

At-A-Glance report 2021

Cystic Fibrosis in Europe – Facts and Figures 2021

The European Cystic Fibrosis Society Patient Registry (European CF Registry) is happy to present this report with key information about how cystic fibrosis (CF) affects people with CF and their families throughout Europe.

The European CF Registry collects, measures and compares data of people with CF living in Europe and neighbouring countries who agree to be in the Registry. The information is important to better understand CF, encourage new European standards of care and treatment, conduct research, and inform public health planning.

If you want to know more about the European CF Registry visit our website.

For more in-depth information see the full report <u>here</u>.

June 2023





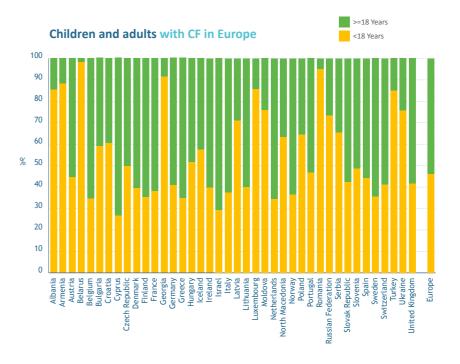




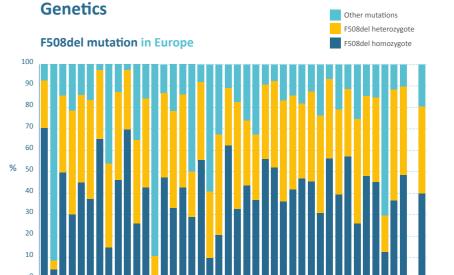


Proportion children-adults

- The proportion children-adults varies between the countries.
- For some countries only a few individual centres sent data to the European CF Registry.



Belarus reported no adult pwCF.



- F508del is the most common CF-causing mutation in Europe.
- People with CF have two CF-causing mutations, one inherited from the mother and one from the father.
- Homozygous: both mutations are the same.
- Heterozygous: the two mutations are different.





F508del heterozygote



Other mutations

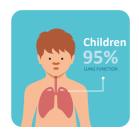
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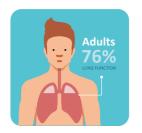


FEV1% of pr

Lung function

Median FEV1% People with CF 110 90 80 70 60 50 6-11 12-17 18-29 30-39 40-49 50-59 60+ Age

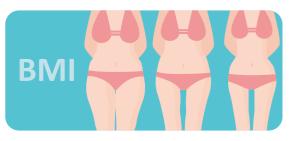




Healthy peers

- FEV1 is a measure for lung function. It is the maximum amount of air that can be forcefully exhaled in the first second after taking a deep breath.
- FEV1% is a percentage of the average value for healthy people of the same age, gender and height, which is set at 100%.
- In people with CF aged 45 and older there is a higher incidence of mutations causing milder forms of CF. This influences the lung function value for the people with CF in this age group.

Nutrition



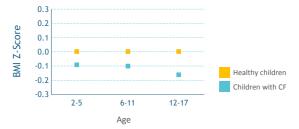


Median means the 50% of the values are above and

50% are below this value.

Z-SCOPE indicates how far a value is from the average (mean) value of the reference population.

Median BMI Z-score in children



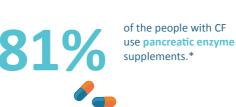
- A z-score of 0 means that the BMI is the same as the BMI of healthy children of the same gender and age.
- From the age of 2, children with CF have a lower average BMI than healthy children of a similar age.

Median BMI in adults 24 23 22 21 20 18-29 30-39 40-49 50-59 60+ Age

- Healthy peers have values for BMI between 18 and 25.
- As people with CF get older BMI increases.
- In adults with CF aged 38 and older there is a higher incidence of mutations causing milder forms of CF. This influences the BMI for the adults in this age group.

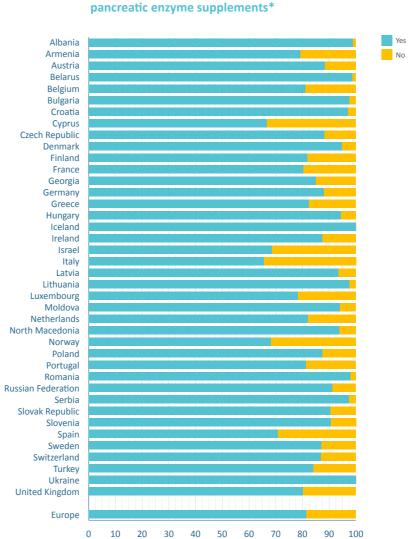
Pancreatic enzymes





• Enzymes released from the pancreas are vital for the digestion and absorption of fat and vitamins from food. In many people with CF the release of these enzymes is blocked and they must take supplements.

% of people with CF who use



^{*} Missing values are not included.

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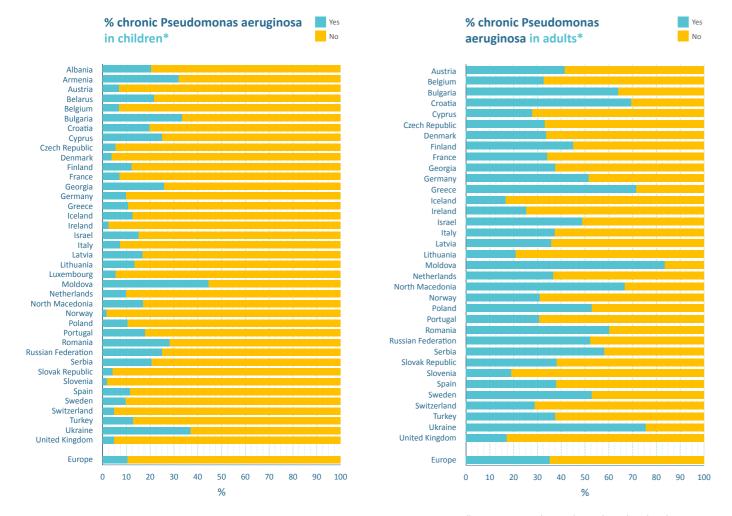


Infection



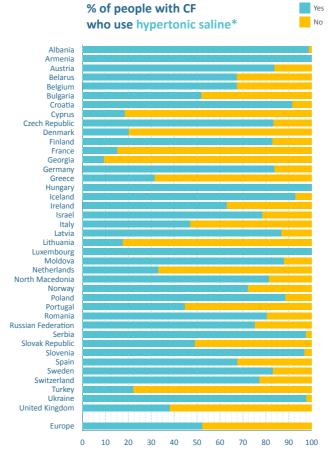


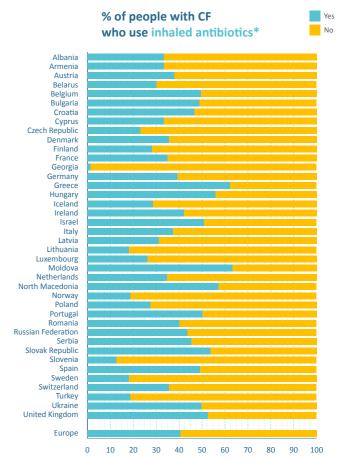
of the people with CF are chronically infected with the Pseudomonas aeruginosa bacteria in their lungs.*



Albania, Armenia, Belarus and Luxembourg have less than 5 pwCF aged 18 years or more at December 2021, and is excluded from this graph.

Inhalation Treatment

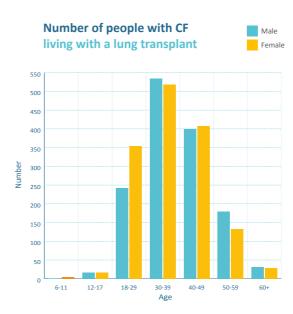


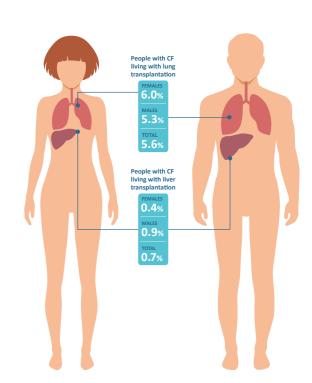


Hypertonic saline is prescribed to clear thick mucus from the lungs.

Inhaled antibiotics are prescribed to treat CFspecific bacterial infections, such as chronic Pseudomonas aeruginosa.

Transplantation





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^{*}Missing values are not included nor are data from countries with a high % of missing values.

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