

An open-label Phase 2 trial to investigate efficacy and safety of intra-amniotic administrations of ER004 in male subjects with X-linked hypohidrotic ectodermal dysplasia (XLHED)

# XLHED, the disease<sup>1</sup>

X-Linked Hypohidrotic Ectodermal Dysplasia (XLHED) is a debilitating genetic rare disease severely impacting the lives of affected boys, who can't sweat. 500 boys are born worldwide each year with XLHED.

**XLHED** is like driving in a car with an engine without cooling water

Thomas, affected by XLHED\*

\*German-Swiss-Austrian ED Patient Support Group 03/2011



An XLHED child wearing a cooling vest



# EROO4, the therapeutic solution

Ectodysplasin (EDA1) is an important protein during fetal development and is missing in XLHED. EROO4 is our experimental treatment. Given at the right time during development, it replaces the missing EDA and structures such as sweat glands develop normally.

#### **Ectodysplasin (EDA-A1) is Ectodysplasin EROO4** as a replacement for missing in XLHED under normal development **Ectodysplasin (EDA-A1)** In XLHED, ectodysplasin is missing. Because of this, A protein called "ectodysplasin" is needed for glands, In animal studies and clinical case studies, EROO4 replaced hair, teeth & skin to develop properly. glands, hair, teeth & skin do not develop properly. ectodysplasin and helped some XLHED-related structures This is happening early in life. develop. This is now being tested in an antenatal clinical trial. cell surface cell surface ectodyspla ectodyspla (EDA1) (EDA1) ectodysplasin receptor (EDAR)



# A typical rare disease story<sup>2</sup>

A physician treats 3 patients before birth in a compassionate use manner, and once born, the children can sweat. Other XLHED symptoms also seem alleviated. These results pave the way for a prenatal treatment approach, and the Esperare foundation and the Pierre Fabre group launch a pivotal study.



## A tailored collaborative approach

A bespoke partnership between patient advocacy, a not-for-profit biotech, EspeRare and a pharmaceutical group, Pierre Fabre, is put into place to better serve the needs of the XLHED community. Also benefits from health agencies' support.



# A ground-breaking clinical study for XLHED and a new treatment paradigm

Edelife, a pivotal phase study for prenatal treatment of XLHED boys, is underway and recruiting patients worldwide. If successful, this will be the first prenatal treatment approved for a genetic disease, thereby opening up a new way to treat unmet needs.







### Please visit https://edelifeclinicaltrial.com/en-us/ and Clinicaltrials.gov

1. XLHED symptoms statistics as reported by patients (adapted from: Fete M. et al; 2014 Am J Med Genet Part A (10):2437-42). 2. Full results in Schneider et al. 2018, New England Journal of Medicine 378:1604-1610.





