



NACFC 2021 CONTINUING EDUCATION GUIDE



The Cystic Fibrosis Foundation welcomes you to the 35TH Annual North American Cystic Fibrosis Conference.

NACFC is the largest gathering of cystic fibrosis professionals in the world and provides superior continuing medical education and a multi-disciplinary approach to advancement of CF research, treatments, and care.

Target Audience

NACFC has been designed to meet the educational needs of physicians, research scientists, nurses, social workers, nutritionists, dietitians, physical therapists, respiratory therapists, pharmacists, psychologists, psychiatrists, research coordinators, geneticists, and other medical professionals involved in CF study and care.

Learning Goal/Purpose

The learning goal/purpose of this conference is to enable caregivers the opportunity to receive the most current and up-to-date information on the diagnosis and management of cystic fibrosis and to learn strategies for improving outcomes for patients.

Educational Objectives

After completing this program, participants should be better able to:

- Discuss CF research protocols with their patients and families.
- Apply one or more quality improvement projects to their practice to improve patient outcomes.
- Employ strategies to improve patient and family adherence to treatment recommendations.
- Use infection control recommendations in their practice.
- Apply CF Foundation practice guidelines.

Statement of Need/Program Overview

This program has been designed to educate physicians and allied health professionals on recent advances in basic and clinical research related to CF and to discuss issues, problems, and new approaches to the diagnosis and clinical management of CF patients. The conference is directed toward physicians, other healthcare professionals, and researchers involved in the CF field. The portions of the meeting focused on research advances are intended to educate medical professionals on the general approaches used, interpretation of data, future research directions, and current and future impact on clinical practice. Clinically oriented sessions will encompass presentation/discussion of problems and issues, recent advances, and application to multidisciplinary management of patients and interactions with family members.

Information on CE credits for on-demand content is available after the At-A-Glance section of this guide.

To Claim Credits, Certificates of Attendance, and Transcripts visit the [CE Portal](#).

Genetic Counselors

This year, genetic counselors will be able to claim Category 2 CEUs.

To claim CEUs for NACFC 2021, genetic counselors should visit [NSGC.org](https://www.nsgc.org), log in to the CEU portal there and complete the application. The application for Category 2 CEUs must be completed within **90 days** of completing the educational activity.

Nurses

Medical Education Resources (MER) designates this live activity for a maximum of **22.5** ANCC nursing contact hours. Nurses will be awarded contact hours upon successful completion of this activity.

Provider approved by the California Board of Registered Nursing, Provider Number 12299, for up to **22.5** contact hours.

Nutritionists/Dieticians

To claim credits for the live virtual NACFC 2021, the Commission on Dietetic Regulation (CDR) does not require prior approval. To claim credits from CDR, access your account on [CDRnet.org](https://www.cdrnet.org) to log the program in your Step 4: Activity Log under Activity Type 170 - Lecture/Seminar/Teleseminar/Webinar, and claim 1 CPEU for every 1 contact hour spent during the activity. Please also retain for your documentation either a certificate of completion or an agenda/timing outline which accurately reflects the number of contact hours spent completing this activity.

When counting contact hours, please be certain not to include time taken for breaks, meals, or exams. Only time spent in lecture/seminar may be counted (from [CDR FAQ](#)).

Pharmacists

Medical Education Resources (MER) designates this continuing education activity for **22.5** contact hours (**2.25** CEUs) of the Accreditation Council for Pharmacy Education. Universal Program Number: JA 0003680-9999-21-112-L01-P. This activity is certified as knowledge-based CPE. December 6th, 2021 is the deadline to submit your claimed credits.

Physical Therapists

Certificate of attendance and session transcript can be obtained for this activity.

Physicians

Medical Education Resources designates this live activity for a maximum of **22.5** AMA PRA Category 1 Credit(s)[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Physician Assistants

Medical Education Resources has been authorized by the American Academy of Physician Assistants (AAPA) to award AAPA Category 1 CME credit for activities planned in accordance with the AAPA CME Criteria. This activity is designated for **22.5** AAPA Category 1 CME Credits. Physician Assistants should only claim credit commensurate with the extent of their participation

Psychiatrists

Psychiatrists may receive a maximum of **22** AMA PRA Category 1 Credits™ for completing this activity.

Psychologists

This activity is being co-sponsored by the Maryland Psychological Association and the Cystic Fibrosis Foundation. The Maryland Psychological Association is approved by the American Psychological Association to offer continuing education for psychologists. The Maryland Psychological Association maintains responsibility for the program and its content.

NACFC 2021 has been approved for **13.25** contact hours.

Respiratory Therapists

NACFC 2021 has been approved for a maximum of **20.25** contact hours of Continuing Respiratory Care Education (CRCE) credit by the American Association for Respiratory Care.

Social Workers



As a Jointly Accredited Organization, MER is approved to offer social work continuing education by the Association of Social Work Boards (ASWB) Approved Continuing Education (ACE) program. Organizations, not individual courses are approved under this program. State and provincial regulatory boards have the final authority to determine whether an individual course may be accepted to for continuing education credit. MER maintains responsibility for this course.

NACFC 2021 is approved for **22.5** continuing education credits.

Disclaimer and Disclosure of Conflicts of Interest

Disclaimer

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The following planning committee members have relationships to disclose:

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Edith T. Zemanick, MD	Grants/Research Support	Sokol, Vertex Pharmaceuticals, Savara

All other CFF and MER content managers have no relevant relationships with commercial interests to disclose.

Speakers will provide disclosure information in their slides or will verbally disclose at the beginning of their presentations.

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Sokol, Vertex Pharmaceuticals, Savara

Tuesday, November 2, 2021											
Time	Session Title	Type	CME	ANCC	Pharm	SW	RT	Psych	NTR	GC	PT
10:00 AM - 12:00 PM	PGR--Physicians Grand Rounds	Physicians Grand Rounds	X	X	X	X	X		X	X	X
12:15 PM - 1:30 PM	CC01--SW/PSYCH: Managing the Moment: Crisis Intervention	Consultation Clinic	X	X	X	X		X			
12:15 PM - 1:30 PM	CC02--NRS: Ethical Dilemmas & Addictive Behaviors	Consultation Clinic	X	X	X	X	X				
12:15 PM - 1:30 PM	CC03--NTR/CLIN: GI/Nutrition	Consultation Clinic	X	X	X	X			X		
12:15 PM - 1:30 PM	CC04--CLIN: Difficult Diagnoses	Consultation Clinic								X	
12:15 PM - 1:30 PM	CC05--CLIN: Management of Complex GI Patients	Consultation Clinic	X	X	X	X			X		
12:15 PM - 1:30 PM	CC06--PT&RT: Issues in the CF Athlete	Consultation Clinic	X	X	X	X			X		X
1:45 PM - 3:45 PM	AF--Adult Fellows Session	Fellows Session	X	X	X	X	X		X	X	X
1:45 PM - 3:45 PM	PF--Pediatric Fellows Session	Fellows Session	X	X	X	X	X		X	X	X
4:00 PM - 4:30 PM	2021 Award Recipients	Other									
4:00 PM - 4:30 PM	Welcome & Orientation	Other									
4:00 PM - 4:30 PM	Welcome from Michael Boyle, CEO	Other									

Wednesday, November 3, 2021											
Time	Session Title	Type	CME	ANCC	Pharm	SW	RT	Psych	NTR	GC	PT
10:00 AM - 10:45 AM	R01--PTC Roundtable Topics	Roundtable	X	X	X	X					
10:00 AM - 10:45 AM	R02--NRS Roundtable Topics	Roundtable	X	X	X	X				X	
10:00 AM - 10:45 AM	R03--NTR Roundtable Topics	Roundtable	X	X	X	X			X		
11:00 AM - 1:00 PM	S01--U&C-CLIN: *Health Equity in CF Care	Symposium									
11:00 AM - 1:00 PM	S02--SW/PSYCH: *Personal Relationships Across the Lifespan in CF	Symposium	X	X	X	X	X	X	X	X	X
11:00 AM - 1:00 PM	S03--CLIN: Updates in CF Liver Disease	Symposium	X	X	X	X			X		
11:00 AM - 1:00 PM	S04--NT: The New Era of Highly Effective CFTR Modulator Therapy	Symposium	X	X	X	X	X		X	X	
11:00 AM - 1:00 PM	S05--PT&RT-NT: *ACT & Exercise in the World of Modulator Therapy: Can We Lighten the Load?	Symposium					X				X
11:00 AM - 1:00 PM	S06--APP&D: Airway Biology in CF Lung Disease	Symposium	X	X	X	X					
11:00 AM - 1:00 PM	S07--CFTR: CFTR, a Member of a Molecular Community	Symposium	X	X	X	X					
11:00 AM - 1:00 PM	W02--SW/PSYCH: Novel Virtual Psychosocial Interventions Showcase	Workshop	X	X	X	X		X			

Wednesday, November 3, 2021												
Time	Session Title	Type	CME	ANCC	Pharm	SW	RT	Psych	NTR	GC	PT	
11:00 AM - 1:00 PM	W03--NRS-SW/PSYC-CLIN: Hey Baby, Pregnancy in the Era of Highly Effective Modulator Therapy	Workshop	X	X	X	X		X				
11:00 AM - 1:00 PM	W04--INF/MIC: Ecology of Airway Infection	Workshop	X	X	X	X						
11:00 AM - 1:00 PM	W05--PTC-GMS: Approaches for Delivery of Nucleotide Based Therapeutics	Workshop								X		
1:10 PM - 1:50 PM	Fireside Chat with Abraham Sender & Chandra Gordon	Fireside Chat										
1:10 PM - 1:50 PM	Fireside Chat with Frank Accurso	Fireside Chat										
1:10 PM - 1:50 PM	Fireside Chat with Paul Quinton	Fireside Chat										
1:10 PM - 1:50 PM	Fireside Chat with Theresa Rodgers & Lynne Fries	Fireside Chat										
1:10 PM - 1:50 PM	Poster Session: Odd Poster Numbers	Other										
2:00 PM - 3:00 PM	P1---*Meeting the Moment: Lessons for a Changing World	Plenary	X	X	X	X	X		X	X		
3:15 PM - 5:15 PM	S08--NRS-CLIN-SW/SPYCH: *Gender Diversity in CF	Symposium	X	X	X	X	X	X	X	X	X	
3:15 PM - 5:15 PM	S09--PHARM: *Highly Effective CFTR Modulators in the Post-FDA Approval World	Symposium	X	X	X	X	X		X	X	X	
3:15 PM - 5:15 PM	S10--GMS: What Whole Genome Sequencing Teaches Us About CF	Symposium	X	X	X	X				X		

Wednesday, November 3, 2021											
Time	Session Title	Type	CME	ANCC	Pharm	SW	RT	Psych	NTR	GC	PT
3:15 PM - 5:15 PM	S11--CLIN: CF Learning Network: Innovation Labs to Orchestrate Improvement	Symposium	X	X	X	X					
3:15 PM - 5:15 PM	S12--INF/MIC: Early Airway Infection: Prophylaxis, Eradication & Long-Term Impact	Symposium	X	X	X	X	X				
3:15 PM - 5:15 PM	S13--PTC-NT: Restoring CFTR When There is None: Emerging Strategies to Overcome Refractory Variants	Symposium	X	X	X	X					
3:15 PM - 5:15 PM	W06--NTR: *Nutrition Research	Workshop	X	X	X	X			X		
3:15 PM - 5:15 PM	W07--NRS-CLIN: Transplantation Beyond Lungs: How & Where Do We Begin	Workshop	X	X	X	X					
3:15 PM - 5:15 PM	W08--CLIN: Best Practices & Innovative Approaches in Clinical Research	Workshop	X	X	X	X	X		X	X	X
3:15 PM - 5:15 PM	W09--APP&D: Airway Innate Defense	Workshop	X	X	X	X					
3:15 PM - 5:15 PM	W10--PT&RT-U&C-SW/PSYCH: Issues in Patient Access to PT/RT Care	Workshop	X	X	X	X	X				X
5:15 PM - 6:15 PM	Discipline Specific Discussions II	Other									

Thursday, November 4, 2021											
Time	Session Title	Type	CME	ANCC	Pharm	SW	RT	Psych	NTR	GC	PT
10:00 AM - 10:45 AM	R04--PT&RT Roundtable Topics	Roundtable	X	X	X	X					X
10:00 AM - 10:45 AM	R05--SW/PSYCH Roundtable Topics	Roundtable	X	X	X	X				X	
10:00 AM - 10:45 AM	R06--PHARM Roundtable Topics	Roundtable	X	X	X	X					
11:00 AM - 1:00 PM	S14--NTR-CLIN: *Nutritional & Gastrointestinal Impact of Highly Effective Modulators	Symposium	X	X	X	X			X		
11:00 AM - 1:00 PM	S15--SW/PSYCH-NRS: *Lung Transplantation: Pre-Transplant Psychosocial Evaluation Best Practices	Symposium	X	X	X	X		X			
11:00 AM - 1:00 PM	S16--CLIN: Developing Country Perspectives in CF Care	Symposium	X	X	X	X	X		X	X	X
11:00 AM - 1:00 PM	S17--PTC-GMS: CFTR Rescue: Gene Editing to Target CFTR DNA Repair	Symposium									
11:00 AM - 1:00 PM	S18--CFTR: Modulating the CFTR Molecule	Symposium	X	X	X	X				X	
11:00 AM - 1:00 PM	W11--SW/PSYCH-NRS-PT&RT: Managing Daily Care: Directions for the Future	Workshop					X	X	X	X	X
11:00 AM - 1:00 PM	W12--GMS-CFTR: Models to Better Understand CF Pathogenesis & Biology	Workshop	X	X	X	X					
11:00 AM - 1:00 PM	W13--CLIN: Quality Improvement Framework for Change: Networks, Education, and Engagement	Workshop	X	X	X	X	X		X	X	X

Thursday, November 4, 2021											
Time	Session Title	Type	CME	ANCC	Pharm	SW	RT	Psych	NTR	GC	PT
11:00 AM - 1:00 PM	W14--NT: New Developments Correcting the Basic Defect	Workshop									
11:00 AM - 1:00 PM	W15--INF/MIC: Pathogenesis of CF Airway Infections	Workshop	X	X	X	X					
11:00 AM - 1:00 PM	W16--PT&RT: *Exercise in CF	Workshop	X	X	X	X					X
1:10 PM - 1:50 PM	Fireside Chat With Amanda Leonard	Fireside Chat									
1:10 PM - 1:50 PM	Fireside Chat With Bonnie Ramsey	Fireside Chat									
1:10 PM - 1:50 PM	Fireside Chat with Susan Gray & Pam Tuley	Fireside Chat									
1:10 PM - 1:50 PM	Poster Session: Even Poster Numbers	Other									
2:00 PM - 3:00 PM	P2--*Working Together to Pave the Path to a Cure	Plenary	X	X	X	X	X		X	X	X
3:15 PM - 5:15 PM	S19--CLIN: Hot Topics in CF Pulmonary Disease	Symposium	X	X	X	X	X				
3:15 PM - 5:15 PM	S20--NRS-SW/PSYCH-NTR: *Promoting Healthy Living in the Era of CFTR Modulators: Where Do We Begin	Symposium	X	X	X	X	X	X	X	X	X
3:15 PM - 5:15 PM	S21--NT-PTC: Biomarkers & Trial Designs for Novel CF Therapies	Symposium	X	X	X	X					

Thursday, November 4, 2021											
Time	Session Title	Type	CME	ANCC	Pharm	SW	RT	Psych	NTR	GC	PT
3:15 PM - 5:15 PM	S22--INF/MIC: *Tackling CF Infections in the Modern Era	Symposium	X	X	X	X	X				
3:15 PM - 5:15 PM	S23--PT&RT: The Role of PT/RT in the Midst of COVID-19: Novel Ways to Evaluate, Educate, & Treat the Person With CF	Symposium	X	X	X	X	X				X
3:15 PM - 5:15 PM	W17--NRS-PT&RT-SW/PSYCH: The Future Is Now: Innovations in Outpatient Care (Telehealth & Everything in Between)	Workshop	X	X	X	X	X	X	X	X	X
3:15 PM - 5:15 PM	W18--CLIN: GI/Liver Topics	Workshop	X	X	X	X			X		
3:15 PM - 5:15 PM	W19--CLIN: Epidemiology & Health Outcomes	Workshop	X	X	X	X				X	
3:15 PM - 5:15 PM	W20--CLIN: Update on Modulators	Workshop					X		X	X	X
3:15 PM - 5:15 PM	W21--APP&D: Airway Inflammation & Repair	Workshop	X	X	X	X					
3:15 PM - 5:15 PM	W22--PTC: Targeting CFTR DNA/RNA Repair for Rescue	Workshop									
3:15 PM - 5:15 PM	W23--CFTR: Processing, Trafficking, and Interactions of Misfolded CFTR Mutants	Workshop	X	X	X	X					
5:15 PM - 6:15 PM	Discipline Specific Discussions III	Other									

Friday, November 5, 2021											
Time	Session Title	Type	CME	ANCC	Pharm	SW	RT	Psych	NTR	GC	PT
10:00 AM - 10:45 AM	R07 - CFTR Roundtable Topics	Roundtable (Limited Attendance Session)	X	X	X	X					
10:00 AM - 10:45 AM	R08 - CLIN Roundtable Topics	Roundtable (Limited Attendance Session)	X	X	X	X			X	X	
11:00 AM - 1:00 PM	S24--NRS-CLIN-SW/PSYCH: *The Spectrum of Palliative Care: Providing a Lifetime of Relief from Symptoms & Stress of CF	Symposium	X	X	X	X		X			
11:00 AM - 1:00 PM	S25--CLIN: Emerging Technology in CFRD	Symposium	X	X	X	X					
11:00 AM - 1:00 PM	S26--APP&D-INF/MIC: Host-Pathogen Interactions in CF	Symposium	X	X	X	X					
11:00 AM - 1:00 PM	S27--PT&RT: *Sleep Disorders in CF: Identifying, Consulting, & Treatment	Symposium	X	X	X	X	X				
11:00 AM - 1:00 PM	W24--SW/PSYCH: Psychosocial Research Showcase	Workshop	X	X	X	X		X			
11:00 AM - 1:00 PM	W25--NTR-SW/PSYCH: Food Insecurity Innovations	Workshop	X	X	X	X		X	X		
11:00 AM - 1:00 PM	W26--PHARM: Advancements in CF Pharmacology	Workshop	X	X	X	X					
11:00 AM - 1:00 PM	W27--CLIN: CF Pulmonary Potpourri: Effect of Modulators and More	Workshop	X	X	X	X	X				

Friday, November 5, 2021											
Time	Session Title	Type	CME	ANCC	Pharm	SW	RT	Psych	NTR	GC	PT
11:00 AM - 1:00 PM	W28--GMS-NT: Systems for Developing & Testing Therapeutic Strategies	Workshop	X	X	X	X				X	
11:00 AM - 1:00 PM	W29--NT: Therapies Beyond CFTR	Workshop									
11:00 AM - 1:00 PM	W30--INF/MIC: Epidemiology & Management of CF Airway Infections	Workshop	X	X	X	X					
11:00 AM - 1:00 PM	W31--CFTR: Difficult to Treat CFTR Mutations & Novel Modulator & RNA Editing Technologies to Fix CFTR	Workshop	X	X	X	X				X	
1:10 PM - 1:50 PM	Discipline Specific Discussions IV	Other									
2:00 PM - 3:00 PM	P3--*Expanding the Horizon of Therapies for the Underlying Cause of CF	Plenary	X	X	X	X	X	X	X	X	X
3:15 PM - 5:15 PM	S28--CLIN: *Clinical Advancements in Modulator Therapy	Symposium	X	X	X	X	X		X	X	X
3:15 PM - 5:15 PM	S29--PTC-APP&D-GMS: Advancing IPSC Technology for Mechanistic & Experimental Therapeutic Studies of CF	Symposium	X	X	X	X					
3:15 PM - 5:15 PM	W32--U&C: *Innovations & Challenges in CF Health Care Delivery	Workshop	X	X	X	X	X		X		
3:15 PM - 5:15 PM	W33--NRS-SW/PSCH-NTR: Promoting Teamwork	Workshop	X	X	X	X	X	X	X	X	X
3:15 PM - 5:15 PM	W34--INF/MIC: SARS-COV 2 & COVID-19 in CF	Workshop	X	X	X	X	X				
3:15 PM - 5:15 PM	W35--APP&D: Airway Ions & Mucus Transport	Workshop	X	X	X	X					
3:15 PM - 5:15 PM	W36--PT&RT: PT/RT Research Year in Review	Workshop					X				X