Cystic Fibrosis and Orkambi: This New Drug is Adding Tomorrows

Zoë Mertz

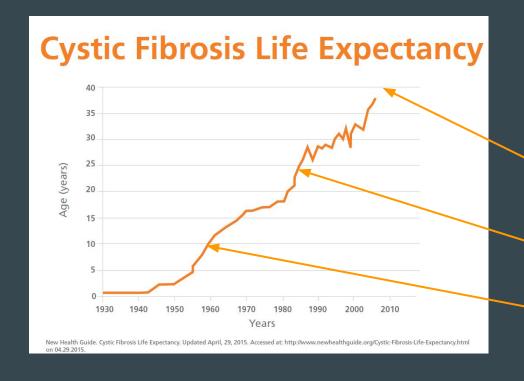
At three days old, my little brother was diagnosed with a genetic disease called cystic fibrosis



Circa 2001



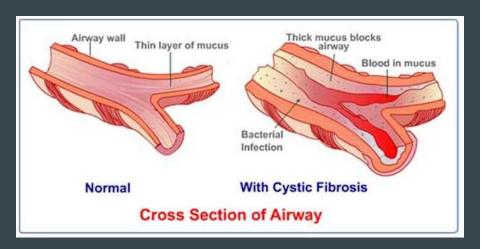
Cystic fibrosis patients have a significantly shortened lifespan, though life expectancy is improving

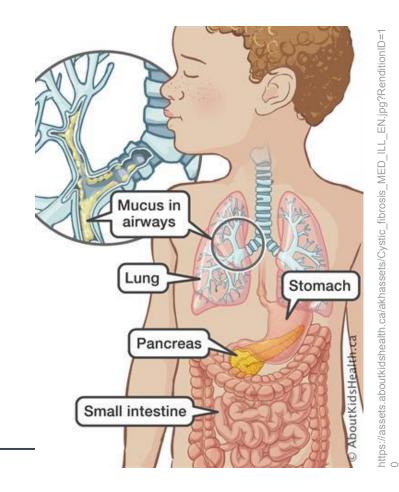


CYSTIC FIBROSIS REACHING KEY LIFE MILESTONES 24.4% 29.1% college degree* 5.7% doctoral degree* 45.4% work 39.8% married or living together 1.3% retired PREDICTED MEDIAN SURVIVAL 1985 2012

ADULTS WITH

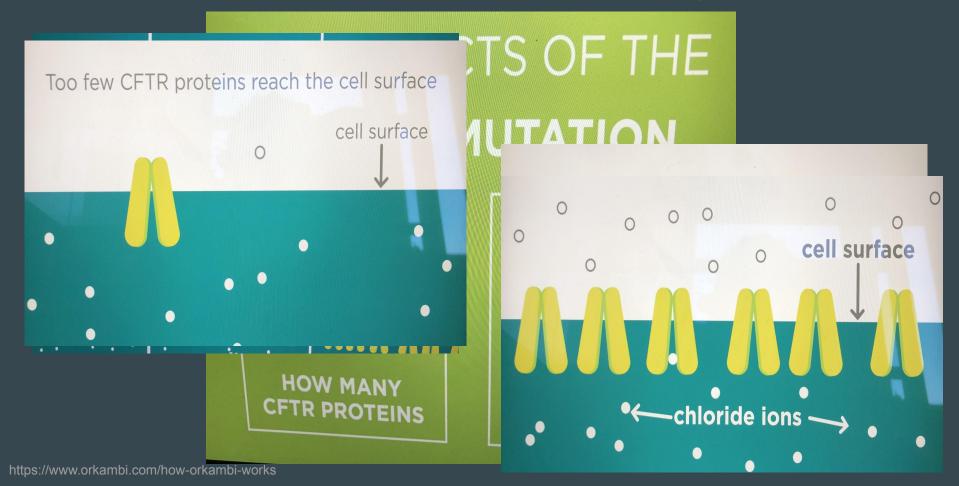
Cystic fibrosis can cause damage to the lungs, pancreas, and other organs due to a buildup of thick, sticky mucus



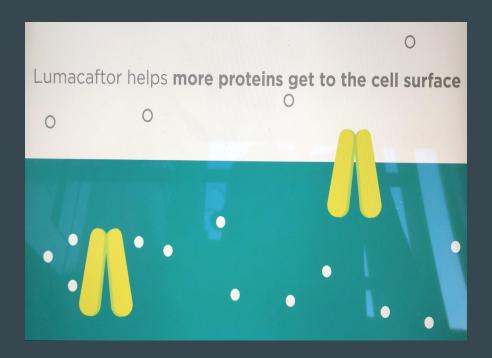


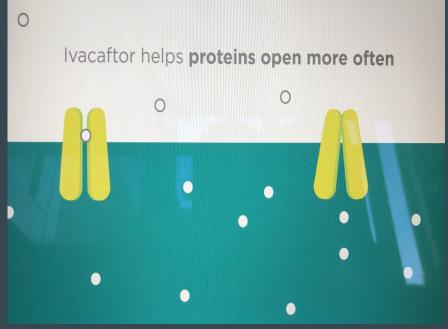
nttp://3.bp.blogspot.com/-lQg5z86LyMU/Ut7KGq2AEpI/AAAAAAAAAFA/bX43sNg1tjk/s16 00/cystic-fibrosis-c-s-airway.jpg

The CF Delta F508 mutation has two main effects on operation of cells

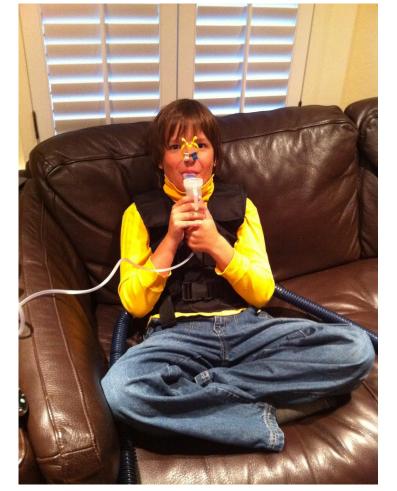


Orkambi is a miraculous breakthrough for patients with the Delta F508 CF mutation – addressing the cause, not just the symptoms





So What? Who Cares?



Bibliography

Cystic Fibrosis Foundation. (n.d.). Lumacaftor ivacaftor (Orkambi®). Retrieved September 27, 2018, from https://www.cff.org/Trials/Pipeline/details/86/Lumacaftor-ivacaftor-Orkambi-

Cystic Fibrosis Foundation. (n.d.). About Cystic Fibrosis. Retrieved September 27, 2018, from https://www.cff.org/What-is-CF/About-Cystic-Fibrosis/

How ORKAMBI® (lumacaftor/ivacaftor) Works | Watch the Video. (n.d.). Retrieved October 7, 2018, from https://www.orkambi.com/how-orkambi-works

Goals for Presentation:

- Speak slowly!
- Learn new things about science
- Try out / practice new presenting techniques



