42nd European Cystic Fibrosis Conference,
5 - 8 June 2019,
Liverpool, United Kingdom

Scientific Programme

Wednesday, 05 June 2019

14:30 - 17:00 Room 11 (ABC)

Physiotherapy Case Presentations

Peter Suter (Basel, Switzerland)
Marta Kerstan (Biberstein, Switzerland)

Satellite Symposium
16:00 - 17:30 Hall 1C

Satellite Symposium

Please find the detailed program of the Satellite Symposia here.

Opening Plenary
18:30 - 20:00 Hall 1A

Opening Plenary

Isabelle Fajac (Paris, France)
Jane Davies (London, United Kingdom)
Kevin Southern (Liverpool, United Kingdom)
Craig Winstanley (Liverpool, United Kingdom)
Dame Janet Beer

Welcome Address
Isabelle Fajac (Paris, France)

Welcome Address
Dame Janet Beer

Welcome Address
Jane Davies (London, United Kingdom)

30 years since the CFTR gene description
Jane Davies (London, United Kingdom)

Presentation of the ECFS Award

ECFS Award Lecture
Stuart Elborn (Belfast, United Kingdom)

Presentation of the Gerd Döring Award

Scientific Programme

Presentation of the CFE Advocacy Award

Welcome Reception
20:00 - 21:30 ECFS Tomorrow Lounge

Welcome Reception

ECFS Tomorrow Session
20:00 - 21:00 ECFS Tomorrow Lounge

Meet & Greet

Scientific Programme

Thursday, 06 June 2019

Satellite Symposium
07:15 - 08:15 Hall 1B

Satellite Symposium

Please find the detailed program of the Satellite Symposia here.

Symposium
08:30 - 10:00 Hall 1A

S01, Strategy plan to speed up access to new drugs

Jane Davies (London, United Kingdom)
Preston Campbell (Bethesda, United States)

Understanding regulatory process **08:30 - 08:52**
Anthony Durmowicz (Bethesda, United States)

Ex vivo predicted modelling **08:52 - 09:14**
Margarida Amaral (Lisbon, Portugal)

Clinical trial design **09:14 - 09:36**
Tim Lee (Leeds, United Kingdom)

Post-approval access / challenges **09:36 - 10:00**
Pavel Drevinek (Prague, Czech Republic)

Symposium
08:30 - 10:00 Room 3 (AB)

S02, Pseudomonas genomics – how can we use it clinically?

This session will:

- Enable detailed knowledge of the global population genomics, transmission, surveillance and detection of *P. aeruginosa* in people with CF
- Enable clinicians and basic scientists to understand how *P. aeruginosa* evolves and adapts to the lung environment
- Discuss how knowledge of *P. aeruginosa* genomics can be used within a clinical setting

Barbara Kahl (Münster, Germany)
Joanne Fothergill (Liverpool, United Kingdom)

Global population genomics, transmission and surveillance **08:30 - 08:52**
Craig Winstanley (Liverpool, United Kingdom)

Pathogenesis, evolution and adaption to the lung **08:52 - 09:14**
Marvin Whiteley (Atlanta, United States)

Scientific Programme

Real time diagnostics for Pseudomonas **09:14 - 09:36**
Lucas Hoffman (Seattle, United States)

Making clinically relevant predictions **09:36 - 10:00**
Rasmus Lykke Marvig (Lyngby, Denmark)

Symposium
08:30 - 10:00 Room 11 (ABC)

S03, From the CFTR gene to real life - "Yesterday"

This session will provide an update on the role of non-CFTR genes in the development of cf complications and on the pros and cons of screening them; new data on cftr mutation distribution in so far poorly studied areas; information on development plans of the CFTR2 project; and a discussion on the use of modulators in CFTR-rds

Harriet Corvol (Paris, France)
Carlo Castellani (Genoa, Italy)

The emmergence of cystic fibrosis in the human race **08:30 - 08:52**
Philip Farrell (Madison, United States)

Genetic screening in the melting pot - more data from more countries **08:52 - 09:14**
Milan Jr Macek (Prague, Czech Republic)

The impact of CFTR2 on diagnosis; an ongoing project? **09:14 - 09:36**
Karen Raraigh (Baltimore, United States)

CFTR modulators for people with CFTR related disorders - the dilemma **09:36 - 10:00**
Isabelle Durieu (Lyon, France)

Symposium
08:30 - 10:00 Hall 2E

S04, New drugs, new identities

Learning Objectives:

- to critically evaluate the issues that people with CF experience as a result of managing multiple Medicines
- to explore the impact of chronic illness and new therapies on identity formation
- to critically discuss the issues challenges of equity and rationing of new therapies in CF and effects on the CF community

Pavla Hodkova (Prague, Czech Republic)
Samantha K. Phillips (Bristol, United Kingdom)

Managing polypharmacy: opportunites and pitfalls **08:30 - 08:52**
Douglas McCabe (Edinburgh, United Kingdom)

Identity and chronic illness **08:52 - 09:14**
Anna McCulloch (Penarth, United Kingdom)

New drugs and the impact on identity for people with cystic fibrosis **09:14 - 09:36**
Ulrike Smrekar (Innsbruck, Austria)

Scientific Programme

I'm European, why can't I get new therapies, do I need to move country? **09:36 - 10:00**
Dragan Djurovic (Belgrade, Suriname)

Symposium
08:30 - 10:00 Hall 1B

S05, Cystic Fibrosis Liver Disease -"Yellow Submarine"

Cystic Fibrosis Liver Disease remains a diagnosis of exclusion, follow-up of the evolution difficult and treatment options limited to transplantation. With increasing life expectancy this CF complication often diagnosed in childhood, might become an issue in adulthood.
This session gives an update on new imaging techniques that enable diagnosis and follow up of liver disease. Further on, an overview of the current and future treatment options will be elaborated.

Stephanie Van Biervliet (Ghent, Belgium)
Indra van Mourik (Birmingham, United Kingdom)

Current status on diagnosis and follow-up of Cystic Fibrosis Liver Disease **08:30 - 08:52**
Indra van Mourik (Birmingham, United Kingdom)

Role of MRI and MRE in the diagnosis of Cystic Fibrosis Liver Disease **08:52 - 09:14**
Jeremy Dana (Paris, France)

Current and future treatment options in Cystic Fibrosis Liver Disease **09:14 - 09:36**
Carla Colombo (Milan, Italy)

Liver transplantation in cystic fibrosis: indication and timing **09:36 - 10:00**
Philip Bufler (Berlin, Germany)

Symposium
08:30 - 10:00 Hall 1C

S06, Novel tools to better understand pathophysiology - "We can work it out"

Upon completion of this session participants should be able to:

- Understand how new *in vivo* and *in vitro* model systems can provide novel insights into fundamental processes affected in cystic fibrosis
- Explain how these new models will help better understand CF disease pathogenesis
- Evaluate whether these new models will lead to new therapeutic approaches for CF

Michael Gray (Newcastle upon Tyne, United Kingdom)
John Engelhardt (Iowa City, United States)

Using zebrafish models of inflammation to uncover new therapeutic approaches **08:30 - 08:52**
Audrey Bernut (Sheffield, United Kingdom)

Using the Xenopus tadpole to study mucociliary interactions in health and cystic fibrosis **08:52 - 09:14**
Eamon Dubaissi (United Kingdom)

A sheep model of cystic fibrosis **09:14 - 09:36**
Ann Harris (Cleveland, United States)

Scientific Programme

Development of a 3D full thickness CF model on chip **09:36 - 10:00**
Claudia Mazio (Naples, Italy)

Satellite Symposium
10:00 - 10:30 ePoster Corners

CF Innovation Presentations

ePoster Corner C

Damian Downey (Belfast, United Kingdom)

Symposium
10:30 - 12:00 Hall 1A

S07, More adults with cystic fibrosis: a success but also a challenge

- To understand the challenges of opening a new CF centre.
- To learn about how technology could facilitate the provision of healthcare now and in the future.
- To gain knowledge on how to reduce the risk of cross infection within CF centres as they grow.

Hannah Blau (Petah Tikva, Israel)
Charles Haworth (Cambridge, United Kingdom)

Challenges of opening a new CF centre: Western European experience **10:30 - 10:52**
Tarek Saba (Blackpool, United Kingdom)

Challenges of opening a new CF centre: Eastern European experience **10:52 - 11:14**
Adrien Halász (Budapest, Hungary)

Embracing technology **11:14 - 11:36**
Gilles Rault (Roscoff, France)

Infection control considerations **11:36 - 12:00**
Charles Haworth (Cambridge, United Kingdom)

Symposium
10:30 - 12:00 Room 3 (AB)

S08, Orphan organs in times of CFTR modulation

- To learn about the impact of CFTR modulation on the gastrointestinal tract and upper airway.
- To understand the effect of CFTR modulation on glucose metabolism.
- To consider the potential impact of CFTR modulation on neuromuscular and cognitive function.

Jochen G. Mainz (Brandenburg an der Havel, Germany)
Michael Wilschanski (Jerusalem, Israel)

Expected and unexpected gastrointestinal effects of CFTR modulation **10:30 - 10:52**
Michael Wilschanski (Jerusalem, Israel)

Scientific Programme

Impact of CFTR modulation on CF related diabetes **10:52 - 11:14**
Katie Larson-Ode (Iowa City, United States)

Effects of CFTR modulators on sino-nasal disease **11:14 - 11:36**
Jochen G. Mainz (Brandenburg an der Havel, Germany)

Are there neuromuscular and cognitive benefits from CFTR modulators? **11:36 - 12:00**
John Wilson (Melbourne, Australia)

Symposium
10:30 - 12:00 Room 11 (ABC)

S09, The cystic fibrosis diagnostic all-rounder

In this session timing for a full diagnostic communication will be discussed; a case for updating the cftr-rd definition will be presented; limitations and robustness of electrophysiology diagnostic testing and sweat test will be shown

Ana Kotnik Pirš (Ljubljana, Slovenia)
Nicholas Simmonds (London, United Kingdom)

Communication of diagnosis - what should be said immediately and what should be said later? **10:30 - 10:52**
Mandy Bryon (London, United Kingdom)

Is CFTR related disorder still relevant in 2019? **10:52 - 11:14**
Carlo Castellani (Genoa, Italy)

Functional testing of CFTR - the weaknesses and strengths of NPD and ICM **11:14 - 11:36**
Simon Graeber (Berlin, Germany)

Short and long-term sweat test variability **11:36 - 12:00**
Francois Vermeulen (Leuven, Belgium)

Symposium
10:30 - 12:00 Hall 2E

S10, Antimicrobial resistance in cystic fibrosis – are we overusing antibiotics?

Learning Objectives:

- Enable clinicians and basic scientists to develop a better understanding of how antimicrobial resistance is defined in CF
- Enable an understanding of the clinical relevance of antimicrobial resistance in CF
- Discuss the role of antimicrobial stewardship in CF
- Describe knowledge about AMR amongst people with CF and clinical teams

Michael Tunney (Belfast, United Kingdom)
Pavel Drevinek (Prague, Czech Republic)

Introduction: Defining resistance **10:30 - 10:40**
Stuart Elborn (Belfast, United Kingdom)

Scientific Programme

Managing AMR in clinical practice-Consensus from clinicians **10:40 - 11:00**
Anand Shah (London, United Kingdom)

Resistance testing in selection of therapeutic antibiotics **11:00 - 11:20**
Helle Krogh Johansen (Copenhagen, Denmark)

Antibiotic stewardship – is it possible in CF? **11:20 - 11:40**
Scott Bell (Brisbane, Australia)

AMR: What do our teams and patients know? **11:40 - 12:00**
Marianne S. Muhlebach (Chapel Hill, United States)

Symposium
10:30 - 12:00 Hall 1B

S11, Exercise and activity for young people with cystic fibrosis: it's not just football

Helge Hebestreit (Würzburg, Germany)
Marlies Wagner (Graz, Austria)

Which exercise and where? **10:30 - 10:52**
Thomas Radtke (Zurich, Switzerland)

The role of exercise as an airway clearance technique in young people with cystic fibrosis **10:52 - 11:14**
Nathan Ward (Adelaide, Australia)

Measuring the physiological consequence of exercise in cystic fibrosis **11:14 - 11:36**
Donald Urquhart (Edinburgh, United Kingdom)

Identifying and breaking down barriers to exercise **11:36 - 12:00**
Adam Walsh (Liverpool, United Kingdom)

Symposium
10:30 - 12:00 Hall 1C

S12, CFTR: what we know and what we don’t know

Upon completion of this session participants should be able to:

- Understand how recent knowledge on CFTR synthesis, folding, trafficking, stability and activity at the plasma membrane can help the development of novel pharmacological modulators for common and rare mutations
- Explain how CFTR protein networks can be modulated to promote the rescue of mutant CFTR

Bob Ford (Manchester, United Kingdom)
Sabrina Noel (Paris, France)

Impact of rare CFTR mutations on channel gating and stability **10:30 - 10:52**
David Sheppard (Bristol, United Kingdom)

Unconventional trafficking of CFTR **10:52 - 11:14**
Min Goo Lee (Seoul, Korea, Republic of)

Scientific Programme

Unravelling CFTR networks **11:14 - 11:36**
Carlos Farinha (Lisbon, Portugal)

New insights in peripheral quality control of CFTR **11:36 - 12:00**
Tsukasa Okiyoneda (Nishinomiya, Japan)

Satellite Symposium
12:30 - 14:00 Hall 1A

Satellite Symposium

Please find the detailed program of the Satellite Symposia here.

Meet the Experts
12:45 - 13:45 ePoster Corners

Meet the Experts 3: Treatment approaches to MDR organisms

ePoster Corner C

Patrick Flume (Charleston, United States)
J. Stuart Elborn (London, United Kingdom)

Meet the Experts
12:45 - 13:45 ePoster Corners

Meet the Experts 1: Getting the best out of CFTR2

ePoster Corner A

Garry Cutting (Baltimore, United States)
Karen Raraigh (Baltimore, United States)

Meet the Experts
12:45 - 13:45 ePoster Corners

Meet the Experts 2: Management of fungal disease in cystic fibrosis

ePoster Corner B

Carsten Schwarz (Berlin, Germany)
Nicholas Simmonds (London, United Kingdom)

Scientific Programme

ECFS Tomorrow Session
12:45 - 13:45 ECFS Tomorrow Lounge

Mental Health in my hospital: Tools to start screening and how to move on

Urszula Borawska - Kowalczyk (Warsaw, Poland)
Anna Georgiopoulos (Boston, United States)
Annette Katscher-Peitz (Stuttgart, Germany)
Yvonne Prins (Amsterdam, Netherlands)
Marieke Verkleij (Amsterdam, Netherlands)

ePoster Session
14:00 - 15:00 ePoster Corners

ePoster Session 1 - Model systems for testing new therapies

ePoster Corner A

Kors Van der Ent (Utrecht, Netherlands)

F508del correction in iPSCs obtained from patient with cystic fibrosis by CRISPR/Cas9 **14:00 - 14:06**
Svetlana Smirnikhina (Moscow, Russian Federation)

Identification of AAV developed for cystic fibrosis gene therapy that restores CFTR function in human cystic fibrosis patient cells **14:06 - 14:12**
Paul Wille (Cleveland, United States)

Investigation of in vitro treatment response to CFTR modulators in patients with cystic fibrosis in a cross-sectional intestinal organoid study **14:12 - 14:18**
Eva Furstova (Leuven, Belgium)

In vivo effect of three potentiator treatments found effective in rectal organoids **14:18 - 14:25**
Gitte Berkers (Utrecht, Netherlands)

High reproducibility of Forskolin-induced swelling of intestinal organoids across three academic laboratories **14:25 - 14:32**
Peter van Mourik (Utrecht, Netherlands)

Both epithelial sodium channel (ENaC) inhibitors BI 443651 and BI 1265162 increase mucociliary clearance in sheep **14:32 - 14:39**
Peter Nickolaus (Biberach, Germany)

A single application of the epithelial sodium channel inhibitor BI 1265162 significantly improves water transport and mucociliary clearance of cystic fibrosis epithelial tissue, alone or combined with lumacaftor/ivacaftor or isoproterenol **14:39 - 14:46**
Philippe Iacono (Reims, France)

A systematic comparison of the profiles of inhaled ENaC blocker candidates on mucociliary clearance: are we under-dosing in clinical studies? **14:46 - 14:53**
Henry Danahay (Brighton, United Kingdom)

Scientific Programme

Inhibition of autoinflammation in cystic fibrosis using small molecule therapy **14:53 - 15:00**
Heledd Jarosz-Griffiths (Leeds, United Kingdom)

ePoster Session
14:00 - 15:00 ePoster Corners

ePoster Session 2 - Ageing with cystic fibrosis - old and new issues

ePoster Corner B

Lieven Dupont (Leuven, Belgium)

Polysomnographic findings in cystic fibrosis: a meta-analysis **14:00 - 14:06**
Joel Reiter (Jerusalem, Israel)

Comparison of sleep disorders between patients with primary ciliary dyskinesia and cystic fibrosis with and without pancreatic insufficiency **14:06 - 14:12**
Joel Reiter (Jerusalem, Israel)

Diagnosis and treatment of pulmonary embolism in adult patients with cystic fibrosis **14:12 - 14:18**
Wang Yng Lim (Leeds, United Kingdom)

Indications and complications of NIV in patients with cystic fibrosis: 10-year experience in a large UK adult CF centre **14:18 - 14:24**
Giulia Spoletini (Leeds, United Kingdom)

Incidence and risk factors of cancer: a UK cystic fibrosis Registry study **14:24 - 14:30**
Olga Archangelidi (London, United Kingdom)

Management of hemoptysis in adult cystic fibrosis patients with antifibrinolytic agents is effective and safe **14:30 - 14:36**
Kelly Shin (Boston, United States)

Treatment of hemoptysis in patients with cystic fibrosis: embolisation **14:36 - 14:42**
Claudio Castaños (Buenos Aires, Argentina)

Intravenous aminoglycosides in cystic fibrosis patients, early detection of ototoxic drug induced hearing loss; developing a new protocol **14:42 - 14:48**
Cora de Kiviet (Utrecht, Netherlands)

ENT disorders in adult cystic fibrosis patients **14:48 - 14:54**
Elena Amelina (Moscow, Russian Federation)

Home monitoring in adults with cystic fibrosis - a feasibility study **14:54 - 15:00**
Lone Grotenborg (Copenhagen, Denmark)

Scientific Programme

ePoster Session
14:00 - 15:00 ePoster Corners

ePoster Session 3 - Quality improvement in physiotherapy

ePoster Corner C

Brenda Button (Melbourne, Australia)

Long-term effects of non-invasive ventilation for airway clearance in cystic fibrosis **14:00 - 14:06**
Priscilla Flavia Bogoni (Verona, Italy)

Reference values of the 6-minute walking test in young European adults **14:06 - 14:12**
Filip Pyl (Ghent, Belgium)

Ventilatory parameters during cardiopulmonary exercise testing (CPET) in people with Cystic Fibrosis-Related Diabetes (CFRD): a potential barrier to exercise? **14:12 - 14:18**
Tom Meredith (Southampton, United Kingdom)

Can exercise replace airway clearance? A survey of lay and professional views **14:18 - 14:24**
Nicola J Rowbotham (Nottingham, United Kingdom)

Physical activity intensity profile in cystic fibrosis **14:24 - 14:30**
James Shelley (Liverpool, United Kingdom)

Quantifying moderate to vigorous physical activity using heart rate in children and young people with cystic fibrosis **14:30 - 14:36**
Helen Douglas (London, United Kingdom)

The complexity of defining adherence to airway clearance treatments in clinical trials **14:36 - 14:42**
Emma Raywood (London, United Kingdom)

Thinking inside the box - nebuliser care, safe storage and risk of infection **14:42 - 14:48**
Lauren Alexander (Belfast, United Kingdom)

The effect of chest physiotherapy with the Simeox airway clearance technology in the treatment of cystic fibrosis pulmonary exacerbation – open-label study **14:48 - 14:54**
Justyna Milczewska (Warsaw, Poland)

Reliability and validity of the ActivPAL and Fitbit Charge 2 as a measure of step count in cystic fibrosis **14:54 - 15:00**
Maire Curran (Limerick, Ireland)

ePoster Session
14:00 - 15:00 ePoster Corners

Poster Viewing 1

Early life risk factors for predicting difficult central venous access in children with cystic fibrosis
Krishne Chetty (Brighton, United Kingdom)

Scientific Programme

A survey of cystic fibrosis healthcare professionals in the UK and Ireland to determine current practice with respect to the use of face masks in clinic

Katy Whitley (Liverpool, United Kingdom)

What's that you say? Hearing impairment in cystic fibrosis patients treated with aminoglycoside therapy – is conventional pure tone audiometry enough?

Alexander Evan Czepulkowski (Aberdeen, United Kingdom)

Chronic therapy with inhaled antibiotics for common pathogens and some new emerging pathogens in cystic fibrosis

Guergana Petrova (Sofia, Bulgaria)

Influence between microbiological isolates, lung function and nutrition status in cystic fibrosis patients in a cystic fibrosis centre in the Institute for Respiratory Diseases in Children in Skopje, the Republic of Macedonia

Elena Gjinovska-Tasevska (Skopje, Macedonia, the Republic of)

Relationship between microbiological isolates from sputum and age of cystic fibrosis patients in the Cystic Fibrosis Centre at the Institute for Respiratory Diseases in Children in Skopje, the Republic of Macedonia

Ivana Arnaudova Danevska (Skopje, Macedonia, the Republic of)

Siblings and positive respiratory samples.

Sally Edwards (Wolverhampton, United Kingdom)

Pseudomonas aeruginosa prevalence rates over 12 years in Irish children with cystic fibrosis

Paul McNally (DUBLIN, Ireland)

Burden of antimicrobial resistance (AMR) in Pseudomonas aeruginosa (Pa) isolated from cystic fibrosis patients: the 2017 experience of a referral centre

Teresa Martin-Gomez (Barcelona, Spain)

Molecular mechanisms of multidrug resistance in Pseudomonas aeruginosa cystic fibrosis strains isolated during 10 years of persistence

Marina Yu Chernukha (Moscow, Russian Federation)

Human and environmental reservoirs of bacterial species colonising the lower airways of cystic fibrosis patients

Rebeca Passarelli Mantovani (Verona, Italy)

Prevalence of chronic Pseudomonas aeruginosa infection in people with cystic fibrosis in Northern Ireland

Denise McKeegan (Belfast, United Kingdom)

The impact of transmissible strains of Pseudomonas aeruginosa on the long-term clinical outcomes of adults with cystic fibrosis

Edward F Nash (Birmingham, United Kingdom)

Bacterial interactions among cystic fibrosis clinical strains and/or environmental strains from cystic fibrosis patients´ homes

Chloé Dupont (Montpellier, France)

Scientific Programme

OligoG conjugation inhibits bacterial growth and reduces cytotoxicity of colistin and polymyxin B
Joana Stokniene (Cardiff, United Kingdom)

A novel class of compounds that inhibit biofilm formation and reduce the virulence and motility of respiratory pathogens
Lucy Sykes (Abertillery, United Kingdom)

Clinical and genetic determinants of ciprofloxacin pharmacokinetics in cystic fibrosis
Elena Kondratyeva (Moscow, Russian Federation)

Prevalence of methicillin-resistant Staphylococcus aureus and its eradication in paediatric cystic fibrosis patients
Cintia Marina Morales (Buenos Aires, Argentina)

Implementation of a first growth MRSA eradication protocol in children with cystic fibrosis
Eva Cho (Vancouver, Canada)

Effect of Xylitol in sputum samples from cystic fibrosis patients with Staphylococcus aureus chronic infection
Alejandro Teper (Buenos Aires, Argentina)

Antistaphylococcal antibiotic prophylaxis usage among infants with cystic fibrosis in the UK
Matthew Hurley (Nottingham, United Kingdom)

Liposomal loaded azithromycin for the treatment of chronic respiratory infection: an in vivo study
Eleonora Cremonini (Belfast, United Kingdom)

Cysteamine has wide-ranging anti-virulence properties against cystic fibrosis pathogens
Douglas Fraser-Pitt (Aberdeen, United Kingdom)

Proton pump inhibitor use is associated with increased pulmonary exacerbations and hospital admissions in adult patients with cystic fibrosis
Chris Ferguson (Belfast, United Kingdom)

Treatment of adult cystic fibrosis patients with ceftolozane-tazobactam with a previous adverse drug reaction to piperacillin-tazobactam
Anna Connolly (Dublin, Ireland)

Cysteamine impairs lipoic acid cofactor-mediated aspects of bacterial metabolism in cystic fibrosis pathogens
Douglas Fraser-Pitt (Aberdeen, United Kingdom)

Impact of revised intravenous tobramycin dosing policy at an adult cystic fibrosis centre
Nizhat Iqbal (Manchester, United Kingdom)

Intravenous antibiotic dosage survey of UK and Ireland adult cystic fibrosis centres
Michael Kevin Dooney (Blackpool, United Kingdom)

Scientific Programme

Evaluation of drug allergy recording in the clinical records of children with cystic fibrosis
Noreen West (Sheffield, United Kingdom)

Prescribing practices of intravenous tobramycin across 19 cystic fibrosis specialist centres
Nizhat Iqbal (Manchester, United Kingdom)

Intravenous antibiotic prescriptions after phone consultation for cystic fibrosis patients
Marion Diet (Saint Genis Laval, France)

Patient satisfaction of transition to homecare delivery of inhaled nebulised therapy
Nizhat Iqbal (Manchester, United Kingdom)

Levofloxacin inhaled solution; a retrospective tolerability study
Catherine Whitty (Liverpool, United Kingdom)

Eradication of Pseudomonas with inhaled tobramycin in a large adult cystic fibrosis centre
Fiona Cathcart (London, United Kingdom)

Age of acquisition of Pseudomonas aeruginosa in children with cystic fibrosis treated or not treated with flucloxacillin prophylaxis
Fiona Jagger (Edinburgh, United Kingdom)

Effect of ceftazidime-avibactam on biofilm of AmpC hyperproducers Pseudomonas aeruginosa
Wang Hengzhuang (Copenhagen, Denmark)

The multiple sclerosis drug, glatiramer acetate, acts as a resistance breaker with antibiotics from different classes against cystic fibrosis strains of Pseudomonas aeruginosa
Ronan A. Murphy (London, United Kingdom)

Systematic review of the safety and tolerability of inhaled antibiotics (levofloxacin, aztreonam and tobramycin) for chronic Pseudomonas aeruginosa infections in cystic fibrosis patients
Orla Geoghegan (Manchester, United Kingdom)

Long-term outcomes of cohort segregation on the prevalence of a transmissible strain of Pseudomonas aeruginosa at an adult cystic fibrosis centre
Joanne Heaton (Liverpool, United Kingdom)

Lack of katA catalase in Pseudomonas aeruginosa accelerates evolution of antibiotic resistance in ciprofloxacin-treated biofilms
Oana Ciofu (Copenhagen, Denmark)

Attempting eradication of chronic cystic fibrosis lung infections using ivacaftor combined with intensive antibiotic treatment
Samantha Leigh Durfey (Seattle, United States)

Does ivacaftor influence antibiotic resistance in people with cystic fibrosis?
Rachel Penfold (Liverpool, United Kingdom)

Scientific Programme

Pseudomonas aeruginosa gene expression changes when co-cultured with common cystic fibrosis lung microbiota in an artificial sputum model

Laura L Wright (Liverpool, United Kingdom)

Experimental evolution of Pseudomonas aeruginosato identify mutations associated with chronic lung infection

Hasan Chowdhury (Liverpool, United Kingdom)

Set of preclinical mouse models of respiratory infection to evaluate antibiotic efficacy

Alessandra Bragonzi (Milan, Italy)

Anti-inflammatory effect of liposomal loaded azithromycin in a lipopolysaccharide stimulated mouse alveolar macrophage cell line model

Rachel Mairs (Belfast, United Kingdom)

The Pseudomonas aeruginosa T6SS-VgrG1b tip is capped by a PAAR protein eliciting DNA damage to bacterial competitors

Luke P. Allsopp (London, United Kingdom)

Changes in nuclease activity of Staphylococcus aureus as a potential mechanism to escape “neutrophil extracellular trap”-(NET)-mediated killing during persistence in the airways of cystic fibrosis patients

Susann Herzog (Münster, Germany)

Effect of e-cigarette exposure on production of virulence factors by Pseudomonas aeruginosa

Kevin Gallagher (Belfast, United Kingdom)

Anaerobic bacteria in broncho-pulmonary exacerbations in cystic fibrosis – preliminary results

Hanna Dmeńska (Warsaw, Poland)

Microbial community composition and patient reported symptoms in cystic fibrosis

Katherine O'Neill (Belfast, United Kingdom)

Microbial community composition in cystic fibrosis patients during treatment for pulmonary exacerbation

Gisli Einarsson (Belfast, United Kingdom)

Relationship between microbial load and rheological parameters in sputum from people with cystic fibrosis

Michael Tunney (Belfast, United Kingdom)

Effects of short-term lumacaftor/ivacaftor therapy on lung microbiome in F508del homozygous patients with cystic fibrosis

Sébastien Boutin (Heidelberg, Germany)

Nasal sinuses and lung microbiome in cystic fibrosis patients

Alexander Gintsburg (Moscow, Russian Federation)

Changes in the lung microbiota in response to IV therapy for pulmonary exacerbations and relation to clinical outcomes

Charlotte Addy (Belfast, United Kingdom)

Scientific Programme

Effect of cycled tobramycin on the sputum microbiome in cystic fibrosis
Maria T. Nelson (Seattle, United States)

Detection of the Rec A gene of the Burkholderia cepacia complex from sputum samples of an adult cystic fibrosis centre in Argentina
Ezequiel Baran (La Plata, Argentina)

Burkholderia primo-infection treatment in cystic fibrosis patients: report of 17 cases
Marie Mittaine (Toulouse, France)

Burkholderia contaminans in cystic fibrosis over a 15-year period in a reference centre in Argentina
Beltina León (La Plata, Argentina)

Anti-biofilm activity of a polycationic glycopolymer against clinically-derived Burkholderia cepacia complex
Shenda Baker (Claremont, United States)

Achromobacter prevalence, species distribution and infection status results from a large UK adult cystic fibrosis centre
Heather Green (Manchester, United Kingdom)

Diversity of Staphylococcus aureus clones among cystic fibrosis patients in the Russian Federation
Lusine R. Avetisyan (Moscow, Russian Federation)

Comparative in vitro activities of ceragenins and various antibiotics against Achromobacter species isolated from cystic fibrosis patients
Damla Damar Çelik (Istanbul, Turkey)

Impact of Achromobacter xylosoxidans on the respiratory function of adult patients with cystic fibrosis
Macha Tetart (Lille, France)

Investigation of the microbial community associated with Mycobacterium abscessus infection
Sarah A H Higgi (Southampton, United Kingdom)

Sample decontamination - how does treatment really affect the recovery of nontuberculous mycobacteria
Dominic Stephenson (Newcastle, United Kingdom)

Nontuberculous mycobacteria infection in people with cystic fibrosis attending cystic fibrosis treatment clinics in Australia
Rebecca Stockwell (Brisbane, Australia)

Activity of liposomal loaded azithromycin against nontuberculous mycobacteria
Rachel Mairs (Belfast, United Kingdom)

A single centre experience of Mycobacterium abscessus culture, treatment and eradication data in adults with cystic fibrosis
Heather Green (Manchester, United Kingdom)

Scientific Programme

Factors associated with Mycobacterium abscessus group (MABS) infection type in people with cystic fibrosis
Rebecca Stockwell (Brisbane, Australia)

Patterns of sputum nontuberculous mycobacterium (NTM) isolation in a cohort of adults with cystic fibrosis over a 10-year period
Diana Slim (Bristol, United Kingdom)

Treating nontuberculous mycobacteria in children with cystic fibrosis – experience from a paediatric cystic fibrosis centre
Christine Ronne Hansen (Lund, Sweden)

Evaluation of the selective culture medium Scedo-Select III for Scedosporium species isolation from sputa from patients with cystic fibrosis
Solène Le Gal (Brest, France)

Pseudomonas aeruginosa inhibits Aspergillus fumigatus in vitro through multiple mechanisms, including pyoverdine production
Dominic Hughes (London, United Kingdom)

Pulmonary aspergillosis in adults with cystic fibrosis: clinico-biological presentation in a single centre cohort
Lucile Regard (Paris, France)

Prospective evaluation of Aspergillus fumigatus-specific IgG in patients with cystic fibrosis
Carsten Schwarz (Berlin, Germany)

Burkholderia cepacia complex (Bcc) and Aspergillus spp. infection in adult cystic fibrosis patients: is there a Bcc antifungal effect?
Elena Amelina (Moscow, Russian Federation)

Microbiological characteristics of cystic fibrosis patients colonised with Exophiala dermatitidis in a regional centre
Ali Robb (Newcastle upon Tyne, United Kingdom)

Oral steroids versus pulsed methylprednisolone in allergic bronchopulmonary aspergillosis – 10 years' experience from a large tertiary paediatric cystic fibrosis centre
Anirban Maitra (Manchester, United Kingdom)

Longitudinal observation of azol-resistance Aspergillus fumigatus in patients with cystic fibrosis
Carsten Schwarz (Berlin, Germany)

Bacterial and fungal co-colonisation leads to poorer clinical outcomes in an adult cystic fibrosis population
Conor Hagan (Belfast, United Kingdom)

Audit of itraconazole therapy in the treatment of Aspergillus infection and Allergic Bronchopulmonary Aspergillosis (ABPA) in paediatric cystic fibrosis patients
Lucy Paskin (Birmingham, United Kingdom)

Simultaneous collection of cough plate and cough swab samples increases the detection of respiratory pathogens in non-expectorating children with cystic fibrosis
Bridget Kemball (Newcastle Under Lyme, United Kingdom)

Scientific Programme

Improvement of the diagnosis of P. aeruginosa infection in cystic fibrosis using real-time PCR: a pilot analysis
Renan M. Mauch (Campinas, Brazil)

High aerosol production of potentially infectious cough aerosols in people with cystic fibrosis during coughing
Rebecca Stockwell (Brisbane, Australia)

Extended incubation of cystic fibrosis cultures: is it worth it?
Teresa Martin-Gomez (Barcelona, Spain)

Detection of respiratory viruses in cystic fibrosis: comparison of nasal FLOQ Swabs^{TM} and sputum using the FilmArray®platform
Suzanne C. Carter (Dublin, Ireland)

Characterisation of pathogens causing lung infection in people with cystic fibrosis by surface-enhanced Raman spectroscopy (SERS)
Danielle Allen (Belfast, United Kingdom)

Streptococcus pseudopneumoniae in patients with cystic fibrosis, an opportunistic pathogen with challenging identification
Chloé Dupont (Montpellier, France)

Detection of multi-drug resistant (MDR) Pseudomonas aeruginosa (PA) in people with cystic fibrosis
Laura Sherrard (Belfast, United Kingdom)

Computed tomography and the Houndsfield unit of density of bronchoceles in patients with cystic fibrosis cannot be reliably used to predict microbial status
Freddy Frost (Liverpool, United Kingdom)

A pilot service evaluation to determine the benefit of a cough swab following inhaled hypertonic saline in patients with cystic fibrosis under 4 years old
Catherine Thornton (Manchester, United Kingdom)

A pilot service evaluation to determine the benefit of induced sputum in unproductive paediatric patients with cystic fibrosis 4 years and older
Catherine Thornton (Manchester, United Kingdom)

Benefit of home sampling in the early detection of Pseudomonas aeruginosa in children with cystic fibrosis
Catherine Thornton (Manchester, United Kingdom)

A retrospective comparison of paired sputum sample reports from local and specialist cystic fibrosis laboratories - experience of the new Blackpool Adult Cystic Fibrosis service
Shaheer Ahmad (Blackpool, United Kingdom)

Exploring Pseudomonas aeruginosa cross infection
Sormeh Salehian (Cambridge, United Kingdom)

Impact of bronchoalveolar lavage and related treatment on clinical outcomes in children with cystic fibrosis based on increases in the Lung Clearance Index
Christian Voldby (Copenhagen, Denmark)

Scientific Programme

Repeatability of Lung Clearance Index (LCI) in routine outpatient clinics: first report of LCI-SEARCH study

Alexander Horsley (Manchester, United Kingdom)

Normative values of Lung Clearance Index in children and adults using SF6 as washout gas

Amnah Alrumuh (Keele, United Kingdom)

Feasibility of multiple breath washout in a clinical setting in infants with cystic fibrosis

Marika Nathalie Schmidt (Copenhagen, Denmark)

Is annual exercise testing useful in children with cystic fibrosis?

Ciaran McArdle (Birmingham, United Kingdom)

Quality improvement project to improve pulmonary function in paediatric cystic fibrosis patients

Samya Nasr (Ann Arbor, United States)

Severity of pulmonary exacerbations over different ages among patients with cystic fibrosis: effect on lung function and ventilation inhomogeneity

Elpis Hatziagorou (Thessaloniki, Greece)

Pulmonary function is stable in people with cystic fibrosis one year after transition to adult care centre at University Medical Center Ljubljana, Slovenia

Barbara Salobir (Ljubljana, Slovenia)

Participant experience of Multiple Breath Washout (MBW) testing

Katie Bayfield (Manchester, United Kingdom)

Correlation between Lung Clearance Index and selected parameters of impulse oscillometry and spirometry in Polish paediatric patients with cystic fibrosis

Magdalena Postek (Warsaw, Poland)

Enterobacteriaceae in airway samples of preschool children with cystic fibrosis and worse outcome

Francois Vermeulen (Leuven, Belgium)

Clinical significance of Pseudomonas aeruginosa 2-alkyl-4-quinolone quorum sensing signal molecules on long-term outcomes in patients with cystic fibrosis

Karmel Webb (Nottingham, United Kingdom)

Anti-inflammatory treatment with the IL-1R antagonist anakinra does not aggravate Pseudomonas aeruginosa infection in mice with cystic fibrosis-like lung disease

Zhe Zhou-Suckow (Heidelberg, Germany)

Does increased gastro-oesophageal reflux in cystic fibrosis patients alter the sputum proteome?

Rosemary E Maher (Liverpool, United Kingdom)

Comparison of survival between cystic fibrosis patients infected with Burkholderia cepacia complex (Bcc) and other Gram-negative respiratory infection

Elena Amelina (Moscow, Russian Federation)

Scientific Programme

Adherence in nebulisation therapy of paediatric patients with cystic fibrosis
Sibylle Junge (Hannover, Germany)

Inhaler dry powder mannitol use in children with cystic fibrosis
Sevgi Pekcan (Konya, Turkey)

Real-life experience with levofloxacin solution for inhalation in adult patients with cystic fibrosis
Barbara Messore (Orbassano (TO), Italy)

Hypogammaglobulinemia in children with cystic fibrosis
Francois Vermeulen (Leuven, Belgium)

Case report: cystic fibrosis and primary immunodeficiency association
Sevgi Pekcan (Konya, Turkey)

Does adherence to DNase change following initiation of Orkambi for the treatment of cystic fibrosis?
Claire McKeown (Belfast, United Kingdom)

Predicting intravenous antibiotic usage with cardiopulmonary exercise testing in cystic fibrosis
Dominic Joseph Wooldridge (Exeter, United Kingdom)

Impact of ivacaftor treatment disruption on clinical outcomes: a single centre study
Ed McKone (Dublin, Ireland)

Use of lumacaftor/ivacaftor as rescue therapy and stabilisation treatment for severe lung disease in children with cystic fibrosis
Lucy Everitt (Southampton, United Kingdom)

Chest-CT abnormalities early in life and neutrophil elastase are associated with more lung disease 2 years later in infants with cystic fibrosis
Hettie M. Janssens (Rotterdam, Netherlands)

¹²⁹Xe ventilation MRI and LCI to assess acute maximal exercise as a method of airway clearance
Laurie Smith (Sheffield, United Kingdom)

Ventilation MRI tracks longitudinal lung function changes in patients with cystic fibrosis and clinically stable FEV₁ and Lung Clearance Index
Laurie Smith (Sheffield, United Kingdom)

A comparison of ventilation MRI using hyperpolarised ³He and ¹²⁹Xe to assess cystic fibrosis lung disease
Laurie Smith (Sheffield, United Kingdom)

Cumulative radiation exposure of radiologic imaging in patients with cystic fibrosis
Francois Vermeulen (Leuven, Belgium)

Pathological markers in cystic fibrosis: comparing sputum rheology with spirometry
Matthieu Robert de Saint Vincent (Saint Martin d'Hères, France)

Scientific Programme

Untargeted plasma proteomics to identify novel blood biomarkers of treatment response in cystic fibrosis pulmonary exacerbations
Kang Dong (Vancouver, Canada)

Urinary biomarkers as a diagnostic test for early pulmonary exacerbations in adults with cystic fibrosis
Edward F Nash (Birmingham, United Kingdom)

Therapeutic inhibition of CatS reduces airway inflammation and mucus plugging but does not prevent the progression of lung tissue damage in adult βENaC-Tg mice
Ryan Robert Brown (Belfast, United Kingdom)

Small-molecule FRET flow cytometry: a novel technique to monitor surface-associated protease activity in cystic fibrosis
Dario Lucas Frey (Heidelberg, Germany)

Pseudomonas aeruginosa induces inflammation in bronchial epithelial cells via the p38 MAP and Syk tyrosine kinase pathways
Matthew Coates (London, United Kingdom)

Neutrophil extracellular traps are elevated in cystic fibrosis sputum and associated with neutrophilic inflammation and lung function decline
Gareth Hardisty (Edinburgh, United Kingdom)

**Elafin expression is regulated by CFTR-mutation and TGF-β₁ in human bronchial epithelial cells and is reduced in sputum of cystic fibrosis patients infected with Pseudomonas aeruginosa **
Jan Christoph Thomassen (Cologne, Germany)

Urinary Matrix Metalloproteinase-9 (MMP-9) is not a biomarker of pulmonary exacerbation in cystic fibrosis
Claire Edmondson (London, United Kingdom)

The effect of protein supplementation on inflammatory markers, body composition and lung function in adult patients with cystic fibrosis
Lotte Gudman Hansen (Frederiksberg, Denmark)

May serum amyloid A be a marker for diagnosis of cystic fibrosis pulmonary exacerbation?
Piercarlo Poli (Brescia, Italy)

Evaluation of dynamic thiol disulfide homeostasis in children with stable cystic fibrosis
Tugba Ramasli Gursoy (Ankara, Turkey)

Ventilation with High Flow Nasal Cannula in adult cystic fibrosis patients with advanced lung disease complicated by pneumothorax
Barbara Messore (Orbassano (TO), Italy)

Managing the respiratory care of children with cystic fibrosis in Gaza
Bakr Abo-Jarad (Gaza, Palestinian Territory, Occupied)

Improving undergraduate medical student education in cystic fibrosis using a locally developed cystic fibrosis-specific virtual reality tool
Tamara Vagg (Cork, Ireland)

Scientific Programme

Exposure to cigarette smoke in a cystic fibrosis cohort - distinctive volatile organic compound profiles
Thomas Goddard (North Adelaide, Australia)

Home respiratory rate monitoring using pulse oximetry pleth and smartphone app in children with cystic fibrosis
Paul Seddon (Brighton, United Kingdom)

The Alfred Wellness Score (AweScore) in adults with cystic fibrosis: stability, validity and response to pulmonary exacerbations
Brenda Button (Melbourne, Australia)

Cystic fibrosis sinus score for paranasal sinuses complications of cystic fibrosis: a 3-year long experience
Maurizio Di Cicco (Milan, Italy)

Physical activity measures in cystic fibrosis: could we use new electronic devices?
Daniela Savi (Rome, Italy)

Using virtual reality to enhance the transition process
Tamara Vagg (Cork, Ireland)

Does an individualised exercise program improve exercise capacity among young patients with cystic fibrosis?
Elpis Hatziagorou (Thessaloniki, Greece)

A study to assess the feasibility and utility of using home-based connected devices to early detect pulmonary exacerbations: preliminary results
Dominique Pougheon (Bobigny, France)

Take a deep breath and clear your lungs: air pollution and cystic fibrosis exacerbations
Lorraine Speight (Vale of Glamorgan, United Kingdom)

Influence of systemic antibiotic therapy on heart and respiratory rates during inpatient antibiotic treatment of adult cystic fibrosis patients using a new contactless measurement system (Vitalog®)
Svenja Straßburg (Essen, Germany)

Longterm monitoring of blood gases in children with cystic fibrosis - a more sensitive marker for Cystic Fibrosis-Related Lung Disease than FEV₁?
Rene Gaupmann (Vienna, Austria)

Clinical profile of cystic fibrosis children with scheduled admission: single centre experience
Muna Dahabreh (Amman-jordan, Jordan)

Evaluation of a pulmonary rehabilitation program offered to adult cystic fibrosis patients by the French cystic fibrosis centre of Roscoff
Sophie Ramel (Roscoff, France)

Assessing sleep disordered breathing in asymptomatic and stable children with cystic fibrosis – findings from a pilot study
Panayiotis Koushi (Manchester, United Kingdom)

Scientific Programme

Application of Association for Respiratory Technology and Physiology (ARTP) spirometry standards in children with cystic fibrosis
Kelly Bakewell (Stoke on trent, United Kingdom)

Relationship of treatment complexity to quality of life in cystic fibrosis
Gagan Swami (Plymouth, United Kingdom)

Evaluation of the nursing state with dual energy x-ray absorptiometry and calcaneus quantitative ultrasound measurements in children with cystic fibrosis
Sevgi Pekcan (Konya, Turkey)

Use of the Fitbit Charge HR to monitor physical activity, sleep and heart rate during IV therapy for pulmonary exacerbations
Charlotte Addy (Belfast, United Kingdom)

Lung transplantation for cystic fibrosis - the experience of the largest adult cystic fibrosis centre in Greece
Eleni Stagaki (Athens, Greece)

Survival after lung transplantation in cystic fibrosis recipients from the Copenhagen Cohort
Frederikke Rönsholt (Copenhagen, Denmark)

Pattern of use of NIV: 10-year experience of a large UK adult cystic fibrosis centre
Giulia Spoletini (Leeds, United Kingdom)

The development and use of a pancreatic exocrine insufficiency questionnaire to assess symptoms and their impacts in cystic fibrosis
Gary Connett (Southampton, United Kingdom)

Transitory exocrine pancreatic insufficiency in children with cystic fibrosis and class IV-V CFTR mutation
Piercarlo Poli (Brescia, Italy)

Gastrointestinal symptoms in people with cystic fibrosis: a survey of lay and professional views
Sherie Smith (Nottingham, United Kingdom)

Impact of administration mode of Pancreatic Enzyme Replacement Therapy (PERT) on abdominal pain, bowel habits and Quality of Life (QoL) in children and adolescents with cystic fibrosis - a randomised cross-over intervention study: preliminary data
Ghita Brekke (Copenhagen, Denmark)

Food characteristics as determinants of PERT requirements: summary of the in vitro digestion experiments of MyCyFAPP project
Joaquim Calvo-Lerma (Valencia, Spain)

Features of dosing of enzyme replacement therapy in children with cystic fibrosis in the Russian Federation
Tatyana Maksimycheva (Moscow, Russian Federation)

Use of gastric acid lowering agents in children with cystic fibrosis - are we over-treating?
Ghulam Mujtaba (Manchester, United Kingdom)

Scientific Programme

Redefining estimated average glucose (eAG) for cystic fibrosis
Seth James (Liverpool, United Kingdom)

National trends for the usage of continuous glucose monitoring for diagnosing Cystic Fibrosis-Related Diabetes
Paula Dyce (Liverpool, United Kingdom)

A 2-year review of oral glucose tolerance test screening for Cystic Fibrosis-Related Diabetes in a UK paediatric tertiary centre
Carolyn Patchell (Birmingham, United Kingdom)

Is the 5 point OGTT a better screening tool for CFRD than the standard 2 point OGTT? Results from a paediatric population at Birmingham Children's Hospital
Katherine Stead (Birmingham, United Kingdom)

Glycaemic variability is associated with increased risk of hypoglycaemia in adults with cystic fibrosis
Freddy Frost (Liverpool, United Kingdom)

Relation between body composition and glucose metabolism in patients with cystic fibrosis
Dimitri Declercq (Ghent, Belgium)

Metabolic, nutritional, anthropometric and pulmonary parameters associated with the onset of glucose tolerance abnormalities in children with cystic fibrosis
Marie-Hélène Denis (Montreal, Canada)

Dietary interventions for managing glucose abnormalities in cystic fibrosis: a systematic review
Laura Birch (Bristol, United Kingdom)

Regular specialist follow-up is essential for early detection and management of diabetes-related complications in patients with Cystic Fibrosis-Related Diabetes
Punith Kempegowda (Birmingham, United Kingdom)

Improving the quality of Cystic Fibrosis-Related Diabetes care: development of a CFRD annual review tool
Joanna Snowball (Oxford, United Kingdom)

Is continuous glucose monitoring a better indicator of clinical outcomes than HbA1c in adults with Cystic Fibrosis-Related Diabetes?
Edwin Justice (Birmingham, United Kingdom)

Impact of continuous subcutaneous insulin infusion (CSII) pump use for Cystic Fibrosis-Related Diabetes (CFRD)
Dee Shimmin (Belfast, United Kingdom)

Total daily dose of insulin as a marker of severity of Cystic Fibrosis-Related Diabetes
Joanna Snowball (Oxford, United Kingdom)

Outcomes for patients using mono-or dual DPP4-inhibitor therapy for Cystic Fibrosis-Related Diabetes – a regional centre's 2-year experience
Anne Yingchol de Bray (Birmingham, United Kingdom)

Scientific Programme

Metformin tolerability in patients with cystic fibrosis
Amanda Brennan (Manchester, United Kingdom)

“If I could be off them, I would” – adults with Cystic Fibrosis-Related Diabetes experiences of corticosteroid therapy
Sarah Collins (London, United Kingdom)

Do patients with Cystic Fibrosis-Related Diabetes consider Pancreatic Enzyme Replacement Therapy as part of their hypoglycaemic treatment?
Harbinder Sunsoa (West Midlands, United Kingdom)

Cystic Fibrosis-Related Diabetes: whose responsibility is it anyway?
Paula Dyce (Liverpool, United Kingdom)

Glycemic status as a mediator of lung function decline in cystic fibrosis
Elenara Procianoy (Porto Alegre, Brazil)

Liver disease in cystic fibrosis - a clinical challenge in the era of improved outcomes
Marion Rowland (Dublin, Ireland)

Findings on abdominal ultrasonography in adult cystic fibrosis patients
Ezequiel Baran (La Plata, Argentina)

The utility of ultrasound in Cystic Fibrosis-Related Liver Disease
Jane Wilkinson (Glasgow, United Kingdom)

FibroScan improves diagnosis of Cystic Fibrosis-Related Liver Disease
Jennifer Scott (Manchester, United Kingdom)

Audit of the investigation and management of paediatric Cystic Fibrosis-Related Liver Disease
Sarah J Mayell (Liverpool, United Kingdom)

Clinical features of cystic fibrosis patients with chronic liver disease in the Turkish National Cystic Fibrosis Registry
Güzin Cinel (Ankara, Turkey)

Long-term follow-up of liver disease in children and young people with cystic fibrosis in the UK
Indra van Mourik (Birmingham, United Kingdom)

Short gut syndrome and bacterial overgrowth in children with cystic fibrosis - experience from a tertiary paediatric cystic fibrosis centre
Ghulam Mujtaba (Manchester, United Kingdom)

Fecal dysbiosis is associated with growth failure in infants with cystic fibrosis: a multicentre study
Lucas Hoffman (Seattle, United States)

Nutritional Assessment in Adults with Cystic Fibrosis (NACYFI study)
Katja Angela Schönenberger (Bern, Switzerland)

Nutritional status, body composition and pulmonary function in cystic fibrosis children and adolescents – age and gender relationship
Monika Mielus (Warsaw, Poland)

Scientific Programme

Nutritional status and body composition in a cystic fibrosis population: comparison with a healthy population
Tiago Martins (Lisbon, Portugal)

Height assessment in a small cohort of cystic fibrosis patients
Dimitri Declercq (Ghent, Belgium)

Relation between sweat chloride concentrations and body mass index in F508del homozygous cystic fibrosis patients
Ivan Bambir (Zagreb, Croatia)

Overweight, obesity and significant weight gain in adult patients with cystic fibrosis association with lung function and cardiometabolic risk factors
Anne Bonhoure (Montreal, Canada)

Would a spoonful of sugar help the salt go down?
Christine Loong (Vancouver, Canada)

Sodium and growth in children with cystic fibrosis: is there a connection?
Tatyana Maksimycheva (Moscow, Russian Federation)

Pseudo Bartter Syndrome: the most common complication in the Turkish National Cystic Fibrosis Registry
Güzin Cinel (Ankara, Turkey)

Multivitamins – the way forward: optimising vitamin supplementation in adults with cystic fibrosis
Julie Al-Siaidi (Bristol, United Kingdom)

Are combined vitamin preparations useful in a paediatric cystic fibrosis population?
Katherine Stead (Birmingham, United Kingdom)

Paravit-CF® fat soluble vitamins: a single centre experience
Fiona Woods (Glasgow, United Kingdom)

Are we achieving energy density at the expense of micronutrient density?
Tamarah Katz (Sydney, Australia)

Dietary fibre - an important but poorly achieved nutrient
Chris Smith (Brighton, United Kingdom)

Clinical effects of probiotic supplementation in patients with cystic fibrosis in the Republic of Macedonia
Tatjana Jakovska-Maretti (Skopje, Macedonia, the Republic of)

Effects of Mediterranean diet in cystic fibrosis: a randomized clinical trial pilot study
Elenara Procianoy (Porto Alegre, Brazil)

Breastfeeding in a paediatric cystic fibrosis network
Claire A. Berry (Liverpool, United Kingdom)

The development of a nutrition education and social session for families with children with cystic fibrosis: “work in progress”
Katie Harriman (Bristol, United Kingdom)

Scientific Programme

A program to manage feeding problems and malnutrition in toddlers and children with cystic fibrosis: how to use at best the cystic fibrosis core team expertise to save money and suffering
Arianna Giana (Milan, Italy)

Variations in dietetic service provision across UK adult cystic fibrosis centres
Vanessa Bara (London, United Kingdom)

Pioneering a snack trolley for cystic fibrosis nutrition assessment and education in a paediatric cystic fibrosis clinic
Kate Harrod-Wild (Wrexham, United Kingdom)

Handling cystic fibrosis nutrition during hospitalisation
Gabriela Parallada (Montevideo, Uruguay)

Efficacy of supplemental nocturnal tube feeding in adult cystic fibrosis patients with respiratory failure
Elena Amelina (Moscow, Russian Federation)

Gastrostomies and jejunostomies: is it going down the tube?
Mark Chilvers (Vancouver, Canada)

The impact at 5-year follow up of gastrostomy tube placement on spirometry and BMI z-score in children with cystic fibrosis
Katie O'Brien (London, United Kingdom)

Resting energy expenditure in cystic fibrosis patients decreases after lung transplantation, which improves validity of prediction
Francis Hollander (Utrecht, Netherlands)

Gynaecological management of adult women with cystic fibrosis: positive impact of an on-site gynaecological consultation offer
Christine Rousset-Jablonski (Pierre-Bénite, France)

Pregnancy outcomes in women with cystic fibrosis: data from the Italian Registry (ICFR)
Rita Padoan (Brescia, Italy)

Uterine ultrasonographic evaluation of pubertal delay in girls with cystic fibrosis
Paula de Souza Dias Lopes (Porto Alegre, Brazil)
Elenara Procianoy (Porto Alegre, Brazil)

The presence of osteoporosis in adults with cystic fibrosis is associated with other co-morbidities and a more severe phenotype
Maya Garside (Leicester, United Kingdom)

ECG abnormalities and cardiovascular risk factors in an adult cystic fibrosis cohort in the East of England
Monica Florez-Mausa (Cambridge, United Kingdom)

A survey of cardiovascular disease in UK cystic fibrosis centres
Damian G Downey (Belfast, United Kingdom)

Scientific Programme

ECFS Tomorrow Session
14:00 - 15:00 ECFS Tomorrow Lounge

How do we cope with new cases of MTB?

Majda Ostir (Ljubljana, Slovenia)

Workshop
15:00 - 16:30 Hall 1A

WS01, Eradicating Pseudomonas, novel therapeutics and antimicrobial resistance

Microbiology / Antibiotics

Helle Krogh Johansen (Copenhagen, Denmark)
Dervla Kenna (London, United Kingdom)

Effectiveness of IV compared to oral eradication therapy of Pseudomonas aeruginosa in cystic fibrosis: multicentre randomised controlled trial (TORPEDO-CF) **15:00 - 15:15**
Simon Langton Hewer (Bristol, United Kingdom)

Comparative genomics study of a set of Pseudomonas aeruginosa isolates from the TORPEDO-CF trial **15:15 - 15:30**
Adrian Cazares (Liverpool, United Kingdom)

IV gallium nitrate demonstrates biological activity for chronic Pseudomonas aeruginosa infection in cystic fibrosis **15:30 - 15:45**
Christopher Goss (Seattle, United States)

Pharmacokinetics and pharmacodynamics of murepavadin (POL7080) in neutropenic lung infection models when evaluated by aerosol administration **15:45 - 16:00**
Francesca Bernardini (Allschwil, Switzerland)

A novel class of quorum sensing inhibitors prevent biofilm formation and reduce virulence of respiratory pathogens and are progressing to preclinical development **16:00 - 16:15**
Lucy Sykes (Abertillery, United Kingdom)

Pathways, practices and architectures: containing antimicrobial resistance (AMR) in the cystic fibrosis clinic **16:15 - 16:30**
Nik Brown (York, United Kingdom)

Workshop
15:00 - 16:30 Room 3 (AB)

WS02, Measuring the impact of physiotherapy and exercise

Physiotherapy

Marlies Wagner (Graz, Austria)
Fiona Cathcart (London, United Kingdom)

Scientific Programme

Investigating outcome measures for physiotherapy trials of airway clearance in adult patients with cystic fibrosis **15:00 - 15:15**
Gemma Stanford (London, United Kingdom)

Cardio-Pulmonary Exercise Test (CPET) is feasible in young children with cystic fibrosis aged six to twelve years and may be a valuable monitoring tool **15:15 - 15:30**
Lue Philipsen (Copenhagen, Denmark)

Validity of prediction equations for evaluating aerobic fitness in cystic fibrosis **15:30 - 15:45**
Owen Tomlinson (Exeter, United Kingdom)

Relationships between quadriceps muscle size and muscle quality with leg muscle function in adults with cystic fibrosis **15:45 - 16:00**
Kenneth Wu (Toronto, Canada)

Thoracic movement screening in adults with cystic fibrosis: reliability of the Manchester musculoskeletal screening tool **16:00 - 16:15**
Julia Taylor (Manchester, United Kingdom)

The Modified Shuttle Test to predict survival in cystic fibrosis **16:15 - 16:30**
Wytze Doeleman (Utrecht, Netherlands)

Symposium
15:00 - 16:30 Room 11 (ABC)

SS01, Special Symposium - An evidence-based approach to managing cystic fibrosis: what Cochrane reviews do for us

Maggie McIlwaine (Vancouver, Canada)
Elinor Burrows (Liverpool, United Kingdom)

What is a Cochrane review and what it brought to CF **15:00 - 15:22**
Alan Smyth (Nottingham, United Kingdom)

What do Cochrane reviews tell us about mutation-specific therapies? **15:22 - 15:44**
Kevin Southern (Liverpool, United Kingdom)

Using evidence to support health care improvements **15:44 - 16:06**
Martin Wildman (Sheffield, United Kingdom)

The challenge of testing new drugs on children in an ethical and timely manner **16:06 - 16:30**
Benjamin S. Wilfond (Seattle, United States)

Scientific Programme

Workshop
15:00 - 16:30 Hall 2E

WS03, Abnormalities in cystic fibrosis cells and strategies to fix them

Cell biology / physiology

Marcus Mall (Berlin, Germany)
Michael Gray (Newcastle upon Tyne, United Kingdom)

ELX-02 increases full-length CFTR mRNA through nonsense mediated decay interruption **15:00 - 15:15**
Matthew Goddeeris (Waltham, United States)

Modulation of CFTR alters human epididymis protein 4 (HE4) expression in cystic fibrosis bronchial epithelial cells via NF-κB pathway **15:15 - 15:30**
Béla Nagy Jr. (Debrecen, Hungary)

CFTR malfunction is linked to mucus abnormal properties in cystic fibrosis **15:30 - 15:45**
Martial Delion (Brussels, Belgium)

Airway inflammasome activation and dysregulated S1P signaling in a cystic fibrosis-like model **15:45 - 16:00**
Hai Bac Tran (Adelaide, Australia)

In vitro neutrophil transmigration models to study neutrophil-epithelial interactions in cystic fibrosis airways of young children **16:00 - 16:15**
Luke Garratt (Perth, Australia)

TMEM16A potentiators: a new therapeutic opportunity for treating Cystic Fibrosis-Related Lung Disease **16:15 - 16:30**
Henry Danahay (Brighton, United Kingdom)

Workshop
15:00 - 16:30 Hall 1B

WS04, Diagnosis: still a challenge after thirty years

Diagnosis / Screening

Nico Derichs (Hannover, Germany)
Harriet Corvol (Paris, France)

Skin Wipe Test (SWT) as a non-invasive, fast, cheap and simple surrogate to conventional Macroduct sweat test: statistical data **15:00 - 15:15**
Pavol Durc (Brno, Czech Republic)

Beta-adrenergic sweat evaporimetric test in patients with an inconclusive diagnosis of cystic fibrosis **15:15 - 15:30**
Thao Nguyen-Khoa (Paris, France)

A non-invasive version of the beta-sweat test **15:30 - 15:45**
Audrey Reynaerts (Brussels, Belgium)

Cystic fibrosis in black African children in South Africa: a case control study **15:45 - 16:00**
Sandra Kwarteng Owusu (Cape Town, South Africa)

Scientific Programme

The TOPAZ study, a large-scale study in organoids derived from F508del homozygous cystic fibrosis patients treated with Orkambi **16:00 - 16:15**
Jasper Mullenders (Utrecht, Netherlands)

Development of the Rectal Organoid Morphology Analysis (ROMA) as a diagnostic test for cystic fibrosis **16:15 - 16:30**
Senne Cuyx (Leuven, Belgium)

Workshop
15:00 - 16:30 Hall 1C

WS05, Concerns of the future: biopsychosocial care

Nursing / Psychosocial

Beverly Govin (Liverpool, United Kingdom)
Pavla Hodkova (Prague, Czech Republic)

Investigation on care allowance levels for parents of children with cystic fibrosis at the Stockholm cystic fibrosis centre **15:00 - 15:15**
Eleonora Falk (Stockholm, Sweden)

Empowering patients with cystic fibrosis to participate in the administration of intravenous antibiotics in hospital **15:15 - 15:30**
Jason Swarbrooke (Leeds, United Kingdom)

A prospective multi-centre study of tablet and web-based audiometry to detect hearing loss in adults with cystic fibrosis **15:30 - 15:45**
Anand Shah (London, United Kingdom)

Implications of fatherhood in men with cystic fibrosis **15:45 - 16:00**
Brooke Bianco (Manchester, United Kingdom)

Use of opioids for pain management in individuals with cystic fibrosis **16:00 - 16:15**
Sarah Allgood (Baltimore, United States)

Changing the culture of the cystic fibrosis multidisciplinary team to discuss preferred place of death with patients **16:15 - 16:30**
Fiona Cathcart (London, United Kingdom)

Workshop
17:00 - 18:30 Hall 1A

WS06, Hot off the press: new data from drug trials

Clinical trials / new therapies

Margaret Rosenfeld (Seattle, United States)
Kris De Boeck (Leuven, Belgium)

Initial results evaluating combinations of the novel CFTR corrector PTI-801, potentiator PTI-808, and amplifier PTI-428 in cystic fibrosis subjects **17:00 - 17:15**
Damian Downey (Belfast, United Kingdom)

Scientific Programme

Initial results evaluating the add-on effect of the novel CFTR corrector PTI-801 in cystic fibrosis subjects **17:15 - 17:30**
Manu Jain (Chicago, United States)

Administration of ELX-02 to healthy volunteers demonstrates dose-linearity and proportionality as well as low inter-subject variability **17:30 - 17:45**
Andi Leubitz (Rehovot, Israel)

Ivacaftor (IVA) treatment in patients 6 to < 12 months old with cystic fibrosis with a CFTR gating mutation: results of a 2-part, single-arm, phase 3 study **17:45 - 18:00**
Jane Davies (London, United Kingdom)

Change in low-dose chest Computed Tomography (CT) scores after 72 weeks of tezacaftor/ivacaftor (TEZ/IVA) in patients (pts) with cystic fibrosis and ppFEV₁ ≥70%: an exploratory phase 2 study **18:00 - 18:15**
Claire Wainwright (Brisbane, Australia)

The inhaled epithelial sodium channel (ENaC) inhibitor BI 443651 is safe and well tolerated in adult patients with cystic fibrosis **18:15 - 18:30**
Stuart Elborn (Belfast, United Kingdom)

Workshop
17:00 - 18:30 Room 3 (AB)

WS07, Has Lung Clearance Index (LCI) come of age?

Anders Lindblad (Gothenburg, Sweden)
Mirjam Stahl (Heidelberg, Germany)

The applicability of published Lung Clearance Index (LCI) normative values to a local healthy reference population **17:00 - 17:15**
Katie Bayfield (Manchester, United Kingdom)

Inferring the distribution of ventilation in the lung from Multiple Breath Washout: a validation study in cystic fibrosis **17:15 - 17:30**
Carl Whitfield (Manchester, United Kingdom)

Effect of cumulative bacterial infection on the Lung Clearance Index in preschool children with cystic fibrosis **17:30 - 17:45**
Philippe Reix (Lyon, France)

Novel non-invasive assessment of ventilatory inhomogeneity in patients with cystic fibrosis and preserved FEV₁ **17:45 - 18:00**
Nick P Talbot (Oxford, United Kingdom)

Lack of correlation between patient reported outcomes (PROs) and Lung Clearance Index (LCI_{2.5}) among cystic fibrosis children with normal spirometry **18:00 - 18:15**
Jacquelyn Zirbes (Palo Alto, United States)

Clinical characteristics of patients with normal spirometry – not as normal as it would seem! **18:15 - 18:30**
Malena Cohen-Cymberknoh (Jerusalem, Israel)

Scientific Programme

Workshop
17:00 - 18:30 Room 11 (ABC)

WS08, Many Tarzans in the jungle of inflammation

Pulmonology

Carsten Schwarz (Berlin, Germany)
Robert Gray (Edinburgh, United Kingdom)

Calprotectin: the cystic fibrosis antigen regulates neutrophil migration during experimental lung inflammation and is a novel therapeutic target in cystic fibrosis **17:00 - 17:15**
Gareth Hardisty (Edinburgh, United Kingdom)

Protease inhibitors elicit anti-inflammatory effects in mice with Pseudomonas aeruginosa acute lung infection **17:15 - 17:30**
Angela Sandri (Verona, Italy)

Secreted cellular prion protein (PrP^C) participates in the cystic fibrosis inflammatory response: consequences on the bronchial epithelia barriers **17:30 - 17:45**
Mohamed Benharouga (Grenoble, France)

Metabolic reprogramming of cystic fibrosis macrophages by the IRE1α-XBP1 pathway leads to an exaggerated inflammatory response **17:45 - 18:00**
Samuel Lara Reyna (Leeds, United Kingdom)

Acid ceramidase as a potential therapeutic target in cystic fibrosis **18:00 - 18:15**
Aaron Ions Gardner (Newcastle upon Tyne, United Kingdom)

Impact of microRNA deregulation in cystic fibrosis macrophages **18:15 - 18:30**
Francesco Renato Luly (Rome, Italy)

Workshop
17:00 - 18:30 Hall 2E

WS09, Food for thought: nutrition across the ages

Nutrition / Nursing

Mandy Bryon (London, United Kingdom)
Claire A. Berry (Liverpool, United Kingdom)

Breastfeeding and growth in infants with cystic fibrosis diagnosed through newborn screening **17:00 - 17:15**
Anne Mørch Olesen (Aarhus, Denmark)

Does breastfeeding improve respiratory outcome in infants with cystic fibrosis? **17:15 - 17:30**
Laura Walker (Leeds, United Kingdom)

Problematic mealtime behavior of children with cystic fibrosis and its effects on parents **17:30 - 17:45**
Isolde Krug (Freiburg, Germany)

Scientific Programme

"Quand la muco s´invite à votre table" : a therapeutic education tool to explore the representations about food from parents of young screen children **17:45 - 18:00**
Tiphaine Bihouée (Nantes, France)

Perception, experience and relationship with food and eating in adults with cystic fibrosis **18:00 - 18:15**
Joanne Barrett (Birmingham, United Kingdom)

Dietary practices in adults with cystic fibrosis taking CFTR modulator therapies **18:15 - 18:30**
Claire Roden (Birmingham, United Kingdom)

Workshop
17:00 - 18:30 Hall 1B

WS10, Survival in cystic fibrosis and discussion of possible risk factors

Epidemiology/Radiology

Lutz Nährlich (Giessen, Germany)
Rebecca Cosgriff (London, United Kingdom)

Social inequalities in survival in cystic fibrosis: a joint modelling study using UK Registry data **17:00 - 17:15**
Daniela K. Schlüter (Lancaster, United Kingdom)

Investigating differences in outcomes in people with cystic fibrosis with a nonsense mutation, compared to the total cystic fibrosis patient population and patients homozygous for F508del **17:15 - 17:30**
Siobhan Carr (London, United Kingdom)

Improvements in outcomes in children with cystic fibrosis aged 16 years in Cork University Hospital from 2002-2018 **17:30 - 17:45**
Bryan Finn (Cork, Ireland)

Survival of patients with cystic fibrosis in Australia **17:45 - 18:00**
Susannah Ahern (Melbourne, Australia)

First report of cystic fibrosis patients´ survival from a region of Argentina: data collected by its own Registry **18:00 - 18:15**
Virginia D'Alessandro (La Plata, Argentina)

The UK cystic fibrosis transplant pathway: from evaluation to post-transplant survival using Registry data **18:15 - 18:30**
Ruth Keogh (London, United Kingdom)

Scientific Programme

Workshop
17:00 - 18:30 Hall 1C

WS11, Cystic Fibrosis-Related Bone Disease: when and how to assess it?

Gastroenterology / Liver Disease / Endocrinology / Metabolic Complications

Juliana Roda (Coimbra, Portugal)
Dilip Nazareth (Liverpool, United Kingdom)

Unexpected vertebral fractures in adults with cystic fibrosis **17:00 - 17:15**
Aoife Lynam (Southampton, United Kingdom)

Trabecular bone score is associated with lean mass index in cystic fibrosis **17:15 - 17:30**
Inger H. Mathiesen (Copenhagen, Denmark)

Predictors and prevalence of low bone mineral density amongst adult people with cystic fibrosis **17:30 - 17:45**
Alicja Ochota (Liverpool, United Kingdom)

BMI: a predictor of bone mineral density in adult people with cystic fibrosis
Alicja Ochota (Liverpool, United Kingdom)

Prevalence of low bone mineral density amongst adult people with cystic fibrosis
Alicja Ochota (Liverpool, United Kingdom)

Current clinical practice in the management of cystic fibrosis-related bone disease in a regional UK adult cystic fibrosis centre **17:45 - 18:00**
Kathryn Taylor (Leeds, United Kingdom)

Importance of bone density evaluation in paediatric patients with cystic fibrosis **18:00 - 18:15**
Juliana Roda (Coimbra, Portugal)

Joint disease in Swedish patients with cystic fibrosis **18:15 - 18:30**
Martin Larsson (Gothenburg, Sweden)

ECFS Tomorrow Session
17:00 - 18:00 ECFS Tomorrow Lounge

Working with parents of children/adolescents with CF and the child with CF

Sue Braun (Brussels, Belgium)
Angela Tijtgat (Brussels, Belgium)

Scientific Programme

Friday, 07 June 2019

Satellite Symposium
07:15 - 08:15 Hall 1B

Satellite Symposium

Please find the detailed program of the Satellite Symposia here.

Symposium
08:30 - 10:00 Hall 1A

S13, Pulmonary exacerbations

To gain knowledge on the physiologic and microbiologic events that define a pulmonary exacerbation; to describe practical tools for diagnosing a pulmonary exacerbations in practice and for clinical trial endpoints; to learn about evidence- based and common practice treatment of pulmonary exacerbations.

Patrick Flume (Charleston, United States)
Robert Gray (Edinburgh, United Kingdom)

Clinical trial versus real life diagnosis of exacerbation **08:30 - 08:52**
Ed McKone (Dublin, Ireland)

Microbiome changes during exacerbation **08:52 - 09:14**
Michael Tunney (Belfast, United Kingdom)

Novel biomarkers in the assessment of pulmonary exacerbations **09:14 - 09:36**
Robert Gray (Edinburgh, United Kingdom)

Treatment of pulmonary exacerbations in cystic fibrosis **09:36 - 10:00**
Patrick Flume (Charleston, United States)

Symposium
08:30 - 10:00 Room 3 (AB)

S14, New therapies for airway disease - "The long and winding road"

Learning Objectives:

- To understand the development of new therapies that target lung disease and the best methods to assess their efficacy.
- To provide an overview of the development of anti-inflammatory treatments in CF and their potential for clinical impact.
- To comprehensively explore the use of new muco-active drugs and the application of novel anti-infective agents in the changing landscape of lung disease.

Damian Downey (Belfast, United Kingdom)
Silvia Gartner (Barcelona, Spain)

Scientific Programme

Endpoints in airway disease **08:30 - 08:52**
Claire Wainwright (Brisbane, Australia)

Anti-inflammatory agents **08:52 - 09:14**
Stuart Elborn (Belfast, United Kingdom)

Mucoactive compounds **09:14 - 09:36**
Felix Ratjen (Toronto, Canada)

Anti-infectives **09:36 - 10:00**
Giovanni Taccetti (Florence, Italy)

Symposium
08:30 - 10:00 Room 11 (ABC)

S15, Pre-Post lung transplant GI, liver and metabolic issues in cystic fibrosis

Carsten Schwarz (Berlin, Germany)
Steve D. Freedman (Boston, United States)

Diabetes in the post transplant CF patient **08:30 - 08:52**
Sarah Collins (London, United Kingdom)

Bone disease before and after transplantation **08:52 - 09:14**
Sophie Guérin (Paris, France)

GI problems post-transplant from the stomach to the colon **09:14 - 09:36**
Lieven Dupont (Leuven, Belgium)

Important psychological themes after transplantation **09:36 - 10:00**
Trudy Havermans (Leuven, Belgium)

Symposium
08:30 - 10:00 Hall 2E

S16, Palliative care and advanced care planning

Learning Objectives:
To present a critical overview of Advanced care planning in Europe and identify key challenges and opportunities
To review best practice in palliative care in CF
To examine the literature on advanced care planning and its outcomes To highlight issues particular to advanced care planning in paediatric settings

Nichola McDuff (Wolverhampton, United Kingdom)
Pavla Hodkova (Prague, Czech Republic)

An overview of legal challenges and opportunities of advanced care planning across Europe **08:30 - 08:52**
Bérénice Prieur (Paris, France)
Juliette Champreux (Paris, France)

Best practice in palliative care in cystic fibrosis **08:52 - 09:14**
Majda Oštir (Ljubljana, Slovenia)

Scientific Programme

Moral distress as a consequence of poor advanced care planning **09:14 - 09:36**
Kath MacDonald (Edinburgh, United Kingdom)

Advanced care planning in the paediatric setting **09:36 - 10:00**
Yulia Gendler (Petah Tikva, Israel)

Symposium
08:30 - 10:00 Hall 1B

S17, Interactive Case Studies

Eitan Kerem (Jerusalem, Israel)
Daniel Peckham (Leeds, United Kingdom)

A 35-year old woman with cystic fibrosis and multiple challenging infections **08:30 - 08:52**
Bibi Uhre Nielsen (Copenhagen, Denmark)

Management of pneumothorax in a pregnant patient with cystic fibrosis **08:52 - 09:14**
Alex Gileles-Hillel (Jerusalem, Israel)

Eradication of Burkholderia cepacia in paediatric patients with cystic fibrosis **09:14 - 09:36**
Silvia Garuti (Genova, Italy)

Looking beyond the portal: cystic fibrosis, branching out from the bronchial to the biliary tree **09:36 - 10:00**
Louise Selby (London, United Kingdom)

Symposium
08:30 - 10:00 Hall 1C

S18, Cell-based therapies

Upon completion of this session participants should be able to:

- Describe the importance of patient-derived airway cells to categorize CFTR modulators
- Evaluate the use of IPSC cells to identify novel CFTR modulators
- Assess the impact of the discovery of ionocytes on CF therapeutic strategies
- Understand recent progress in cell based therapy for CF

Nicoletta Pedemonte (Genoa, Italy)
Ulrich Martin (Hannover, Germany)

Human mesangioblast as an innovative cell based therapy for cystic fibrosis **08:30 - 08:52**
Marco Cassano (Milan, Italy)

IPS for identification of novel drugs for cystic fibrosis **08:52 - 09:14**
Ulrich Martin (Hannover, Germany)

Scientific Programme

Phenotypic profiling of CFTR modulators in patient-derived respiratory cystic fibrosis affected epithelia **09:14 - 09:36**
Christine Bear (Toronto, Canada)

Lineage hierarchy in the airways and implication of CFTR –expressing ionocytes for cystic fibrosis disease therapy **09:36 - 10:00**
Lindsey Wingert (Cambridge, United States)

Symposium
10:30 - 12:00 Hall 1A

S19, Dilemmas in CFTR modulators

Learning Objectives:

- To understand the development of new therapies that target lung disease and the best methods to assess their efficacy.
- To provide an overview of the development of anti-inflammatory treatments in CF and their potential for clinical impact.
- To comprehensively explore the use of new muco-active drugs and the application of novel anti-infective agents in the changing landscape of lung disease.

Anne Prevotat (Lille, France)
Dorota Sands (Warsaw, Poland)

Peering down the pipeline **10:30 - 10:52**
Silke van Koningsbruggen-Rietschel (Cologne, Germany)

Is lung function the only player in town? **10:52 - 11:14**
Barry Plant (Cork, Ireland)

Will CFTR modulators reduce the burden of care? **11:14 - 11:36**
Nicholas Simmonds (London, United Kingdom)

CFTR modulators and adverse events **11:36 - 12:00**
Steven M. Rowe (Birmingham, United States)

Symposium
10:30 - 12:00 Room 3 (AB)

S20, Modernising microbial diagnostics

This session will:

- Discuss issues related to collection and processing of clinical samples to inform treatment of respiratory infection in CF
- Discuss the advantages and disadvantages of both routine culture and microbiome-based techniques for detection of respiratory infection in CF
- Describe both microbiological information currently collected in Registeries and what information should be collected in the future to ensure collection of all potentially clinically relevant microbiological data

Debby Bogaert (Edinburgh, United Kingdom)
Alessandra Bragonzi (Milan, Italy)

Scientific Programme

Getting the right sample **10:30 - 10:52**
Julian Forton (Cardiff, United Kingdom)

Miles to go; why microbiome analysis is not ready yet to inform CF clinical care **10:52 - 11:14**
Pradeep K. Singh (Seattle, United States)

Culture is not enough. We need microbiome based diagnostics **11:14 - 11:36**
Sébastien Boutin (Heidelberg, Germany)

Microbiology -The future of Registries **11:36 - 12:00**
Alexander Elbert (Bethesda, United States)

Symposium
10:30 - 12:00 Room 11 (ABC)

S21, Prescribing complexities in cystic fibrosis

Learning Objectives:

- To understand how the burden of treatment affects people with CF.
- To learn about drug-drug interactions of CFTR modulators and drug related toxicity in CF.
- To describe the optimal approach to managing antibiotic allergy in CF.

Elaine Bowman (London, United Kingdom)
Marijke Proesmans (Leuven, Belgium)

The patient’s perspective **10:30 - 10:52**
Yvonne Prins (Amsterdam, Netherlands)

Drug-drug interactions associated with the CFTR modulators **10:52 - 11:14**
Martin Hug (Freiburg, Germany)

Managing toxicities related to antibiotic treatment **11:14 - 11:36**
Paul Whitaker (Leeds, United Kingdom)

Management of antibiotic allergy in cystic fibrosis **11:36 - 12:00**
Jobst Roehmel (Berlin, Germany)

Symposium
10:30 - 12:00 Hall 2E

S22, Micronutrition in cystic fibrosis - "Strawberry fields forever"

Anne Munck (Paris, France)
Chris Smith (Brighton, United Kingdom)

Antioxidants in cystic fibrosis **10:30 - 10:52**
Oana Ciofu (Copenhagen, Denmark)

Essential fatty acids **10:52 - 11:14**
Birgitta Strandvik (Stockholm, Sweden)

Scientific Programme

Sodium status and replacement in cystic fibrosis adults and children **11:14 - 11:36**
Dimitri Declercq (Ghent, Belgium)

Influence of CFTR modulation on nutritional status in cystic fibrosis **11:36 - 12:00**
Anne Munck (Paris, France)

Symposium
10:30 - 12:00 Hall 1B

S23, Some are more equal than others: tackling inequity in cystic fibrosis - "Carry that weight"

Delegates will deepen their understanding of the scale and impact of inequity in cystic fibrosis, with a particular focus on social deprivation within Europe, access to therapies, and health literacy. As well as developing awareness of variation across populations, speakers will introduce methods of addressing inequity to optimise patient care that can be implemented locally.

Nataliya Kashirskaya (Moscow, Russian Federation)
Vincent Gulmans (Baarn, Netherlands)

The overall effect of social deprivation on people with cystic fibrosis **10:30 - 10:52**
David Taylor-Robinson (Liverpool, United Kingdom)

Health literacy: what does it mean? Why is it important in cystic fibrosis **10:52 - 11:14**
Abaigeal Jackson (Dublin, Ireland)

Towards achieving equitable cystic fibrosis outcomes **11:14 - 11:36**
Michael S. Schechter (Richmond, United States)

Patient priorities across Europe **11:36 - 12:00**
Jacquelien Noordhoek (Baarn, Netherlands)

Symposium
10:30 - 12:00 Hall 1C

S24, Journal of Cystic Fibrosis / Lancet Respiratory Medicine -"Paperback writer"

This session will provide a forum for attendees to interact with the authors and editors of papers published in the Journals. Papers presented will be recent publications, selected by the editors and attendees will have the opportunity to hear presentations directly from the authors and editors, and address questions to both the authors and editors. The discussion is intended to provide insights into these papers, the selection process, and how the research applies directly to the field of cystic fibrosis.

Scott Bell (Brisbane, Australia)
Emma Grainger (London, United Kingdom)

Welcome and introduction **10:30 - 10:35**
Emma Grainger (London, United Kingdom)

Scientific Programme

Lancet Respiratory Medicine #1 Safety, pharmacokinetics, and pharmacodynamics of lumacaftor and ivacaftor combination therapy in children aged 2–5 years with cystic fibrosis homozygous for F508del-CFTR: an open-label phase 3 study — **10:35 - 10:55**

John Mcnamara (Minneapolis, United States)
Patrick Flume (Charleston, United States)

Journal of Cystic Fibrosis #1 Oxidative stress and abnormal bioactive lipids in early cystic fibrosis lung disease — **10:55 - 11:15**

Bob Scholte (Rotterdam, Netherlands)
Cliff Taggart (Belfast, United Kingdom)

Lancet Respiratory Medicine #2 Randomised trial of inhaled hypertonic saline in preschool children with cystic fibrosis: the SHIP study — **11:15 - 11:35**

Felix Ratjen (Toronto, Canada)
Kevin Southern (Liverpool, United Kingdom)

Journal of Cystic Fibrosis #2 International approaches for delivery of positive newborn bloodspot screening results for CF — **11:35 - 11:55**

Jane Chudleigh (London, United Kingdom)
Carlo Castellani (Genoa, Italy)

General Discussion and Close — **11:55 - 12:00**

Scott Bell (Brisbane, Australia)

Satellite Symposium
12:30 - 14:00 — Room 11 (ABC)

Satellite Symposium

Please find the detailed program of the Satellite Symposia here.

Satellite Symposium
12:30 - 14:00 — Hall 2E

Satellite Symposium

Please find the detailed program of the Satellite Symposia here.

Meet the Experts
12:45 - 13:45 — ePoster Corners

Meet the Experts 4: Management of asymptomatic patients with CF and CF-SPID diagnosed through newborn screening

ePoster Corner A

Silvia Gartner (Barcelona, Spain)
Elinor Burrows (Liverpool, United Kingdom)

Scientific Programme

Meet the Experts
12:45 - 13:45 ePoster Corners

Meet the Experts 5: Why is mucus accumulation a problem in cystic fibrosis and how to tackle it

ePoster Corner B

Richard Boucher (Chapel Hill, United States)
Marcus Mall (Berlin, Germany)

Meet the Experts
12:45 - 13:45 ePoster Corners

Meet the Experts 6: How to publish a scientific paper

ePoster Corner C

Scott Bell (Brisbane, Australia)
Patrick Flume (Charleston, United States)
Carlo Castellani (Genoa, Italy)

ECFS Tomorrow Session
12:45 - 13:45 ECFS Tomorrow Lounge

The changing picture of nutritional management in cystic fibrosis

Sejal Pandya (Liverpool, United Kingdom)
Clare Woodland (Liverpool, United Kingdom)

Meet the Experts
12:45 - 13:45 Room 4B

Meet the Experts 7 - Nutritional challenges and management of surgical meconium ileus infants

This Meet the Experts Session will take place in Room 4B.

Ruth Watling (United Kingdom)

ePoster Session
14:00 - 15:00 ePoster Corners

ePoster Session 4 - Vitamins and other vital minerals

ePoster Corner A

Siobhan Carr (London, United Kingdom)

Scientific Programme

Open randomised study on docosahexaenoic acid, 5-methyltetrahydrofolate and vitamin B12 supplementation in cystic fibrosis paediatric patients: focus on fatty acids, inflammation and blood cell membranes **14:00 - 14:06**
Sira Cordioli (Verona, Italy)

Whole-genome sequencing reveals that genetic variations predict effectiveness of vitamin D supplementation in young children with cystic fibrosis **14:06 - 14:12**
HuiChuan Lai (Madison, United States)

Vitamin D status in children with cystic fibrosis in the Russian Federation in the winter season **14:12 - 14:18**
Elena Zhekaite (Moscow, Russian Federation)

Vitamin D deficiency in patients from three regions of the Russian Federation **14:18 - 14:24**
Elena Kondratyeva (Moscow, Russian Federation)

High dose colecalciferol - is daily therapy effective? **14:24 - 14:30**
Lianne Robb (Edinburgh, United Kingdom)

Vitamin E in paediatric patients with cystic fibrosis – is supplementation routinely required? **14:30 - 14:36**
Sian Phillips (Southampton, United Kingdom)

Vitamin K in adults with cystic fibrosis is correlated to fat mass and insulin secretion **14:36 - 14:42**
Anne Bonhoure (Montreal, Canada)

Anemia is more prevalent in early infancy and associated with iron intake in infants with cystic fibrosis **14:42 - 14:48**
HuiChuan Lai (Madison, United States)

A retrospective review of iron status and supplementation in a paediatric regional cystic fibrosis population **14:48 - 14:54**
Sophie King (London, United Kingdom)

Transferrin saturation in the assessment of iron deficiency in adults with cystic fibrosis **14:54 - 15:00**
Edward David (Oxford, United Kingdom)

ePoster Session
14:00 - 15:00 ePoster Corners

ePoster Session 5 - Digital technology to support people with cystic fibrosis

ePoster Corner B

Trudy Havermans (Leuven, Belgium)
Mandy Bryon (London, United Kingdom)

CyFi Space: a smartphone application to support social connectedness and well-being in young people living with cystic fibrosis **14:00 - 14:07**
Jacinta Francis (Perth, Australia)

Scientific Programme

The effect of providing patient online access to electronic health care records (EHR) in cystic fibrosis **14:07 - 14:14**
Akhil Sawant (Leeds, United Kingdom)

CF Hero - smartphone coach and friend **14:14 - 14:21**
Marek Vosecký (Prague, Czech Republic)

A digital solution for virtual consultation and sharing health data in adults with cystic fibrosis **14:21 - 14:28**
Helen Parrott (London, United Kingdom)

Understanding objective adherence to preventative inhaled therapies at a centre level for quality improvement - a CFHealthHub (CFHH) improvement collaborative study **14:28 - 14:36**
Zhe Hui Hoo (Sheffield, United Kingdom)

Quality improvement within a learning health system: using PDSA cycles to embed a digital behaviour change platform, CFHealthHub, in routine care **14:36 - 14:44**
Charlotte Carolan (Sheffield, United Kingdom)

CLInical Monitoring and Biomarkers to stratify severity and predict outcomes in children with cystic fibrosis (CLIMB-CF): results from the feasibility study **14:44 - 14:52**
Claire Edmondson (London, United Kingdom)

MyCyFAPP project: use of a mobile application for self-management of PERT improves gastrointestinal related quality of life in children with cystic fibrosis **14:52 - 15:00**
Kris De Boeck (Leuven, Belgium)

ePoster Session
14:00 - 15:00 ePoster Corners

ePoster Session 6 - Problematic pathogens and novel therapeutics

ePoster Corner C

Joanne Fothergill (Liverpool, United Kingdom)

Prevalence and clinical significance of Staphylococcus aureus small-colony variants: a prospective longitudinal, multicentre study **14:00 - 14:06**
Daniel Wolter (Seattle, United States)

Does spa type play a role in establishment of chronic MRSA infection? **14:06 - 14:12**
Deirdre Gilpin (Belfast, United Kingdom)

Age features of pharmacotherapy with amoxicillin preparations in children with cystic fibrosis **14:12 - 14:18**
Vera Shadrina (Perm, Russian Federation)

A Population level Multi-Locus Sequence Typing method (PopMLST) to detect multiple Pseudomonas aeruginosa and Staphylococcus strains in cystic fibrosis sputum **14:18 - 14:25**
Sarah J Morgan (Seattle, United States)

Scientific Programme

Combat of resistance development with collateral sensitivity of Pseudomonas aeruginosa cystic fibrosis lung isolates **14:25 - 14:32**
Mette Kolpen (Copenhagen, Denmark)

Variability in response of chronic Pseudomonas aeruginosa isolates to a lytic bacteriophage mix and standard antibiotics over a year **14:32 - 14:39**
Isaac Martin (London, United Kingdom)

Synergistic killing of polymyxin B in combination with the CFTR potentiator ivacaftor against polymyxin-resistant Pseudomonas aeruginosa isolates from the cystic fibrosis paediatric lung: an untargeted metabolomics study **14:39 - 14:46**
Elena Katharina Schneider-Futschik (Parkville, Australia)

A polycationic glycopolymer disrupts Mycobacterium avium and Mycobacterium abscessus biofilms and potentiates antibiotics against them **14:46 - 14:53**
Shenda Baker (Claremont, United States)

Exophiala isolation in children with cystic fibrosis does not appear to cause clinical decline **14:53 - 15:00**
Rowena Mills (Manchester, United Kingdom)

ePoster Session
14:00 - 15:00 ePoster Corners

Poster Viewing 2

Phenotypic features of cystic fibrosis gene mutations in patients from the Russian Federation
Yulia Gorinova (Moscow, Russian Federation)

Phenotypic assessment of patients homozygous and heterozygous for E92K mutation
Yulia Gorinova (Moscow, Russian Federation)

New mutations in the CFTR gene
Sergey Semykin (Moscow, Russian Federation)

Killer Cell Immunoglobulin-like Receptors (KIR) genes repertoire among cystic fibrosis patients
Kateryna Sosnina (Lviv, Ukraine)

Comparative analysis of F508del/F508del, F508del/CFTRdele2,3 and CFTRdele2,3/CFTRdele2,3 genotypes on National Cystic Fibrosis Registry Data (2017)
Nataliya Kashirskaya (Moscow, Russian Federation)

Characteristic of genetic variants of patients with cystic fibrosis of the Russian Federation according to the 2017 register and the possibility of targeted therapy
Elena Kondratyeva (Moscow, Russian Federation)

Scientific Programme

Features of the clinical course of cystic fibrosis due to the severity of the genotype (according to the Cystic Fibrosis Patient Registry of the Russian Federation (2017)).
Elena Amelina (Moscow, Russian Federation)

Characteristics of patients, carriers of genetic variant E92K
Elena Kondratyeva (Moscow, Russian Federation)

Characteristics of genetic variant 3272-16T˃A according to the register of patients with cystic fibrosis in 2017
Elena Kondratyeva (Moscow, Russian Federation)

In the era of CFTR modulators, does newborn screening detect cystic fibrosis patients with residual function mutations?
Carolina Crespo (Ciudad de Buenos Aires, Argentina)

Comprehensive analysis of CFTR mutation spectrum in Russians
Rena Zinchenko (Moscow, Russian Federation)

CFTR-NGS, an expanded version of the CFTR-France database for the interpretation of whole CFTR next generation sequencing data
Caroline Raynal (Montpellier, France)

Penetrance is a critical parameter for assessing the disease liability of CFTR variants
Emmanuelle Girodon (Paris, France)

Two novel CFTR gene mutations in adult patient with mild cystic fibrosis
Stanislav Krasovsky (Moscow, Russian Federation)

CFTR RealTime Panel using pre-plated LightSNiP assays is a good strategy for CFTR genotyping
Iveta Valaskova (Brno, Czech Republic)

Novel CFTR genetic variants in cystic fibrosis patients from the Russian Federation (according to the Cystic Fibrosis Patients Register of the Russian Federation in 2017)
Nika Petrova (Moscow, Russian Federation)

Update of CFTR-France: toward a more relevant dataset for predicting the impact of rare CFTR variants
Caroline Raynal (Montpellier, France)

CFTR mutations and genotypes in Russian CBAVD patients
Vyacheslav Chernykh (Moscow, Russian Federation)

Variants in the CFTR gene: a predisposition factor to aquagenic palmoplantar keratoderma
Emmanuelle Girodon (Paris, France)

Combinations of pathogenic variants of the nucleotide sequence in the CFTR gene at formation the "mild" genotype in cystic fibrosis
Vera Shadrina (Perm, Russian Federation)

CFTR loss of function leads to increased ROS and endothelial dysfunction
Mathias Declercq (Leuven, Belgium)

Scientific Programme

Characterisation of disease-associated CFTR mutants found in Japanese cystic fibrosis patients
Yoshiro Sohma (Ohtawara, Japan)

Development of an anti-inflammatory star-polypeptide microRNA delivery system with therapeutic applications in cystic fibrosis
Rachel Gaul (Dublin, Ireland)

Difference in mitochondrial function between male and female cystic fibrosis patients homozygous for F508del mutation
John Wilson (Melbourne, Australia)

The PDZ-containing domain protein, CAL, links CFTR to the regulation of inflammation
Liudmila Cebotaru (Baltimore, United States)

A pilot study on oxidative stress in cystic fibrosis: the involvement of miR-125b and HO-1
Samantha Cialfi (Rome, Italy)

Comprehensive analysis of chemical structures that have been tested as CFTR-activating substances in a public available database CandActCFTR
Manuel Manfred Nietert (Goettingen, Germany)

Autophagy in cystic fibrosis
Jonathan Holbrook (Leeds, United Kingdom)

Curvilinearity (Curv) in healthy children and those with cystic fibrosis
Samantha Irving (London, United Kingdom)

Ivacaftor responsiveness of two cystic fibrosis mutations that affect the same residue in the twelfth transmembrane segment of CFTR
Hongyu Li (Bristol, United Kingdom)

Ivacaftor alleviates CFTR inhibition by the carbon monoxide-releasing small molecule CORM-2
Mayuree Rodrat (Bristol, United Kingdom)

Assessment of sputum glucose and sputum lactate using blood gas analyser during oral glucose tolerance test in cystic fibrosis
Bibi Uhre Nielsen (Copenhagen, Denmark)

Nasal epithelial cells as an experimental model in cystic fibrosis
Iram Haq (Newcastle upon Tyne, United Kingdom)

MRI as the new gold standard in the assessment of cystic fibrosis lung disease severity? A bespoke cystic fibrosis-MRI protocol combining quantitative ventilation and structural MRI measures to replace CT
Thomas Semple (London, United Kingdom)

How does it really feel to have a sweat test? A cystic fibrosis team´s perspective
Noreen West (Sheffield, United Kingdom)

Newborn Screening Cork University Hospital 2011-2019 - impact of gestational age on sweat testing
Aoife Gallagher (Cork, Ireland)

Scientific Programme

Skin-wipe sweat samples: sensitivity and specificity of (Cl-+ Na+)/K+ ratio
Miriam Malá (Brno, Czech Republic)

Changing pattern of sweat testing in the post-newborn cystic fibrosis screening era within a regional service 2007-2018
Tim Newson (Canterbury, United Kingdom)

The challenge of carrying “new” mutation for the specific ethnic group and nationality
Guergana Petrova (Sofia, Bulgaria)

Cystic fibrosis – 30-year follow-up in Central Northern Bulgarian region
Vania Nedkova (Pleven, Bulgaria)

Clinical comparison of cystic fibrosis patients diagnosed through newborn screening in the first year of life with mutation 3849+10 kbC->T with homozygotes F508del
Katarzyna Zybert (Warsaw, Poland)

Performance of genetic tests in cystic fibrosis patients from a reference centre in Argentina
Silvina Lubovich (Ciudad de Buenos Aires, Argentina)

Genetic revision of Hungarian cystic fibrosis patients
Orsolya Orosz (Debrecen, Hungary)

Clinical characteristics, gender differences and outcomes in adult-diagnosed cystic fibrosis and cystic fibrosis-related disorders (CFRD)
Stephen Bourke (Newcastle upon Tyne, United Kingdom)

Results from a newborn screening (NBS) pilot study for cystic fibrosis in the Republic of Macedonia
Stojka Fustik (Skopje, Macedonia, the Republic of)

Cystic fibrosis newborn screening (CF NBS) in the Czech Republic: analysis of the false negative results
Andrea Holubová (Prague, Czech Republic)

Experience after 1 year of neonatal screening for cystic fibrosis in Luxembourg
Hélène de la Barrière (Luxembourg, Luxembourg)

An audit of the timeliness of processing newborn bloodspot screening results in a regional UK cystic fibrosis centre
Lubna Mohammed Abdul Wajid (Liverpool, United Kingdom)

Changing population and treatment of children and young people with cystic fibrosis in post newborn screening era in a local shared care service
Tim Newson (Canterbury, United Kingdom)

Time to first contact with the cystic fibrosis team for families of infants with a positive newborn screening test for cystic fibrosis or suspected surgical meconium ileus
Sandra Bott (Sheffield, United Kingdom)

Scientific Programme

An audit of the management of newborn screened infants at the Liverpool paediatric cystic fibrosis centre
Christina Dale (Liverpool, United Kingdom)

Evaluation of cystic fibrosis (CF) Nursing Standards for Newborn Screened Diagnosis – do we deliver?
Lauren Bartlett (Birmingham, United Kingdom)

Parents´ experience of receiving a diagnosis of cystic fibrosis through the UK Newborn Blood Spot Screening programme
Holly Jones (Exeter, United Kingdom)

Symptoms in early infancy and impact of subsequent growth and infection on lung function age 6: pathway analysis of UK Cystic Fibrosis Registry
Amy MacDougall (London, United Kingdom)

A profile of children with cystic fibrosis in Gaza
Afnan Abu-Foul (Gaza, Palestinian Territory, Occupied)

Outcomes post transitional from a paediatric to an adult cystic fibrosis centre in Argentina

Ageing in cystic fibrosis: experience of a large UK cystic fibrosis centre
Sarah Paterson (Manchester, United Kingdom)

First results of Turkish National Cystic Fibrosis Registry
Güzin Cinel (Ankara, Turkey)

Genetic features of patients with cystic fibrosis living in the territory Volga Federal District (VFD) of the Russian Federation (RF) according to the Register of patients with cystic fibrosis in Russia in 2017
Vera Shadrina (Perm, Russian Federation)

The significance of the National Cystic Fibrosis Patient Registry for the optimisation of care for patients with cystic fibrosis in the Russian Federation
Nataliya Kashirskaya (Moscow, Russian Federation)

Albanian cystic fibrosis patients during the year of follow-up 2017 - data from ECFSPR
Irena Kasmi (Tirana, Albania)

Survival analysis of the German Cystic Fibrosis Registry
Lutz Nährlich (Giessen, Germany)

Comparison of the characteristics of patients enrolled in the 2016 French Cystic Fibrosis Registry according to the value of their sweat test
Morgane Willaume (Angers, France)

Gradually improving health status of adults with cystic fibrosis from 2008 to 2017
Teresa Fuchs (Innsbruck, Austria)

Disease progression and burden in patients with cystic fibrosis homozygous for F508del across Europe in an observational registry (VOICE Study)
Ed McKone (Dublin, Ireland)

Scientific Programme

Hospitalisations among children with cystic fibrosis aged < 6 years
Teja Thorat (Boston, United States)

Describing treatment burden in people with cystic fibrosis: analysis of the UK Cystic Fibrosis Registry
Andrew Lee (London, United Kingdom)

Adherence to long-term therapies in cystic fibrosis: a French cross-sectional study linking prescribing, dispensing and hospitalisation data
Quitterie Reynaud (Lyon, France)

The effect of distance from specialist health centre on disease severity in cystic fibrosis in the UK
Olivia Murrin (London, United Kingdom)

Linkage of the UK cystic fibrosis Registry with electronic health records in Wales: a new resource for research
Rowena Griffiths (Swansea, United Kingdom)

Predictors of lung function decline in adult-diagnosed cystic fibrosis
Sameer Desai (Vancouver, Canada)

Cystic fibrosis infections and their impact on lung function - a tertiary care study in Saudi Arabia
Adnan Zafar (Riyadh, Saudi Arabia)

The prevalence of pathogenic organisms in the airways of Irish preschool children with cystic fibrosis
Kathryn Hulme (Sydney, Australia)

Socio-environmental risk factors for methicillin resistant Staphylococcus aureus (MRSA) infection in paediatric cystic fibrosis patients
Gabriela Oates (Birmingham, United States)

How much does where you live matter in NTM? – a novel spatial analysis of geographical variation in NTM infection in children with cystic fibrosis
Matthew Thomas (Newcastle upon Tyne, United Kingdom)

Influenza vaccination coverage rate in children with cystic fibrosis – a single centre experience
Ana Kotnik Pirš (Ljubljana, Slovenia)

Early life exposure to cigarettes is associated with adverse long-term health outcomes in a large, multicentre cohort
Margaret Rosenfeld (Seattle, United States)

Assessment of prevalence of tobacco use and Secondhand Smoke exposure (SHSe) in a cohort of cystic fibrosis patients, older than 15 years, followed in the North-West Cystic Fibrosis Network (France)
Sophie Ramel (Roscoff, France)

The European Cystic Fibrosis Society Patient Registry (ECFSPR) data validation programme: accuracy and consistency of data
Lutz Nährlich (Giessen, Germany)

Scientific Programme

Emerging registry uses requires adaptable systems: reinventing the Australian Cystic Fibrosis Data Registry
Susannah Ahern (Melbourne, Australia)

UK Cystic Fibrosis Registry data validation programme
Elaine Gunn (London, United Kingdom)

Coproducing cystic fibrosis care: a Registry-enabled learning health system
Alex Gifford (Lebanon, NH, United States)

A review of unscheduled patient contact with a paediatric cystic fibrosis team
Luise Russell (Manchester, United Kingdom)

Investigating time between annual review encounters in the UK Cystic Fibrosis Registry
Elliot McClenaghan (London, United Kingdom)

Successful development of a new independent adult cystic fibrosis service in Blackpool, UK
Tarek Saba (Blackpool, United Kingdom)

Steps and challenges: walking through setting up and evaluating a cystic fibrosis network clinic
Clare Onyon (Worcester, United Kingdom)

The impact of fifteen years of research funding by a patient organisation
Elise Lammertyn (Brussels, Belgium)

ELX-02 pharmacokinetic profile appropriate for cystic fibrosis patient use
Andi Leubitz (Rehovot, Israel)

Real world ivacaftor efficacy in children: five years on…
Evie Alexandra Robson (Leeds, United Kingdom)

Use of ivacaftor (IVA) in patients heterozygous for R117H mutation: real-life experience in a large UK adult cystic fibrosis centre
Giulia Spoletini (Leeds, United Kingdom)

Ivacaftor treatment in patients with severe lung disease carrying CFTR mutations with residual function
Donatello Salvatore (Potenza, Italy)

Clinical stabilisation following ivacaftor in patients with cystic fibrosis, severe lung disease and rare CFTR mutation: a report of two cases
Giulia Spoletini (Leeds, United Kingdom)

The effect of ivacaftor on adult cystic fibrosis patients at the Royal Hospital in Oman
Zakia Al-Rashdi (Muscat, Oman)

Ivacaftor therapy on cystic fibrosis transmembrane conductance regulator function is evaluated in a patient with 3849+10kbC>T mutation
Yin Yu (Heidelberg, Germany)

Scientific Programme

CFTR modulator theratyping and functional impact of the rare CFTR genotype W57G/A234D in a cystic fibrosis patient
Francesca Pauro (verona, Italy)

Ivacaftor withdrawal syndrome during a randomised placebo-controlled cross-over study
Dominic Keating (Melbourne, Australia)

Adverse drug reactions and discontinuation rate during the first year on Orkambi – the earliest results of the STORM study
Edwin Brokaar (The Hague, Netherlands)

Clinical effect of lumacaftor/ivacaftor in F508del homozygous cystic fibrosis patients with FEV₁≥90% predicted at baseline
Bente L Aalbers (Utrecht, Netherlands)

Effects of lumacaftor/ivacaftor therapy on lung disease detected by magnetic resonance imaging in F508del homozygous patients with cystic fibrosis
Simon Graeber (Berlin, Germany)

Key outcomes in cystic fibrosis patients treated with Orkambi for 12 months: real-world data from the Irish Cystic Fibrosis Registry
Laura Kirwan (Dublin, Ireland)

Real-world Orkambi cohort CorK study (ROCK) – a prospective twelve months' analysis addressing the effectiveness of CFTR modulation in patients with cystic fibrosis homozygous for F508del CFTR
Parniya Arooj (Cork, Ireland)

Real-life initiation of lumacaftor/ivacaftor in adolescents and adults homozygous for the F508del CFTR mutation: a French nationwide study
Pierre-Régis Burgel (Paris, France)

The effect of lumacaftor/ivacaftor on the severity of cystic fibrosis pulmonary exacerbations in patients with F508del homozygous cystic fibrosis
Karin Yaacoby-Bianu (Haifa, Israel)

Two years´ experience of lumacaftor/ivacaftor treatment at an adult cystic fibrosis centre in Athens, Greece
Filia Diamantea (Athens, Greece)

Liver tests in F508del homozygous cystic fibrosis patients on Orkambi
Felicia Paluck (Limerick, Ireland)

Transition: an observational study of the effects of transition from lumacaftor/ivacaftor to tezacaftor/ivacaftor
Jennifer Taylor-Cousar (Denver, United States)

Tolerance and safety of inhaled combination 7% hypertonic saline solution and 0.1% hyaluronic acid in cystic fibrosis patients: observational study
Elena Amelina (Moscow, Russian Federation)

Single and multiple doses of the inhaled ENaC inhibitor BI 443651 are well tolerated in healthy males
Maud Gordat (Reims, France)

Scientific Programme

The inhaled ENaC inhibitor BI 443651 does not affect response to methacholine but induces post-inhalation airway obstruction and cough in mild asthmatics

Naimat Khan (Manchester, United Kingdom)

BI 443651 and BI 1265162 demonstrate in vitro inhibition of epithelial sodium channel (ENaC) in the Ussing chamber

Peter Nickolaus (Biberach, Germany)

Both BI 443651 and BI 1265162 show inhibition of ENaC-mediated in vitro water resorption

Peter Nickolaus (Biberach, Germany)

**Both BI 443651 and BI 1265162 demonstrate inhibition of the liquid absorption from the rat airway epithelium in vivo **

Peter Nickolaus (Biberach, Germany)

Long term toxicity studies confirm good safety profile for OligoG dry powder for inhalation

Philip Rye (Sandvika, Norway)

Clinical trials in pre-school children with cystic fibrosis; are we measuring the right outcomes?

Jared Murphy (Liverpool, United Kingdom)

Cataloguing outcome measures of cystic fibrosis clinical studies

Natalia Cirilli (Ancona, Italy)

Withdrawing existing chronic therapies in people with cystic fibrosis who benefit from highly effective CFTR modulator drugs

David Nichols (Seattle, United States)

Physiotherapy: at what cost? Parental experience of physiotherapy for infants with cystic fibrosis

Kristen Andrews (Albury, Australia)

Influence of spirometry technology on lung function measurements in adults with cystic fibrosis

Ian Waller (Manchester, United Kingdom)

Physiotherapy management of Cystic Fibrosis Screen Positive, Inconclusive Diagnosis (CFSPID) infants in the UK and Ireland

Elaine Edwards (Leeds, United Kingdom)

Baby PEP or percussion. Is there a clear winner?

Julie Simpson (Birmingham, United Kingdom)

"Mind the Gap"; variation in advice given to cystic fibrosis patients regarding the gap between inhalation of Dornase Alfa and inhaled antibiotics across the UK

Catherine Brown (Birmingham, United Kingdom)

The effects of ivacaftor on resting energy expenditure, exercise capacity, and body composition in patients with cystic fibrosis, heterozygous for a S1251N mutation

Marcella Burghard (Utrecht, Netherlands)

Scientific Programme

How often do under 2 year-olds cough during cough swabs? Does it make any difference to the microbiology results? Audit of samples at a tertiary cystic fibrosis centre

Tamara Orska (London, United Kingdom)

Inhaled medication challenges in cystic fibrosis: can we constrict our practice?

Melissa Richmond (Vancouver, Canada)

Technical support requirements for remote monitoring of physiotherapy in children with cystic fibrosis

Emma Raywood (London, United Kingdom)

A before-and-after feasibility study of an intervention to increase chest physiotherapy adherence among young children with cystic fibrosis

Emma France (Stirling, United Kingdom)

Tracking adherence through I-neb: you never stop learning!

Federica Carta (Milano, Italy)

Implementation of systematic physiotherapeutic control in adult patients with cystic fibrosis

Line Marie Dannemann Pedersen (Copenhagen, Denmark)

The development of a multi-media information package (MMIP) to support aerosolised drug delivery for young people with cystic fibrosis

Pamela McCormack (Liverpool, United Kingdom)

A qualitative assessment of the relative benefits of Insight on-line and I-adhere software in assessing nebuliser usage

Caroline Yonge (Southampton, United Kingdom)

Does a text message prompt increase the number of I-nebs ® available to download in clinic?

Shehnaz Raniwalla (London, United Kingdom)

The Modified Shuttle Walk Test in clinically stable children with cystic fibrosis: a 10-year review

Karen Ingoldsby (Dublin, Ireland)

Audit of an incremental step test as an annual exercise test in young people with cystic fibrosis

Marie Bolton (Nottingham, United Kingdom)

Comparison of the incremental Shuttle Walk Test for adult subjects with cystic fibrosis in two formats: hallway versus treadmill

Rachel Young (London, United Kingdom)

A 12-week, individualised, web-based exercise intervention is feasible and effective for people with cystic fibrosis

Barlo Hillen (Mainz, Germany)

The MOVE project: an external partnership reducing barriers to physical activity for children with cystic fibrosis

Adam Walsh (Liverpool, United Kingdom)

Scientific Programme

Effectiveness of Aerobika with Aeroeclipse to generate positive expiratory pressure in children with cystic fibrosis
Angela Locke (Renfrew, United Kingdom)

PhysioAssist for airway clearance management in cystic fibrosis: a pilot experience
Federica Carta (Milano, Italy)

Evaluating the use of an Oscillatory Positive Expiratory Pressure (OPEP) device as part of airway clearance in paediatric patients with cystic fibrosis
Lisa Newell (Wrexham, North Wales, United Kingdom)

Evaluation of the Metaneb System in adult cystic fibrosis patients
Suzanne Barclay (Glasgow, United Kingdom)

Oscillation properties of the Acapella DH® and Aerobika® during unsupervised airway clearance sessions in adults with cystic fibrosis
Nathan Ward (Adelaide, Australia)

The use of active video games in the respiratory physiotherapy in patients with cystic fibrosis
Hannes Sucher (Vienna, Austria)

Interest of the “starfish”: a self-evaluation tool used by the Adapted Physical Activity (APA) in therapeutic education during rehabilitation stays of cystic fibrosis patients
David Hervieux (Roscoff, France)

Experiences of lung transplant patients and exercise advice and support
Fiona Haynes (Nottingham, United Kingdom)

The UK Cystic Fibrosis and Exercise Network: an update from national meetings
James Shelley (Liverpool, United Kingdom)

Attitudes and experiences of physical activity among an international sample of people with cystic fibrosis and their support teams
Sarah Denford (Exeter, United Kingdom)

A SurveyMonkey review of young people with cystic fibrosis and their views on exercise
Kirsty Croft (Nottingham, United Kingdom)

Relationship between transcutaneous and capillary CO₂ measurements in normocapnic and hypercapnic cystic fibrosis adults
Ian Waller (Manchester, United Kingdom)

Compensatory changes in physical activity and sedentary time in children and adolescents with cystic fibrosis
Melitta McNarry (Swansea, United Kingdom)

Efficacy of a portable oxygen concentrator in the promotion of physical activity and the quality of life in a group of patients with cystic fibrosis: pilot study
Luigi Graziano (Rome, Italy)

Scientific Programme

Obstructive sleep apnoea in cystic fibrosis: an under-recognised complication of cystic fibrosis?
Sian Gallard (Cardiff, United Kingdom)

Sex and age differences in aerobic fitness in people with cystic fibrosis
Craig Williams (Exeter, United Kingdom)

Physiotherapy management of infants with cystic fibrosis in the UK and Ireland
Elaine Edwards (Leeds, United Kingdom)

ICU admission and physiotherapy in the patient with cystic fibrosis
Sara Keane (Dublin, Ireland)

Audit of physiotherapy plans set at annual assessment
Christina Ryan (Manchester, United Kingdom)

CFSPID (Cystic Fibrosis Screen Positive Inconclusive Diagnosis) conversion to cystic fibrosis: airway clearance adherence and clinic attendance
Nicole Lee Son (Vancouver, Canada)

Review of developed physiotherapy community service in our centre
Alice Day (Exeter, United Kingdom)

Massage therapy in an adult cystic fibrosis centre
Peter Moran (Bristol, United Kingdom)

Impact of rheumatology input on diagnosis and management of musculoskeletal symptoms in cystic fibrosis
Elizabeth Clarke (Manchester, United Kingdom)

Phenotyping inflammatory arthritis in adults with cystic fibrosis
Elizabeth Clarke (Manchester, United Kingdom)

Impact of sino-nasal symptoms on the quality of life in adults with cystic fibrosis
Emily Scott (Liverpool, United Kingdom)

A survey of physiotherapists to investigate trends in sinus care for people with cystic fibrosis in the UK
Ciara Long (London, United Kingdom)

Are we consistent? A service evaluation of Infection Prevention and Control Practices (IP & CP) for cystic fibrosis physiotherapy in the UK
Nicky Leach (Birmingham, United Kingdom)

An audit of cleaning regimens reported by patients and contamination of their inhalation devices.
Catherine Fordyce (Manchester, United Kingdom)

Patient experience and satisfaction with the AIRVO^{TM} 2 humidification system
Catherine Brown (Birmingham, United Kingdom)

The impact of transition on parental responsibility
Jill Watkinson (Manchester, United Kingdom)

Scientific Programme

Cystic fibrosis education for schools and nurseries
Karen Henney (London, United Kingdom)

High utilisation of an ongoing group education programme for parents as part of routine care
Dorothea Appelt (Innsbruck, Austria)

Evaluation of an innovative nurse-led cystic fibrosis educational programme – "key stage review"
Wendy Nixon (Birmingham, United Kingdom)

"Pop-up hospital" - an interactive approach to education and raising awareness of cystic fibrosis for children
Alison Sewell (Newcastle Upon Tyne, United Kingdom)

Project of supporting and educating parents after cystic fibrosis diagnosis in their child
Urszula Borawska - Kowalczyk (Warsaw, Poland)

The experience of co-designing the MAGIC programme for people with CFRD
Sarah Collins (London, United Kingdom)

Implementing a pathway for the investigation of Cystic Fibrosis-Related Diabetes in a paediatric cystic fibrosis clinic
Claire Fagan (Newcastle UponTyne, United Kingdom)

The impact of fatherhood on clinical outcomes of men with cystic fibrosis
Victoria Carrolan (Birmingham, United Kingdom)

Behavioural problems in children with cystic fibrosis – are we really looking for them?
Anirban Maitra (Manchester, United Kingdom)

Psychological interventions for procedural distress in children with cystic fibrosis
Ruth Fishwick (Stoke on Trent, United Kingdom)

Patient preferences regarding lung transplant referral
Nick Medhurst (London, United Kingdom)

A quality improvement project to optimise multidisciplinary team communication about unplanned admissions of clinical trial patients
Rebecca Dobra (London, United Kingdom)

Evaluation of a cystic fibrosis young people's clinic: parents and young people's views
Cathy Wogan (Birmingham, United Kingdom)

An audit of patients with cystic fibrosis and additional needs, and of reasonable adjustments to care provision at the Manchester Adult Cystic Fibrosis Centre (MACFC)
Emma Shaw Núñez (Manchester, United Kingdom)

Patient and parent perception regarding clinical research in south-west France
Florence Valentin (Bordeaux Cédex, France)

Scientific Programme

Healthcare satisfaction, utilisation, and needs among families with cystic fibrosis
Elpis Hatziagorou (Thessaloniki, Greece)

Evaluation of the impact of patient and family feedback on quality improvement within a local cystic fibrosis service
Lindsay Berry (Canterbury, United Kingdom)

Medicine possession ratios for ivacaftor prescriptions data in children and adults with cystic fibrosis attending a UK regional centre
Judi Maddison (Southampton, United Kingdom)

Improving treatment adherence in adolescents with cystic fibrosis: feasibility of the “CF My Way” intervention program
Marieke Verkleij (Amsterdam, Netherlands)

Exploring medication adherence at a large adult cystic fibrosis centre
Veronica Yioe (Liverpool, United Kingdom)

A pilot study using theCFHealthHub digital platform to investigate the relationship between adherence to treatment and symptoms in people with cystic fibrosis
Rosie Martin (Sheffield, United Kingdom)

Italian translation of gastrointestinal symptom tracker in patients with cystic fibrosis
Sonia Graziano (Rome, Italy)

Reducing tobacco smoke exposure in paediatric cystic fibrosis: a qualitative examination of caregivers’ and clinicians’ perspectives
Gabriela Oates (Birmingham, United States)

The Adult Cystic fibrosis Experience (ACE) Score: a short, Patient-Reported Experience Measure (PREM) for cystic fibrosis care
Felicity Finlayson (Melbourne, Australia)

Review of CNS cystic fibrosis community service
Daniel Edwards (Southampton, United Kingdom)

Identifying the challenges involved in maintaining an accurate record of patient nebuliser prescriptions at a UK adult CF Centre: a quality improvement project
Sophie Dawson (Nottingham, United Kingdom)

Hospital or home: a review of the intravenous antibiotic service within the paediatric cystic fibrosis unit at the Great North Children´s Hospital
Carol Sharpe (Newcastle upon Tyne, United Kingdom)

Information and expectations – starting Orkambi in a paediatric cystic fibrosis centre
Helga Elidottir (Lund, Sweden)

Tasks and time management of nurses at Scandinavian cystic fibrosis centres
Ellen Julie Hunstad (Oslo, Norway)

Environmental infection risks in cystic fibrosis: a survey of UK practice
Laura Butler (Birmingham, United Kingdom)

Scientific Programme

The CRAFT System (Colour Risk Assessment Folder and Treatment System)
Nichola MacDuff (Wolverhampton, United Kingdom)

Does the number of TIVAD devices inserted reflect our perception that the health of our paediatric cystic fibrosis population is improving?
Louise Wooldridge (Birmingham, United Kingdom)

Relieving the burden of accessing medication: a quality improvement project
Nicola J Rowbotham (Nottingham, United Kingdom)

Validation of an electronic version of the Cystic Fibrosis Quality of life Evaluative Self-administered Test (eCF-QUEST)
Elizabeth Tullis (Toronto, Canada)

How physiotherapists improved prescription accuracy for nebuliser treatment: using click analytics from CFHealthHub, a digital adherence system, to monitor quality improvement
Charlotte Clarke (Sheffield, United Kingdom)

Supporting patients to move from rescue to prevention: meeting patients on their own terms - a preliminary evaluation of out of hours adherence telephone support offered to cystic fibrosis patients using the digital health system CFHealthhub
Charlotte Carolan (Sheffield, United Kingdom)

Fitting telemedicine into current adult cystic fibrosis care
Kate Channon (London, United Kingdom)

Developing a virtual reality cystic fibrosis service in the All Wales Adult Cystic Fibrosis Centre (AWACFC)
Anna McCulloch (Penarth, United Kingdom)

Attitudes to video conferencing for clinical consultations among adult patients with cystic fibrosis
Christopher D Sheldon (Exeter, United Kingdom)

This abstract explores the the factors that influence the engagement of people with cystic fibrosis with web-based self-care management strategies via systematic review
Kath Donohue (Plymouth, United Kingdom)

An interactive group educational event for people with cystic fibrosis, their family and carers – a novel approach
Edward F Nash (Birmingham, United Kingdom)

The role of online social media platforms in cystic fibrosis support and caregiving
Sara Thiessen (Vancouver, Canada)

Adult cystic fibrosis patients – the inconvenient ones in the commercialised healthcare system
Guergana Petrova (Sofia, Bulgaria)

Creating a nationwide hygiene protocol for cystic fibrosis patients in Switzerland
Martina Gfeller (Bern, Switzerland)

Scientific Programme

Exploring the moderating influence of mindfulness, mindful eating and self-compassion on the relationship of emotional eating and BMI in a cystic fibrosis population
Helen H. Egan (Birmingham, United Kingdom)

Introducing advance care planning for adults and young adults with cystic fibrosis: who, when and where? A systematic review
Susan Parker (Newcastle upon Tyne, United Kingdom)

Improving advanced care planning discussions in a regional adult cystic fibrosis unit
Amaal Maqsood-Shah (Leeds, United Kingdom)

Palliative care planning at the West Midlands Adult CF Centre – have we improved?
Laura Jones (Birmingham, United Kingdom)

The experiences of staff in initiating and carrying out advanced care planning (ACP) discussions with patients with cystic fibrosis
Georgina Slatter (Birmingham, United Kingdom)

Dissemination and implementation of the mental health guidelines in the United States: results of implementation in year 2 at 120 cystic fibrosis centres
Alexandra Quittner (Miami, United States)

A cystic fibrosis-specific intervention to prevent depression and anxiety: development and evaluation of a multidisciplinary interventionist training program
Anna Georgiopoulos (Boston, United States)

Psychological well-being of cystic fibrosis patients aged 4-10 years
Megan Reay (London, United Kingdom)

Implementation of the mental health guidelines in the United States: screening outcomes and treatment referrals at 120 cystic fibrosis centres
Janice Abbott (Preston, United Kingdom)

Experience of living with cystic fibrosis; the impact on children, young people, adults and their families
Mhairi McKenzie Smith (London, United Kingdom)

Predicting psychological well-being and symptoms in adults living with cystic fibrosis: the role of self-compassion and psychological resilience
Horst Mitmansgruber (Innsbruck, Austria)

An eight-year retrospective audit of clinical psychology referrals within the Northern Ireland Regional Adult Cystic Fibrosis Centre
Amanda Jane Crossan (Belfast, United Kingdom)

Capturing the role of clinical psychology in prehab
Elif Gokcen (London, United Kingdom)

Mental health in cystic fibrosis: a change package for implementation
Paula Lomas (Bethesda,, United States)

Scientific Programme

Health related quality of life outcomes for children in the Australasian Cystic Fibrosis Bronchoalveolar Lavage study
Joyce Cheney (Brisbane, Australia)

Co-producing a health and well-being assessment tool for adults with cystic fibrosis
Rachel Massey-Chase (London, United Kingdom)

Psychological characteristics of cystic fibrosis at all phases of the disease. Results from all 8 Federal Districts of the Russian Federation
Olga Poletaeva (Saint-Peterburg, Russian Federation)

Assessment of treatment burden and approaches to simplifying burden of treatment in cystic fibrosis: a mixed methods study
Gwyneth Davies (London, United Kingdom)

A benefit to families? Measuring the value of a cystic fibrosis social worker
Nicky Surfleet (Birmingham, United Kingdom)

The impact of health and well-being grants on patients with cystic fibrosis
Claire Oliver (Southampton, United Kingdom)

Cystic fibrosis social work provision in the UK
Claire Oliver (Southampton, United Kingdom)

Cost of poverty and deprivation on health outcomes in children with cystic fibrosis: is it time to re-think medically based tariffs for cystic fibrosis care?
Tim Newson (Canterbury, United Kingdom)

Patient experience of transition to a newly established cystic fibrosis service in the North West of England
Andy Thomas (Blackpool, United Kingdom)

Transition from paediatric to adult care in patients with cystic fibrosis: qualitative study
Catalina Vasquez (Bogota, Colombia)

Transition - "the adults don´t bite"
Maya Desai (Birmingham, United Kingdom)

Improving the transition of young people to an adult cystic fibrosis centre – the MDT approach
Tegan Penrose (Liverpool, United Kingdom)

Personalising transition pathways for young people moving from paediatric to adult cystic fibrosis services
Rachel Massey-Chase (London, United Kingdom)

From paediatric to adult care – improvement of a structural program of transition at the Cystic Fibrosis Centre of Hannover Medical School
Tina Hellmuth (Hannover, Germany)

Transition readiness, clinical and psychological variables in patients with cystic fibrosis: a single centre experience in Italy
Daniela Savi (Rome, Italy)

Scientific Programme

ECFS Tomorrow Session
14:00 - 15:00 ECFS Tomorrow Lounge

Supporting adherence – the pharmacists' perspective

Nicola J. Shaw (Leeds, United Kingdom)
Sian Bentley (London, United Kingdom)

Workshop
15:00 - 16:30 Hall 1A

WS12, New therapies and real life experience

Clinical Trials / New Therapies

Isabelle Fajac (Paris, France)
Donald R. VanDevanter (Cleveland, United States)

Longitudinal effects of ivacaftor therapy in adults with the G551D mutation – a 5-year study **15:00 - 15:15**
Ruth M Mitchell (Manchester, United Kingdom)

Pregnancy outcomes in women with cystic fibrosis on CFTR modulators – an international survey **15:15 - 15:30**
Edward F Nash (Birmingham, United Kingdom)
Jennifer Taylor-Cousar (Denver, United States)

Pregnancy outcomes in women with cystic fibrosis on ivacaftor – an international survey
Edward F Nash (Birmingham, United Kingdom)

Continuation of dual combination CFTR modulators during pregnancy in women with cystic fibrosis
Jennifer Taylor-Cousar (Denver, United States)

Real-world outcomes among patients with cystic fibrosis treated with lumacaftor/ivacaftor (LUM/IVA) in 2017: an interim analysis of data from the US CF Foundation Patient Registry (CFFPR) **15:30 - 15:45**
Nataliya Volkova (Boston, United States)

Long-term safety and efficacy of lumacaftor/ivacaftor therapy in patients aged 6-11 years with cystic fibrosis homozygous for the F508del-CFTR mutation (F/F) **15:45 - 16:00**
Mark Chilvers (Vancouver, Canada)

Clinical study to evaluate an anti-Pseudomonas aeruginosa IgY gargling solution (EUDRACT 2011-000801-39) **16:00 - 16:15**
Anders Larsson (Uppsala, Sweden)

Evaluating appropriate PROMs in CARE-CF-1 trial: Lynovex® (cysteamine) an oral adjunct to SOC interventions in cystic fibrosis infectious exacebations **16:15 - 16:30**
Daniel Peckham (Leeds, United Kingdom)

Scientific Programme

Workshop
15:00 - 16:30 Room 3 (AB)

WS13, CFTR mutations: from functional evaluation to therapeutic strategies

Basic Science

Luis Galietta (Pozzuoli, Italy)
Batsheva Kerem (Jerusalem, Israel)

CFTR processing mutations cause distinct trafficking and functional defects **15:00 - 15:15**
Marianne Carlon (Leuven, Belgium)

Whole-cell patch-clamp recordings of CFTR-mediated chloride currents in native and cultured nasal epithelial cells from cystic fibrosis and non-cystic fibrosis subjects **15:15 - 15:30**
Sabrina Noel (Paris, France)

Electrophysiological measurements in rectal biopsies: a better prognosis biomarker for cystic fibrosis disease? **15:30 - 15:45**
Iris Silva (Lisbon, Portugal)

Development of a humanised cystic fibrosis mouse model **15:45 - 16:00**
Angélique Mottais (Brussels, Belgium)

The investigation of VX-809 and VX-770 effects on CFTR channel function in c.[4262T>A];[1521_1523delCTT] (V1421E/F508del) genotype using an intestinal organoid culture **16:00 - 16:15**
Nataliya Kashirskaya (Moscow, Russian Federation)

Adenoviral vector gene therapy results in a wild type CFTR functional pattern in class I mutation cystic fibrosis cells **16:15 - 16:30**
Huibi Cao (Toronto, Canada)

Workshop
15:00 - 16:30 Room 11 (ABC)

WS14, Unravelling the complexity of mental health

Nursing / Psychosocial

Ulrike Smrekar (Innsbruck, Austria)
Kath MacDonald (Edinburgh, United Kingdom)

From guidelines to clinic: unravelling the complexity of mental health screening, medication use and patients' needs **15:00 - 15:15**
Trudy Havermans (Leuven, Belgium)

Time spent in therapy: how to measure the burden of disease for cystic fibrosis **15:15 - 15:30**
Stefano Costa (Messina, Italy)

The prevalence of Adverse Childhood Experiences (ACEs) in cystic fibrosis **15:30 - 15:45**
Catherine O'Leary (Llandough, United Kingdom)
Vivien S. Edwards (Llandough, United Kingdom)

Scientific Programme

Do adults with cystic fibrosis report adverse childhood experiences related to cystic fibrosis?
Vivien S. Edwards (Llandough, United Kingdom)

The prevalence of adverse childhood experiences (ACEs) in cystic fibrosis
Catherine O'Leary (Llandough, United Kingdom)

The underreported benefits of informal peer-to-peer support amongst cystic fibrosis caregivers **15:45 - 16:00**
Sara Thiessen (Vancouver, Canada)

Evaluating a mindful parenting course for parents of children with cystic fibrosis **16:00 - 16:15**
Sally Clarke (Brighton, United Kingdom)

Psychological resilience in adults with cystic fibrosis **16:15 - 16:30**
Paul Weldon (London, United Kingdom)

Workshop
15:00 - 16:30 Hall 2E

WS15, Cystic Fibrosis-Related Diabetes: early treatment and management

Endocrinology

Paula Dyce (Liverpool, United Kingdom)
Quitterie Reynaud (Lyon, France)

Long-term follow-up of different treatment regimes of newly diagnosed CFRD: a Registry study from Germany **15:00 - 15:15**
Manfred Ballmann (Rostock, Germany)

Early management of glucose disorders in cystic fibrosis children drastically decreases antibiotics consumption **15:15 - 15:30**
Nathalie Stremler-Le Bel (Marseille, France)

Exploring the relationship between CFRD treatment and lung function **15:30 - 15:45**
Danielle Edwards (London, United Kingdom)

Dysglycaemia on continuous glucose monitoring correlates to microvascular disease in adults with Cystic Fibrosis-Related Diabetes **15:45 - 16:00**
Freddy Frost (Liverpool, United Kingdom)

A prospective mixed-methods randomised controlled pilot study of a novel group educational program for people with Cystic Fibrosis-Related Diabetes **16:00 - 16:15**
Harbinder Sunsoa (West Midlands, United Kingdom)

Does alpha-cell dysfunction precede beta-cell dysfunction in Cystic Fibrosis-Related Diabetes? **16:15 - 16:30**
Freddy Frost (Liverpool, United Kingdom)

Scientific Programme

Workshop
15:00 - 16:30 Hall 1B

WS16, The changing face of newborn bloodspot screening for cystic fibrosis

Diagnosis / Screening

Jürg Barben (St. Gallen, Switzerland)
Sarah Mayell (Liverpool, United Kingdom)

Analysis of time trends in incidence of cystic fibrosis in Brittany (western France) 30 years after implementation of newborn screening in that area **15:00 - 15:15**
Virginie Scotet (Brest, France)

Comparison of direct healthcare costs in the first 2 years of life between screened and clinically diagnosed children with cystic fibrosis: the ICOS study **15:15 - 15:30**
Patricia Fitzpatrick (Dublin, Ireland)

Newborn screening for cystic fibrosis in the Netherlands: effects on clinical outcome at age six **15:30 - 15:45**
Domenique D Zomer (Baarn, Netherlands)

Newborn screening of cystic fibrosis: analytical and clinical assessment of a new commercial kit for PAP quantification **15:45 - 16:00**
Madeleine Boulanger (Liege, Belgium)

The challenge of screening newborns for cystic fibrosis from populations with a low incidence of F508del **16:00 - 16:15**
Katie Patterson (Liverpool, United Kingdom)

Two years' experience of utilising CFTR next generation sequencing in a newborn screening program **16:15 - 16:30**
Michael J. Rock (Madison, United States)

Symposium
15:00 - 16:30 Hall 1C

SS02, Special symposium – Penny lane: delivering value in cystic fibrosis healthcare

Harm Tiddens (Rotterdam, Netherlands)
Caroline Elston (London, United Kingdom)

Value based healthcare – introducing the concept **15:00 - 15:22**
Irem Patel (London, United Kingdom)

Health economic analysis using UK CF Registry data **15:22 - 15:44**
Bishal Mohindru (Norwich, United Kingdom)

Evaluating cost effectiveness of CF therapies **15:44 - 16:06**
Jennifer Whitty (Norwich, United Kingdom)

Defining meaningful outcomes and building the blueprint for a value based approach in cystic fibrosis **16:06 - 16:30**
Jan Hazelzet (Rotterdam, Netherlands)

Scientific Programme

Workshop
17:00 - 18:30 Hall 1A

WS17, Imaging and scoring - new insights

Pulmonology

Jochen G. Mainz (Brandenburg an der Havel, Germany)
Amanda Brennan (Manchester, United Kingdom)

Prospective evaluation of arthropathy in patients with cystic fibrosis **17:00 - 17:15**
Carsten Schwarz (Berlin, Germany)

The sensitivity of MRI to detect both functional and structural lung abnormalities in sub-clinical cystic fibrosis **17:15 - 17:30**
Laurie Smith (Sheffield, United Kingdom)

Cystic fibrosis and chronic rhinosinusitis: factors influencing disease progression **17:30 - 17:45**
Kiersten Pianosi (London, Canada)

The addition of sinus imaging to a quantitative cystic fibrosis lung MRI protocol demonstrates an association between sinus signal characteristics and lung disease severity **17:45 - 18:00**
Thomas Semple (London, United Kingdom)

Validity and reliability of a novel multimodal questionnaire for the assessment of abdominal symptoms in people with cystic fibrosis (CFAbd-Score) **18:00 - 18:15**
Jochen G. Mainz (Brandenburg an der Havel, Germany)

Gut imaging for function and transit in cystic fibrosis: can we use MRI as a measure of gut problems in people with cystic fibrosis? **18:15 - 18:30**
Alan Smyth (Nottingham, United Kingdom)

Workshop
17:00 - 18:30 Room 3 (AB)

WS18, Innovative approaches to support airway clearance

Physiotherapy

Hannah Langman (Manchester, United Kingdom)
Maggie McIlwaine (Vancouver, Canada)

Multi-professional expertise and high performance informatics infrastructure supports innovative health technology research and clinical care in cystic fibrosis: Project Fizzyo **17:00 - 17:15**
Gwyneth Davies (London, United Kingdom)

SoloPep - evaluation of a novel disposable Oscillating Positive Expiratory Pressure (OPEP) device in children with cystic fibrosis **17:15 - 17:30**
Kevin J. O'Sullivan (Limerick, Ireland)

Is "Pactster" an acceptable tool to promote exercise participation in the adult cystic fibrosis community, with and without physiotherapy support? **17:30 - 17:45**
Carlos Echevarria (Newcastle Upon Tyne, United Kingdom)

Scientific Programme

The impact of reflex zone stimulation technique on lung function in patients with cystic fibrosis **18:00 - 18:15**
Jana Plešková (Prague, Czech Republic)

An audit of the clinical experience of the use of the Metaneb for airway clearance (ACT) in cystic fibrosis: feasibility, safety and patient-reported outcomes in adults with cystic fibrosis **18:15 - 18:30**
Brenda Button (Melbourne, Australia)

Workshop
17:00 - 18:30 Room 11 (ABC)

WS19, Evolution of the lung microbiome

Microbiology / Antibiotics

Debby Bogaert (Edinburgh, United Kingdom)
Pradeep K. Singh (Seattle, United States)

Microbiota from paired sputum-induction and bronchoalveaolar lavage samples in children with cystic fibrosis: results from The Cystic Fibrosis Sputum Induction Trial (CF-SpIT) **17:00 - 17:15**
Rebecca Weiser (Cardiff, United Kingdom)

Microbiota profiling during 1-year of clinical stability in people with cystic fibrosis - CFMATTERS Consortium **17:15 - 17:30**
Gisli Einarsson (Belfast, United Kingdom)

The personalised temporal dynamics of microbiome in the airways of cystic fibrosis patients **17:30 - 17:45**
Annamaria Bevivino (Rome, Italy)

Bacterial and fungal microbiota associated with fungal disease in cystic fibrosis and bronchiectasis **17:45 - 18:00**
Leah Cuthbertson (London, United Kingdom)

Bioorthogonal non-canonical amino acid tagging reveals translationally active subpopulations of the cystic fibrosis lung microbiota **18:00 - 18:15**
Ryan Hunter (Minneapolis, United States)

Workshop
17:00 - 18:30 Hall 2E

WS20, The growing challenge of inconclusive diagnosis after a positive newborn screening result

Diagnosis / Screening

Kevin Southern (Liverpool, United Kingdom)
Karen Raraigh (Baltimore, United States)

Scientific Programme

An international survey to determine understanding of the designation of infants with an inconclusive diagnosis after newborn bloodspot screening for cystic fibrosis **17:00 - 17:15**
Jared Murphy (Liverpool, United Kingdom)

Parents' psychological adaptation to an unclear diagnosis after positive newborn bloodspot screening for cystic fibrosis: a qualitative study **17:15 - 17:30**
Faye Johnson (Manchester, United Kingdom)

Newborn screening - telling parents that their baby might have cystic fibrosis **17:30 - 17:45**
Laura Seddon (London, United Kingdom)

Cystic fibrosis screen-positive, inconclusive diagnosis (CF-SPID): diagnostic and clinical data from a cohort of screened infants **17:45 - 18:00**
Laura Zazzeron (Milan, Italy)

CF SPID: the Newcastle experience **18:00 - 18:15**
Iram Haq (Newcastle upon Tyne, United Kingdom)

Phenotypic expression of a positive newborn screened cohort with an inconclusive cystic fibrosis diagnosis **18:15 - 18:30**
Anne Munck (Paris, France)

Workshop
17:00 - 18:30 Hall 1B

WS21, Psychosocial Issues and Nursing Case Presentations

Trudy Havermans (Leuven, Belgium)
Jacqueline Bradley (Blackpool, United Kingdom)

The impact of assessment for disability benefits upon psychological health in adults with cystic fibrosis - two case studies **17:00 - 17:15**
Helen Oxley (Manchester, United Kingdom)

CBT for gastrointestinal symptoms - what can we learn from Irritable Bowel syndrome? **17:15 - 17:30**
Rachel Massey-Chase (London, United Kingdom)

Learning from an enhanced transition for a patient with cystic fibrosis and complex learning needs **17:30 - 17:45**
Emma Shaw Núñez (Manchester, United Kingdom)
Jill Watkinson (Manchester, United Kingdom)
Diane McKenna

Use of a new physiotherapy device to help with treatment adherence for a young man with concurrent diagnoses of autistic spectrum disorder and learning difficulties **17:45 - 18:00**
Amy Shayle (Cambridge, United Kingdom)

Tampering with TIVADs: motives behind line infections? **18:00 - 18:15**
Louise Anning (Plymouth, United Kingdom)

"Normal for CF?" - Can expectations impact on outcomes? **18:15 - 18:30**
Laura Seddon (London, United Kingdom)

Scientific Programme

Workshop
17:00 - 18:30 Hall 1C

WS22, Late Breaking Science

David Sheppard (Bristol, United Kingdom)

RNF5 inhibitors as potential drugs for cystic fibrosis basic defect **17:00 - 17:22**
Elvira Sondo (Genoa, Italy)

Initial results evaluating the novel CFTR corrector PTI-801, potentiator PTI-808, and amplifier PTI-428 in F508del homozygous CF subjects **17:22 - 17:44**
Geoffrey Gilmartin (Cambridge, United States)

A drug discovery effort to identify small molecules that induce translational readthrough in CFTR **17:44 - 18:06**
Steven M. Rowe (Birmingham, United States)

A molecular prosthetics approach for cystic fibrosis **18:06 - 18:30**
Martin Burke (Urbana, United States)

Scientific Programme

Saturday, 08 June 2019

Symposium
09:00 - 10:30 Hall 1A

S25, Novel clinical outcome measures in pre-school children with cystic fibrosis

Learning Objectives:

- To emphasise the complexities of assessing disease progression and response to interventions in very young children.
- To provide a detailed understanding of the strengths and limitations of tools assessing lung structure and function as well as parent-reported outcome measures.
- To use the example of pancreatic exocrine function to illustrate the concept that ‘reversible’ components of disease may be age-specific and to describe current tools to measure the impact of interventions on this organ.

Florian Singer (Bern, Switzerland)
Margaret Rosenfeld (Seattle, United States)

Evolving parent reported outcomes **09:00 - 09:22**
Alexandra Quittner (Miami, United States)

Sensitive assessment of pancreatic exocrine function and response to CFTR modulators **09:22 - 09:44**
Margaret Rosenfeld (Seattle, United States)

Does Chest MRI provide better or different information than chest CT? **09:44 - 10:06**
Harm Tiddens (Rotterdam, Netherlands)

Lung Clearance Index **10:06 - 10:30**
Mirjam Stahl (Heidelberg, Germany)

Symposium
09:00 - 10:30 Room 3 (AB)

S26, Advances in the management of severe lung disease

Learning Objectives:

- To learn about the effect and possible side effects of new CFTR modulator therapies in patients with advanced lung disease
- To gain knowledge on the therapeutic options for patients with respiratory insufficiency on the short and long term: advances in lung transplantation and bridges to transplantationTo reflect on palliative care for patients with advanced lung disease in an era where multiple therapies are feasible and to gain knowledge on optimal symptom control and qualitative care in patients in the last stage of life.

Barry Plant (Cork, Ireland)
Michal Shteinberg (Haifa, Israel)

CFTR modulator outcomes in patients with severe disease (Orkambi versus Tez-Iva experience) **09:00 - 09:22**
Michal Shteinberg (Haifa, Israel)

Scientific Programme

Critical care management of the severely ill CF patient (pros and cons of NIV/intubation/ECMO) **09:22 - 09:44**
Véronique Boussaud (Paris, France)

Advances in lung transplantation (donor organ optimisation/super urgent lung transplant listing etc) **09:44 - 10:06**
Karen Redmond (Dublin, Ireland)

Palliative care / symptom control **10:06 - 10:30**
Helen Barker (Cambridge, United Kingdom)

Symposium
09:00 - 10:30 Room 11 (ABC)

S27, Newborn Screening - where are we now?

This session will focus attention on the importance of making early diagnosis in the shortest time possible; update on inconclusive diagnosis in us and europe; and recapitulate the state of the art on pancreatitis associated protein

Karin M. de Winter - de Groot (Utrecht, Netherlands)
Maya Desai (Birmingham, United Kingdom)

Addressing timeliness in the processing of a CF screening result **09:00 - 09:22**
Jürg Barben (St. Gallen, Switzerland)

The evolving situation of CFSPID/CRMS in the US **09:22 - 09:44**
Michael J. Rock (Madison, United States)

CFSPID; what do physicians in Europe understand? **09:44 - 10:06**
Silvia Gartner (Barcelona, Spain)

Screening ethnically diverse populations fairly; is PAP a solution? **10:06 - 10:30**
Olaf Sommerburg (Heidelberg, Germany)

Symposium
09:00 - 10:30 Hall 2E

S28, We can work it out (with Registry data)

Delegates will deepen their understanding of the potential to conduct novel analyses of Registry data that are translatable to clinical and patient decision making tools, as well as clinical trial accelerators.

Lutz Nährlich (Giessen, Germany)
Meir Mei-Zahav (Petah Tikva, Israel)

A tool to improve the accuracy of transplant referral **09:00 - 09:22**
Thomas Daniels (Southampton, United Kingdom)

Funnelling quality improvement – a casemix adjustment model for detecting centre variation **09:22 - 09:44**
Susan C. Charman (London, United Kingdom)

The future of CF demography **09:44 - 10:08**
Pierre-Régis Burgel (Paris, France)

Scientific Programme

Symposium
09:00 - 10:30 Hall 1B

S29, What's influencing adherence? - "With a little help from my friends"

Learning Objectives:

- To critically discuss the key transition points in the lifespan in CF and examine the challenges on Adherence
- To critically review how socioeconomic status impacts on the management of CF for patients and families
- To consider how new technology can support adherence in CF

Bethan Phillips (Cardiff, United Kingdom)
Ann Raman (Ghent, Belgium)

Transition points in the CF journey and impact on adherence **09:00 - 09:22**
Samantha K. Phillips (Bristol, United Kingdom)

Socioeconomic status in chronic illness; challenging our assumptions **09:22 - 09:44**
Klara Benesova (Prague, Czech Republic)

Specific issues faced by immigrant communities **09:44 - 10:06**
Siobhan Carr (London, United Kingdom)

New technology as a means to support adherence **10:06 - 10:30**
Georgia King (Bristol, United Kingdom)

Symposium
09:00 - 10:30 Hall 1C

S30, Mucus: the frontline of innate defense of the lung

Upon completion of this session participants should be able to:
• Understand the complex interplay between the mucus barrier and the immune system in the defence of the lung
• Explain the mechanisms that regulate production and function of the mucin polymers that underpin airways mucus
• Appreciate that infection at one mucosal surface can influence protection at distal mucosal sites

Dave Thornton (Manchester, United Kingdom)
Paul McNamara (Liverpool, United Kingdom)

Inflammatory effects of mucus in the absence of infection **09:00 - 09:22**
John Engelhardt (Iowa City, United States)

Function and regulation of Muc5ac and Muc5b mucin glycopolymers **09:22 - 09:44**
Chris Evans (Denver, United States)

The interaction between mucus and macrophages **09:44 - 10:06**
Michelle Paulsen (Heidelberg, Germany)

Innate lymphoid cell (ILC2) driven mucus production primes for protection at peripheral mucosal barrier sites **10:06 - 10:30**
Laura Campbell (Manchester, United Kingdom)

Scientific Programme

ECFS Tomorrow Session
10:30 - 11:00 ECFS Tomorrow Lounge

Farewell coffee

Closing Plenary
11:00 - 12:30 Hall 1A

Closing Plenary

Jane Davies (London, United Kingdom)
Isabelle Fajac (Paris, France)

Matching medicines with mutations **11:00 - 11:30**
Damian Downey (Belfast, United Kingdom)

Here comes the sun; mapping the challenging future for people with cystic fibrosis **11:30 - 12:00**
Donald R. VanDevanter (Cleveland, United States)

ECFS President address **12:00 - 12:30**
Isabelle Fajac (Paris, France)

Closing Ceremony
12:30 - 13:00 Hall 1A

Closing Ceremony