



Orofacial function of persons having Cystic fibrosis

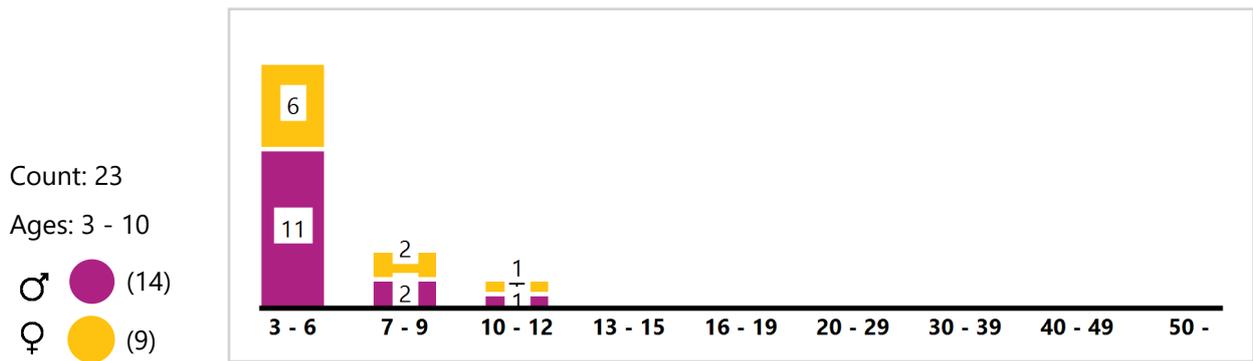
Report from observation charts



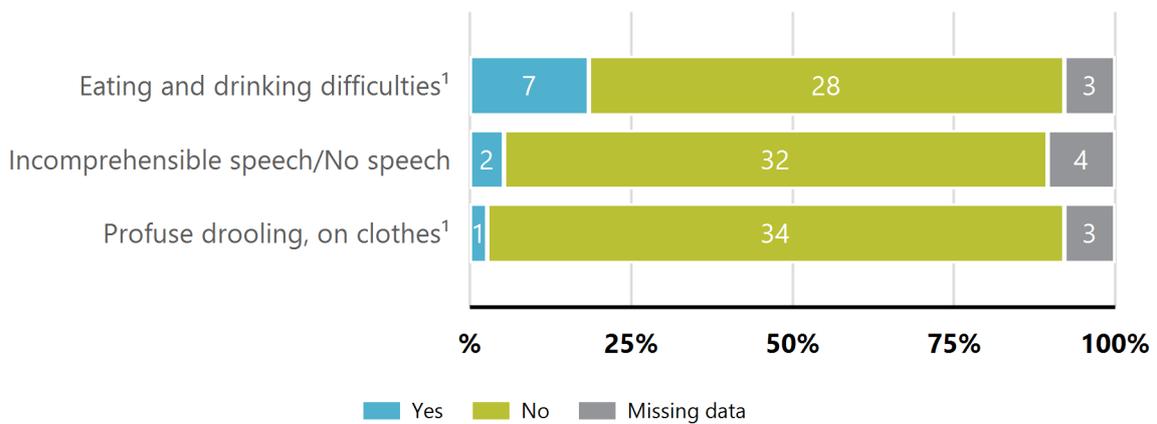
23 observation charts

Synonym	CF, Pancreatic cystic fibrosis. Mucoviscidosis
ICD-10	E84
Estimated occurrence	60:1,000,000 inhabitants.
General symptoms	There is a wide variation in severity and symptoms in people with cystic fibrosis (CF). CF progressively deteriorates over the years, but the consequences of the disease can be delayed. The mucus producing glands in the body do not function normally, resulting in viscous mucus that is difficult to remove. The lungs and gastrointestinal tract are especially affected. This causes coughing, breathing difficulties, proneness to infections in the lungs, as well as difficulties to digest food. The most common sign in young children is that they do not gain weight. The disease is usually discovered during the first year of life. Another sign of CF is exceptionally salty sweat.
Oral symptoms	Persons with the diagnosis may have difficulties in breathing through the nose and mouth breathing increases the risk of dry mouth. Some people may suffer from gastroesophageal reflux (acid reflux) which in time may increase the risk of enamel damage. Prolonged treatment with antibiotics likely explains why children with cystic fibrosis have fewer cavities than might be expected. Prolonged antibiotic treatment is commonly associated with fungal infection of the mouth.
Oral treatment	<ul style="list-style-type: none"> • Many of these children and adults require extra prophylactic dental care. • In case of fungal infection in the mouth, there are effective prescription drugs available.
Sources	The MHC database Rare diseases Dokumentation-Ågrenska

Age distribution



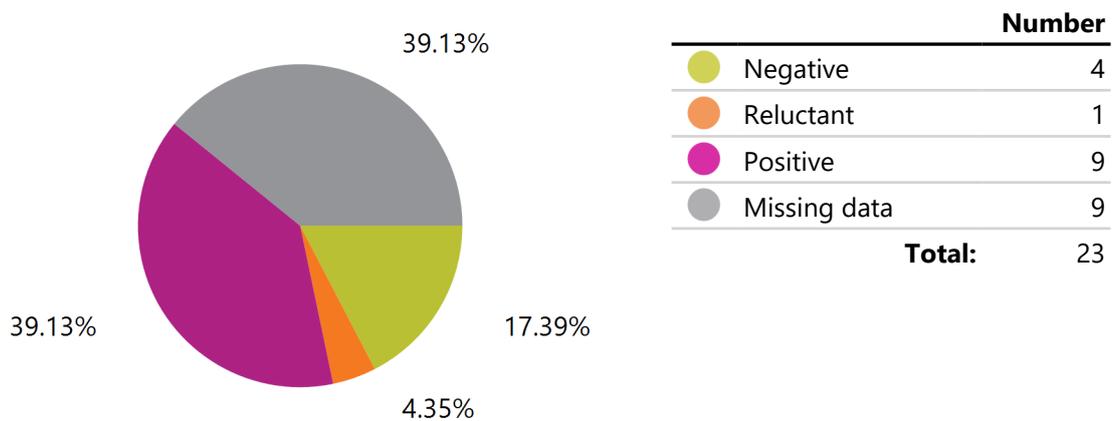
Summary



Certain caution should be observed when interpreting the chart because the number of individuals is less than 100.

¹ Reported via questionnaire

Acceptance of dental examination



Oral health

Caries

		3-6 years	7-12 years
deft	Examined	17	6
Number of carious or filled deciduous teeth	Number of individuals with deft=0	17	6
	Mean	0.0	0.0
	Standard deviation	0.0	0.0
	No data	4	2
DMFT	Examined		6
Number of carious or filled permanent teeth	Number of individuals with DMFT=0		6
	Mean		0.0
	Standard deviation		0.0
	No data		3

Oral health index (indices)¹

	0	1	2	3	4	5	6	Missing data	Number
Calculus	12	0	0	0	0	0	0	11	17
Gingivitis	10	1	0	2	0	0	0	10	17
Plaque	6	1	0	2	0	0	0	14	17
Tooth wear	10	3	0	0	0	0	0	10	17

CALCULUS

Calculus index is based on the presence of visible calculus on the buccal surface of 6 index teeth. 0 indicates that there is no calculus at all, 6 indicates calculus on all index teeth.

GINGIVITIS

Gingivitis index is based on the presence of visible gingivitis on the buccal surface of 6 index teeth. 0 indicates that there is no bleeding, 6 indicates bleeding on all index teeth.

PLAQUE

Plaque index is based on the presence of visible plaque on the buccal surface of 6 index teeth. 0 indicates that there is no plaque, 6 indicates plaque on all index teeth.

TOOTH WEAR

Tooth wear index is a weighted summary of the degree of tooth wear on 6 different segments. Tooth wear is only evaluated in the permanent dentition, not in the primary teeth. The final index score is based on the degree of tooth wear found in most segments.

0: No tooth wear or minor wear of enamel in either of the segments.

1: Marked tooth wear of the enamel, possibly exceeding into dentin.

2: tooth wear in the dentine reaching up to 1/3 of the tooth crown.

3: Tooth wear in the dentine reaching up to more than 1/3 of the tooth crown. If 3 is given in any segment then SI is 3.

¹ This variable was introduced in version 2 (2008) of the Observation chart.

Occlusal relationship

	Number
Neutral bite	27
Overbite	4
Underbite	2
Missing data	-10
Total:	23

Maximum jaw opening

Children younger than 10 years

Children, 10 years or older, and adults

	Number
-20	0
21-30	0
31-40	9
41-50	7
51-	1
Missing data	4
Total:	21

	Number
-20	0
21-30	0
31-40	1
41-50	1
51-	0
Missing data	0
Total:	2

Profile¹

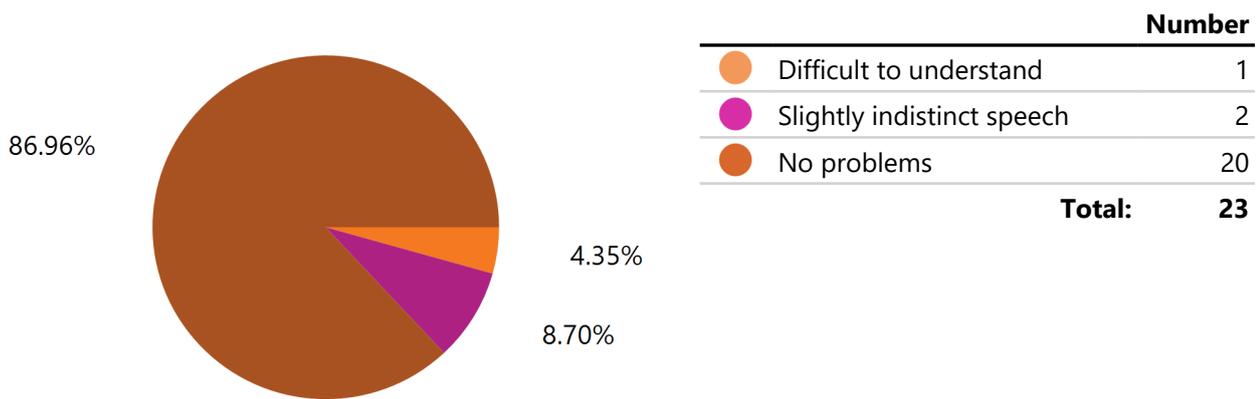
	Number
Normal	13
Convex	2
Concave	0
Missing data	2
Total:	17

Mandibular plane¹

	Number
Normal	10
Increased	1
Reduced	0
Missing data	6
Total:	17

¹ This variable was introduced in version 2 (2008) of the Observation chart.

Speech problems



Clinical findings

Number of yes-answers

	Total = 23 (%)	♂ = 14 (%)	♀ = 9 (%)	Missing Data
Frontal open bite	4 (17)	4 (29)	0 (0)	0
Spacing	3 (13)	1 (7)	2 (22)	0
Deep bite with gingival contact	3 (13)	2 (14)	1 (11)	1
Open mouth at rest	1 (4)	1 (7)	0 (0)	0
Low muscle tone in tongue	1 (4)	1 (7)	0 (0)	0
Reduced opening capacity	1 (4)	0 (0)	1 (11)	4