Remote, Instant, Lab-Grade AI Detection of Respiratory Infectious Diseases & COVID-19, for Primary Care & Tele-Medicine

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Publications

- **Analysis of Influenza and RSV dynamics in the community using a 'Local Transmission Zone' approach** →
- **Mycoplasma pneumoniae spread, persistence and resistance. Lessons from a single urban area** →
- **Real-time Prediction of Respiratory Pathogen Infection Based on Machine Learning Decision Support Tool** →
- Granted a **US Patent** →
- Winner, **EU Horizon 2020 SME** ph. 1

The EDAS Benefits

- *Enable Tele-Diagnosis*
- *Test mass population in seconds*
- *Optimize tests efficiency*
- *Eliminate unnecessary GP visits*
- *Reduce antibiotics overuse*
- *Predict epidemic outbreaks*

Team

- **Guy Livne**
  Co-Founder & CEO
- **Gil Mildworth**
  Chief Business Officer
- **Prof. Ran Nir-Paz**, MD
  Chief Medical Officer
- **Arie Keren**, Ph.D., CTO
- **Gal Almogy**, Ph.D.
  Co-Founder & Research

Advisory Board

- **Prof. Nati Keller**, MD
  Ex. Director, Clinical Microbiology Dept, Shiba Medical Center
- **Mor Amitai**, Ph.D.
  Ex. President & CEO, Compugen
  CTO, iCarbonX

The Diagnosis Challenge

Most respiratory infectious diseases, including COVID-19, have similar symptoms, which makes it extremely hard for physicians to identify the specific pathogen to provide the right treatment. Accurate diagnosis today is done by molecular tests which require physical engagement with the patient, thus **cannot be supported by Tele-Medicine**.

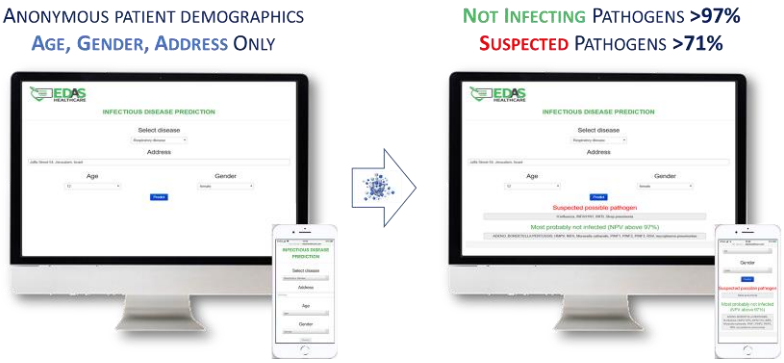
The first 24-48 hours are critical for optimized treatment, but primary care settings have almost **no means for accurate and affordable diagnosis** at the point-of-care, while Tele-Medicine services **lack a real way to diagnose and treat respiratory infectious disease.** This becomes a critical issue when in times of an outbreak such as the COVID-19. GPs at primary care clinics are constantly challenged with increasing their capacity to treat more patients while reducing the patients' wait times and avoiding unnecessary return visits.

The EDAS Solution

EDAS system is a unique infectious disease diagnosis decision support system, which can operate **at clinics or over Tele-Medicine**, has similar **accuracy** to lab tests, provides pathogen-specific results **in seconds** to the **full set of 14 common respiratory pathogens** and needs **no physical equipment or examination.**

EDAS system detects the specific respiratory pathogens, using our patented Epidemiology Transmission & Location-Based algorithms.

With only considering few inputs such as: the patient's age, gender and address, the system instantly predicts the potential disease causative agent and eliminates the non-infecting pathogens. **Our technology was clinically validated** at Hadassah Medical Center and with over 40,000 patients, providing consistent prediction levels over time.



The EDAS Technology

Based on over **8 years of research** by our founders, we focus on the transmission dynamics of pathogens in the urban and sub-urban spatial resolution scales. Understanding the dynamics of how pathogen spread is critical for the effective prevention and containment of communicable diseases.

Our Local Transmission Zone (LTZ) technology uses Machine-Learning algorithms to **track the epidemiology** of infectious diseases in the community and to **accurately diagnose** the causative agent of a specific patient at a specific time and location.