Know your Blood Oxygen Saturation
Meet Our Team

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Global Health Visionary

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Regulatory Affairs Ninja

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Prototype Hacker
I have used oxygen for 20 years 24/7, to adjust the levels I use a finger pulse-oximeter sporadically because it is cumbersome and gets in the way. Also, it is not accurate when I move.

- COPD is the 4th leading cause of mortality worldwide.
- 65 Million are affected in the world
- Hospital admissions due to exacerbations contribute 57% of medical costs
- Up to 50% end up using oxygen at sometime in their lives
Technology

A tech-enabled service that helps patients to self-moderate their care with continuous monitoring of their blood oxygen levels.
Innovation

First to target COPD patients
Wearable device designed for the elderly

Better technology
Reflective OLEDs are more precise

Health Outcomes Incentive
Stay away from the hospital and reduce healthcare costs

Works in remote locations
Little power requirement

Sync with your phone
BLE for data collection and real time analysis

Competitively Priced
50% less of current most accurate technology
Why Colombia?

Strong network
- Team lead is from Colombia
- Has 10-plus years of experience collaborating with projects in Colombia

High burden of disease
- Between 10%-15% affected
- Most are covered by public health insurance

Financial incentive
- Average cost of $848 per patient per year
- 35% attributable to exacerbations

Technologically ready
- 60% has Internet access
- Colombia has more cell phones than people

LOCAL PARTNER
Fundación Neumológica Colombia, COPD’s main institution

GOVERNMENT
Potential future partnership for growth in other states

EPIDEMIOLOGISTS
Strong research resources within local partner and colleagues

SOUTH AMERICA
Management and Financing

Arias Lab 01
Provides technical support
Volunteer

Research team 02
Led by Drs. Aguirre and Artunduaga
Volunteers

Local partner 03
Fundación Neumológica Colombiana
Volunteer

Costs 04
Supplies needed for prototype of 25 devices are around $6,000

Funding 05
Anticipate $5,000 from Big Ideas @ Berkeley
Measuring Success

Better health outcomes **01**
We will decrease the number of exacerbations by 30% in year 2.

Decrease economic burden **02**
Every device will reduce costs by $250 per person/year.

Improve survival **03**
In the long term by assuring better adherence to long-term oxygen.
One year Timeline

- **July**: Finish prototype, Finish trial design
- **Aug**: Finish test user evaluation, USA and Colombia
- **Sept**: Finish subjects enrollment
- **Oct**: Midterm evaluation
- **Nov**: First year evaluation: Preliminary data analysis, Evaluate stakeholders performance
- **Dec**: Jan: Feb: Mar: Apr: May: Jun:
Completed 100 stakeholders interviews

We have a minimal viable product, first prototype to be ready by June 2017

Clinical validation in low and middle-income settings in Colombia with clinical study, n=100
Feedback from expert panel

Advice or suggestions from the audience

Financial resources to complete 25 prototypes ($6,000)