

Respiratory Disease Management and Therapeutic Support

Digital Health Solution Specifically For Respiratory Conditions



Health Care Originals
Monitoring | Insight | Better Health



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on research done at*



HCO Exists To Make A Difference

- **Over 750 Million People in the World with Chronic Respiratory Disease**
- **382 Million with Diabetes**



Diabetics have a comprehensive suite of home and professional products enabling a profound difference

But there no parallel products for respiratory conditions beyond basic peak flow monitoring!

Intelligent Monitoring

- Significant parameters like coughing and wheezing require advanced **recognition** algorithms utilizing machine learning executed in real time.
- **Modelling** of the response physiology and relationships among coughing, respiration rate, heart rate, temperature and activity.
- Creation of personal **baselines** from best to poor health states .
- Real time **actionable insights** at onset providing increased window of opportunity to suppress or eliminate potential exacerbation.



Non-Invasive -RSM & TM Wearables

User Centric Features

- | | |
|----------------------------|-------------------------|
| Flexible and Comfortable | General Torso Placement |
| Rechargeable Battery | Adhesive Peel & Stick |
| Activity Proof | Activity Proof |
| Wireless (Wi-Fi, BTLE, xG) | |



A full-stack hardware + software solution, ready to be integrated into the proactive healthcare model of tomorrow from proactive home monitoring & telemedicine to post surgery care

Monitoring, Insight & Better Health



Data Acquisition

AI – Supervised Machine Learning

Edge – Computing Onboard

Cough, Wheeze, Activity, Respiration, Heart Rate, Skin Temperature

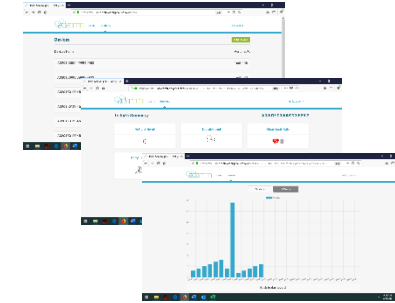


App

Behavioral change metrics

Additional metrics

Personalization



Web Portal

Data Analysis

- population level metrics
- individual responses

De-identification

APIs

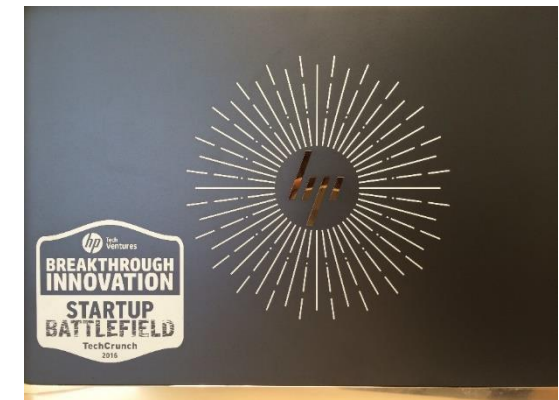
Industry Validation

Best wearable in the World, chosen from 450 entries, 60 countries

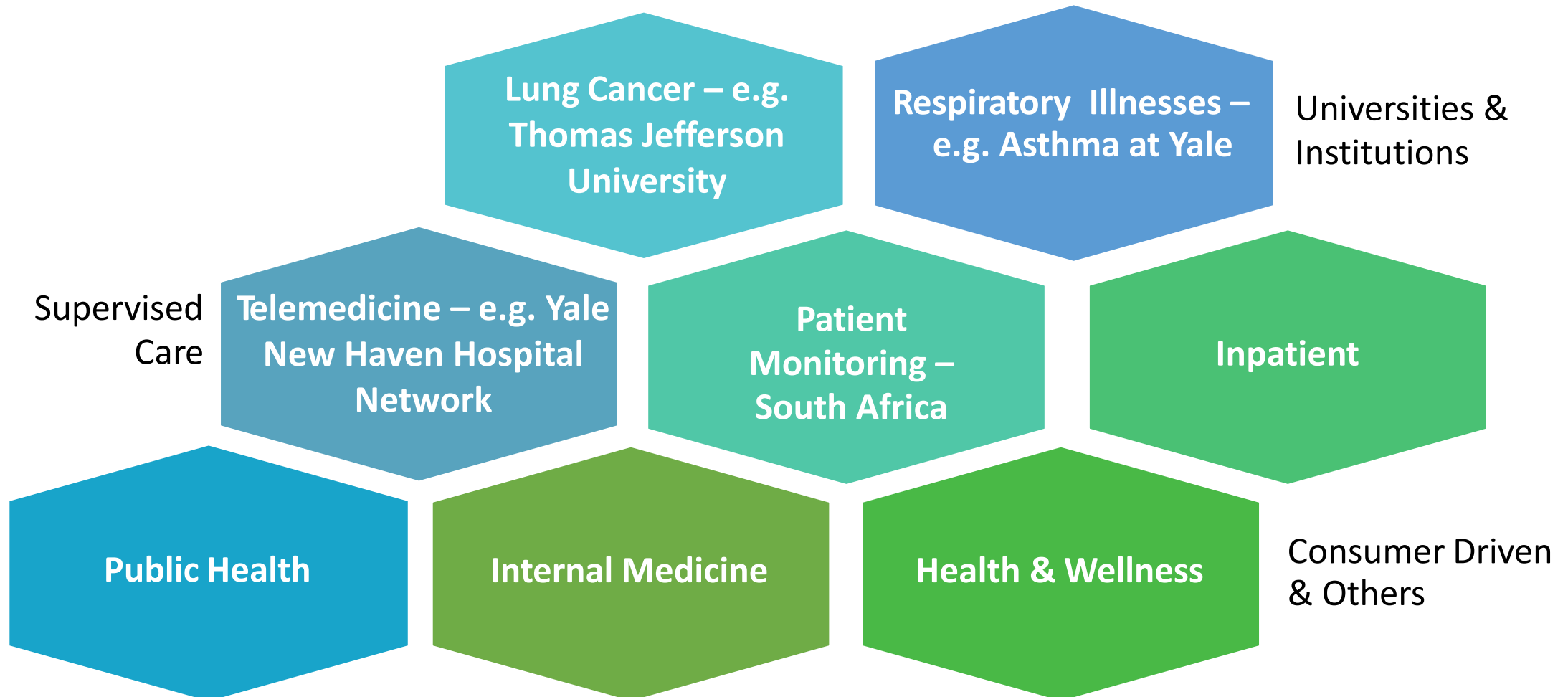
Top 4 Medical IoT Technologies in the World

Honoree, CES, Tech For A Better World

Inaugural Breakthrough Innovation Award by hp Tech Ventures



Ongoing Applications



Scalability



Respiratory Illnesses

- Asthma
- COPD
- Cystic
Fibrosis

Clinical Trials

- CROs
- Pharma
- Univ/
Hospitals

Professional Athletics / Fitness & Wellness Monitoring

- Leagues
- Olympians
- Sports

Enterprise / Health & Safety

- Industrial
- Rescue
personnel



Inexpensive,
Unobtrusive Data
acquisition



Many data points,
users, situations,
countries



Population-level
insights and metrics

Population Level Insights



**Diagnosis by Proxy &
Intermediate phenotypes**

Overarching Framework

Respiratory Disease Management resulting
in better health outcomes at lower cost

- Change health related behavior
- Digital Health Solution integrating hardware and software
- Benefits to key stakeholders: payers, consumers, providers, employers
- Diseases such as Asthma, COPD and Cystic Fibrosis

Thank You!

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