HIT-CF webinar

03-02-2022

Sites with potential CHOICES patients



Welcome to the HIT-CF webinar



Agenda

New collaborations

FAIR Therapeutics Santhera

CHOICES trial

Patient selection process
Trial design
Q-life application
Timelines

Santhera trial

Patient selection process
Trial design
Timelines

Future

Other companies: Eloxx Individual organoid result letter



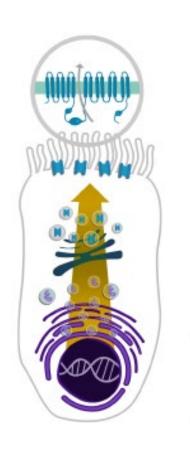
New collaborations



2017 Galápagos	DISCOVERY LAB	Nivalis		
2017 Galápagos	DISCOVERY LAB	?		
2018 Galápagos	DISCOVERY LAB	OTI PROTEOSTASIS		Eloxx Pharmaceuticals
2019 abbvie	FINAL Y LAB	PROTEOSTASIS		ELO Eloxx Pharmaceuticals
2020	SEEKING & CURE for CYSTIC FIBROSIS	Yumanity THERAPEUTICS		ELO Eloxx Pharmaceuticals
2020		Yum THERAPI	anity EUTICS	Eloxx
2021 Sa	anthera	FAIR THERAP	EUTICS	E NAME OF THE PROPERTY OF THE



FAIR Therapeutics



Dirocaftor (DIR) is a potentiator. It enhances the ion transport activity of the CFTR protein

Posenacaftor (POS) is a corrector which promotes the maturation of CFTR protein to the cell surface

Nesolicaftor (NES) is an amplifier which cotranslationally increases the amount of CFTR protein

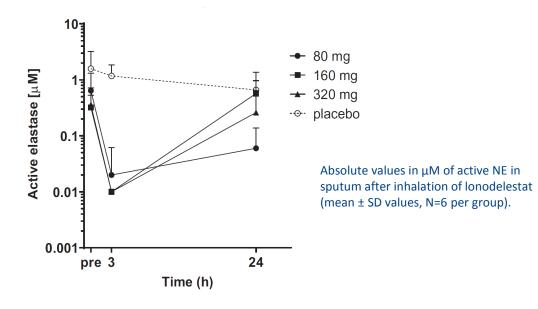


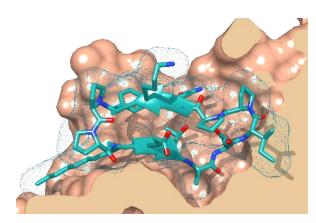
Santhera



Lonodelestat

- Targets elastase
- Highly potent, reversible and selective neutrophil elastase inhibitor
- Administration via Pari eFlow®





Lonodelestat bound to elastase



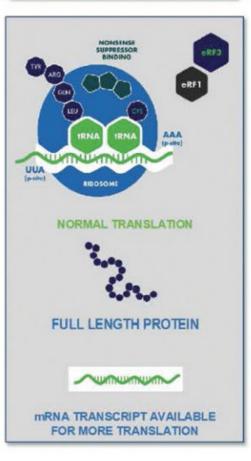
Eloxx

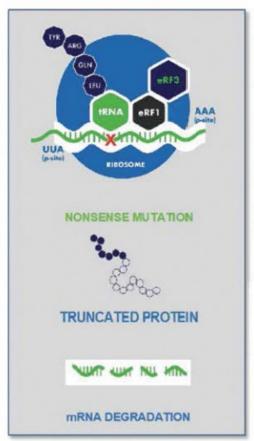
ELX-02

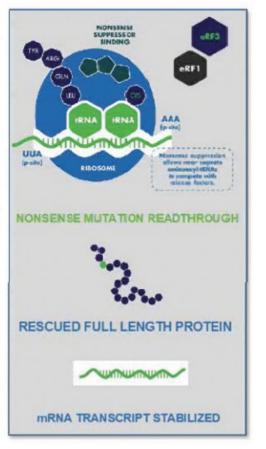
Normal

Nonsense

Read-through









Timelines

Start CHOICES, CTIS Q2 2022

Start Santhera, Q2 2022

Start Eloxx, 2022/2023?



CHOICES Study



A Phase III, Multicentre, Randomised, Double-Blind, Placebo-Controlled, Crossover Study to Evaluate the Efficacy and Safety of Dirocaftor/Posenacaftor/Nesolicaftor in Subjects with Cystic Fibrosis Aged 18 Years and Older (CHOICES)

- Patient selection process
- Trial design
- Endpoints
- Timelines



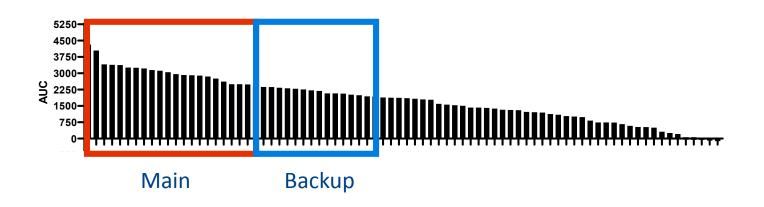
CHOICES – Patient selection

HIT Europe *

Step 1. Randomly selected patients with back up



Step 2. High responders with back up



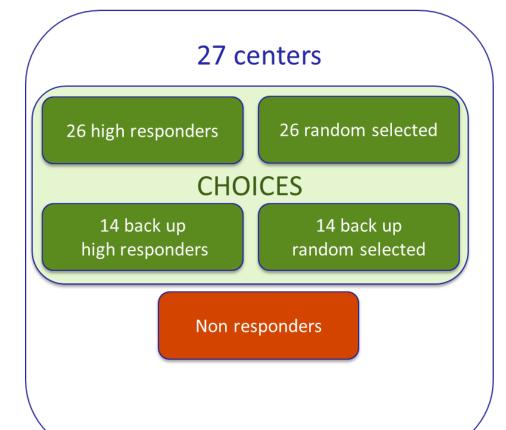
Patient selections where performed blinded for genotype and patient ID



CHOICES – Patient (& site) selection



46 centers



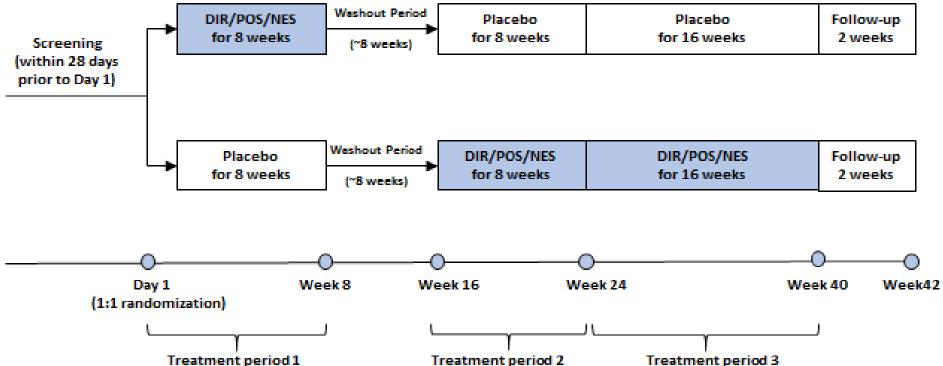
19 centers

Medium and non responders



CHOICES – trial design

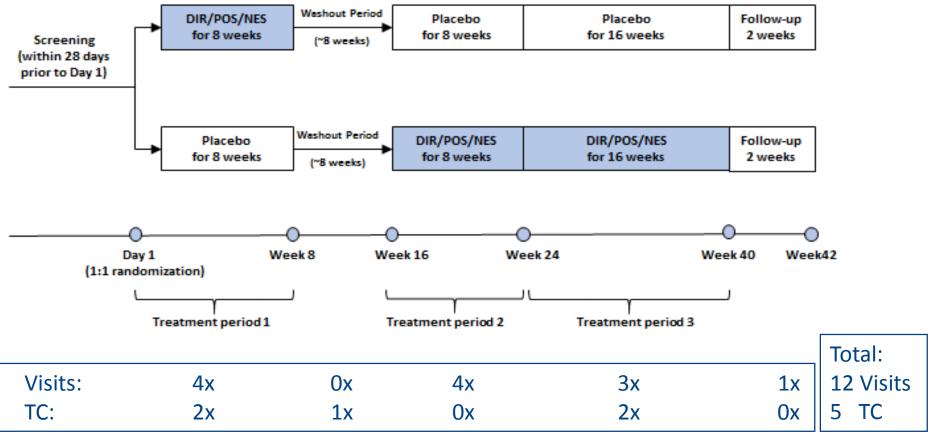






CHOICES – trial design







CHOICES – Endpoints

- ppFEV1
- Sweat Chloride
- Weight
- Safety and tolerability
- CFQ-R
- Q-life
- Organoid response



CHOICES – Q-life

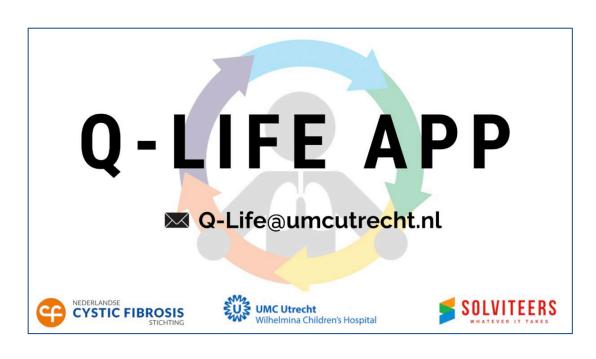


Q-Life application to assess QoL in people with CF on individual level

Available in all languages within CHOICES

Instructions and testing

- Instruction manual
- Investigator meeting
- Youtube instruction video:
- https://youtu.be/3dNTdel2TYE
- Or search for "Q-Life CF"





CHOICES - Timelines



- Fill and Finish of the capsules started
- Re-assesment of eligibility criteria ongoing, please follow up
- Regulatory: CTIS (Apr-Jun 2022)
- Investigators meeting: July 2022
- First patient in: August 2022





Santhera



Trial in non/low organoid responders to CFTR modulators

Trial:

- Double blind, placebo-controlled multi-center study
- 12 weeks (lonodelestat placebo 2:1)
- BID



Timelines:

- Protocol under review CTN
- Site contact in following weeks





Pending - Eloxx

Nov '21 Results monotherapy ELX-02

Waiting resuls ELX-02 + Kalydeco

Future trial: HIT-CF + USA





Future

Additional possible trials FAIR therapeutics: residual functions, medium organoid responders, combination therapy

We are in contact with different companies (mRNA/genetherapy) to explore collaborations within HIT-CF project



Future – individual organoid response



- After CHOICES inclusion is closed
- Response to Tezacaftor/Ivacaftor from primary screen

 Note: homozygous nonsense mutations do not receive a result yet, no commercially available products were tested



Future – Individual organoid response





Recently you have requested the deblindig of your patient's organoid data in the HIT-CF project because of an urgent clinical need (FEV1 < 40%). During the organoid screen, research-grade Tezacaftor/livacaftor purchased from a commercial source was used as a control. Below you find your patients' response to this commercial available drug.

Please note that the design of the screen is different from published experiments. The goal of the screen was cora increased in the cora of the screen was cora increased in the screen was considered in the screen from high to low with a more basic experimental setup then used for included testing, here we present you the data of your patient in comparison to all other organoids measured in the screen, Figure 1. Results are categorized in 3 compartments (1) likely responsive, in green (2) doubtfully responsive, in corage and (3) unlikely responsive, in grys, Pleasa note that these are arbitrary cut off values. For reference the organoid response to Tezacaftor/Ivacaftor in a patient with F0006et homorrousometris is added

The responses in Figure 1 are corrected for residual function. The arrow indicates the location of your patients' response. Negative values are usually seen in samples with high residual function. The residual function and uncorrected response in your patient are shown in Figure 2.

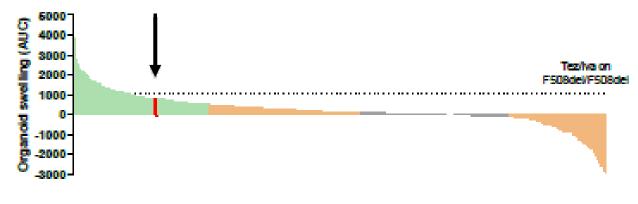
The possibility to start an experimental treatment with Tezacaftor/Ivacaftor remains your clinical decision as treating physician. Don't hesitate to contact us for any additional questions. We thank you for your continued support to the European HIT-CF program.

On behalf on the HIT-CF team,

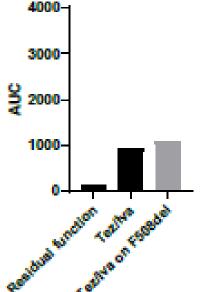
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Figure 1.











Thank you all for your continuous support and looking forward to the next steps!

