



| Adding *tomorrows* every day.

Call for Abstracts



The 23rd Annual North American

Cystic Fibrosis CONFERENCE

October 15-17, 2009

Minneapolis Convention Center • Minneapolis, Minnesota



TRAVERSE THE RAPIDS OF THE UPPER MISSISSIPPI



And along with more than 3,000 CF professionals, get ready to meet the “City of Lakes,” Minneapolis, Minnesota, October 15-17, 2009 for the 23rd Annual North American Cystic Fibrosis Conference (NACFC).

Built along the edge of the Mississippi River and St. Anthony Falls, the highest waterfall along the Mississippi, Minneapolis has long been an innovator in new technologies and scientific breakthroughs, most famously for hydropower associated with the milling of baking flour. This same pioneering spirit is also seen throughout the worldwide CF community and will be showcased in the myriad poster presentations and compelling Plenary sessions at this year’s conference.

Minneapolis has been tagged the “culture capital” of the Midwest. Come experience the eclectic and culturally diverse neighborhoods of the city, as well as the array of excitement and food. The Frederick R. Weisman Art Museum is waiting for you, a striking stainless steel building that houses famous modern American artists such as Georgia O’Keeffe and Alfred Maurer. Rock out at First Avenue and 7th Street Entry, the club featured in the classic movie “Purple Rain.” You can even visit the University of Minnesota’s CF Care Center, which for more than 40 years has provided a full range of comprehensive and cost effective resources to CF patients in the state of Minnesota. And don’t forget about the 80 blocks, 7-mile



temperature-controlled system of the city’s Skywalks and take in the multitude of charms this city has to offer.

Take a page out of Minneapolis history and be sure to mix old ideas with new trends by attending the variety of topic offerings of the Symposia and Workshops, from newborn screening to ion transport, and comprehensive lung care to improving nutrition care. Bike along the trails of the 22 lakes surrounding Minneapolis, or catch a Broadway show at the Guthrie Theatre before attending one of the intriguing Caregivers discipline sessions.

Throw your hat in the air with Mary Tyler Moore and discover team strengthening techniques at our Brown Bag luncheons, or adhere to more of the science by participating in one of the pre-conference Special Classes or Short Courses. Also, be sure to visit the world famous Minneapolis icon Spoonbridge and Cherry at the 11-acre Minneapolis Sculpture Garden!

Take advantage of networking opportunities with others in the CF community in the Exhibit Hall and take time to peruse the latest and greatest in CF products and resources. Of course, the conference will provide many opportunities to kick your heels up and relax, such as the Saturday night Closing Event or the annual Welcome Reception.

Historic to modern, urban to green, Minneapolis is a mix of Midwestern how-to and a thriving metropolitan area that will leave you begging for more at the 23rd Annual North American Cystic Fibrosis Conference.

THE NORTH AMERICAN CF CONFERENCE IS A
MULTIDISCIPLINARY EDUCATIONAL FORUM
DESIGNED EXCLUSIVELY FOR CF HEALTHCARE
PROFESSIONALS AND RESEARCH SCIENTISTS.

GENERAL INFORMATION

Abstracts | Case Summaries | Education Resources

Continuing Education Credits

Applications are being made for continuing education credits (CMEs & CEUs) for:

- Physicians
- Nurses
- Social Workers
- Nutritionists
- Respiratory Therapists
- Pharmacists

The number of approved credits offered will appear in the *Final Program*.

Appropriate forms and instructions will be included in conference materials.

Critical Deadlines

May 13, 2009

- Abstracts
- Physicians Grand Rounds Case Summaries
- Advanced Practice Nurses Grand Rounds Case Summaries
- Consultation Clinics Case Summaries
- Education Resources

June 26, 2009

- Fellows Session Case Summaries

Call for Abstracts

Abstracts must be submitted online at <http://nacfc2009.abstractcentral.com> between **March 25 and May 13**. Submission instructions will be available on this Web site. **NO** abstracts will be accepted after the **May 13 deadline**. Abstracts will be reviewed and authors will be notified in early July whether or not their abstracts have been accepted. All accepted abstracts will be presented in 4' x 4' poster form. All authors **must** attend Poster Session I on Thursday, October 15 during the lunch break. In addition, authors of even numbered posters must attend Poster Session II the morning of Friday, October 16, and authors of odd numbered posters must attend Poster Session III the afternoon of Friday, October 16. **Fellows**, regardless of their poster number, should attend both Poster Session I and Poster Session II to avoid conflict with the Fellows session for their discipline held Friday, October 16 at 4:00 p.m.

Appropriate abstracts will be selected for oral presentation in specific workshops (see Program-At-A-Glance for workshop titles).

Authors who submitted one or more abstracts in 2008 will be notified via e-mail when the submission system opens, and will be given their existing User Name and Password for the abstract submission system. Using your existing User Name and Password will eliminate the need to create a new account in the system. **Please note:** the 2009 NACFC Rules for Submission of Abstracts have been modified; any first author may submit **NO MORE** than two abstracts for consideration.

Invitation for Case Summaries

Case summaries are invited for consideration for presentation in the **Physicians Grand Rounds, Advanced Practice Nurses Grand Rounds** and **Consultation Clinics**. Four Consultation Clinics will be held on the morning of Saturday, October 17: 1) Nutrition/GI; 2) Engaging the Unengageable: Mental Health Issues, Addictions & Beliefs; 3) Clinical RT/PT Case Presentations; and 4) Case Studies in Motivational Interviewing & Problem Solving.

Summaries must be submitted to the CF Foundation by **May 13**. Case summaries will be reviewed, and authors will be notified in mid-June whether or not their submissions have been accepted for presentation. Instructions for case submission for each type of session mentioned above are posted on the NACFC Web site at www.nacfcconference.org.

Please note: Abstracts and case summaries submitted in the Quality Improvement category should state the level of involvement of patients and/or families and the methods used to accomplish their involvement.

Fellows will have an opportunity to submit cases for the Pediatric and Adult Fellows Sessions. These cases are due by **June 26**, and instructions for case submission will be posted on the NACFC Web site at www.nacfcconference.org on **June 5**.

Call for Education Resources

Do you have education material(s) that would be helpful to others and would like to share? If so, we invite you to submit your Education Resources for consideration for the CF Education Resources display in the Exhibit Hall. All education material(s) must be developed and completed prior to the start of the 2009 NACFC. Descriptions of the materials must be submitted to the CFF by **May 13**. Instructions for submission of Education Resources are posted on the NACFC Web site at www.nacfcconference.org.

GENERAL INFORMATION

Registration | Conference Venue | Housing

Registration Fees & Tuition

Pre-registration Fees

General Registration.....	\$500
Allied Health Professionals	\$400
Students & Trainees	\$200
Center Director Emeritus.....	\$150
Non-exhibiting Company Reps....	\$600

Pre-registration Deadline is September 14, 2009

Registration fees will increase \$200 after the pre-registration deadline date.

Tuition Fees

Special Classes	\$250 each
Short Courses 1-8	\$150 each

To Ensure That You Receive NACFC Announcements:

If your e-mail address has changed since you last attended the conference, please send your current e-mail address to nacfc@cff.org.

Direct Conference Inquiries to:

Cystic Fibrosis Foundation
North American CF Conference
6931 Arlington Road
Bethesda, Maryland 20814

(301) 951-4422 Phone
(301) 907-2563 Fax
nacfc@cff.org E-mail

2009 Schedule Overview

- 🔊 Pre-conference sessions, including Special Classes and Short Courses (see pages 7 & 8 for session details), will be held on Wednesday, October 14. General attendance sessions, including Workshop, Symposium and Plenary sessions, will begin on Thursday, October 15. The conference will adjourn after the Closing Event on Saturday night, October 17.
- 🔊 The Exhibit Hall will open and the first Poster Session will be held on Thursday, October 15 during the lunch break.
- 🔊 Please view the Program-At-A-Glance on page 4 for additional program details.

Plenary Session Highlights

The CF Foundation is excited to announce three informative and inspiring Plenary sessions to be presented during the 2009 NACFC. The first Plenary will celebrate the 20th anniversary of the discovery of the CF gene. Given by Francis S. Collins, M.D., Ph.D. and Steven M. Rowe, M.D., MSPH, "Two Decades of CFTR Research: From Gene Discovery to Therapeutic Target" will focus on how far we have come, from understanding the CF gene, protein interactions, the role of modifier genes and finally how this all translates into potential treatments for CF. The focus for Plenary sessions two and three include tackling the critical aspects of CF patient care and quality of life improvement. Michael Konstan, M.D. and Lisa Saiman, M.D, M.P.H. will present a review of inflammation and infection while Bonnie Ramsey, M.D., George Retsch-Bogart, M.D. and Claire Wainwright, M.D., MBBS will provide an overview of recent findings in infant lung disease and care.

Registration Information

Registration will open **July 16**. The *Preliminary Program*, pertinent registration and hotel room reservation information will be posted on the NACFC Web site at www.nacfcconference.org. If you have attended one or more of the past four NACFCs, you will receive an e-mail announcement containing your User Name and Password for the NACFC registration Web site when it opens in July.

Conference Venue and Housing

Conference registration, all official scientific sessions, and the Saturday night Closing Event will be held at the **Minneapolis Convention Center**. The **Hilton Minneapolis** is the headquarter hotel; selected study groups, special interest meetings and most evening meetings/functions will be held at this hotel.

The CF Foundation has negotiated discounted rates and has held room blocks at the **Official Conference Hotels**. All hotels are within walking distance of the Minneapolis Convention Center. To receive the discounted conference rates, you must make your reservation through the **NACFC Housing Bureau**, which will open **July 16**. Visit the NACFC Web site at www.nacfcconference.org to access the housing reservation system, a listing of the Official Conference Hotels, as well as specific rates and instructions for making room reservations. If you do not book your room through the NACFC Housing Bureau or if you contact the hotels directly to make a reservation, you will NOT receive the **Official Conference Hotels** room rates.

PROGRAM-AT-A-GLANCE

Wednesday, October 14

- 8:00 a.m. - 5:00 p.m. **Special Classes**
- 1) *Nuts & Bolts of CF Care*
 - 2) *Advanced Airway Clearance: An Update on What is New*
 - 3) *Pelvic Floor Dysfunction: Evaluation & Treatment*
 - 4) *Boot Camp for the CF Pharmacist*
- 8:00 a.m. - 10:00 p.m. **Study Groups**
- 12:00 p.m. - 7:30 p.m. **Registration**
- 12:30 p.m. - 5:30 p.m. **Psychosocial Working Group**
- 3:00 p.m. - 7:00 p.m. **Short Courses**
- 1) *Brief Interventions to Improve Adherence: Motivational Interviewing & Problem Solving*
 - 2) *Holistic Approaches to Managing Pain, Anxiety & Depression*
 - 3) *Winning with CF: Essential Tools, Tips & Tactics for Motivating Medical Compliance*
 - 4) *Introductory Nutrition Course for Dietitians New to CF: Infancy Through Adulthood*
 - 5) *Basic & Advanced Genetics*
 - 6) *"Quality" in Clinical Research: A Never Ending Quest*
 - 7) *Advanced Medical Management for Adult Patients*
 - 8) *CF Basic Science for the Non-scientist*
- 4:00 p.m. - 6:00 p.m. **Poster Set-up**

Limited Attendance Sessions

Limited attendance sessions are shaded on the Program-At-A-Glance. Please keep in mind the following:

- Pre-registration for limited attendance sessions is required and accepted on a first-come, first-served basis.
- Some limited attendance sessions are open only to specific disciplines or individuals.

NOTE: Detailed information and instructions to pre-register for the limited attendance sessions will be listed in the NACFC *Preliminary Program*, which will be available in July.

Thursday, October 15

- 6:30 a.m. - 6:00 p.m. **Registration**
- 7:30 a.m. - 9:30 a.m. **Physicians Grand Rounds**
- 7:30 a.m. - 9:30 a.m. **Caregivers Networking Groups by Discipline**
- 9:00 a.m. - 10:00 a.m. **Poster Set-up**
- 9:30 a.m. - 10:00 a.m. **Coffee Break**
- 10:00 a.m. - 11:50 a.m. **Workshop Session I**
- 1) *Novel Approaches to Restoring & Monitoring CFTR Function*
 - 2) *Signaling in CF Airway & Inflammatory Cells*
 - 3) *Gene Modifiers*
 - 4) *Adherence: Making it Work Every Day*
 - 5) *Infectious Diseases Management*
 - 6) *Alcohol, Drugs & Tobacco: Psychosocial Implications to Care*
 - 7) *PT/RT Management of Advanced/Complex Disease*
 - 8) *Endocrine, Bone & Joint Research*
 - 9) *Epidemiology/Newborn Screening*
 - 10) *"They Are All Grown Up!" – Adult Issues*
- 11:50 a.m. - 4:30 p.m. **Exhibit Hall Open**
- 11:50 a.m. - 1:50 p.m. **Poster Session I (all numbers)**
- 11:50 a.m. - 1:50 p.m. **Lunch Break/Visit Exhibits**
- 2:00 p.m. - 3:50 p.m. **Symposium Session I**
- 1) *It's Not All Mucus Clearance: Innate & Adaptive Host Defenses in CF*
 - 2) *Signaling in CF Airway Epithelia: Ceramide*
 - 3) *Insights Into CFTR Gating & Permeation*
 - 4) *Nibbling on ENaC: The Role of Proteases & Specific Therapeutics in CF Airway Epithelial Na⁺-transport*
 - 5) *Multidisciplinary Approach to Pediatric & Adult Lung Transplantation*
 - 6) *Gastrointestinal Barriers to Good Nutrition in CF*
 - 7) *It is Now Toward Rational Management of Pulmonary Exacerbations*
- 3:50 p.m. - 4:20 p.m. **Coffee Break**
- 4:20 p.m. - 6:00 p.m. **Plenary Session I**
- Two Decades of CFTR Research: From Gene Discovery to Therapeutic Target*
- 6:30 p.m. - 8:00 p.m. **Welcome Reception**
- 8:00 p.m. - 10:00 p.m. **Related Interest & Study Group Meetings**

PROGRAM-AT-A-GLANCE

Friday, October 16

6:30 a.m. - 6:00 p.m.	Registration
7:00 a.m. - 6:00 p.m.	Exhibit Hall Open
7:00 a.m. - 8:30 a.m.	Poster Session II (even numbers)
7:00 a.m. - 8:30 a.m.	Continental Breakfast/Visit Exhibits
8:45 a.m. - 10:00 a.m.	Plenary Session II <i>Inflammation & Infection: Update on the Pipeline</i>
10:00 a.m. - 10:30 a.m.	Coffee Break
10:30 a.m. - 12:20 p.m.	Symposium Session II
	8) <i>Antimicrobial Treatment of Complex Infections</i>
	9) <i>Pushing the Limits of Mutant CFTR Function</i>
	10) <i>Basic Science Insights Into Airway Clearance</i>
	11) <i>Determinants of CF Phenotypic Heterogeneity</i>
	12) <i>Care at the End of Life for Patients with CF: Case Presentation</i>
	13) <i>Exercise Testing in the Treatment & Assessment of the CF Patient</i>
	14) <i>The Bone Health Guidelines Re-visited: What Was Right & What Wasn't</i>
12:30 p.m. - 1:50 p.m.	Canadian Fireside Chat
12:30 p.m. - 1:50 p.m.	Lunch Break/View Posters/Visit Exhibits
12:30 p.m. - 1:50 p.m.	U.S. Pediatric Program Directors Meeting

Limited Attendance Sessions

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NOTE: Detailed information and instructions to pre-register for the limited attendance sessions will be listed in the NACFC *Preliminary Program*, which will be available in July.

12:30 p.m. - 1:50 p.m.	U.S. Adult Program Directors Meeting
12:30 p.m. - 1:50 p.m.	U.S. Affiliate Program Directors Meeting
12:30 p.m. - 1:50 p.m.	Patient Registry Coordinators Luncheon
12:30 p.m. - 1:50 p.m.	Brown Bag Luncheons
	1) <i>CF Team Longevity – What Keeps Your Team Committed to Fighting CF</i>
	2) <i>Understanding Burkholderia</i>
	3) <i>From Hotline to Foster Care to Court: Legal Issues in CF Care</i>
	4) <i>Site Management for the Experienced Research Team</i>
2:00 p.m. - 3:50 p.m.	Workshop Session II
	11) <i>CFTR 2009</i>
	12) <i>A New Look at Molecular Targets for $\Delta F508$ CFTR Correction</i>
	13) <i>Using QI Tools to Improve Patient Care & Team Performance</i>
	14) <i>Pathogenesis of Infection</i>
	15) <i>Biologically Relevant Endpoints for Interventional Trials</i>
	16) <i>Airway Epithelial Biology & Ion Transport</i>
	17) <i>Psychosocial Impact of Newborn Screening</i>
	18) <i>Airway Clearance Interventions</i>
	19) <i>Comprehensive Lung Care</i>
	20) <i>Strategies to Improve Nutrition Care</i>
4:00 p.m. - 6:00 p.m.	Canadian Clinics Meeting
4:00 p.m. - 6:00 p.m.	Poster Session III (odd numbers)
4:00 p.m. - 6:00 p.m.	Fellows Session (Pediatric)
4:00 p.m. - 6:00 p.m.	Fellows Session (Adult)
4:00 p.m. - 6:00 p.m.	Caregivers Discussion Groups by Discipline
6:30 p.m. - 8:00 p.m.	Speakers & Fellows Reception
8:00 p.m. - 10:00 p.m.	Related Interest & Study Group Meetings

PROGRAM-AT-A-GLANCE

Saturday, October 17

6:30 a.m. - 6:30 p.m.	Registration
7:00 a.m. - 2:30 p.m.	Exhibit Hall Open
7:00 a.m. - 8:20 a.m.	Rise 'n Shine Roundtables
7:00 a.m. - 8:20 a.m.	Continental Breakfast/View Posters/ Visit Exhibits
7:00 a.m. - 8:20 a.m.	Consultation Clinics
	1) <i>Nutrition/GI</i>
	2) <i>Engaging the Unengageable: Mental Health Issues, Addictions & Beliefs</i>
	3) <i>Clinical RT/PT Case Presentations</i>
	4) <i>Case Studies in Motivational Interviewing & Problem Solving</i>
8:30 a.m. - 10:00 a.m.	Plenary Session III <i>Infant Lung Disease & Care</i>
10:00 a.m. - 10:30 a.m.	Coffee Break
10:30 a.m. - 12:20 p.m.	Symposium Session III
	15) <i>Recent Antimicrobial Clinical Trials</i>
	16) <i>Advances in CF Animal Models</i>
	17) <i>The Molecular Biology of CF-related Ion Channels & Transporters</i>
	18) <i>Allergic Disease & Asthma in CF – Manifestations & Management</i>
	19) <i>Diabetes Throughout the Lifespan</i>
	20) <i>Spirituality – Its Intriguing Relationships with Quality of Care & Life Management in CF</i>

Limited Attendance Sessions

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- Some limited attendance sessions are open only to specific disciplines or individuals.

NOTE: Detailed information and instructions to pre-register for the limited attendance sessions will be listed in the NACFC *Preliminary Program*, which will be available in July.

12:30 p.m. - 1:50 p.m.	Luncheon Roundtables
12:30 p.m. - 1:50 p.m.	Brown Bag Luncheons
	5) <i>The Challenging Role of the CF Coordinator</i>
	6) <i>Budgeting & Invoicing for a Clinical Research Trial</i>
	7) <i>Newborn Screening</i>
	8) <i>Physical Activity in CF: Inspiration & Motivation Required</i>
	9) <i>Reimbursement Issues</i>
12:30 p.m. - 2:20 p.m.	U.S. Center & Program Directors Meeting
12:30 p.m. - 2:20 p.m.	Lunch Break/View Posters/Visit Exhibits
2:30 p.m. - 4:20 p.m.	Workshop Session III
	21) <i>What We've Learned About $\Delta F508$ Correction</i>
	22) <i>Model Systems</i>
	23) <i>Managing the Hospitalized Patient</i>
	24) <i>Microbial Diversity & Ecology in CF</i>
	25) <i>Offense & Defense in the CF Airway</i>
	26) <i>Transitioning in 2009 Adolescent Readiness How, When & Where</i>
	27) <i>GI/Nutrition/Liver Disease in CF</i>
	28) <i>Quality Improvement</i>
	29) <i>Exercise Studies & Application in CF</i>
	30) <i>Outcome Measures in Infants & Toddlers</i>
	31) <i>Access & Affordability of CF Care</i>
4:30 p.m. - 6:30 p.m.	Caregivers Discussion Groups by Discipline
7:30 p.m.	Closing Event

CONFERENCE ADJOURNS

* 2009 NACFC pre-registration will open July 16 *

PRE-CONFERENCE SESSIONS

Special Classes | Short Courses

Special Classes

These full-day classes will be offered concurrently on Wednesday, October 14. Class attendance is limited, pre-registration is required, and an extra fee applies.

1) Nuts & Bolts of CF Care

This special class continues to be popular with new CF clinicians of all disciplines. It will provide a broad overview of the pulmonary, GI, nutritional, and psychosocial aspects of CF. Other issues that will be covered include microbiology, infection control, and adult issues related to this disease. We will have a panel of parents/patients who will share “words of wisdom” for all of us who care for those with CF. This class will serve as a basic foundation of CF information that can be built upon throughout the rest of the conference.

2) Advanced Airway Clearance: An Update on What is New

This class is for Physical and Respiratory Therapists who have previously attended a Basic ACT course and have experience in using these techniques with patients. It is an opportunity to formalize one’s knowledge and experience in using the ACTs and develop a more in-depth understanding of both the theoretical and practical application of ACTs. The focus of the course will be on optimizing ACTs for the individual patient such as infants,

older patients, those with mild and advanced disease and in patients with complications or who have issues with non-adherence. New developments and information on ACTs will be discussed.

3) Pelvic Floor Dysfunction: Evaluation & Treatment

This class will address the frequently described and identified problem of urinary stress incontinence in patients with cystic fibrosis. An overview of the structure and function of the pelvic floor and the mechanism of pelvic floor dysfunction will be reviewed. An approach to evaluation, education and exercise strategies will be discussed. The course format includes lecture, demonstration, practical labs and small group activity. Evaluation and treatment techniques will be demonstrated using Surface EMG/Biofeedback.

4) Boot Camp for the CF Pharmacist

Given the increasing complexity of drug therapy in the management of patients with CF, this class will address detailed drug therapy issues in CF. A combination of lecture, case discussions, pharmacokinetics, antimicrobial therapy, aerosol therapy, pancreatic enzyme replacement therapy, and many other topics will be discussed by pharmacists and pediatric and adult CF center directors. This class, which is open to pharmacists only, is limited to 36 participants.

Short Courses

Eight short courses will be offered concurrently on the afternoon of Wednesday, October 14. Attendance at each course is limited, pre-registration is required, and an extra fee applies.

1) Brief Interventions to Improve Adherence: Motivational Interviewing & Problem Solving

CF patients have difficulty adhering to their CF regimen and this is likely to become more difficult as new treatments are approved. Despite widespread recognition about this fact, it is challenging for some health professionals to tackle this problem. This short course will present two strategies for improving adherence that can be used during clinic visits: Motivational Interviewing and Problem Solving. Motivational Interviewing (MI) is an effective intervention for enhancing motivation to adhere to therapy. Problem Solving is a concise, structured strategy involving the patient, parent/caregiver and CF team member. It facilitates identification of key barriers to adherence and generates creative solutions to these barriers. This short course will review the current research on MI and Problem Solving, introducing the main principles and techniques, with an emphasis on clinic use.

2) Holistic Approaches to Managing Pain, Anxiety & Depression

Pain, anxiety and depression are issues for many people with CF. Holistic medicine is a system of health care that fosters a cooperative relationship among all those involved, leading toward optimal attainment of the physical, mental, emotional, social and spiritual aspects of health. As advances in CF medical care improve overall physical outcomes, CF care providers need to look at the whole person, including analysis of physical, nutritional, environmental, emotional, social, spiritual and lifestyle values and how these can be incorporated into CF care. This course will discuss holistic approaches to care of the CF patient and family and give practitioners of all disciplines new tools to help treat pain, anxiety and depression. This course will be presented by a multidisciplinary faculty including nursing, medicine, psychology and social work and will include presentations and interactive, patient-based cases.

PRE-CONFERENCE SESSIONS

Special Classes | Short Courses

Short Courses, continued from page 7

3) Winning with CF: Essential Tools, Tips & Tactics for Motivating Medical Compliance

Medical compliance and motivation are crucial issues for parents and professionals who care for those with cystic fibrosis. Open to all disciplines, this workshop focuses on tools, skills, and techniques that are useful for inspiring adults and children to make healthy choices and wise decisions as they meet the challenges of chronic illness. Based on internationally renowned Love and Logic principles as taught in the award-winning book “Parenting Children with Health Issues,” this presentation is designed to provide high take-home value that can be immediately implemented at home or in the clinic. Those attending will envision themselves working more successfully with cystic fibrosis children and adults – even those who may be resistant or oppositional.

4) Introductory Nutrition Course for Dietitians New to CF: Infancy Through Adulthood

This introductory short course on nutrition and CF is designed for health care professionals who are new to CF. Topics that will be covered include education of a newly diagnosed patient, nutritional assessment basics, diet, pancreatic enzyme replacement, vitamins and minerals, eating behaviors, cystic fibrosis related diabetes, and family centered care. The course will address issues specific to patients of all age groups (pediatric through adult). This class provides basic nutrition information and is not intended for advanced/experienced CF practitioners.

5) Basic & Advanced Genetics

This course will discuss genetics and its role in cystic fibrosis from the most basic level to an advanced view. Topics include diagnostic criteria, CFTR mutations and what they mean, genotype-phenotype affects on newborn screening and, finally, examples of dialog with patients about this complex topic.

6) “Quality” in Clinical Research: A Never Ending Quest

Creating a culture of research has become of paramount importance to the CF Foundation with the advent of the clinical research facilitation awards and the increased activity in the CF pipeline. This multidisciplinary course will focus on process improvement and best practices within our clinical research program. The goal of the short course will be to share case studies that deal with issues and/or unique situations that we have encountered in our programs. The course moderator will start out with a specific challenge faced in their roles as Clinical Research Manager and Regulatory Specialist. A call for case studies will be requested and the most challenging situations will be presented.

7) Advanced Medical Management for Adult Patients

This short course is targeted to medical caregivers who have already established a moderate sophistication in the care of adults with cystic fibrosis. Topics will address some of the more difficult management problems that are commonly encountered, but for which the evidence-based literature is incomplete. Subjects to be included are strategies for deciding when to prescribe chronic pulmonary medications; treatment of pulmonary exacerbations when multi-drug resistant bacteria are present; management of patients with nontuberculous mycobacteria; management of patients with recurring or severe intestinal problems; and others. Speakers will present relevant medical literature, but will be asked to extend their discussion to answer the question, “What do you do when definitive studies are lacking, but decisions still need to be made?” Special efforts will be made to reserve ample time for questions from the attendees.

8) CF Basic Science for the Non-scientist

Do you want to know about the exciting scientific discoveries that underpin our understanding of cystic fibrosis, but are put off by the language used by scientists? If so, this short course is for you! In plain English, we will dissect the cystic fibrosis transmembrane conductance regulator (CFTR), the protein product of the defective gene responsible for CF. We will tell you how CFTR works and how a single molecule can be studied in the laboratory. We will explain how genetic defects disrupt the workings of CFTR leading to chronic lung infections characteristic of CF. We will discuss CF animal models and the exciting possibilities from the CF pig. This course will concentrate on clinical trials and basic science. Upon completion, you will be able to appreciate much more fully the exciting new results that will be presented at the North American CF Conference.

PROGRAM COMMITTEE

Co-Chairs

John J. LiPuma, M.D.

Elizabeth Tullis, M.D., FRCP(C)

Members

Frank J. Accurso, M.D.

Cynthia L. Adams

Melissa A. Ashlock, M.D.

Rebecca J. Bathon, M.S.W., LCSW

Robert J. Beall, Ph.D.

Julie A. Biller, M.D.

Michael P. Boyle, M.D.

Preston W. Campbell, III, M.D.

André M. Cantín, M.D.

J.P. Clancy, M.D.

Richard C. Cohen, M.D.

Jonathan Cohn, M.D.

C. William Davis, Ph.D.

Mitchell L. Drumm, Ph.D.

Colleen E. Dunn, CCRC, R.R.T.

Raymond A. Frizzell, Ph.D.

Antoinette Gardner, B.S.N., M.Ed., A.E.-C., CCRC

Cynthia A. George, M.S.N., F.N.P., B.C.

William B. Guggino, Ph.D.

John W. Hanrahan, Ph.D.

Leslie Hazle, M.S., R.N., C.P.N.

Michelle S. Howenstine, M.D.

Sandra K. Hurban, R.N., B.S.N., CCRC

Michael W. Konstan, M.D.

Robert J. Kuhn, Pharm.D.

Amanda R. Leonard, M.P.H., R.D., C.D.E.

Bruce C. Marshall, M.D.

Catherine O'Malley, R.R.T.

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