Dedalus

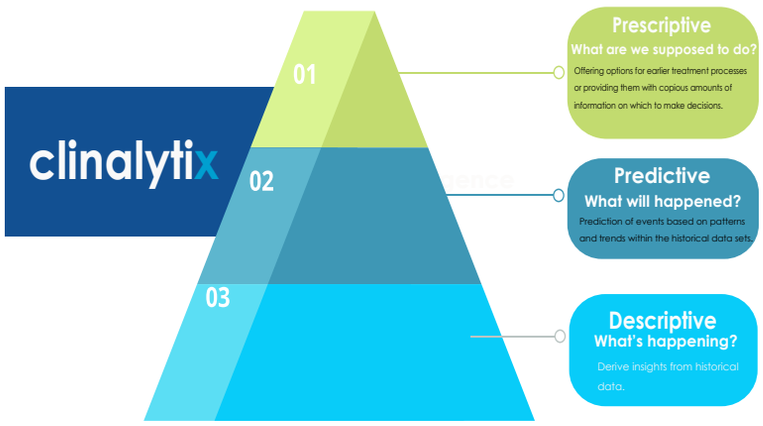
CLINALYTIX

Artificial Intelligence for Prediction and Prevention

FOCUS

Clinalytix serves as decision support for doctors, nurses, and intervention teams!

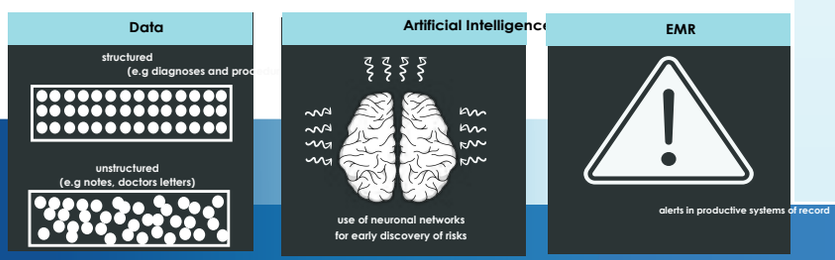
The Artificial Intelligence and Business Intelligence pyramid



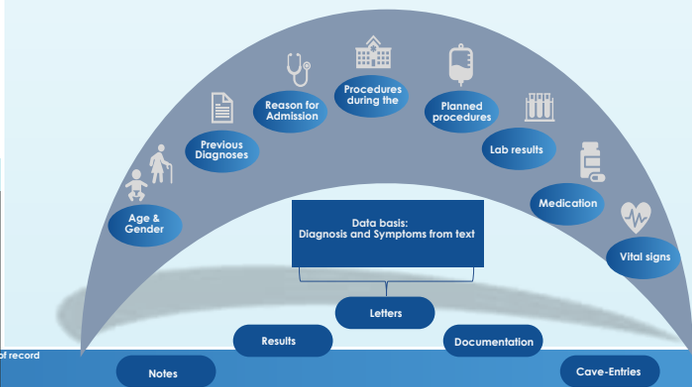
Business Intelligence	Advance Analytics & AI			
Stand Alone BI	Advance Analytics		AI	
Dedalus clinalytix Medical AI	clinalytix Investigative	clinalytix Research AI	clinalytix Medical AI	clinalytix Operational AI
Analytics capabilities for Dedalus products and regions **Product approach:** standard dashboards (verticles) **Project approach:** customer specific dashboard	**Analyze medical data** in an exploratory way	**Perform research** on medical data	**Prediction** of unwanted events (delirium,sepsis, acute kidney injury)	**AI that supports operational processes** and planning optimization
	clinalytix Framework Internal use - not sold as product **Technical framework** for Dedalus AI/ML/NLP and integration of partner AI (eg. Imagine AI)			

Artificial Intelligence

- **Use of AI for the early identification of unwanted events during treatment process**
- **Models for delirium and sepsis risk prediction**
- **Registered as a Class I medical device**



Training of the Model
Data Basis



Dedalus
clinalytix Medical AI

THERE'S A BETTER WAY TO PREDICT UNDESIRED EVENTS

Clinalytix Investigative

: is a Big Data capable investigative intelligence solution which provides evidence-based insights, on both populations and individuals, that can be used to deliver improved care.

Product Capabilities

- Create and share dashboards and reports.
- Visualize both aggregated and detailed information.
- Monitor and manage Key Performance Indicators (KPIs).
- Investigate and discover patient cohorts based on a mix of inclusion and exclusion criteria.
- Clinical tagging to simplify searching and filtering operations.
- Disease staging to classify conditions based on risk or severity levels
- Healthcare Standards: HL7 FHIR (Fast Healthcare Interoperability Resources), OMOP (Observational Medical Outcomes Partnership) codes

Clinalytix Medical AI

Product Supports Predictions

: supports the treating physician in detecting patients at risk of a set of clinical complications, to allow prompt prevention and/or early treatment, therefore avoiding these complications and their healthcare-associated costs.

- Delirium,
- Sepsis,
- Acute Kidney Injury (AKI)

Clinalytix Research

: research aims to guide the research users in conducting a complete research analysis by using well-documented and explanatory templates that can serve as a reference for conducting custom clinical research. The main goal of the product is to systematize the execution of the analyses with a step-by-step approach.

Product Capabilities

- Survival Analysis: Statistical analysis of the time from when the target population enters the cohort until the outcome event of interest occurs.
- Cluster analysis: Grouping of patients with similar characteristics.
- Identification of risk factors: Identification of risk factors related to the outcome of interest in a period.
- Persistence and adherence: Estimation of the persistence and adherence of the drug of a population group
- Patient trajectories: Describes the sequence of clinical events a patient goes through over a period.
- Medication change analysis: Describes the sequence of treatment a patient received over a period.

What makes our AI solution unique?

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