

# At-A-Glance report 2018

#### Cystic Fibrosis in Europe - Facts and Figures 2018

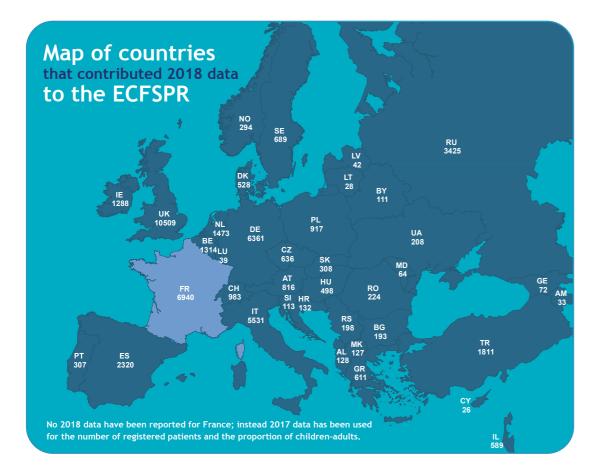
The European Cystic Fibrosis Society Patient Registry (European CF Registry) is happy to present this report with key information about how cystic fibrosis (CF) affects people with CF and their families throughout Europe.

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 <u>www.ecfs.eu/ecfspr</u>.

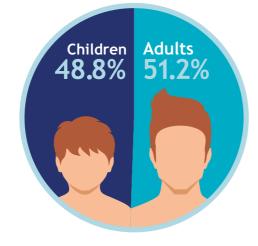
For more in-depth information see the full report here: <u>www.ecfs.eu/projects/ecfs-patient-registry/annual-reports</u>.

November 2020





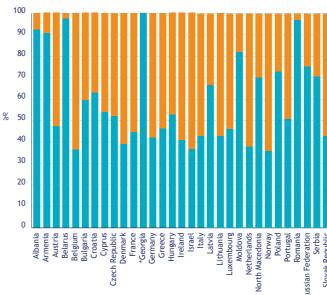




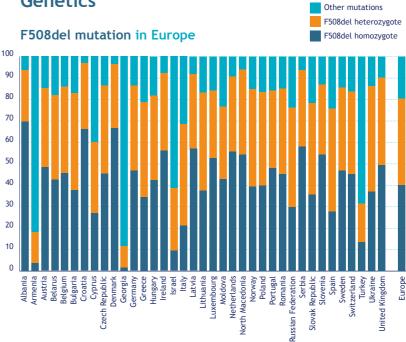
#### **Proportion children-adults**

- The proportion children-adults varies between the countries.

Children and adults with CF in Europe



Genetics





2

%



## • For some countries only a few individual centres sent data to the European CF Registry

>=18 Years <18 Years S, Swet Sweta Turke Ukraine d Kingdom Europ Sloven Spa

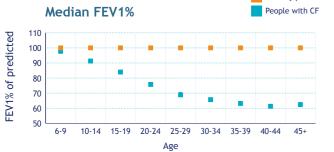
\*For Georgia no adult patients were reported.

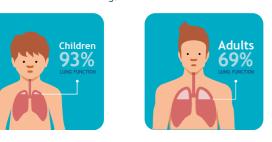
- F508del is the most common CF-causing mutation in Europe.
- People with CF have two CF-causing mutations, one inherited from the mother and one from the father.
- Homozygous: both mutations are the same.
- Heterozygous: the two mutations are different.



Other mutations

#### Lung function





#### Nutrition

#### 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.





• 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.



• Healthy peers have values for BMI between 18 and 25.

28-31

Age

32-37

38+

18-21

22-27

- 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.

BMI Z-Score

2-7

8-11

Age

the same gender and age.

children of a similar age.

12-17

• A z-score of 0 means that the BMI is the

same as the BMI of healthy children of

have a lower average BMI than healthy

• From the age of 2, children with CF



of the people with CF use pancreatic enzyme supplements.\*

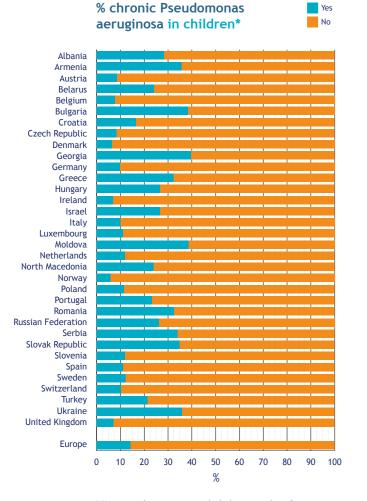


#### Infection



30%

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



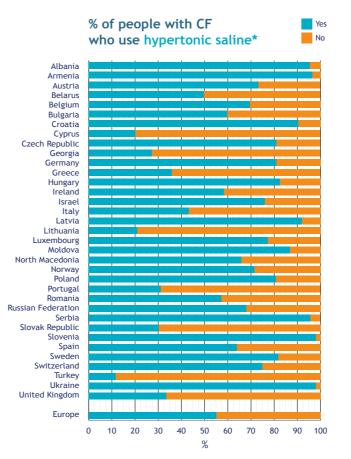
 $^{\ast}$  Missing values are not included nor are data from countries with a high % of missing values.

% chronic Pseudomonas Yes No aeruginosa in adults\* Austria Belarus Belgium Bulgaria Croatia Cyprus Czech Republic Denmark Germany Greece Hungary Ireland Israel Italy Latvia Lithuania Luxembourg North Macedonia Poland Portugal Romania Russian Federation Serbia Slovak Republic Slovenia Spain Sweden Switzerland Turkey Ukraine United Kingdom Europe 20 30 40 50 60 70 80 90 100 10 0 %

Countries with fewer than 5 patients aged 18 years or more are excluded from the graph.

For Georgia no adult patients were reported.

#### Inhalation Treatment



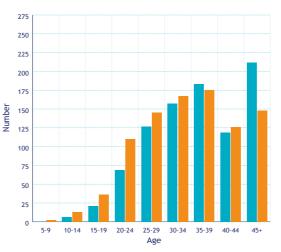
Hypertonic saline is prescribed to clear thick mucus from the lungs.

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

#### **Transplantation**

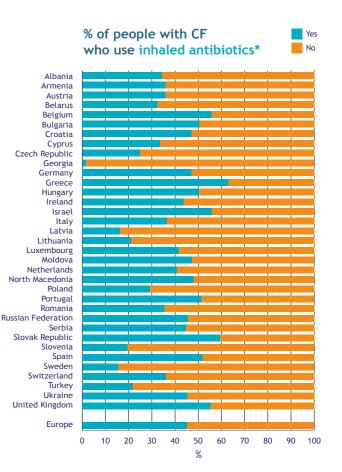
Number of people with CF living with a lung transplant



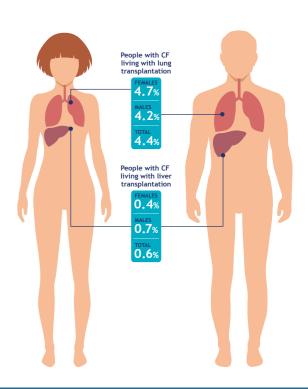


6





Inhaled antibiotics are prescribed to treat CF-specific bacterial infections, such as chronic Pseudomonas aeruginosa.



### Contact us:

ecfs-pr@uzleuven.be | www.ecfs.eu/ecfspr

Follow us:

Twitter @ECFSRegistry | www.facebook.com/EuropeanCysticFibrosisPatientRegistry/

