



Canadian Cystic Fibrosis Conference

September 17-19, 2025

The guidelines are published, what next? Implementation



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Cystic Fibrosis Foundation



w/o limits

Disclosures

Sarah Hempstead, MS

The following relationships exist:

Employee of the Cystic Fibrosis Foundation

Overview

- Guidance Documents and Implementation Mechanisms
- Example: Depression and Anxiety
- What about the Care Model?

Types of Guidance Documents

Type of CFF Guidance Document	Panel of Experts	PICO questions	Systematic Literature Review	Grading of Evidence	Recommendation Statements 80% consensus	Public Comment	Publish in Peer Review Journal
 Clinical Practice Guideline	YES	YES	YES	YES	YES	YES	YES 
 Consensus Guideline /Statement	YES	YES	YES	NO	YES	YES	YES 
Technical Standards	YES	YES	No, Focused Review	No	YES	Focused	YES
 Position Paper/ Guidance	YES, Small panel	NO	No, Focused Review	NO	NO	YES	YES 
State of the Art	YES	NO	No, Focused Review	NO	NO	NO	YES
Clinical Considerations	YES, small panel	NO	NO	NO	NO	NO	NO, housed in my.CFF.org

Types of Guidance Documents

Received: 6 September 2023 | Accepted: 11 October 2023

DOI: 10.1097/HEP.0000000000000646

SPECIAL ARTICLE

OPEN

Cystic fibrosis screening, evaluation, and management of hepatobiliary disease consensus recommendations



International Journal of
Neonatal Screening



Guidelines

Cystic Fibrosis Newborn Screening: A Systematic Review-Driven Consensus Guideline from the United States Cystic Fibrosis Foundation



The Journal of
Heart and Lung
Transplantation

<http://www.jhltonline.org>



CONSENSUS STATEMENT

Cystic fibrosis foundation consensus statements for the care of cystic fibrosis lung transplant recipients



ELSEVIER

Contents lists available at [ScienceDirect](#)

Journal of Cystic Fibrosis

journal homepage: www.elsevier.com/locate/jcf



Review

Cystic fibrosis foundation position paper: Redefining the cystic fibrosis care team



ELSEVIER

Contents lists available at [ScienceDirect](#)

Journal of Cystic Fibrosis

journal homepage: www.elsevier.com/locate/jcf



Original Article

Nutritional considerations for a new era: A CF foundation position paper



ELSEVIER

Contents lists available at [ScienceDirect](#)

Journal of Cystic Fibrosis

journal homepage: www.elsevier.com/locate/jcf



Original Article

Position paper: Models of post-transplant care for individuals with cystic fibrosis

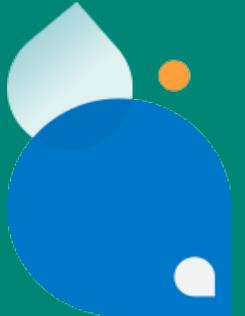




Implementation Mechanisms



Patient Registry



Patient Registry and Guidelines



Guideline Published



Guideline Question
Added to Registry



Data Collected to
Assess Implementation



Reporting

Patient Registry Questions

- The CF Foundation recommends colonoscopy as the screening examination for CRC in individuals with CF
- The CF Foundation recommends that CRC screening begin at age 40 y in individuals with CF with continued rescreening every 5 y
- The CF Foundation recommends that individuals with CF who have undergone a colonoscopy that had any adenomatous polyps have surveillance colonoscopy in 3 y, unless shorter interval is indicated by individual findings, with subsequent intervals based on most recent endoscopic examination

Hadjiiladis D, Khoruts A, Zauber AG, Hempstead SE, Maisonneuve P, Lowenfels AB; Cystic Fibrosis Colorectal Cancer Screening Task Force. Cystic Fibrosis Colorectal Cancer Screening Consensus Recommendations. *Gastroenterology*. 2018 Feb;154(3):736-745. e14. doi: 10.1053/j.gastro.2017.12.012. Epub 2017 Dec 29.

Patient Registry Questions

Colorectal Cancer Screening/Surveillance

Did the patient undergo a colonoscopy (screening or surveillance) during the reporting year?

- Yes No Unknown

What were the results of the colonoscopy?

- Normal
 Colorectal Cancer
 Adenomatous polyps
 Indeterminate results (e.g. inadequate preparation)

ation for

CRC in individuals with CF

- The CF Foundation recommends that CRC screening begin at age 40 y in individuals with CF with continued rescreening every 5 y
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Colonoscopy Screenings

People with CF are at higher risk of developing colorectal cancer than the general population.



3,354 People were screened between 2020–2024



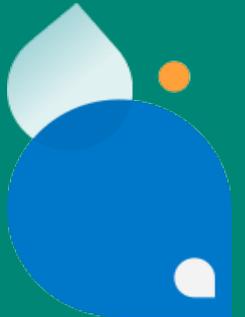
60 Colon Cancer Cases Found



43% Screening Rate

Hadjiiladis D, Khoruts A, Zauber AG, Hempstead SE, Maisonneuve P, Lowenfels AB; Cystic Fibrosis Colorectal Cancer Screening Task Force. Cystic Fibrosis Colorectal Cancer Screening Consensus Recommendations. *Gastroenterology*. 2018 Feb;154(3):736-745.e14. doi: 10.1053/j.gastro.2017.12.012. Epub 2017 Dec 29.

Education and Training



Webinars, Presentations, and Educational Materials



Applying Liver Guidelines to Clinical Care: A Case-Based Webinar

Feb 28, 2025 11:30 AM

aCLFD vs. CFHBI

- Advanced CF Liver Disease (aCLFD) – having one (or more) of the following:
 - Nodular liver
 - Advanced fibrosis (F4)
 - Multilobular cirrhosis with or w/o portal htn
 - Noncirrhotic portal htn
- CF Hepatobiliary Involvement (CFHBI) – having one (or more) of the following:
 - Hepatomegaly
 - Liver fibrosis (< F4)
 - Inc liver stiffness by elastography
 - Hepatic steatosis
 - Focal biliary cirrhosis
 - Cholestasis
 - Persistent elevations of LFT
 - Abnormal liver imaging



Applying CRMS/CFSPID Guidelines to Clinical Care: A Case-Based Webinar

Aug 12, 2025 11:30 AM

What defines CRMS/CFSPID?

- ▶ **Abnormal Newborn screen for cystic fibrosis,**
- ▶ **AND**
 - ▶ Sweat Cl <30 mmol/L + 2 *CFTR* variants, at least 1 of which has unclear phenotypic consequences
- ▶ **OR**
 - ▶ Sweat Cl 30-59 mmol/L and 1 or 0 CF-causing variants



Webinars, Presentations, and Educational Materials

**WS23: Out with the Old and In
with the New:
Clinical Guideline Update
NACFC 2024**



Colorectal Cancer Screening Clinical Care Guidelines

These clinical care guidelines from the Cystic Fibrosis Foundation provide recommendations for colorectal cancer screening for adults with CF.



- In this article**
- Purpose and Background
 - Methodology
 - Recommendations
 - Unanswered Questions
 - Further Reading
 - Use of These Guidelines

Related Content on cff.org

Webinars, Presentations, and Educational Materials

Topics where there are still unanswered questions

Link to published document

Summary

and available data from the Cystic Fibrosis Foundation Patient Registry, the mean age of onset of colorectal cancer (CRC) in patients with cystic fibrosis is 30–35 years younger than in the general population. An expert task force composed of 18 members performed a comprehensive literature review, focusing on the following topics: cancer risk, organ transplantation, and procedure and preparation pertaining to CRC screening. The committee held multiple meetings to analyze the available data and synthesize recommendations.

Hadjilovs D, Khouria A, Zuber AG, et al. **Cystic Fibrosis Colorectal Cancer Screening Consensus Recommendations.** *Gastroenterology*. 2018 Feb;154(2):735-743.e14. doi: 10.1053/j.gastro.2017.10.012. Epub 2017 Dec 27.

Purpose and Background

Based on available data from the Cystic Fibrosis Foundation Patient Registry, the median age of onset of colorectal cancer (CRC) in patients with CF is younger than in the general population.

Although colonoscopic data among CF patients in Australia and Canada have indicated a higher prevalence of adenomatous polyps, the prognostic significance of these polyps remains unclear. The extent of adenomatous polyps and the extent of adenomatous polyps may vary among CF patients.

In the general population, mortality from CRC is reduced by screening and early intervention. As most CRC arises from a well-defined adenoma-to-cancer sequence, it is possible to prevent cancer by identifying and removing precancerous polyps during screening colonoscopies.

Given the increased prevalence of adenomatous colonic polyps at a younger age— as well as the increasing evidence of CFTR mutations as a contributing genetic risk factor— CF should be considered a genetic adenomatous polyp and colon cancer syndrome. This distinction is critically important for the management of people with CF.

Interventions associated with organ transplantation (particularly following lung transplantation) are associated with increased risk for CRC development in CF. Any screening recommendations should incorporate specific guidance for people with CF who have undergone solid organ transplantation.

Watch a video of Alexander Khouria, MD, to learn more about the CRC screening recommendations.

Methodology

An expert task force composed of 18 members performed a comprehensive literature review focusing on the following topics: cancer risk, organ transplantation, and procedure and preparation pertaining to CRC screening. The committee held multiple meetings to analyze the available data and synthesize recommendations.

We used an evidence-based approach, using the GRADE approach to assess the quality of evidence. The committee used a 90% percent consensus threshold among the members.

Recommendations

Recommendation	Evaluation of the Evidence
1. The CF Foundation recommends that all decisions on colorectal cancer screening and surveillance in individuals with cystic fibrosis be based on shared decisions between the provider and individual with CF about treatment, co-morbidities, safety, and quality of life.	100% Consensus
2. The CF Foundation recommends that all colorectal cancer screening and surveillance for individuals with cystic fibrosis be jointly managed by CF health care professionals and an endoscopist.	100% Consensus

Related reading

New ACF Clinical Care Guidelines: Development Article | 3 min read

About Colorectal Cancer Guide | 11 min read

Adult Care Clinical Care Guidelines Article | 13 min read

Downloads

Be Prepared for a Successful Colonoscopy When You Have CF: What the Guidelines Mean for You | Download (PDF)

New, related, manuscripts published since the publication of the guidance

- Implementation of CRC screening is a challenge in the care of adults with CF, especially for teams that have not dealt with this problem before. Patient preparation for colonoscopy must be more rigorous in people with CF because of the higher prevalence of mucous and slower intestinal transit time. Patient education regarding the importance of mucous and the importance of adequate bowel preparation is critical to the success of colonoscopy programs, and this is especially true for people with CF. Patients and their care teams must work together to best ensure high-quality performance of colonoscopy.
- The performance characteristics of non-invasive screening tests like the fecal immunochemical test (FIT) are unclear in the CF population. If it is comparable to that in the general population, annual FIT testing may be a reasonable strategy to identify individuals most likely to benefit from colonoscopy. However, this question still needs to be addressed by systematic studies. It is possible that frequent occurrence of multiple polyps in CF patients may increase FIT sensitivity. However, predominance of right-sided neoplasms and slower intestinal transit time in CF may decrease FIT sensitivity. Similarly, specificity of FIT is unclear in CF.
- The mechanisms of CFTR involvement in colon cancer pathogenesis are unknown. Some directions for investigators include the various roles of CFTR in epithelial homeostasis, stem cell signaling, and the role of risk factors.
- It is unclear how the CFTR genotype affects the risk of colorectal cancer.
- The clinical implications of the CFTR genotype on colorectal cancer risk are unclear.

Further Reading

Relevant manuscripts published after the original guidelines are listed below. These manuscripts have not been reviewed or endorsed by the guidelines committee.

- Givi A, Zuber AG, Celin DR, et al. Cost-Effectiveness of Screening Individuals with Cystic Fibrosis For Colorectal Cancer. *Gastroenterology*. 2018 Feb;154(5):562-571.e18. doi: 10.1053/j.gastro.2017.10.036. Epub 2017 Nov 2.
- Abraham JM, Taylor CJ. Cystic Fibrosis & Disorders of the Large Intestine: Diets, constipation, and colorectal cancer. *J Cyst Fibros*. 2017 Nov;16 Suppl 2:S45-S49. doi: 10.1016/j.jcf.2017.06.013.
- Hegazi M, Aarons SD, James P, Goss R, Chatterjee A. Increased prevalence of colonic adenomas in patients with cystic fibrosis. *J Cyst Fibros*. 2017 Nov;16(9):759-762. doi: 10.1016/j.jcf.2017.07.009. Epub 2017 Jul 20.
- Frisk AK, Nørhøj EL, Marshall BC, et al. Cancer risk among lung transplant recipients with cystic fibrosis. *J Cyst Fibros*. 2017 Jan;16(1):91-97. doi: 10.1016/j.jcf.2016.07.011. Epub 2016 Aug 15.
- Premer S, Lavhija J. Comprehensive Review on Colorectal Cancer and Transplant. *Am J Transplant*. 2017 Nov;17(11):2263-2278. doi: 10.1111/ajt.14340. Epub 2017 Oct 4.

Use of These Guidelines

The CF Foundation intends for this executive summary of its guidelines to summarize the published guidelines. The published guideline summarizes evidence, and provides reasonable clinical recommendations based on that evidence, to clinicians, patients, and other stakeholders. Care decisions regarding individual patients should be made using a combination of these recommendations, the associated benefits/risks/burdens of treatment options from the clinical team, the patient's individual and unique concerns as well as the goals and preferences of the patients and families that the team serves, as a part of decision-making between the patient and clinician.

This executive summary was prepared by: James M. Abraham, MD, (University of Minnesota) and Alexander Khouria, MD, (University of Colorado)

The guidelines were published in February 2018; they were reviewed in July 2021 and it was determined that no updates in needed at this time.

GUIDE

About Colorectal Cancer

The risk for colorectal cancer in adults with cystic fibrosis is 5–10 times greater than the general population, and even higher for people with CF who receive a lung or other solid organ transplant. Find out how early screening can help reduce your risk.

11 min read



01. What Is Colorectal Cancer?

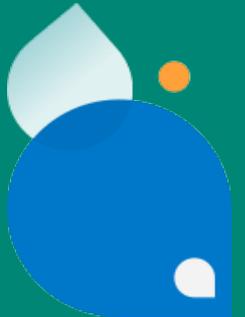
Colorectal cancer is the kind that begins in the colon or rectum. These cancers are also called colon cancer or rectal cancer, depending on where the cancer starts. Although many colorectal cancers can be prevented with regular colonoscopy screenings, it remains the third leading cause of cancer deaths in the U.S. among the general population.¹

Key Recommendations

Evaluation of the Evidence

Authors

Continuing Medical Education

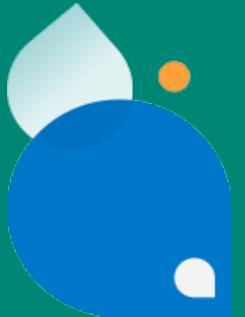


Cystic Fibrosis Online Continuing Education Program

- Course One: **Newborn Screening and Diagnosis UPDATED**
- Course Two: **Diagnosis and Management—Birth through Pre-School Years UPDATED**
- Course Four: **The Role of Sweat Testing in the Diagnosis of CF**
- Course Five: **Integrating Mental Health into CF Care**
- Course Six: **Advanced Cystic Fibrosis Lung Disease & Lung Transplant**
- Course Seven: **Endocrine Conditions and Co-Morbidities in CF**
- Course Eight: **Palliative Care in Cystic Fibrosis**
- Course Nine: **Adolescent & Young Adult Health Care NEW**
- Course 10 & 11: **Gene Therapy Trials in Cystic Fibrosis – What Clinicians Need to Know NEW**



Quality Improvement



CF Learning Network (CFLN)

- Programs are invited to join the CFLN, currently 40 CF Programs participate
- Innovation Labs (iLab)
 - Topic selection is driven by the collaboration between CFF and the CFLN leadership team and not automatic for each guideline
 - Participating programs elect to participate
 - Programs work on their own QI process to address the same question.
 - Programs track their own data to determine if the changes they are making make a difference. Aggregated data is used to track progress towards aims
 - Generation of Change Packages to help others implement
- Clinical care guidelines serve as the foundation for data collected at the network and lab level
- Implementing guidelines, or individual recommendation statements make good QI projects
- Virtual QI opportunities are open to all CF community members
 - Email cflerningnetwork@cff.org for questions



Example: Depression and Anxiety Guideline



OPEN ACCESS

ORIGINAL ARTICLE

International Committee on Mental Health in Cystic Fibrosis: Cystic Fibrosis Foundation and European Cystic Fibrosis Society consensus statements for screening and treating depression and anxiety

Alexandra L Quittner,¹ Janice Abbott,² Anna M Georgiopoulos,³ Lutz Goldbeck,⁴ Beth Smith,⁵ Sarah E Hempstead,⁶ Bruce Marshall,⁷ Kathryn A Sabadosa,⁶ Stuart Elborn,⁸ the International Committee on Mental Health

Additional material is published online only. To view, please visit the journal online. <http://dx.doi.org/10.1136/resp-2015-207480>

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Cystic Fibrosis Foundation, Bethesda, Maryland, USA
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Correspondence to: Alexandra L Quittner, Department of Psychology, University of Miami, 5665 Raven Hill Blvd., Coral Gables, FL 33146, USA; quittner@miami.edu
Received 24 June 2015
Revised 20 August 2015
Accepted 5 September 2015

ABSTRACT

Studies measuring psychological distress in individuals with cystic fibrosis (CF) have found high rates of both depression and anxiety. Psychological symptoms in both individuals with CF and parent caregivers have been associated with decreased lung function, lower body mass index, worse adherence, worse health-related quality of life, more frequent hospitalisations and increased healthcare costs. To identify and treat depression and anxiety in CF, the CF Foundation and the European CF Society invited a panel of experts, including physicians, psychologists, psychiatrists, nurses, social workers, a pharmacist, parents and an individual with CF, to develop consensus recommendations for clinical care. Over 18 months, this 22-member committee was divided into four workgroups: Screening; Psychological Interventions; Pharmacological Treatments and Implementation and Future Research, and used the Population, Intervention, Comparison, Outcome methodology to develop questions for literature search and review. Searches were conducted in PubMed, PsycINFO, ScienceDirect, Google Scholar, Psychiatry online and ABDATA by a methodologist at Dartmouth. The committee reviewed 344 articles, drafted statements and set an 80% acceptance for each recommendation statement as a consensus threshold prior to an anonymous voting process. Fifteen guideline recommendation statements for screening and treatment of depression and anxiety in individuals with CF and parent caregivers were finalised by vote. As these recommendations are implemented in CF centres internationally, the process of dissemination, implementation and resource provision should be closely monitored to assess barriers and concerns, validity and use.

Key messages

What is the key question?

► Given the high prevalence of depression and anxiety among individuals with cystic fibrosis (CF) and parent caregivers, the International Committee on Mental Health in CF (ICMH) tackled the question of how we can change clinical practice to improve mental health outcomes.

What is the bottom line?

► The ICMH is recommending that when annual screening shows elevated levels of depression and anxiety, clinical diagnostic procedures should be implemented, followed by evidence-based psychological and/or pharmacological interventions, if needed.

Why read on?

► International implementation of the guidelines, which were developed over nearly 3 years by a number of international experts, will address the needs of individuals with CF and parent caregivers, and will likely improve their health outcomes and quality of life.

failure of most organ systems (eg, lungs, pancreas) was the focus of our study.¹ Despite recent advances in diagnosis and treatment, management of CF requires a complex, time-consuming, daily regimen taking 2–4 h/days.² Thus, CF continues to be one of the most difficult chronic conditions to manage.

Cystic Fibrosis Foundation Patient Registry: Mental Health Screening:

Program Level Data Report

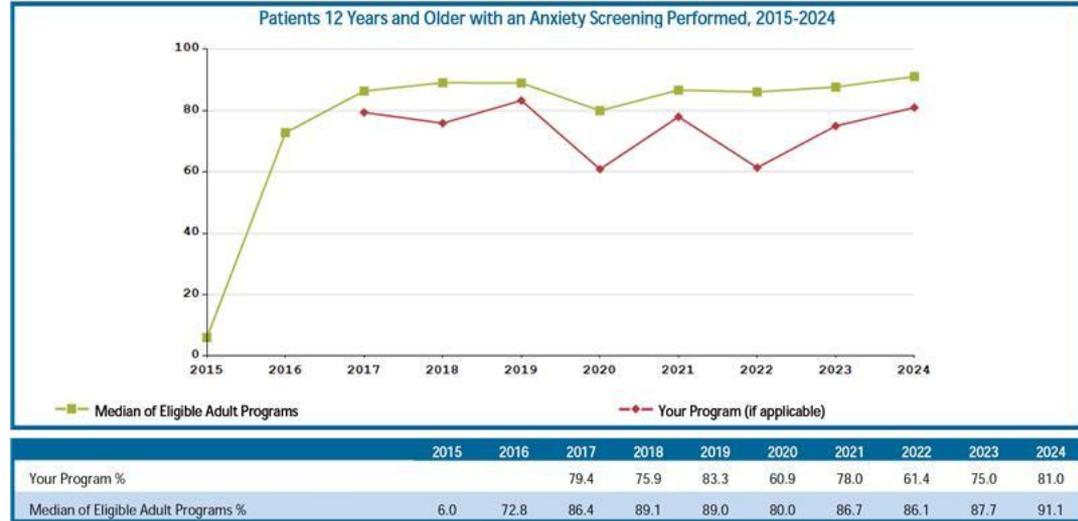
Mental Health

Was the patient screened for symptoms of classic depression using Patient Health Questionnaire (PHQ-9) or other valid depression screening tools?

- Yes No Unknown

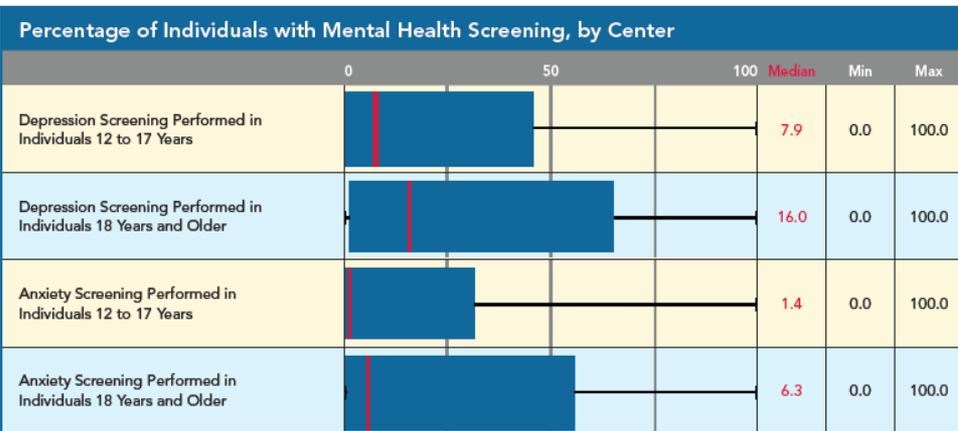
Was the patient screened for the anxiety disorder using Generalized Anxiety Disorder Tool (GAD-7 or similar)?

- Yes No Unknown



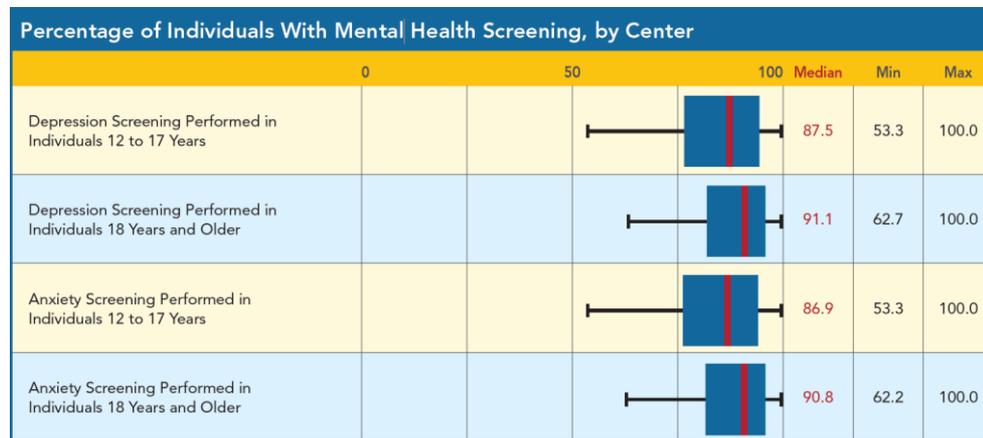
2015

Cystic Fibrosis Foundation Patient Registry: Mental Health Screening



Cystic Fibrosis Foundation Patient Registry
2015 Annual Data Report
Bethesda, Maryland
©2016 Cystic Fibrosis Foundation

2024



Cystic Fibrosis Foundation Patient Registry
2024 Annual Data Report
Bethesda, Maryland
©2025 Cystic Fibrosis Foundation

Education and Training

Educational Materials

- Mental Health Advisory Committee: Education Workgroup
- Educational Content on CFF.org



- Mental Health Toolkit (dropbox)



Peer Support and Training

- Mental Health Advisory Committee: Peer Consultation
- Psychosocial Listserv
- Short Courses and Special Classes at NACFC
- CF Foundation Mentoring Program

To request access to the my.cff.org resource library please email mentalhealth@cff.org.

Cystic Fibrosis Online Education Program (CME)

Course Five: Integrating Mental Health into Cystic Fibrosis Care

Course Availability: 9/1/21–9/1/26

Audience: Members of adult and pediatric cystic fibrosis care team: cystic fibrosis clinical care coordinators, dietitians, fellows, genetic counselors, newborn screen coordinators, nurses, nurse practitioners, pharmacists, pharmacy technicians, physical therapists, physicians, physician assistants, psychologists, respiratory therapists, social workers.

CE Credits Provided: AMA PRA Category 1 Credits and ABP MOC 2 credit for Physicians. CE for Nursing (ANCC), Pharmacy (ACPE), and Social Work (IPLA). All other professions will be awarded non-physician attendance hours. Per their website, the American Psychological Association (APA) will accept credits awarded for this activity as the American Medical Association (AMA) is an approved organization of continuing education.

Course Duration: 4.0 credit hours

[Enroll in course →](#)



MODULE ONE
Depression and Anxiety in
Adolescents and Adults with
CF



MODULE TWO
Emotional Wellness in
Children with CF under Age
12



MODULE THREE
Procedural Anxiety and
Distress



MODULE FOUR
Substance Misuse



MODULE FIVE
Caregiver and Family
Resilience



Now What? Quality Improvement

Cystic Fibrosis Learning Network (CFLN) Innovation Lab: Mental Health

Phase 1

Improve screening and re-screening rates



Phase 2

Improve response to those with elevated scores



Publication of Results



Develop Change Package



Develop Change Package

Screening for Anxiety and Depression: Best Practices



- Identify and train primary and back-up team members responsible for screening
 - For training support email mentalhealth@cff.org
- Invite all team members to support and prioritize screening
 - Course Five: Integrating Mental Health into Cystic Fibrosis Care
 - Discuss screening during pre-clinic patient review
- Review screens and scoring materials
 - List of GAD-7 resources
 - List of PHQ-9 resources
 - Best Practice Screening Guide
- Develop a process to assess and respond to suicide risk
 - List of safety and suicide resources
 - Individual patient safety planning template
- Review annual screening/re-screening clinical guidelines
 - Depression, Anxiety, and CF Guide for Clinicians
 - Cystic Fibrosis Foundation and European Cystic Fibrosis Society consensus statements for screening and treating depression and anxiety
- Implement a tracking system
 - Basic screening tracker
 - CFL Mental Health Screening Tracking Log
 - Mental Health Tracking Log Webinar
 - Use: Tips CF Foundation Updated Mental Health Screening Tracking Log
- Inform care team which patients are due for screening
 - Review in pre-clinic meetings
 - Provide a list of patients
- Build support with patients
 - Have a team member known to the patient initiate the topic
 - Provide interpreter services as needed
 - Practice relationship-centered care
 - Telehealth: Communication Tips for a Cystic Fibrosis Virtual Clinic Visit
- Provide patients with resources
 - Depression, Anxiety and CF: What the guidelines mean to you (new)
 - Depression, Anxiety and CF: What the guidelines mean to you (new)
- Encourage patient to participate in screening
 - Introduction to screening, sample letter for parents and patients
 - Letter for adult patients
 - Letter pediatric patients

Request access to my.cff.org resource library: mentalhealth@cff.org

Mental Health Research



PRIME

Prioritizing Research In Mental Health



Mental Health Advisory Committee
NACFC 2024



What about the Care Model?

Care Delivery
Care Teams



Step 2: Accreditation

Accreditation
Standards

Center Committee is made up of CF Program
Directors

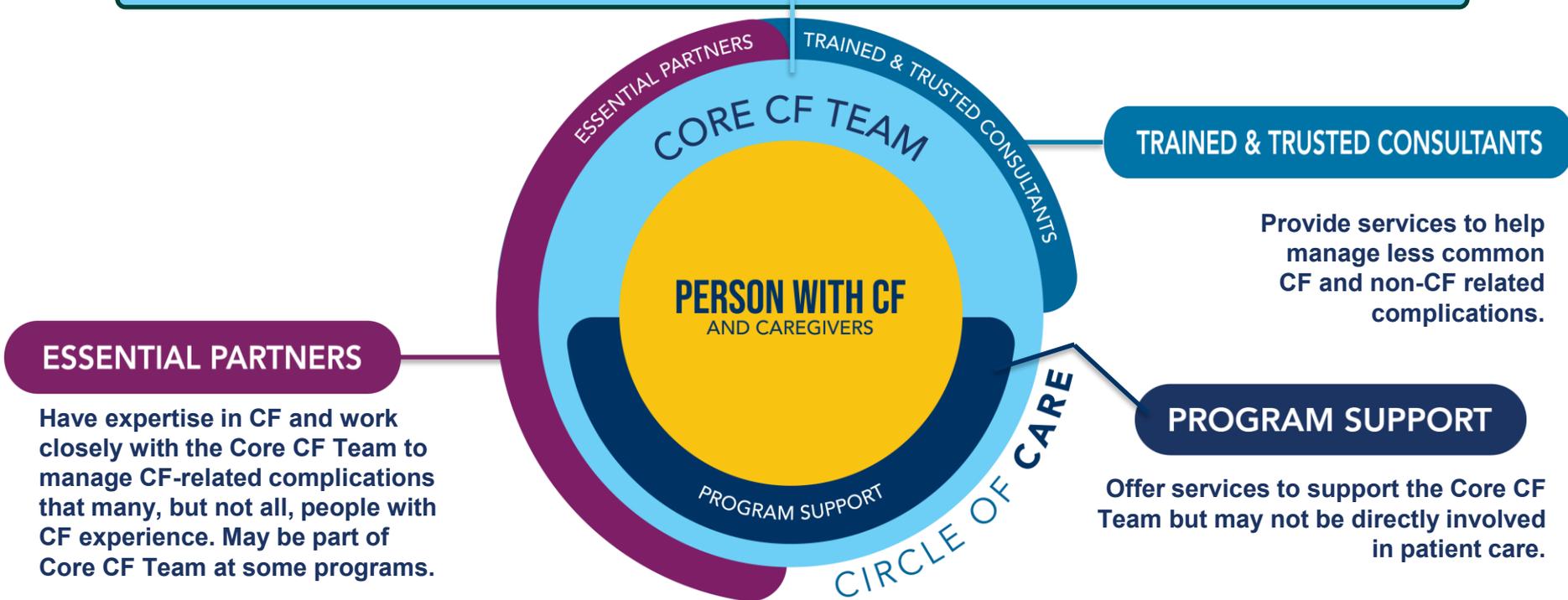
Standards are minimum requirements for programs
to be accredited as part of the Care Center Network

Position
Papers

Guidance on suggested best practices based on the
state of the published literature at the time of
publication

Step 3: Workforce Development and QI

Provides services required for routine clinical care that supports the health and well-being of all people with CF.



ESSENTIAL PARTNERS

Have expertise in CF and work closely with the Core CF Team to manage CF-related complications that many, but not all, people with CF experience. May be part of Core CF Team at some programs.

TRAINED & TRUSTED CONSULTANTS

Provide services to help manage less common CF and non-CF related complications.

PROGRAM SUPPORT

Offer services to support the Core CF Team but may not be directly involved in patient care.

Step 3: Workforce Development and QI

Tools for Remote Care

Topic	Tools for Remote Care Study Title	Lead Investigators/Teams	Peds/Adult
Home Spirometry	ICUPS: Increasing the use of home spirometry and integrating it into clinic workflow	Clement Ren – CHOP Daniel Weiner – University of Pittsburgh Don Sanders – Indiana University	Peds
Home Spirometry	ISPY: Assessing accuracy of home spirometry and feasibility and acceptability for patients and clinics	Thida Ong – Seattle Children's Andrea Hartzler – UW Jaclyn Davis – Boston Children's Cori Daines – University of Arizona Rebekah Brown – Vanderbilt	Peds
Acute Sick Visits	EUROPA: Utilizing telehealth visits and remote testing to expedite and optimize clinical assessment for sick patients	Noah Lechtzin – JHU Randy Hunt – Emory Caralee Forseen, Kathleen McKie – Augusta Gina Hong – UPenn	Both
Home Cultures	S2wAB-IT: Assessing accuracy and reliability of self-obtained respiratory cultures, and implementation of home cultures as part of clinical care	Chris Siracusa – Cincinnati Children's Jordana Hoppe – Children's Colorado Elliott Dasenbrook – Cleveland Clinic Marianne Muhlebach – UNC Chapel Hill M. Veronica Indihar – U of Cincinnati Kathryn Moffett – WVU	Both
Remote Testing	CF@HOME: Utilizing an app to coordinate and encourage self-monitoring of health and performance of complication screening tests	Scott Donaldson – UNC Chapel Hill Jonathan Zuckerman – Maine Medical Center Alex Gifford – UHH Cleveland Adupa Rao – USC	Adult
Social Determinants of Health Screening	ELICIT: Improving Access to Care Through Remote Social Determinants of Health Screening and Intervention	Bryan Garcia – UAB Didi Jennings – UVA Greg Sawicki – Boston Children's Mike Powers – OSHU Dana Albon – UVA	Both
Frequency of Visits	CF CARE MODEL: The Cystic Fibrosis Collaborative Adjustments to Routine Clinical Examinations via Modification of Duration to the next Encounter	David Finkles – UT Southwestern Randy Hunt – Emory Christian Merlo – Johns Hopkins	Adult

Step 4: Education and Training

A Work in Progress



INDIVIDUALIZED CARE

Discussion aid for relationship-centered communication

People living with cystic fibrosis and their family caregivers must balance changing health needs with life goals and circumstances. For care teams, this means developing individualized treatment plans with their patients and families that can adapt to shifting needs. Key to this partnership are conversations that inform when a patient should be seen by their care teams either in person or via telehealth and what medications to start, stop, and how.

To help you start these discussions with your patients and their family caregivers, the following sample conversations apply relationship-centered best practices.



[Partnership Enhancement Program \(PEP\) Principles](#)

This section outlines the PEP principles that support the following relationship-centered conversations.



[Self-Reduction in Medications and Treatments and Desire to Change Visit Frequency](#)

This section depicts a conversation between care providers discussing an upcoming visit with a person with CF interested in reducing daily therapies. They discuss and create a plan with the person with CF.



[Understanding Health Domains and Desire to Change Visit Frequency](#)

This section depicts a conversation between a care provider and person with CF to understand their desire to change their visit schedule and share information about health domains.



[Resources](#)

This section lists resources to learn more about ways to support individualized care, including published guidance on how and when routine CF care should be provided.



When Should You Come To Clinic?

Things to Think About When Scheduling Your Next Visit

Quarterly visits to a CF Foundation-accredited care center are the foundation of your treatment plan. By partnering with your care team, you can discuss when your next routine in-person clinic visit should be scheduled.

If you are feeling well with stable health, you may be able to wait 4–6 months before your next clinic visit instead of every three months. This may be true especially if you stay in touch with your CF care team using telehealth, phone calls, or online check-ins. But if your health is changing, being examined in CF clinic sooner may help you get your health back on track. In discussing when to schedule your next clinic visit, consider the following.

How to Know if Your Health is Changing

LUNGS

Are you having...

- More coughing, chest tightness, or other breathing issues?
- A drop in lung function?
- A recent lung infection or flare-up (exacerbation)?
- Changes in your treatments like starting or stopping modulators or other medications?
- Trouble with physical activity or ability to exercise?

DIGESTIVE SYSTEM (GASTROINTESTINAL OR GI)

Are you noticing...

- Sudden changes in digestion (e.g., constipation, diarrhea) or other stomach issues?
- Changes to GI medications like enzymes or acid blockers?
- Abnormal liver test results?

ENDOCRINE SYSTEM (GLANDS THAT RELEASE HORMONES)

Are you...

- Recently diagnosed with CF-related diabetes (CFRD)?
- Having trouble controlling your CFRD?

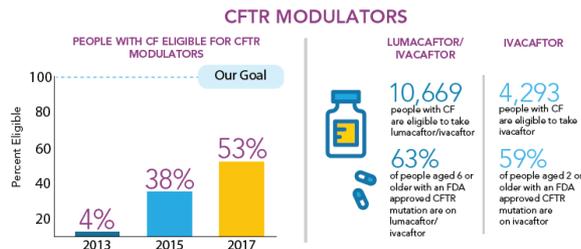
NUTRITION

Are you...

- Losing or gaining 5% of your total body weight?
- Becoming underweight or overweight?
- Changing your diet or eating habits, including vitamins and supplements?
- Worried about your weight?

Implementation Opportunities and Challenges: Changing Healthcare Landscape

2017



22,535 Hospitalizations

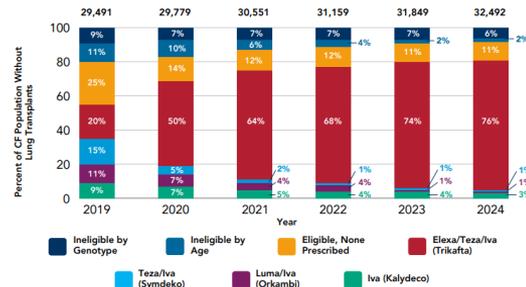
Median FEV₁ Percent Predicted



Median Predicted Survival

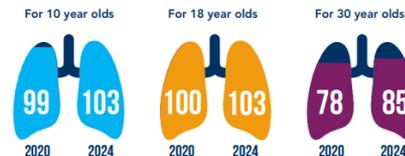
44 YEARS
2013-2017

2024



10,407 Hospitalizations

MEDIAN FEV₁ PERCENT PREDICTED



Median Predicted Survival

65 YEARS
2020-2024

Thank You.

Contact: shempstead@cff.org

Resources



Access my.cff.org

Email: mentalhealth@cff.org



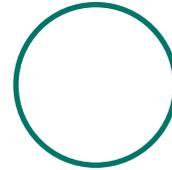
Guideline or Guidance Document Questions:

Email: shempstead@cff.org



Quality Improvement

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CF Foundation Patient Registry

Email: Reghelp@cff.org



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