

An extensive bundle of tests is needed to detect treatable causes of bronchiectasis (Bx)

E Franceschi¹, S Aliberti¹, M Seia², L Porcaro², V Bianchi³, E Consalvo⁴, A Corsico⁵, I Ferrarotti⁶, M Gaffuri⁶, L Roncoroni⁶, B Vigone⁷, A Gramegna⁸, M Contarini⁹, F Amati⁹, N Borsa¹, F Nava¹, N Vanoni¹, A Bellofiore¹, C Del Monaco¹, L Terranova⁹, M Oriano¹, L Cariani⁹, F Caprioli¹⁰, M Nosotti¹¹, F Blasi¹²

¹Department of Pathophysiology and Transplantation, University of Milan; Internal Medicine Department, Respiratory Unit and Cystic Fibrosis Adult Center, Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy

²Medical Genetics Laboratory, Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy

³Clinical Genetics Unit, Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy

⁴Cystic Fibrosis Centre, Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, University of Milan, Milan, Italy

⁵Department of Internal Medicine and Therapeutics, University of Pavia; Center for Diagnosis of Inherited Alpha1-antitrypsin Deficiency, IRCCS San Matteo Hospital Foundation, Pneumology Unit, Pavia, Italy

⁶Department of Otolaryngology and Head and Neck Surgery, Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy; Department of Clinical Sciences and Community Health, University of Milan, Milan, Italy

⁷Scleroderma Unit, Referral Center for Systemic Autoimmune Diseases, Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico di Milano, Milan, Italy

⁸Pediatric Highly Intensive Care Unit, Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Department of Clinical Sciences and Community Health University of Milan, Milan, Italy

⁹UOS Microbiology and Cystic Fibrosis Microbiology, Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy

¹⁰Department of Pathophysiology and Transplantation, University of Milan; Gastroenterology and Endoscopy Unit, Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy

¹¹Department of Pathophysiology and Transplantation, University of Milan; Thoracic Surgery and Lung Transplantation Unit, Ca' Granda Foundation Ospedale Maggiore Policlinico, Milan, Italy

Introduction: International guidelines suggest a limited bundle of tests to investigate Bx etiology. We aimed to evaluate an extensive bundle performed on every patient to increase the chances to identify a treatable etiology.

Methods: A prospective, observational study was conducted at Policlinico Hospital in Milan, Italy, from 2014 to 2017. All consecutive adults with Bx underwent the following tests: CBC, Aspergillus IgG and IgE, serum electrophoresis, sweat test and genetics for cystic fibrosis, immunoglobulins, IgG subclasses, lymphocytes subsets, nasal NO, autoantibodies, serum level and genetics for alpha1-antitrypsin deficiency (AATD). Bx etiologies identified based on the results of this extensive bundle were compared to etiologies identified based on the results of tests suggested by the BTS 2010 guidelines. Treatable etiologies were considered according to Lonni (Ann Am Thorac Soc 2015).

Results: 125 Bx patients (74% female, median age 65 years) were enrolled. Following the extensive bundle of test, a decrease in both idiopathic (50% vs. 62%) and post-infective Bx (8% vs. 10%), and an increase in Bx due to any immunodeficiency (18% vs. 4%, $p < 0.001$), IgG subclass (14% vs 0%, $p < 0.001$) and secondary immunodeficiency (8% vs. 3%), as well as AATD (2.4% vs 0.8%), were found in comparison to the BTS2010 bundle. Using this extensive bundle of tests the percentage of patients with a treatable etiology was more than double in comparison to what could have been found using the BTS 2010 bundle (37% vs. 17%, $p < 0.001$).

Conclusion: Physicians should consider an extensive bundle of tests to evaluate the etiology of the disease in every Bx patient regardless her/his characteristics.

Session:

New methods for diagnosing and treating lung diseases (Oral presentation)

Date/Time:

Monday, September 17, 2018 / 14:45-16:45

Room:

7.3B

Category:

Clinical Problems - Not related to Asthma or COPD

Keywords:

Diagnosis, Treatments, Adults

16:15 **Targeting the microbiome in chronic lung disease**
Debby Bogaert (Edinburgh, United Kingdom)

3264

7.31B

Session 339

14.45 - 16.45

Oral presentation: New methods for diagnosing and treating lung diseases

Disease(s) : Respiratory infections Airway diseases Interstitial lung diseases Respiratory infections

Method(s) : Imaging Surgery Physiology Epidemiology Cell and molecular biology General respiratory patient care

Chairs : Alfredo Chetta (Parma (PR), Italy), Philippe Camus (Dijon, France)

OA3265 **Late Breaking Abstract - Use of mepolizumab in bronchiectasis with underlying eosinophilic condition**
Jessica Rademacher (Hannover, Germany), Stefanie Konwert, Jan Fuge, Tobias Welte, Felix C. Ringshausen

OA3266 **Does the sonographic presence and severity of pleural fluid septation have an impact on clinical outcomes in pleural infection? - Data from the Pleural Infection Longitudinal Outcome Study (PILOT)**
John Corcoran (Oxford, United Kingdom), Ioannis Psallidas, Stephen Gerry, Nick Maskell, Robert Miller, Najib Rahman

OA3267 **Proinflammatory cytokine IL-6 detetion in severe COPD patients: Focus on roflumilast**
Iryna Savelikhina (Ivano-Frankivsk, Ukraine), Mykola Ostrovskyy, Kseniia Ostrovska, Mariana Kulynych-Miskiv, Oleksandr Varunkiv

OA3268 **To the diagnosis of primary ciliary dyskinesia without situs inversus**
Vyacheslav Kobylansky (Moscow, Russian Federation), Elena Bragina

OA3269 **The development and validation of a Quality of Life questionnaire for those with Inducible Laryngeal Obstruction**
Lucy Bassil (Bedford (Bedfordshire), United Kingdom), Nicola Pargeter, Jodie Fellows, Catherine Maskell, Ruth Howard, Adel Mansur

OA3270 **An extensive bundle of tests is needed to detect treatable causes of bronchiectasis (Bx)**
Elisa Franceschi (Milano (MI), Italy), Stefano Aliberti, Manuela Seia, Luigi Porcaro, Vera Bianchi, Enza Consalvo, Angelo Corsico, Iaria Ferrarotti, Michele Gaffuri, Luca Roncoroni, Barbara Vigone, Andrea Gramegna, Martina Contarini, Francesco Amati, Noemi Borsa, Fabrizio Nava, Nicolò Yanoni, Angela Bellofiore, Cesare Del Monaco, Leonardo Terranova, Martina Oriano, Lisa Cariani, Flavio Caprioli, Mario Nosotti, Francesco Blasi

OA3271 **High flow nasal cannula use on respiratory inpatients: Identifying patient groups and outcomes to guide optimal future use.**
Thomas Nicholson (Oxford (Oxfordshire), United Kingdom), Louise Channon, Harriet Williams, Mitra Shahidi

OA3272 **Physiological mechanisms of exertional dyspnea relief following bariatric surgery for severe obesity**
Amar Mainra (Montréal (QC), Canada), Sara Abdallah, Ryan Reid, Ross Andersen, Dennis Jensen

7.32Z

Session 340

14.45 - 16.45

Oral presentation: Molecular mechanisms and treatment of pulmonary hypertension

Disease(s) : Pulmonary vascular diseases Interstitial lung diseases

Method(s) : General respiratory patient care Physiology Cell and molecular biology

Chairs : Christophe Guignabert (Paris, France), Chair to be confirmed

OA3273 **Late Breaking Abstract - MIF inhibition in a murine model of bleomycin-induced lung fibrosis**
Sven Günther (Le Kremlin-Bicêtre, France), Thong Hua, Carole Nicco, Amélie Cumont, Raphaël Thuillet, Ly Tu, Jennifer Bordenave, Thomas Guilbert, Frédéric Batteux, Marc Humbert, Christophe Guignabert, Anh-Tuan Dinh-Xuan

OA3274 **Late Breaking Abstract - NGF induces pulmonary arterial hyperreactivity through increased connexin-43 expression: potential role in pulmonary hypertension**
Veronique Freund-Michel (BORDEAUX Cedex, France), Matthieu Douard, Paul Robillard, Juliette Deweirdt, Isabelle Baudrimont, Mathilde Dubois, Roger Marthan, Jean-Pierre Savineau, Bernard Muller, Christelle Guibert

OA3275 **Late Breaking Abstract - Molecular mechanisms involved in early stage of pulmonary hypertension: experimental study**
Francis Pacagnelli (Santo Anastácio, Brazil), Ana Paula Freire, Ana Karenina Sabela, Sarah Cury, Robson Carvalho, Thaoan Mariano, Yudney Motta, Antônio Cicogna, Katashi Okoshi

OA3276 **Late Breaking Abstract - Chronic Hypoxia Promotes Pulmonary Venous Smooth Muscle Cells Proliferation by Upregulating Calcium Sensing Receptor**
Gongyong Peng (Guangzhou (Guangdong), China), Shaoxing Li, Wei Hong, Juan Xu, Rongmin Liu, Bing Li, Pixian Ran





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