RespirationScan

Telling the story of your breath

Breath Diagnostics

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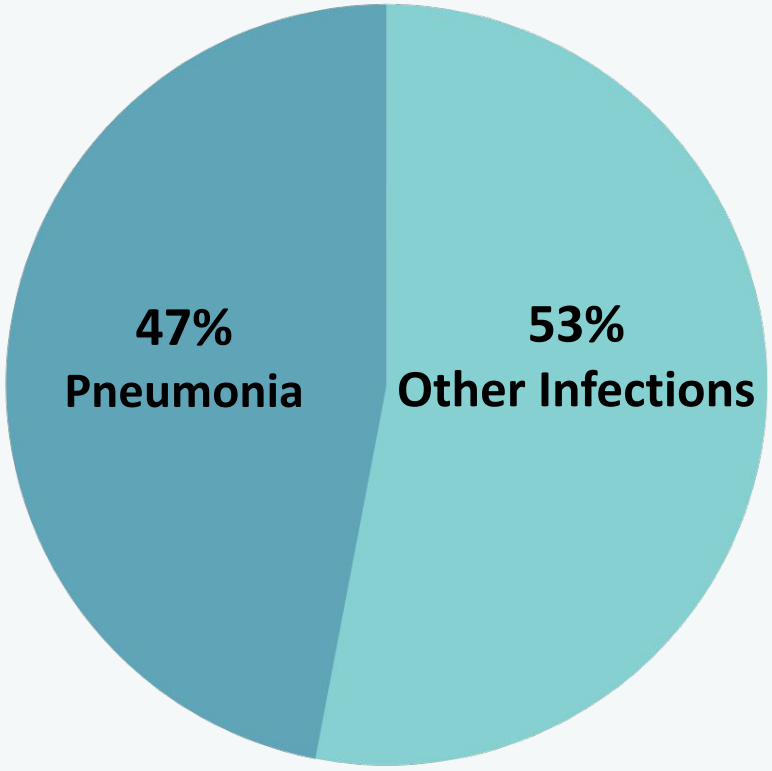
VAP

Ventilator-associated pneumonia

300 000 patients per year

25% VAP cases

30% Mortality Rate [2] (US)

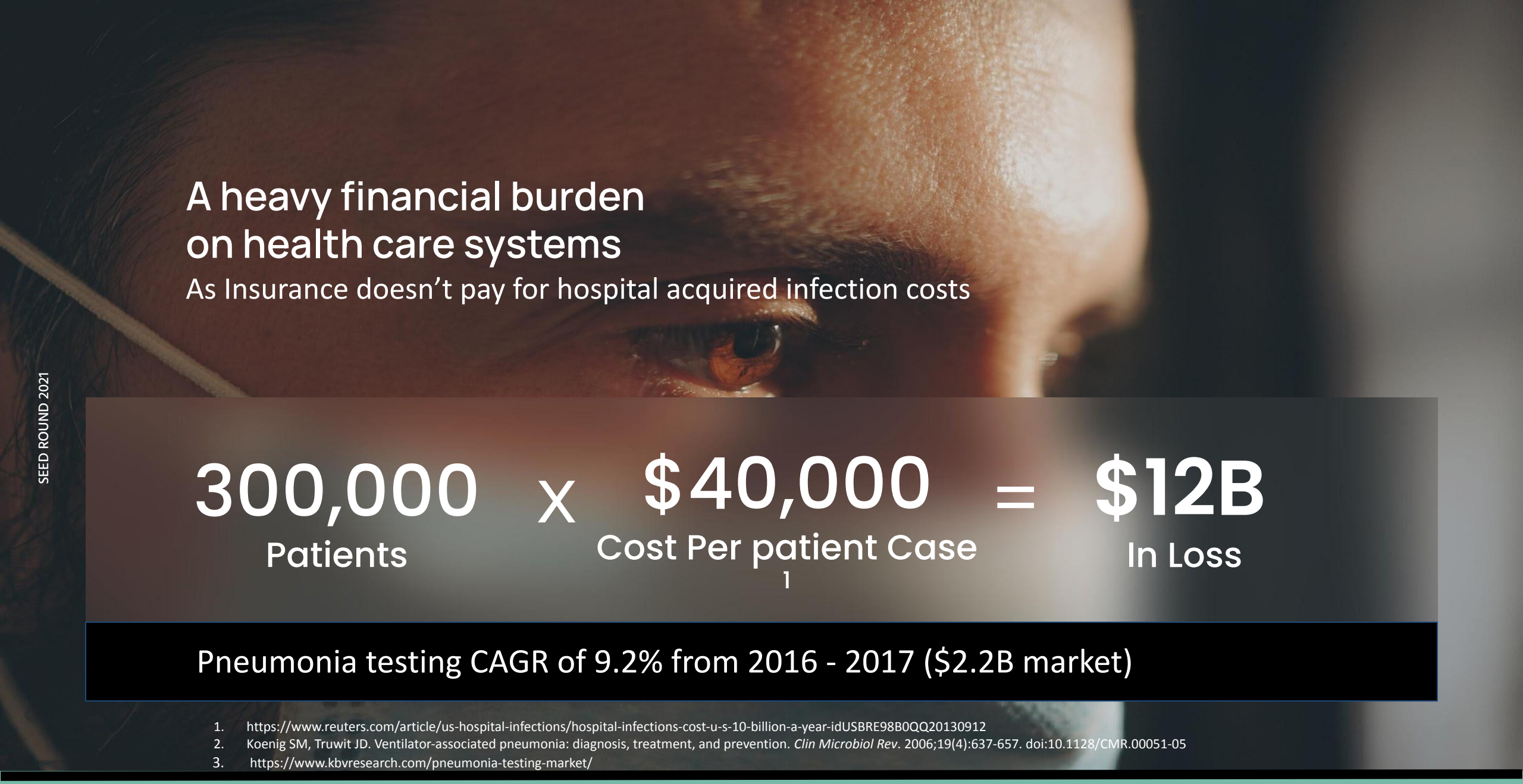


1. Spencer RC. Epidemiology of infection in ICUs. Intensive Care Med. 1994 Nov;20 Suppl 4:S2-6. doi: 10.1007/BF01713975. PMID: 7699152.
2. Koenig SM, Truwit JD. Ventilator-associated pneumonia: diagnosis, treatment, and prevention. *Clin Microbiol Rev*. 2006;19(4):637-657. doi:10.1128/CMR.00051-05

Early VAP diagnosis saves lives however todays methods are still

- Lengthy to diagnosis
- Difficult & invasive
- Heavy on care teams
- $ Expensive (thousands of dollars)

1. Koenig SM, Truwit JD. Ventilator-associated pneumonia: diagnosis, treatment, and prevention. *Clin Microbiol Rev*. 2006;19(4):637-657. doi:10.1128/CMR.00051-05



A heavy financial burden on health care systems

As Insurance doesn't pay for hospital acquired infection costs

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300,000 Patients x **$40,000** Cost Per patient Case [1] = **$12B** In Loss

Pneumonia testing CAGR of 9.2% from 2016 - 2017 ($2.2B market)

1. https://www.reuters.com/article/us-hospital-infections/hospital-infections-cost-u-s-10-billion-a-year-idUSBRE98B0QQ20130912
2. Koenig SM, Truwit JD. Ventilator-associated pneumonia: diagnosis, treatment, and prevention. *Clin Microbiol Rev*. 2006;19(4):637-657. doi:10.1128/CMR.00051-05
3. https://www.kbvresearch.com/pneumonia-testing-market/

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1592694/

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An effective and reliable solution for early Pneumonia diagnosis

Simple: Does not disrupt current ICU workflows

Timely: Daily analysis to predict or diagnose up to 2 days before care-team

Non-invasive: Poses minimal risk to the patients

Precise: Accurate bacterial load levels used by clinical staff to treat patients with specific antibiotics

Saving lives & costs with our patented solution

Collection unit connected to patients exhale tube

Samples are processed in Mass Spec.

VAPpredict software analyses Mass Spec. output

Early diagnosis with VAPredict

With VAPpredict, clinicians can detect Pneumonia earlier, provide patients with better **specific antibiotic treatment** and save lives and costs

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Successful Clinical POC in Israel

Out of 28 patients
5 VAP cases detected at least
12 hours before the clinical team.

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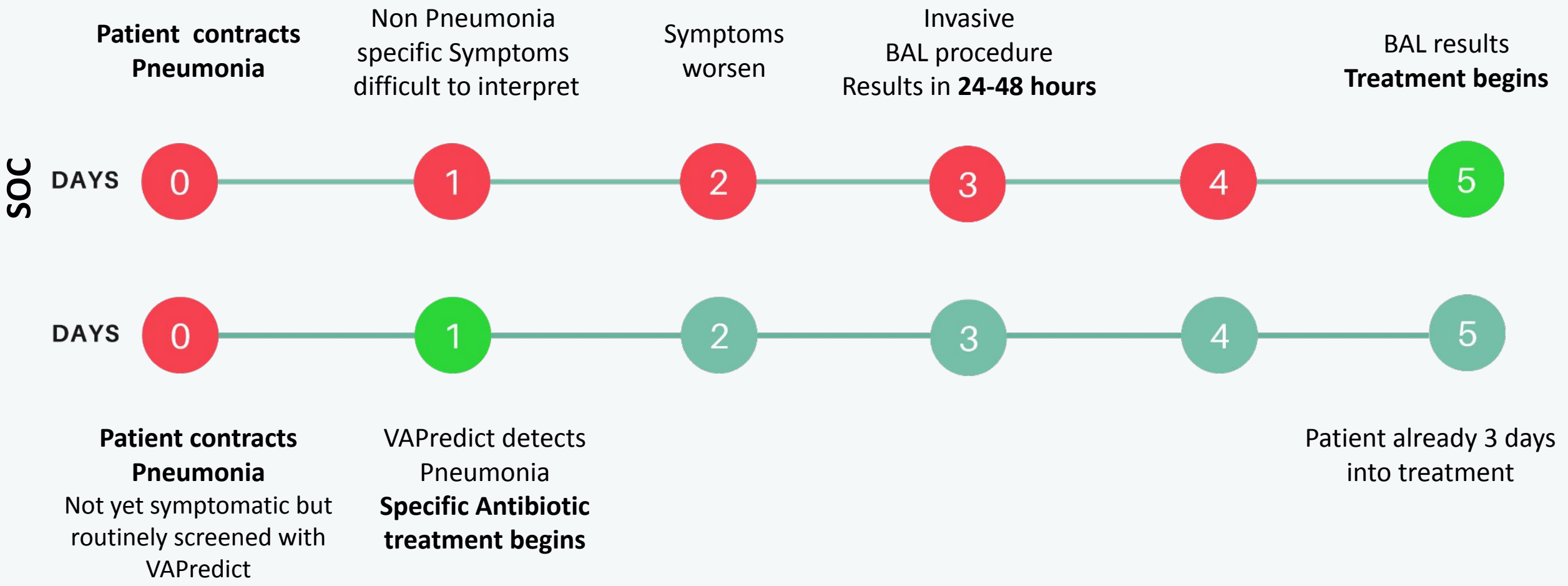
Patient	VAPredict Diagnosis Day	Clinical Diagnosis Day
611	4	6
614	5 (-12H)	5
602/603	4	5
853	2	3
854	2	3

VAPredict vs Standard of Care



What's next?

VAPredict was studied in early-clinical settings and is now entering its next phase: a large-scale clinical study

2 Patents in PCT

Lab POC completed

POC Clinical study completed

Large-Scale FDA and CE study (Houston and Israel) in 2022
Plan to CE approval early 2023

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Leadership

CEO, Edan A. Razinovsky
15 years of start up commercialization expertise. Big pharma experience with first in human phase 1 studies at Teva Pharmaceuticals.

CMO - Dr. Yaron Lapidot, MD, PhD
20 years Medical Diagnostics startup management. Applied Imaging, CartiCure, optiQGain. 15 years Intl Sales & Marketing of Medical devices (Applied Imaging, Genetix).

CTO – Dr. Igal Bar Ilan, PhD
30 years experience in commercial analytical chemistry with expertise in diagnostic techniques, instrumentation & technologies.

Scientific advisory Board

Professor Michael Levitt MD
2013 Nobel Prize in Chemistry Stanford University School of Medicine

Professor Nati Keller MD
2013 Nobel Prize in Chemistry Stanford University School of Medicine

Leading a fourth pillar of diagnostics

For decades, diagnostic approaches were limited to blood, imaging, and interventional procedures. Respiration Scan's technology is the **next pillar of diagnostics** for clinicians to use by analyzing VOCs in Human breath.

The RS software is designed to continuously learn new disease states. As we collect more patient samples we can target more bacterial and viral targets in human breath via our AI. As we build out more disease product lines and with our capability to not only diagnose but predict disease, **Respiration Scan will change our approach to healthcare entirely.**

RespirationScan

Thank You

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