

Clinical Management with Amalfi Analytics

Why Amalfi Analytics?

Managers of healthcare institutions devote more and more of their time to analyzing information to manage. This task is carried out with tools such as scorecards with Business Intelligence (BI), but the indicators are partial and provide only inadequate retrospective information for planning. In addition, they are one-dimensional and do not allow to see the multiple relationships that define chronic and complex disease.

What do we do?

Amalfi offers tools for clinical management decision making. With powerful Machine Learning algorithms, our products generate prospective analyses to predict and anticipate events.

Our modules can be combined according to the needs of analysis, both at territorial and healthcare center levels. The different modules allow:

- Discovery of patterns of patient health problems.
- Analysis of population mobility in a territory and use of resources.
- Analysis of temporal evolution of patients in the form of trajectories.
- Reduction of waiting times in emergencies.
- Hospitalization and readmission risks.
- Absenteeism prediction.

Features

- Technology developed from actual requirements of clinical managers.
- Platforms focused on the unsolved problems of clinical management, and oriented to cost-benefit analysis.
- Incorporate the latest techniques in Machine Learning and Big Data.
- Analysis adapted to the organization's data: Real-world data.
- Discover complex associations that classical statistics and BI do not allow analyzing.
- Scalable to large volumes of data.
- Speed of execution and interactivity.
- Open platform: Customizable to the needs of each organization.
- Minimum Database requirement – use data already available routinely for the scorecard.
- Very intuitive to use.
- Minimum intrusiveness in existing IT systems.

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Benefits

Our tools offer the overall vision, which allows you to evaluate alternatives, and therefore are ideal for clinical management decision making:

- Faster to obtain conclusions: the manager herself explores and visualizes the data and her intuitions. Facilitates collaboration and sharing of discoveries.
- Discover unwanted variability in therapeutic patterns. Improved protocolization.
- Rationalize polymedication.
- Reduce waiting times and risks in emergencies.
- Minimize readmissions.
- Prevent costs due to absenteeism, and perform better staff provisioning.
- At the territory level, facilitate the distribution of resources and the development of health plans, as well as supporting the community approach.

Some figures: 10% reduction in chronic disease care expenditures, 30% of patient referral timeouts, 10% in readmission rate, and up to 20% on unnecessary medication. Very noteworthy reduction of 80% of technical analyst time. Return on investment in less than 1 year.

How does it work?

Amalfi uses proprietary Big Data tools and methodologies, developed in a leading research group of the UPC, Barcelona.

Our products help in specific areas. They are independent, but combinable:

- ANIS: Analysis of patterns of health problems in complex patients.
- ALOE: Territorial management; mobility and resource use.
- APIS: Optimization of flows and reduction of risks in emergencies.
- ROSE: Hospital readmission prediction.
- ARUM: Prediction and management of absenteeism.
- MINT: A marketplace for hospital beds.

Depending on your needs, we jointly define the modules that your organization will need, analyze the available data sources and how they will be used, and activate the service in the cloud. Alternatively, you can deploy the solution locally or in your private cloud.

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The standard implantation protocol includes:

- Initial session with the system team, to support data extraction.
- Basic support of the team for installation/activation.
- Half-day training of users.
- Change management (optional, according to impact).
- Corrective maintenance and technical assistance.
- Evolutionary maintenance (according to contract).

Some of our projects:



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