dascena

Better outcomes for patients, one algorithm at a time.

Get the **right intervention**, to the **right patient**, at the **right time**.

SOLVING YOUR UNMET NEEDS

Healthcare data is notoriously disorganized as the industry lacks the infrastructure to integrate the multitudes of clinical and molecular data it generates. Many diagnosis and treatment tools still rely on checklists and scorecards, under-utilizing the full richness of patient data already stored in Electronic Health Record (EHR) systems. These legacy processes can increase the burden on clinical teams and make it challenging to continue improving patient outcomes. Dascena can help.

ALGO IMPACT

Dascena uses machine learning to harness that data and build predictive algorithms to improve human health. Dascena's data platform and predictive algorithms provide workflow-integrated solutions for earlier disease detection. Dascena offers timely development with agile engineering

and data science integration. We have proven in multiple trials that AI can improve patient outcomes while reducing healthcare costs.

FIRST PRINCIPLES

We take a First Principles approach to developing predictive, precise algorithms, striving to build tools using only the minimum necessary features from data already available in the EHR – no additional specialized testing is necessary. Our platform is designed to integrate seamlessly in the clinical workflow, agnostic of EHR system, and can often operate in partial absence of data. In the future, imaging and genomic data will be incorporated into our algorithm design.

It's time for reality to catch up to the promise of machine learning in medicine. This means fully integrating available clinical data for improved patient outcomes – in clinical trials and at the bedside.

POWER OF THE PLATFORM — DASCENA CORE

Dascena's patent pending CORE platform enables widespread adoption of machine learning in healthcare.

- We leverage our aggregated numerous data sets to develop a robust pipeline of predictive algorithms with regulatory grade evidence and clinically validated data.
- Our algorithms integrate seamlessly into the workflow within complex clinical settings, from nursing homes to ICUs, providing alerts with insights in the forms desired by care providers.
- Our platform is designed to work with any EHR. We have proven experience with all major EHR providers, including Epic, Cerner, Meditech, Allscripts, and others.
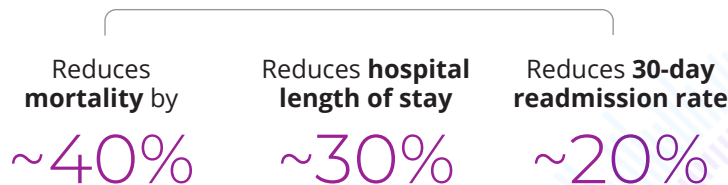

INSIGHT® — OUR FLAGSHIP SEPSIS ALGORITHM

InSight® is an algorithm that autonomously forecasts sepsis onset using only vital sign data. InSight® can detect sepsis hours before onset.

Validated in several clinical studies

Reduces **mortality** by	Reduces **hospital length of stay**	Reduces **30-day readmission rate**
~40%	~30%	~20%

THE ROAD TO PRECISION HEALTH

Dascena's algorithms have been validated by prospective studies, with results in 30+ publications and 4 clinical trials. Our results should give you the confidence to adopt our tools to enable precision medicine.

Are you ready to get started?

Contact us today at **contact@dascena.com**

DRIVING THE DEVELOPMENT OF A ROBUST PIPELINE

Dascena is building algorithms across many disease areas and use cases, and has experience in both developing and improving outcomes for Software as a Medical Device (SaMD). Currently, Dascena has two Breakthrough Device Designations (BDD) and one Emergency Use Authorization (EUA).

Pipeline indications:

- **COVID-19** (EUA)
- **Acute Kidney Injury** (BDD)
- **Gastrointestinal Bleed** (BDD)
- **Pulmonary Embolism**
- **Acute Coronary Syndrome**
- **Ischemic Stroke**
- **Acute Heart Failure**
- **Myelodysplastic Syndrome**
- **Nonalcoholic Steatohepatitis**

Disease areas with additional ongoing development:

- **Cardiovascular**
- **Metabolic**
- **Respiratory**
- **Renal**

APPLICATIONS

Inpatient	Algorithms to predict acute inpatient conditions
Outpatient	Algorithms to predict complications of chronic conditions
Therapeutics	Algorithms to match patients with the right drug