Droice Labs

Understanding

real-world clinical data

through AI

CORE TECHNOLOGY

Flamingo is Droice's natural language understanding engine based on over 5 billion patient notes. It structures and understands real world text from multiple clinical sources

The patient has no history of cardiopulmonary disease, but has a family history of diabetes (mother) and CAD (brother deceased). A week ago he underwent a total left hip replacement and, following discharge, was on bed rest for 3 days due to poorly controlled pain. He subsequently noticed swelling in his left calf, which is tender on examination. His current vital signs reveal a fever of 100.4°F (38.0°C), heart rate 112 bpm, BP 95/65, and an O2 saturation on room air of 91%.

Flamingo

Extracted concepts

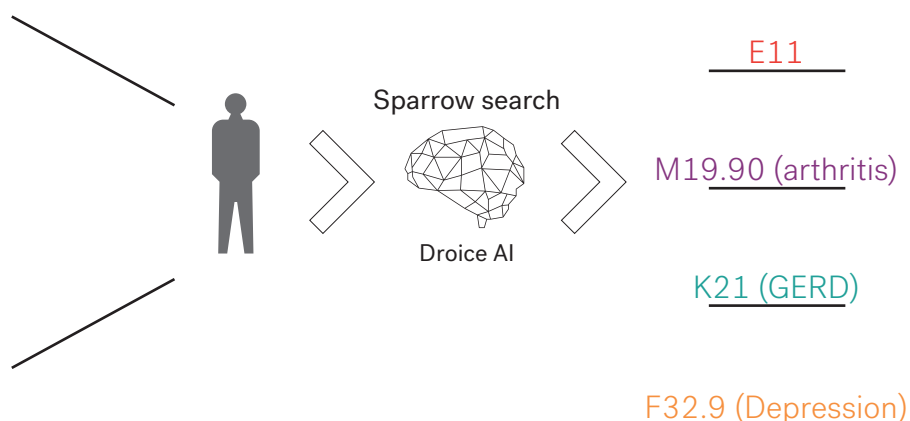| Diseases	Signs and Symptoms	Procedures	Measurements
▶ Cardiopulmonary disease	▶ Family history	▶ Left hip replacement	▶ 3 days
▶ Diabetes	▶ Sweling	▶ Bed rest	▶ 100.4 F (38.°C)
▶ CAD	▶ Left calf	▶ 02 Saturation	▶ 112 bpm
	▶ Fever		▶ BP 95/65
	▶ Heart rate		

DROICE SPARROW
CLINICAL DOCUMENTATION AUTOMATION

Automate clinical documentation workflow to decrease physician burnout and improve data quality.

Entering billing codes inside a clinical workflow is time-consuming and inconvenient. Based on the latest in medical AI, Droice Sparrow is an NLP/NLU service built that provides a real-time EHR-integrated workflow for doctors that automatically finds and records ICD-10 codes entered into a patient's EMR. Additionally, Sparrow provides value to administrators by offering a suite of analytical tools for diagnosis data recorded in patients' EMRs.

The patient is a 73 yo female with a history of DMII, GERD, arthritis, depression who was found down in her bathroom this morning. With the fall she sustained a left eyebrow laceration with pain in her head. Per report, she was unable to recognize staff members at the time. Collar was placed. Of note, she reportedly developed

age: 56
sex: male
icd: 125.1
visit_id: A439
patient_id: 395
visit_date: 9/10/2018p

Sparrow search

Droice AI

Applicable ICD Codes

E11

M19.90 (arthritis)
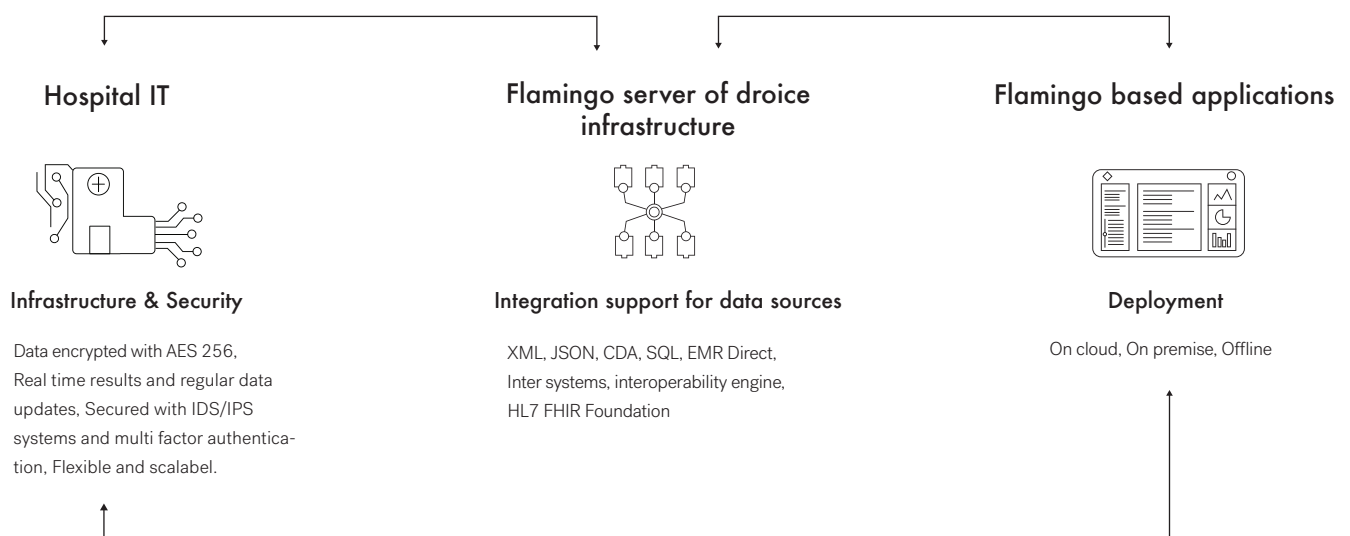
K21 (GERD)

F32.9 (Depression)

INTEGRATIONS AND COMPLIANCE

Our products affect millions of clinical decisions every day

We have partnerships with major healthcare IT vendors and have live integrations with several massive Integrated Delivery Networks (IDNs), HIEs, EMR companies and other medical technology setups in both USA and Europe. We are stack agnostic, that is, we work with most data formats used in the healthcare industry. Our data lakes, servers, repositories, and other IT infrastructure are state of the art and complies with every relevant piece of regulation of the land. Let's get started.

Hospital IT

Infrastructure & Security

Data encrypted with AES 256, Real time results and regular data updates, Secured with IDS/IPS systems and multi factor authentication, Flexible and scalabel.

Flamingo server of droice infrastructure

Integration support for data sources

XML, JSON, CDA, SQL, EMR Direct, Inter systems, interoperability engine, HL7 FHIR Foundation

Flamingo based applications

Deployment

On cloud, On premise, Offline

<\>XML GDPR { JSON } HIPAA COMPLIANT InterSystems Health | Business | Government HL7® FHIR® SQL

---

www.droicelabs.com   Twitter:@droicelabs   Phone: +1 (917) 399-7086   Email: hello@droicelabs.com