of Clinical Efficacy of Antimicrobial Therapy Strategy Using Pragmatic Design in Idiopathic Pulmonary Fibrosis (CleanUP IPF)**

Clinical Trial  
March 2017 – March 2020  
Resources: [Data only](#)

CleanUP IPF investigated whether the addition of antimicrobial treatments improves outcomes compared to usual care alone among patients with idiopathic pulmonary fibrosis.

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#### **Subpopulations and Intermediate Markers in COPD Study (SPIROMICS)**

Epidemiology Study  
November 2010 – July 2018  
Resources: [Data](#), [Bronchial Lavage](#), [Bronchial Wash](#), [Oral Wash \(Saline\)](#), [Plasma](#), [Serum](#), [Sputum](#), [Urine](#)

SPIROMICS sought to identify homogeneous subgroups of chronic obstructive pulmonary disease patients for targeted enrollment in future therapeutic clinical trials, as well as to identify and conduct preliminary validation of intermediate biological or clinical outcomes for use as clinical trial endpoints.

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#### **The Lung HIV Microbiome Project (LHMP)**

Epidemiology Study  
October 2009 – November 2015  
Resources: [Bronchial Lavage](#), [Oral Wash \(Saline\)](#), [Peripheral Blood Mononuclear Cells](#), [Plasma](#)

LHMP brought the distinct efforts of six clinical centers together under a single infrastructure, creating a collaborative network. The goals of the project were to characterize the microbiome of the lung and respiratory tract, and enhance understanding of the role of the lung microbiome in preserving health or causing disease and in the divergent effects observed in HIV-infected versus uninfected individuals.

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#### **The Study of Soy Isoflavones in Asthma (SOYA)**

Clinical Trial  
March 2010 – August 2012  
Resources: [Data only](#)

SOYA evaluated whether participants with poorly controlled asthma would have improved asthma control and lung capacity when prescribed a soy isoflavone supplement versus a placebo.

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#### **Trial of Late Surfactant for Prevention of Bronchopulmonary Dysplasia: A Study in Ventilated Preterm Infants Receiving Inhaled Nitric Oxide (TOLSURF)**

Clinical Trial  
January 2010-July 2015  
Resources: [Data only](#)

TOLSURF assessed whether late surfactant treatment in extremely low gestational age newborn infants requiring ventilation at 7-14 days would safely improve survival without bronchopulmonary dysplasia.

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#### **Trial of Roflumilast in Asthma Management (TRIM)**

Clinical Trial  
August 2018-July 2021  
Resources: [Data only](#)

The TRIM study investigated the efficacy of roflumilast for the treatment of poorly controlled asthma in people with obesity. While roflumilast increased risk of asthma exacerbation, weight loss of at least 5% was associated with improved asthma control.

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#### **Weighing Risks and Benefits of Laparoscopic Anti-Reflux Surgery in Patients With Idiopathic Pulmonary Fibrosis (WRAP-IPF)**

Clinical Trial  
December 2013 – November 2017  
Resources: [Data only](#)

WRAP-IPF was a multicenter randomized clinical trial designed to determine if the reduction of abnormal gastro-esophageal reflux with laparoscopic anti-reflux surgery will slow the progression of idiopathic pulmonary fibrosis as measured by forced vital capacity.