At-A-Glance report 2014

Cystic Fibrosis in Europe – Facts and Figures 2014

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

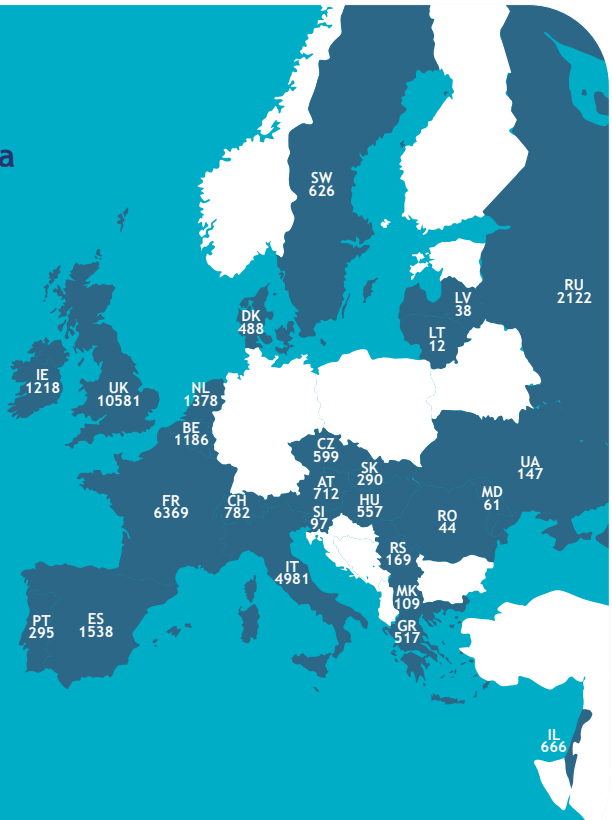
The ECFSPR collects, measures and compares data of people with CF living in Europe and neighbouring countries who agree to be in the registry. The information is important to better understand CF, encourage new European standards of care and treatment, conduct research, and inform public health-planning.

If you want to know more about the ECFSPR visit our website.

For more in depth information see the full report here.

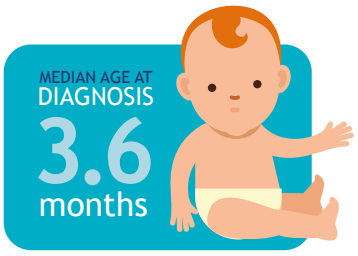
November 2016

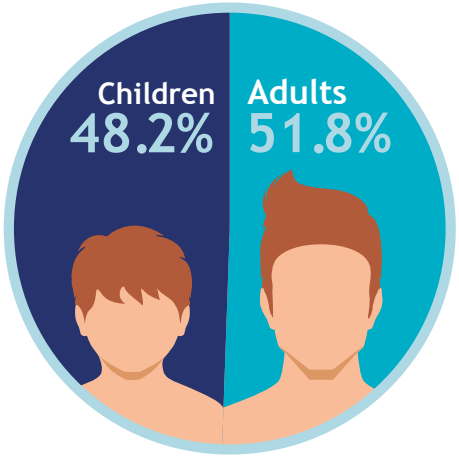
Map of countries
that contributed 2014 data
to the ECFSPR



35,582

registered patients in 26 countries
number of patients on map



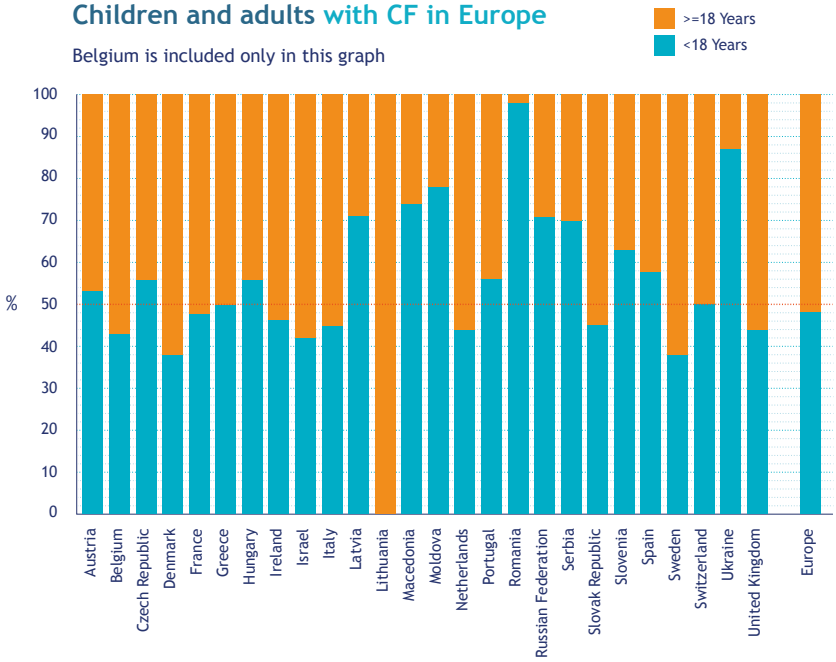


Proportion children-adults

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

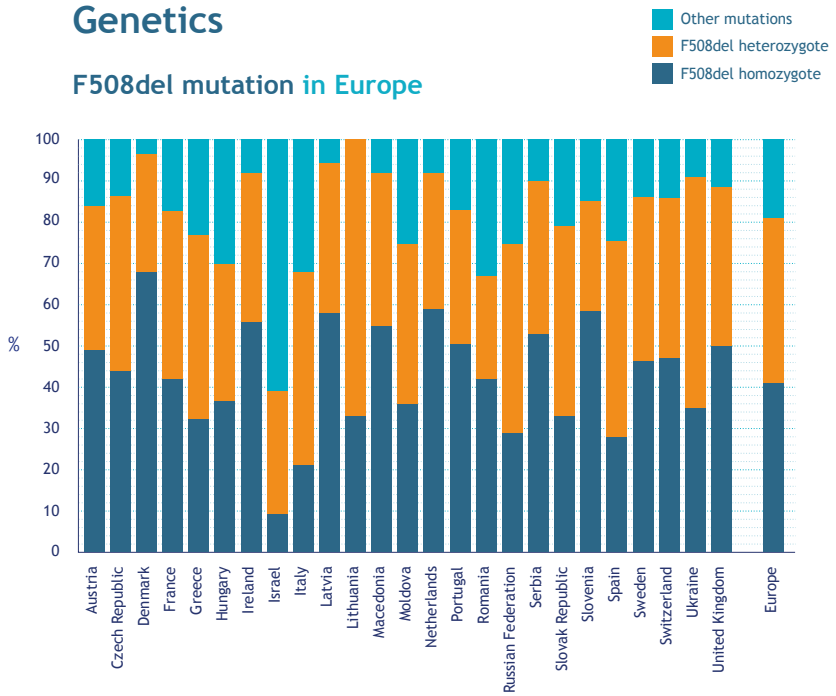
Children and adults with CF in Europe

Belgium is included only in this graph

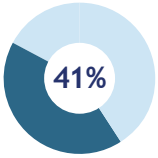


Genetics

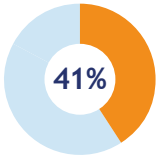
F508del mutation in Europe



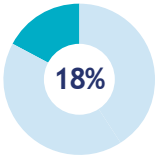
- F508del is the most common CF-causing mutation in Europe.
- People with CF have two CF-causing mutations, one inherited from the mother and one from the father.
- **Homozygous:** both mutations are the same.
- **Heterozygous:** the two mutations are different.



F508del homozygote



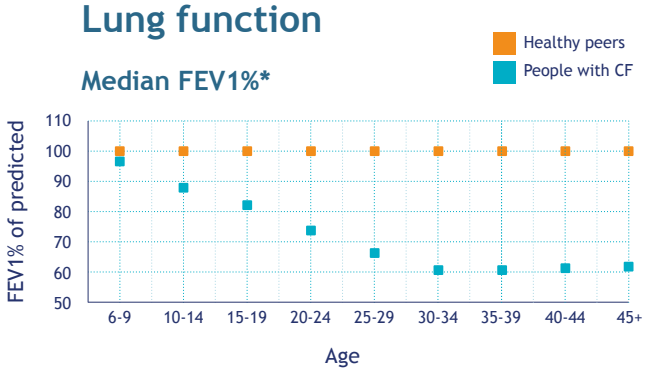
F508del heterozygote

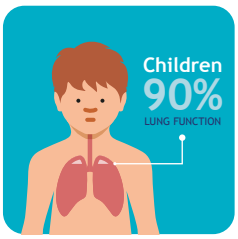


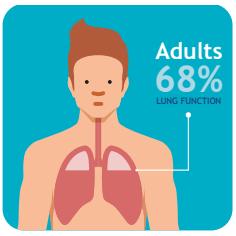
Other mutations

Lung function

Median FEV1%*



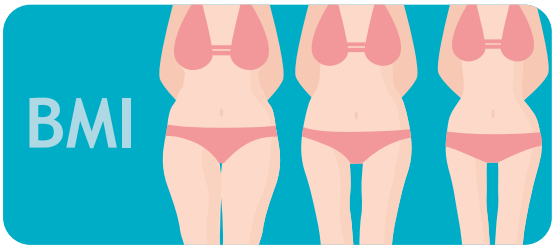




- FEV1 is a measure for lung function. It is the maximum amount of air that can be forcefully exhaled in the first second after taking a deep breath.
- FEV1% is a percentage of the average value for healthy people of the same age, gender and height, which is set at 100%.
- In people with CF aged 45 and 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 represented.

* In the 2014 report we changed to a new way of calculating lung function; this means that, from now on, ECFSPR results can be easily compared with those of other CF registries around the world.

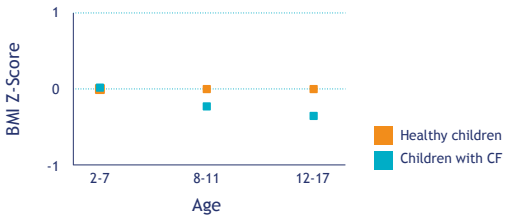
Nutrition



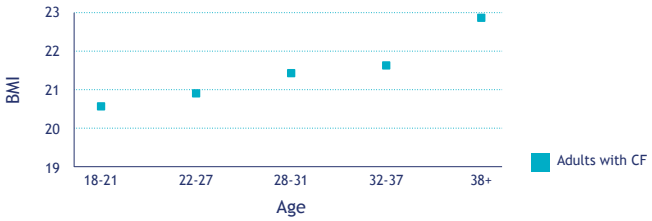
Median means that 50% of the values are above and 50% are below this value.

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

Median BMI Z-score in children



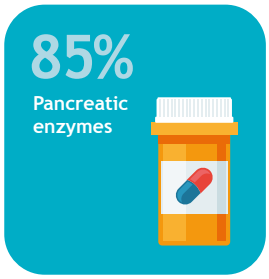
Median BMI in adults



- 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 8, children with CF have a lower average BMI than healthy children of a similar 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 represented.

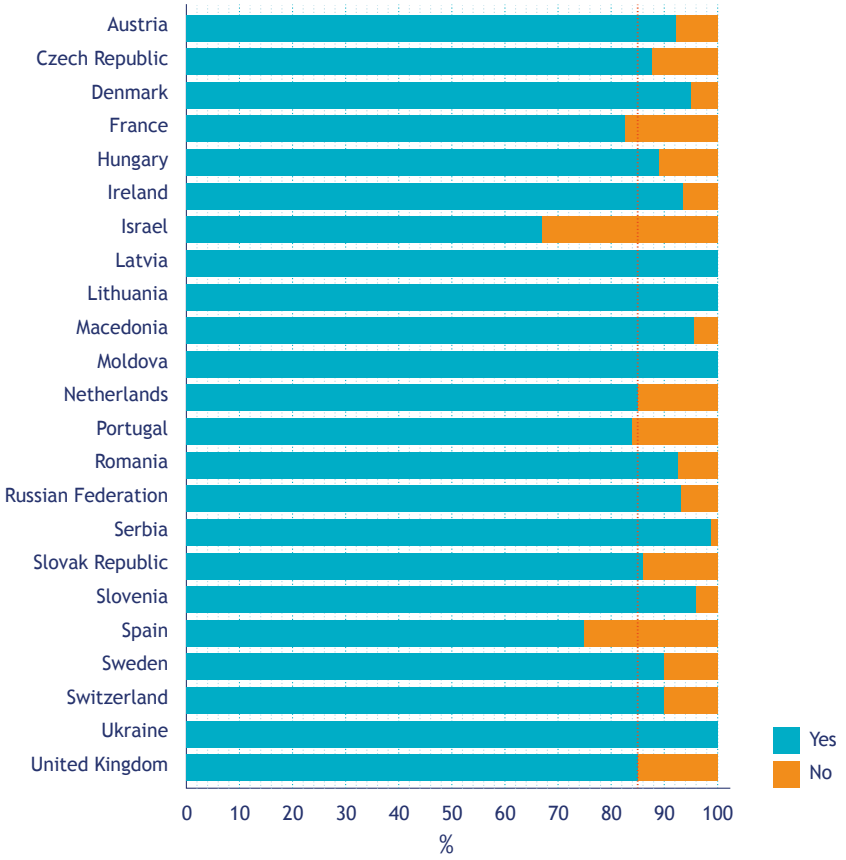
Pancreatic enzymes



85% of the people with CF use **pancreatic enzyme** supplements.*

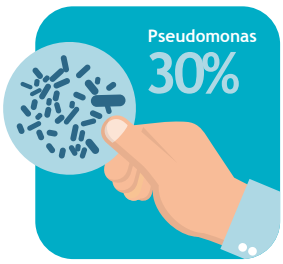
- Enzymes released from the pancreas are vital for the digestion and absorption of fat and vitamins from food. In many people with CF the release of these enzymes is blocked and they must take supplements.

% of people with CF who use pancreatic enzyme supplements*



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

Infection



30% of the people with CF are chronically infected with the **Pseudomonas aeruginosa** bacteria in their lungs.*

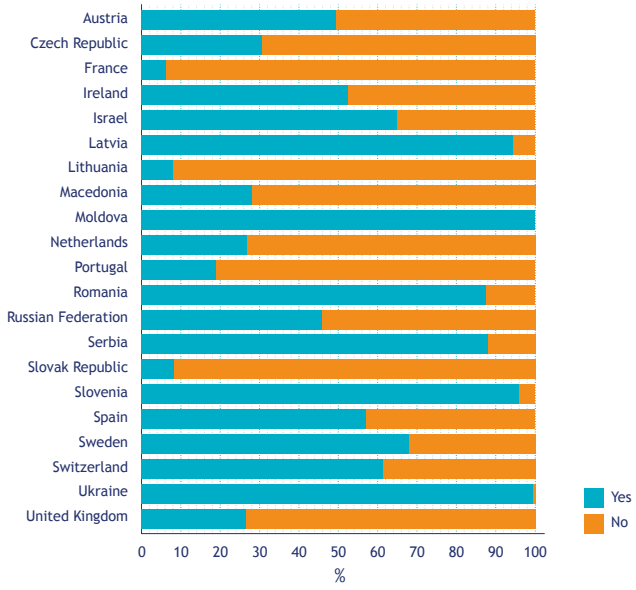
% chronic Pseudomonas aeruginosa in children*

% chronic Pseudomonas aeruginosa in adults*

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

Inhalation Treatment

% of people with CF who use hypertonic saline*



% of people with CF who use inhaled antibiotics*

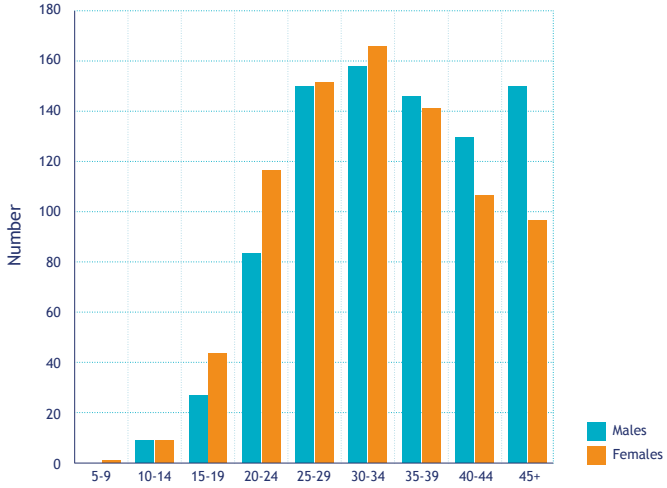
Hypertonic saline is prescribed to clear thick mucus from the lungs.

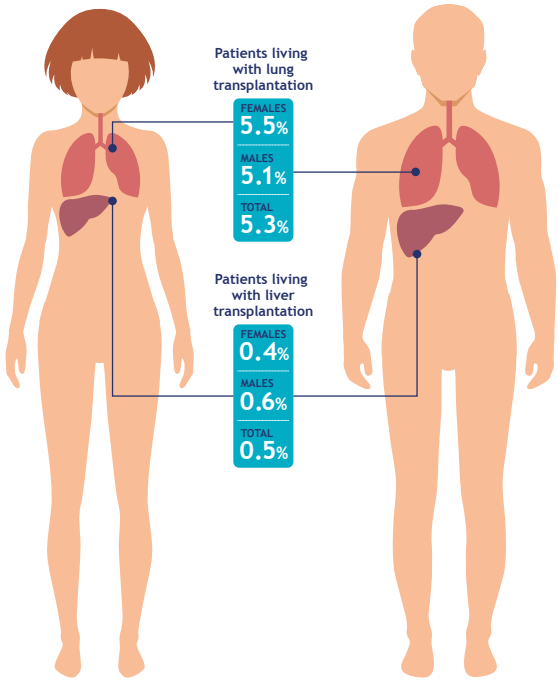
Inhaled antibiotics are prescribed to treat CF specific bacteria, such as chronic Pseudomonas aeruginosa.

* In these graphs the missing values are not included nor are data from countries with a high % of missing values.

Transplantation

Number of people with CF living with a lung transplant





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