# VACCINATION DRAVET an European Survey

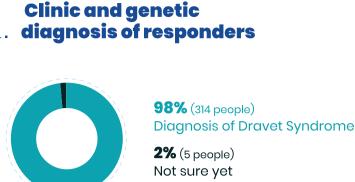


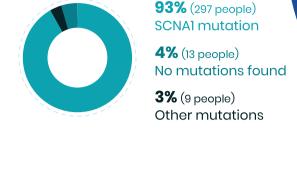


# the responses

**Analysis of** 







**195 patients** out of 319

/124 fever

4
ceil without /124 fever

schedule

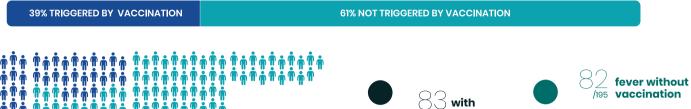
unknown or no /195 apparent triggers

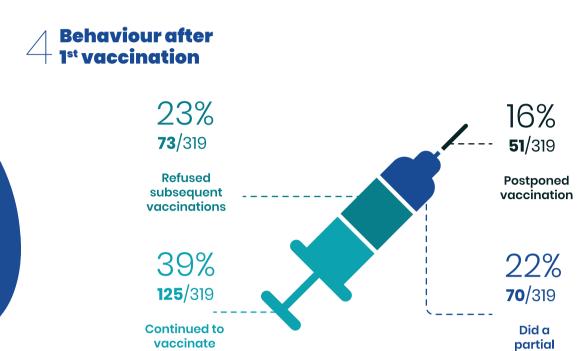
other /195 triggers

## 124 patients out of 319

Occurence of

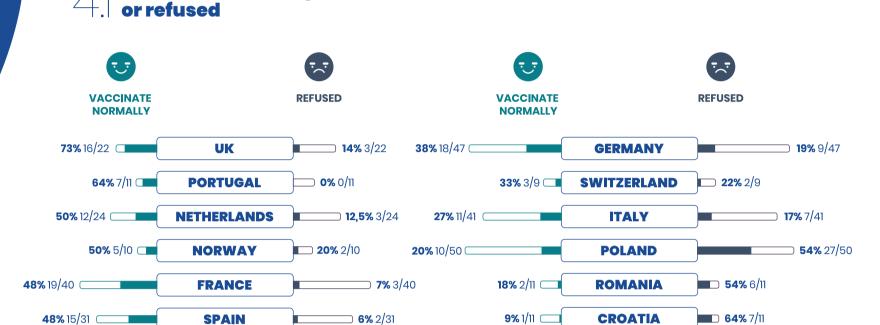
first seizure event





normally

**Vaccinate normally** 



# **Major preventive**

## 319 patients 246 continued did not continue to vaccinate to vaccinate 61/246 185/246 did not adopted preventive adopt preventive measures measures 101/185 84/185 adopted did it because preventive they wanted to or other parents measures because the advised to do so doctor advised them to do so

reventive measures

measures adopted





**ROMANIA** 

NORWAY MARINE

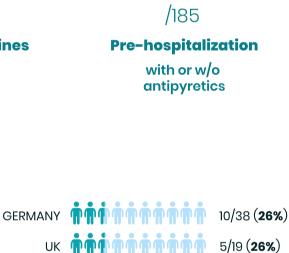
**SWITZERLAND** 

18/29 (62%)

20/34 (59%)

20/37 (54%)

2/4 (50%)



5/23 (22%)

1/5 (20%)

1/7 (14%)

1/8 (12,5%)

## PORTUGAL PROPERTY 5/11 (45%) NETHERLANDS TOTAL 7/22 **(32%)**

CROATIA P



## out of 124 also reported fever. However, the correlation between vaccination and the first seizure may be

**Triggers of first** seizure onset

Responders to the survey associated the onset of the first seizure with several triggers. In 39% of cases (124

patients out of 319), responders reported a correlation between

vaccination and the first seizure.

Among those cases (first seizure

correlated to vaccination), 83 patients

overestimated by parents because, in about 10% of cases they occurred 8-28 days after vaccination revealing a weak casual relationship as the only vaccines for which 15 days of delay could be reasonable is MMR, which is not used in the age group when the first seizure occurs. Even considering this overestimation, it results that seizure onset in subjects with DS is triggered by vaccination in about 29% of the cases, in agreement with the literature data (20 to 30%).

## in no case lead to the interruption of subsequent immunizations. Vaccines protect children from infections that may themselves cause fever (and thus seizures). It is important to know that, according to published scientific

vaccination. Having had a seizure at

the time of the first vaccination should

who

persons

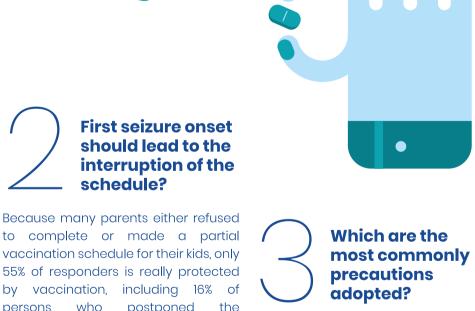
First seizure onset

should lead to the

postponed

schedule?

studies, vaccination-related seizures do not modify the outcome of the disease (Mcintosh et al. 2010, Zamponi et al. 2014). Which precautions can be adopted? In children with suspected and/or confirmed Dravet Syndrome diagnosis, if live inactivate and some attenuated recombinant vaccines can which reactions within 24-48 hours after the shot, it would be a good practice to administer the vaccine during a



The most commonly used precaution

to avoid febrile episodes after

vaccination, by parents, is preventive

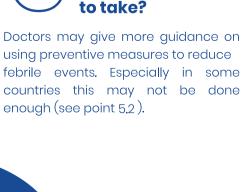
treatment with antipyretics (to be

taken in conjunction with vaccination).



# administered.

hospital admission. In all cases, parents have to be ready to control fever and to manage emergency treatment for prolonged seizures (to be prepared to stop seizures).



**Should doctors** 

advise parents

about precautions

# Emerging requests to scientific community

**Prospective studies of** vaccination related seizures in DS and other

early onset

encephalopathies

Establish a time frame for preventive measures for each vaccination type in patient with Dravet Syndrome diagnosis

options in patient with **Dravet Syndrome** diagnosis

**Determine best preventive** 

Data from the survey realized in 2018.

www.dravet.eu