

Probably Genetic Introduction

Ultragenyx Rare Disease Entrepreneur Bootcamp May 2024

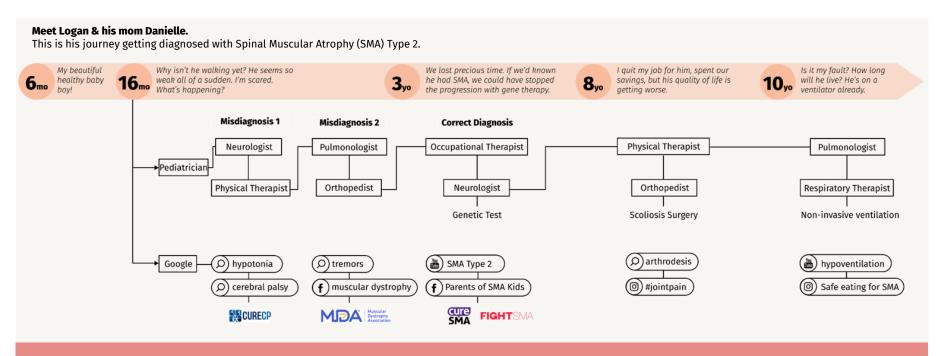
> Lukas Lange, PhD | CEO lukas@probablygenetic.com

30 million people in the US suffer from a genetic disease





Patients are sick for years before getting diagnosed

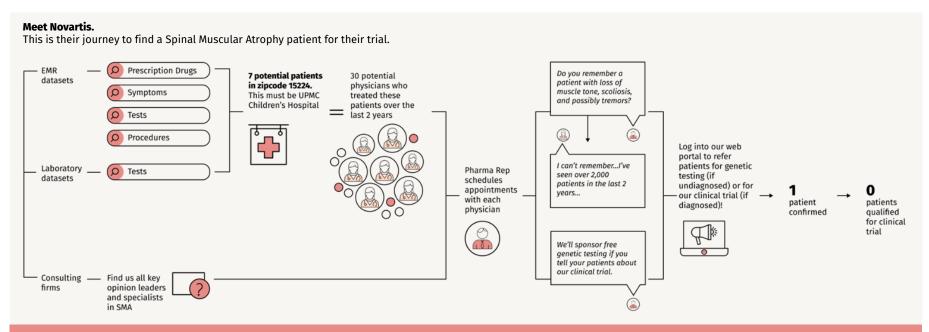


Lack of access to specialists who would recognize genetic disease symptoms.

- Misdiagnoses lead to wrong treatments and missed treatment opportunities
- Staggering emotional and financial strain on patients and their families.



Finding patients offline is hard



- Data lives across different EMRs, specialists, and labs, which makes it extremely hard to identify patients.
- Because of regulatory restrictions, pharma companies waste time and money trying to find physicians treating target patients.

Targeting physicians is an ineffective way to get patients into trials and onto treatments.

Current solutions only find a subset of patients ...



EHR Records & Claims Searches

Did you hire vendors who analyze medical claims & EMR data, but don't deliver because patient data is distributed across many different systems and most patients are undiagnosed?



Awareness Campaigns

Did you partner with specialists, key opinion leaders, and PAGs, but **struggle to convert these awareness efforts into leads**?



Sponsored Testing

Did you sponsor testing, but only reached a subset of patients who see the right referring specialist?



Homegrown Solutions

Did you piece together vendors to create your own compliant patient finding funnel, but **struggle with low conversion rates and uptake**?

... We find everyone





Diverse and representative of the entire US vs. just those with access to specialists



Disengaged or underserved but engaging with their symptoms and diagnostic journey online



Consented and can be activated via compliant communications suite



Probably Genetic helps patients and pharma find each other,

solving 3 core challenges for pharma and patients.

1. ONLINE PATIENT ACQUISITION

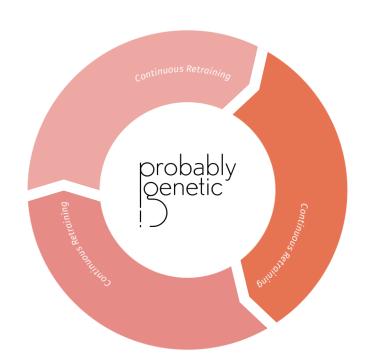
Direct access to hard-to-reach patient populations

Exclusive patient advocacy partnerships and online advertising power our unique direct-to-patient recruitment strategy.

3. PATIENT INTELLIGENCE & ACTIVATION PLATFORM

Seamless recruiting and drug development support

A flexible database enables pharma companies to analyze patient data and activate patients directly.



2. ML-PATIENT SCREENING

Efficient conversion of patients from undiagnosed to diagnosed

Our proprietary machine learning platform identifies undiagnosed patients based on a variety of data types

Text	Photos	Videos*	Audio*
Phenotypic Terms	Face	Seizures	Voice
Family Pedigree	Eyes*	Movement	Hearing
Medical History	Skin*	Behavior	_
Meta Data	Hands*		
Lah Renorts	Feet*		

EMR Data*

^{*} Not yet collecting

Pharma companies use our platform to launch treatments



Discover which physicians are treating target patients.



Learn which variants target patients carry.



Activate patients to enroll them in clinical trials or get them onto treatments.



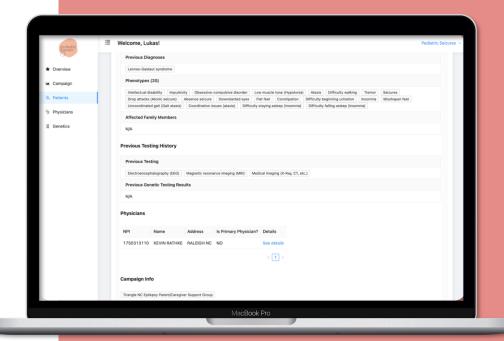
Understand the phenotypic profile of your target patients.



Get information directly to your target patients, not just physicians.



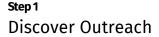
Analyze the diagnostic journey of your target patients.





Patients get free testing





→ Find us on social media, Google, our website, a Patient Advocacy website, and other online channels



Step 2
Answer a Few Questions

→ Complete a chat conversation with our LLM - ChatPG



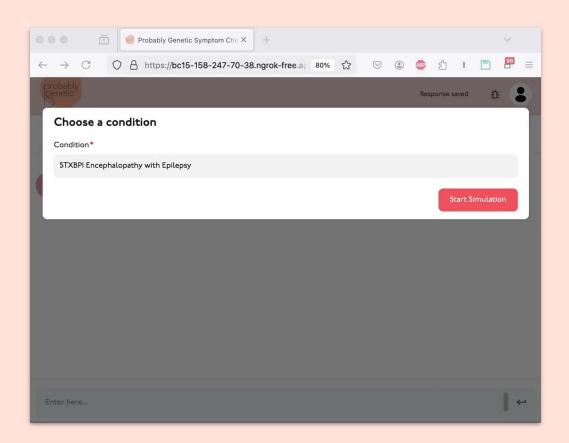
Step3
Get Tested & Counseled

→ Receive an at-home test in days with comprehensive physician and patient support



Step 4
Engage in Next Steps

→ Learn about next steps via a physician consultation or direct messaging PG's patient support team



Simulated STXBP1 parent



We work on many different disease areas

- Epilepsies
- Immunodeficiencies
- Neurodegenerative disorders
- Neuromuscular disorders
- Movement disorders
- Mitochondrial disorders
- Bleeding disorders

And are adding more every day.



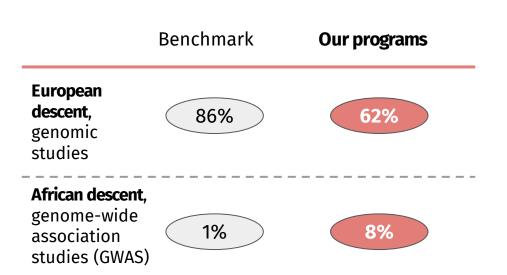


Patients sign up globally

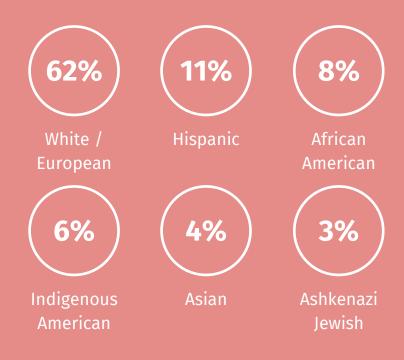
Locations of Symptom Checker Submissions



Our program participants are diverse and representative of the US



probably genetic



We reach cohorts with significant health disparities

Reach in various languages...





Content viewed 7,300+ times by 4,100+ unique users

... to various communities.

Example: PG-lead early childhood intervention program in Texas for Hispanic population on Medicaid

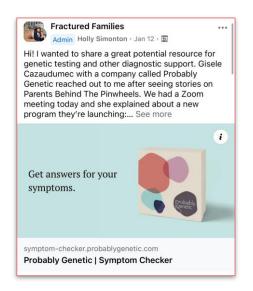


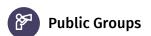
100+ Occupational Therapists Engaged



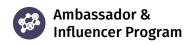
We work hand in hand with patients to expand reach

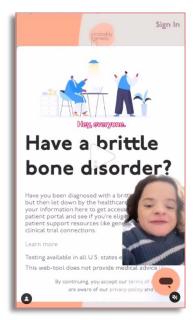














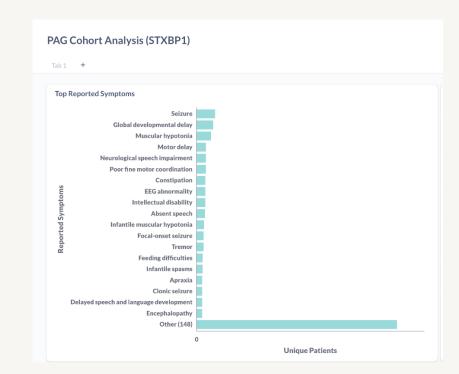




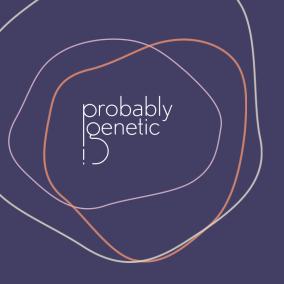
We support patient advocacy groups for free in various ways

How we partner:

- Collect information from already diagnosed patients to evaluate AI models and share data with PAGs
- Refer newly diagnosed patients to PAGs
- Help PAGs setup and manage Google Ad Grants, bringing more traffic to PAG websites







Thank you!

