

## Outline

- Cystic Fibrosis Overview
- Mental Health and Cystic Fibrosis
- ° Cystic Fibrosis Foundation Mental Health Treatment and Screening Guideline
- Mental Health Needs Assessment
- Data Results and Findings
- Provider Information Packet
- Referral List of therapists/psychologists
- Considerations

# Cystic Fibrosis (CF) Overview

- o Autosomal recessive disease affecting chloride channels in epithelial tissue of the body
- o Results in production of thick mucous which can have systemic implications related to
  - Respiration
  - o Digestion and nutrition status
  - Reproduction
- Life expectancy traditionally has been 2-3 decades, but...

# Anxiety and CF

 Studies have shown that people with CF, as well as caregivers, are more likely to experience anxiety than people in the general population

- Symptoms of anxiety include:
  - Excessive worry
  - o Difficulty controlling the worry
  - Restlessness
  - Irritability
  - Muscle tension
  - Difficulty concentrating
  - Sleep disturbance
  - Fatigue

From: American Psychiatric Association. (2013). *Diagnostic and statistical manual of mental health disorders*. DSM-5. (5<sup>th</sup> ed.). Washington, D.C.: American Psychiatric Association

# Depression and CF

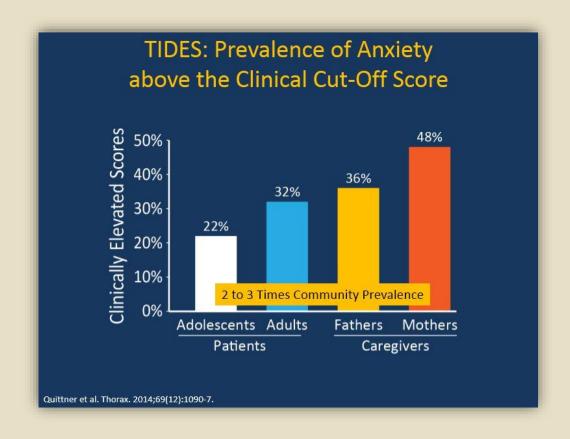
 Researchers found that people with CF and caregivers are more likely to experience depression than people in the general population

- Symptoms include:
  - Depressed mood most of the day, nearly every day
  - Diminished interest in pleasurable activities
  - Significant weight loss or weight gain
  - Insomnia or hypersomnia
  - o Fatigue or loss of energy
  - Feelings of worthlessness or excessive inappropriate guilt
  - Diminished ability to think/concentrate or indecisiveness
  - Recurrent thoughts of death, recurrent suicidal ideation without specific plan, or suicide attempt or specific plan for committing suicide

From: American Psychiatric Association. (2013). *Diagnostic and statistical manual of mental health disorders*. DSM-5. (5<sup>th</sup> ed.). Washington, D.C.: American Psychiatric Association

## Mental Health and CF

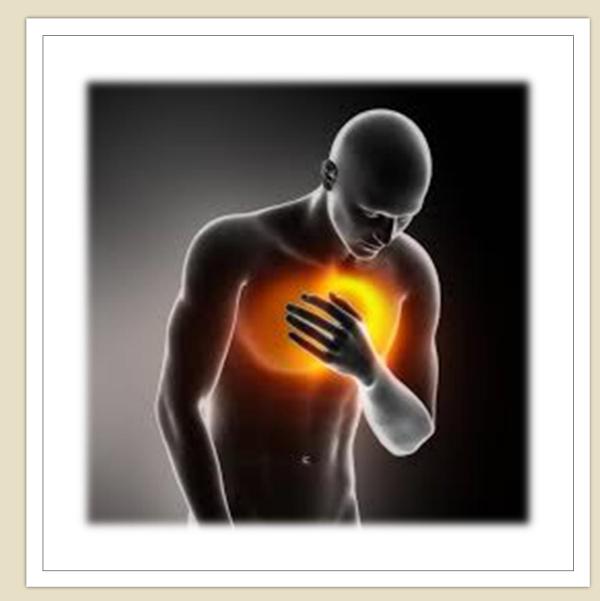
- A recent study in nine countries screened 6088 patients with CF ages 12 years through adulthood and 4102 parents
- Elevated symptoms of depression were found in 130 adolescents (10%), 913 adults (19%), 1165 mothers (37%), and 305 fathers(31%)
- Anxiety was reported by 281 adolescents (22%),
  1503 adults (32%), 1496 mothers (48%), and 343 fathers (36%)



## Mental Health and CF

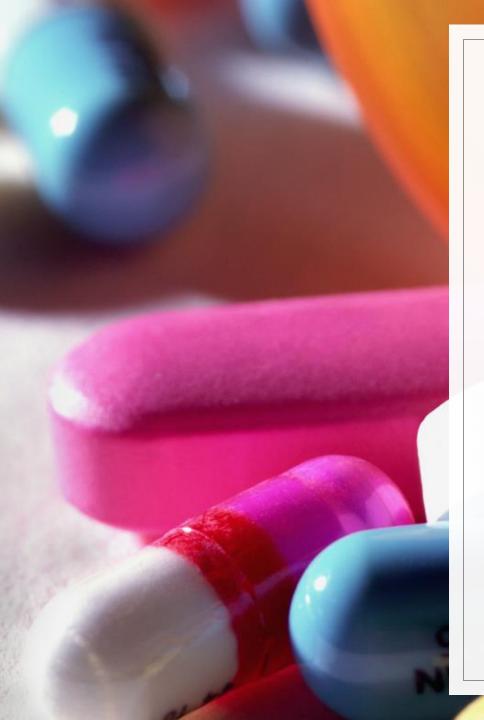
- o Psychological symptoms in both patients and parents have been associated with
  - Decreased lung function
  - Lower body mass index
  - Worse treatment adherence
  - Worse health-related quality of life
  - More frequent hospitalizations
  - Increased healthcare costs

From: Quitter AL, Abott J, Georiopoulos AM, et al., *Thorax* 2016;71:26-34.



## Pain and CF

- Havermans, Colpaert, Boeck, Dupont, & Abbott,
   (2013) found
  - High incidence of pain is reported in CF
  - Chest and abdominal pains were most commonly reported
  - Pain was negatively associated with pulmonary exacerbations, quality of life and treatment adherence
  - Pain reduces the quality of life of chronically ill patients and may negatively impact the ability to participate in disease-related daily care



## Substance Abuse and CF

- The National Survey on Drug Use and Health (NSDUH) in 2013 identified an estimated **21.6 million persons** in the U.S. aged 12 or older were classified with a substance dependence or abuse in the past year.
- Overall, 17.3 million had alcohol dependence or abuse, and 6.9 million had illicit drug dependence or abuse.
- Little is known about the long-term effects of substance addiction in people living with CF.
  - Believed to have a negative impact on health, well-being and longevity of any individual who struggles with a substance use disorder

From: Cystic Fibrosis Foundation. (2015). Pediatric Pulmonology. Phoenix, AZ: Wiley.

# Eating Disturbance and CF

### Bryon, M., Shearer, J., & Davies, H. (2008)

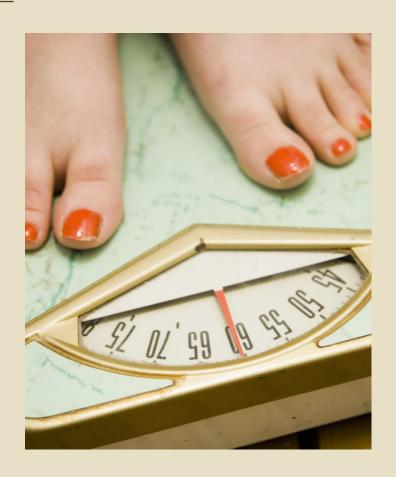
- Youth with a BMI 17.5, 5% avoided weight gain
- 53% demonstrated disturbed eating attitudes and 16% disturbed eating behaviors

### • Truby and Paxton (2001)

- In girls with CF, at or below 50th BMI percentile, 54% wanted to stay the same or be thinner
- o In girls with CF, body dissatisfaction was a significant predictor for BMI
- In boys with CF, body dissatisfaction and body esteem were significant predictors of BMI

### • Willis, Miller, and Wyn's (2001)

- Girls are generally happy with their slender body shape and do not wish to gain any weight or wished to lose weight
- Boys reported wanting to gain weight and become more muscular and strong



# CF Foundation Policy

- Mental Health Treatment and Screening Guideline
  - The Cystic Fibrosis Foundation and the European Cystic Fibrosis Society worked with CF mental health experts to integrate screening and treating depression and anxiety into CF care.

### Recommendations include:

- All patients 12 years and older should receive annual screening for depression and anxiety.
- Parent caregivers of patients aged 0-17 years should be offered annual screening for depression and anxiety.
- A stepped process for prevention, screening, assessment and intervention. This can include talk therapy, medication or a combination of the two.

## Needs Assessment Survey

- o Needs assessment was created to assess CF patient and caregiver mental health needs
- CF Clinic social worker and social work intern identified mental health concerns of
  - Depression
  - Anxiety
  - Substance abuse
  - o Pain
  - Body image issues
- o Distributed to patient/caregiver in CF clinic and via telephone
- 38 patients total completed the survey

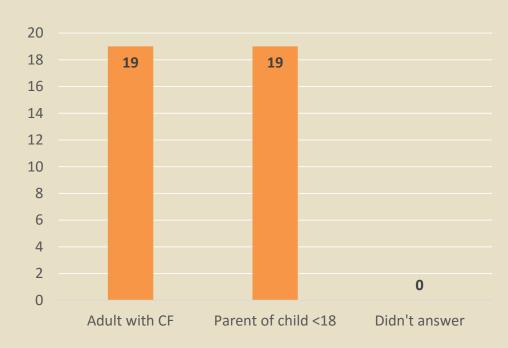


My name is Charisse Radnothy, and I am a social work trainee with the University of Arizona Pediatric Pulmonary Center. Finding a private or community mental health provider can often be a difficult process, especially finding a provider familiar with cystic fibrosis (CF). My goal is to educate mental health providers on CF, and create a referral list of therapists and psychologists familiar with CF. This referral list would be categorized by major insurance companies in the region. To start this process, I would like to take a few moments of your time to ask you to complete these survey questions. Thank you.

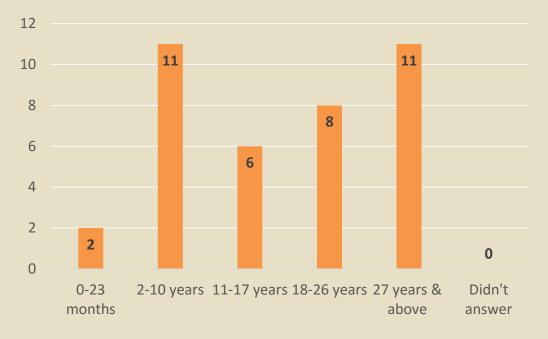
| niliar with CF. This referral list would be categorized by major insurance companies in the ion. To start this process, I would like to take a few moments of your time to ask you to inplete these survey questions. Thank you. |
|--|
| 1. Are you an adult with CF, or a parent of a child with CF?   |
| a. Adult with CF     b. Parent of a child with CF under the age of 18  |
| 2. What age(s) is/are the person(s) diagnosed with CF?   |
| a. 0-23 months b. 2-10 years c. 11-17 years d. 18-26 years e. 27 years and above   |
| 3. What is the primary insurance of the person(s) with CF?   |
| a. Blue Cross Blue Shield (BCBS) b. United c. Medicare d. Medicaid (AHCCCS) e. Other   |
| 4. Does the person(s) with CF have a secondary insurance?  |
| a. Yes<br>b. No  |
| If yes, please list  |
| <ol> <li>Has the person previously received mental health services? (ie. met with a psychologist or<br/>therapist)</li> </ol>  |
| a. Yes<br>b. No  |

| 6. Is the person(s) currently using private or community mental health services?  |
|---|
| a. Yes<br>b. No   |
| 7. Would you find it helpful to have a list of private therapists/psychologists in the Tucson area?   |
| a. Very helpful<br>b. Somewhat helpful<br>c. Not at all helpful   |
| 8. Would you find it helpful to have a list of community mental health providers in the Tucson area?  |
| a. Very helpful<br>b. Somewhat helpful<br>c. Not at all helpful   |
| 9. Would you find it helpful if the providers had an awareness of the CF diagnosis and its<br>correlation with mental health?   |
| a. Very helpful<br>b. Somewhat helpful<br>c. Not at all helpful   |
| 10. Would you find it helpful to have information about therapists/psychologists who provide counseling services for one of the following? (please circle all that apply) |
| a. Anxiety<br>b. Depression   |
| c. Pain Management<br>d. Body Image Issues  |
| e. Substance Abuse  |
| f. Other  |
| If you would like to be contacted to provide further information, please list your contact  |
| information below   |
| Name:   |
| Contact number/email:   |
| Thank you for your participation!   |

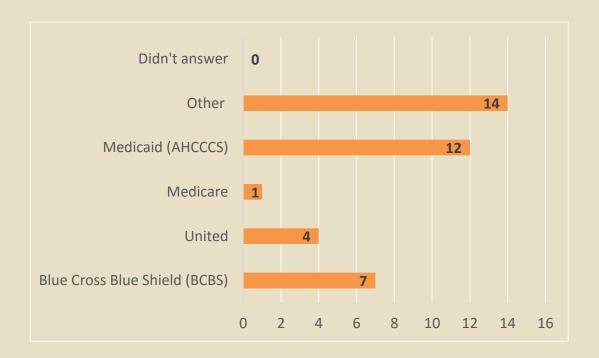
• **Question 1:** Are you an adult or parent?



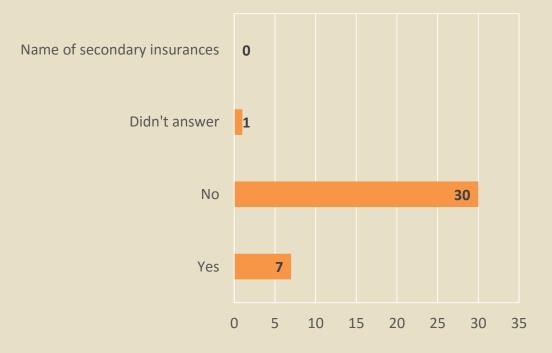
Question 2: What age(s) is/are the person(s) diagnosed with CF?



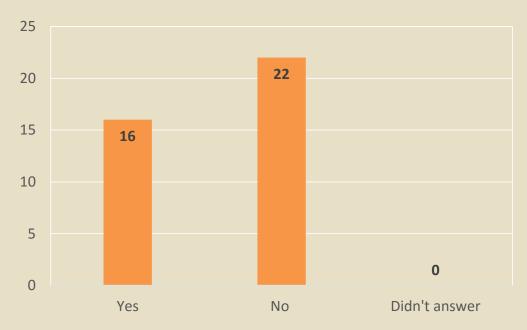
 Question 3: What is the primary insurance of the person(s) diagnosed with CF?



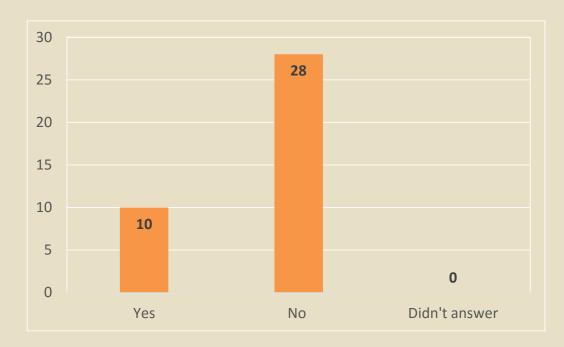
 Question 4: Does the person(s) with CF have a secondary insurance?



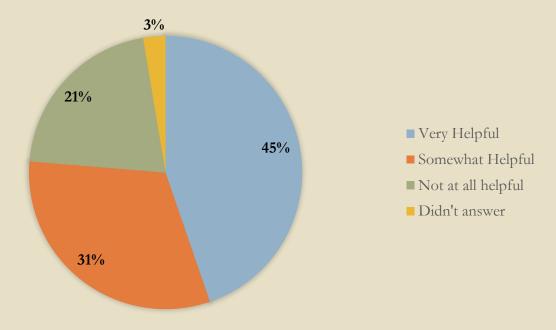
 Question 5: Has the person previously received mental health services? (i.e., Met with a psychologist or therapist)



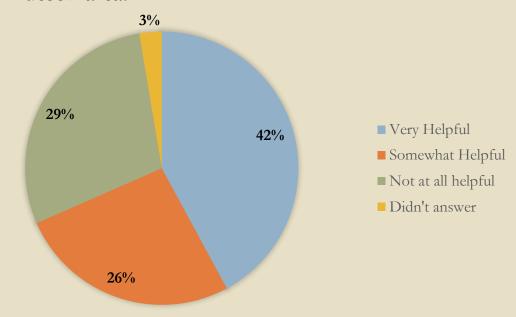
 Question 6: Is the person(s) currently using private or community mental health services?



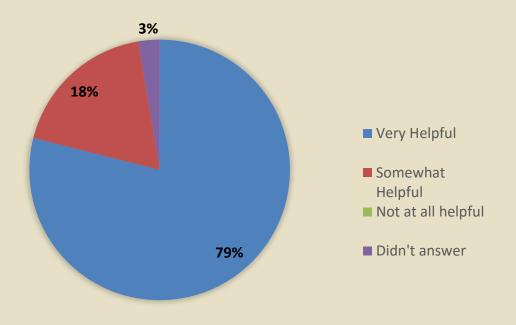
 Question 7: Would you find it helpful to have a list of private therapists/psychologists in the Tucson area?



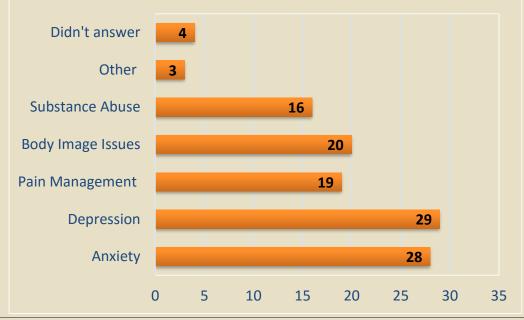
• Question 8: Would you find it helpful to have a list of community mental health providers in the Tucson area?



• Question 9: Would you find it helpful if the providers had an awareness of the CF diagnosis and its correlation with mental health?



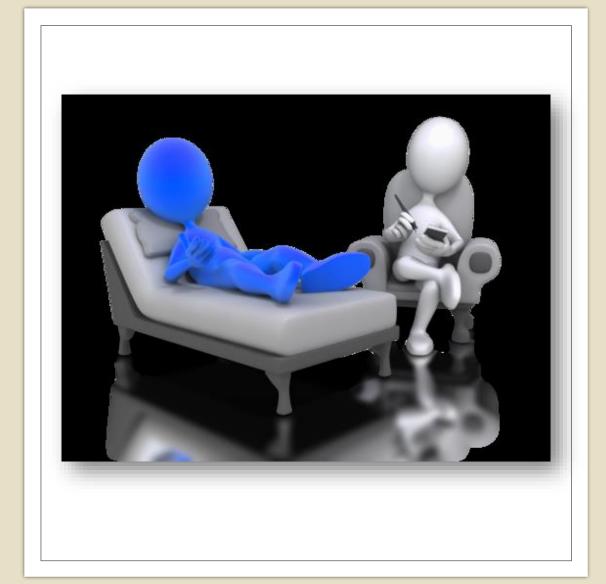
• Question 10: Would you find it helpful to have information about therapists/psychologists who provide counseling services for one of the following? (circle all that apply)



## Provider Information Packet

- Information packet provided to potential mental health providers
- Includes:
  - Letter to the Provider
  - Overview of CF
  - Symptoms of CF
  - Diagnosis & Genetics
  - What to Expect
  - Anxiety & CF
  - Depression & CF
  - Video link with Tucson CF Center Director,
     Dr. Cori Daines & a patient

- Journal Abstracts & Key Points
  - Anxiety/Depression & CF
  - Pain & CF
  - Substance Abuse & CF
  - Eating Disturbance & CF



## Referral List

- Categorized by
  - Private insurance providers
  - Community providers (Medicaid)
  - Sliding fee scale
- Includes:
  - Specialty/treatment modalities
  - o Population
  - Insurance
  - Contact information

#### Mental Health Providers for CF Patients

| Provider/Phone  | Address                                    | Client Population  | Spe cialties  | Insurance  | Email/Website                      |
|---|--|--|---|--|------------------------------------|
| Provider/Phone  | Address                                    | Client Population  | COMMUNITY PROVIDERS<br>Specialties  | Insurance  | Email/Website                      |
| The University of<br>Arizona Department<br>of Psychology<br>Behavioral Health<br>Clinic<br>520-621-9683 | Psychology Building,                       | Children,<br>Adolescents, Adults,<br>and Families                  | Behavioral Medicine, Cognitive<br>Behavioral Therapy & Acceptance<br>Commitment Therapy | Sliding fee scale. \$20 for an individual session and \$25 for a couple session. Reduce fees are possible under special circumstances. |                                    |
| Casa De Los Ninos,<br>Behavioral Health<br>Services<br>520-881-1292                                     | 140 N. Tucson Blvd.<br>Tucson, AZ 85716    | Children,<br>Adolescents, &<br>Young Adults under<br>the age of 22 | Behavioral Health Services and<br>Trauma Informed Care                                  | AHCCCS   | www.cas adeloso inos.o ag          |
| CODAC Behavioral<br>Health Services,<br>Inc.<br>520-318-9222  | 630 N Alvernon Way,<br>Tucson, AZ 85711    | Children,<br>Adolescents &<br>Adults                               | Behavioral Health Services,<br>Substance Abuse, and Trauma                              | AHCCCS, Medicare,<br>TRICARE, and private health<br>insurance plans.   | www.codac.org                      |
| 520-202-1840  | 3130 E. Broadway Blvd,<br>Tucson, AZ 85716 |  |   |  |                                    |
| COPE Community<br>Services, Inc.<br>520-881-7217  | 1918 N Tucson Blvd,<br>Tucson, AZ 85716    | Adults   | Behavioral Health Services and<br>Substance Abuse                                       | AHCCCS, Medicare,<br>TRICARE, and private health<br>insurance plans  | www.cope.community<br>services.org |
| 520-888-6332  | 3332 N Los Altos Ave,<br>Tucson, AZ 85705  |  |   |  |                                    |
| Hope Inc.<br>520-770-1197   | 1200 N. Country Club,<br>Tucson, AZ 85716  | Adults   | Behavioral Health Services and<br>Substance Abuse                                       | AHCCCS   | www.hopetucson.org                 |
| 928-783-3616  | 201 S. 1st Ave, Yuma AZ<br>85364           |  |   |  |                                    |

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## Considerations

- Sample Size
- Mental Health Stigma
- Barriers to Overcome Mental Health Stigma

### Depression and anxiety don't discriminate. Do you?





## References

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Thank you

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CF Clinic Interprofessional Healthcare Team

PPC Traineeship Program Team