CONTINUUV SANTÉ·HEALTH

Performance & Analytics Solutions





"DATA SHOWS 87% OF ORGANIZATIONS HAVE LOW BI AND ANALYTICS MATURITY"

GARTNER, 2018



Our commitment

We create integrated analytics solutions that can support a broad range of uses. To improve their analytics maturity, data and analytics leaders should consider integrated analytics platforms that extend their current infrastructure to include modern analytics technologies.



ABOUT US

Next Generation Performance Analytics Solutions

Proud member of the Canadian Centre for Innovation

Logibec

Largest Healthcare IT Company Based in Canada

Since 1982, Logibec has emerged as a clear leader in the Canadian Healthcare IT market by providing administrative,

clinical, and performance software solutions to healthcare facilities across Canada.



340,000
healthcare employees in Canada supported by Logibec systems

36

years of

Healthcare IT

experience

offices across Canada, HQ in Montreal

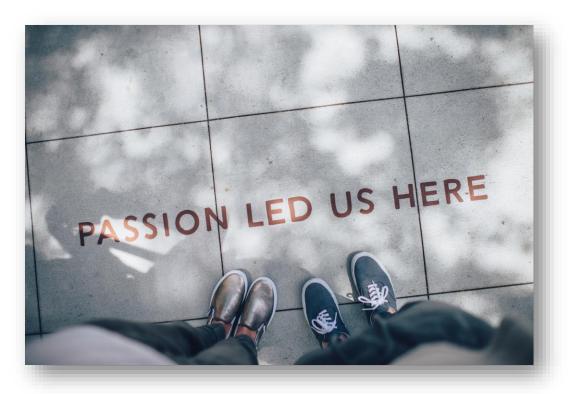
430+
employees
including
190+
in development

220+
clients within 7
provinces across
Canada

215
R&D experts
at Logibec

Who are we?

Continuum Health is a leader in advanced analytics, data, dashboards and performance solutions for healthcare facilities.

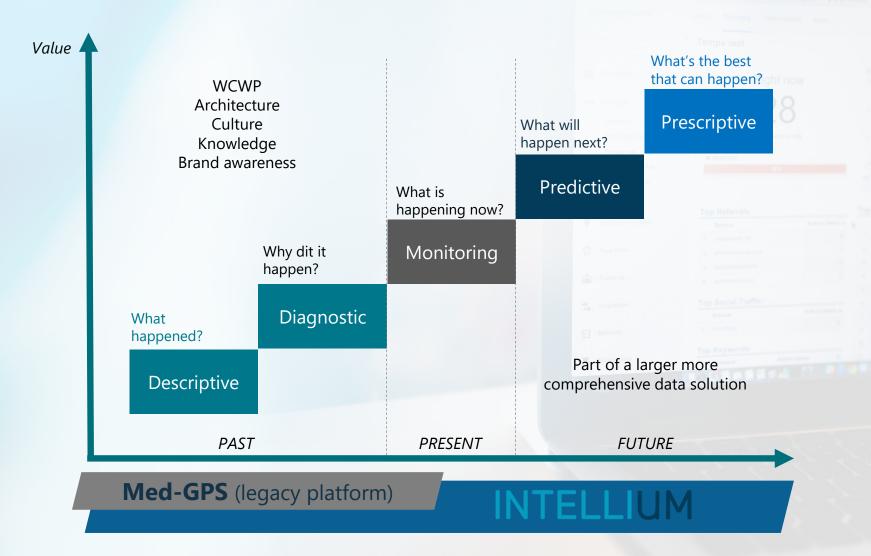


At Continuum Health we want to create **innovative IT solutions**, bringing together brilliant, inspired and creative people.

We commit ourselves everyday towards one purpose, which is to improve the quality of life of patients and healthcare professionals alike.

THE SPECTRUM OF ANALYTICS CAPABILITIES AND MARKET

Analytics capabilities are evolving quickly in the market, from descriptive to a future state in the areas of predictive and later prescriptive. As complexity increases, greater client value is derived from powerful insights.



CONTINUUM Data at your service SANTÉ·HEALTH



Accessibility

Data at your service Information at your fingertips



Achieve

Solutions Embedded Support

Understand your data



Autonomy

Power BI

Free to explore and exploit your data

Direct Access Data Warehouse



Continuum Core & Intellium – Leveraging data to your advantage

INTELLIUM Microsoft Azure

Next generation performance analytics solution



Clients, Data Sources & Solutions

CONTINUUMCORE

Walking through patient's trajectory

Operating room



Bed Management & ADT



Laboratory



Pharmacy



Imaging services

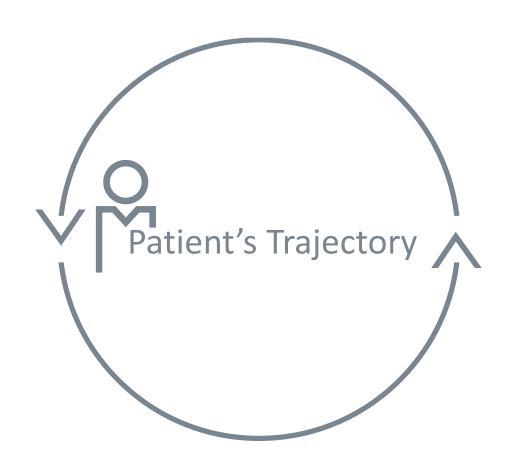


Infection



Emergency Department







Purchase, Stores and Inventory Management



Collections and Refunds;
Receivable Accounts



Billing & Pricing Management



Incident/Accident



Financial and Accounting System



Ambulatory Clinics



Readaptation Services



Master Patient Index

INTELLIUM FEATURES



Real-time data On demand









Clinical relevance



CONTINUUMCORE



Benchmarking



Cost per patient

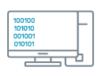




Self-Serve BI (Dashboarding / Reporting)



Patient's trajectory



Data quality

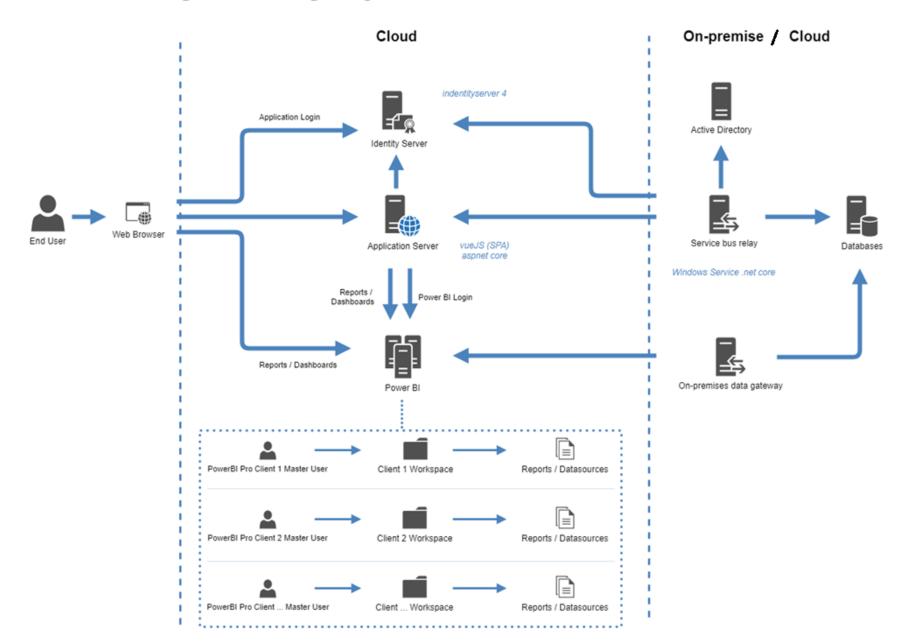


Community of best practice

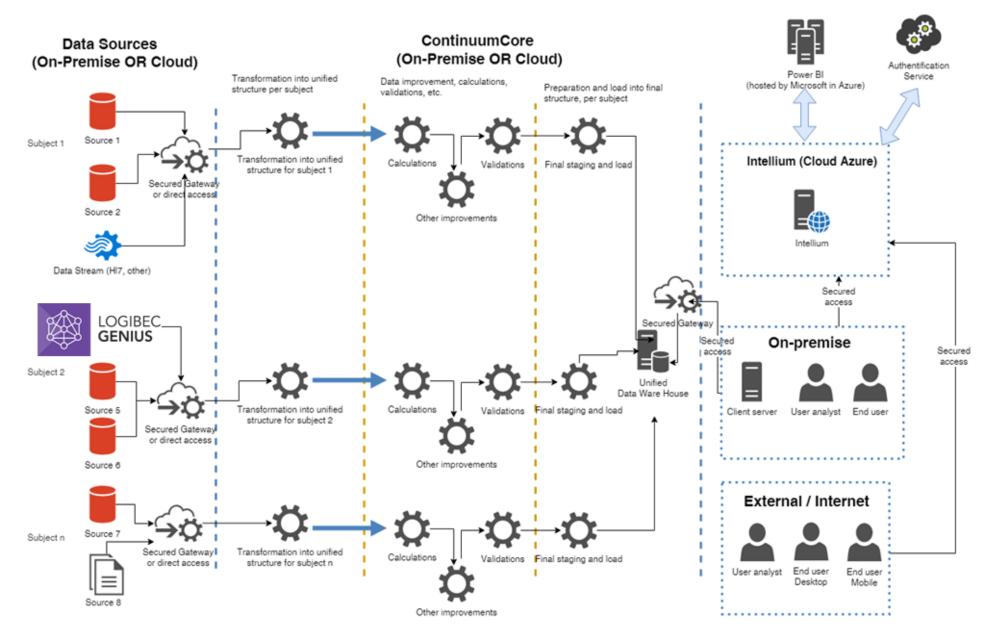


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INTELLIUM ARCHITECTURE



SOLUTION ACHITECTURE





With us, your data becomes a strategic advantage

VALUE PROPOSITION

7 Visualization

Flexible visual allowing concerned parties to see only the relevant information.

Business Intelligence
Allows you to understand information that is relevant to you.

Autonomy

A flexible and scalable solution allowing you to control the way information is presented, at all times.

Anonymization

An essential tool to the storage of personal data.

7 Security

A model that is adapted to the needs of the healthcare industry.

Data Integration

Standardization and validation of multiple sources data.

Data Collection

From all sources and all combined under one same roof.

INTELLIUM

A **turnkey** cloud solution

Flexibility

No need for on-site infrastructure.

Tools

Includes unlimited use of Power Bl.

Mobility

Allows accessibility from anywhere, at any time.

Peace of mind

Security built on healthcare system realities.

Integrity

Connects to any data sources & centralizes information under one roof.

Evolution

Platform in constant iterative evolution & we provide possibility of partnerships to grow with your needs.

Adaptedness

Comprehensive and customizable platform adapted to the realities of the health network.

Support

Real-time support through live chat.



CONTINUUMCORE

A **flexible** datawarehouse with **modern data**

Real-time analytics leveraging the entire continuum of care.

Can be cloud or on-premise.

User-friendly

Agnostic data models that are easy to consult via the same schema regardless of the source.

Provides users with access to standardized data for better decision making.

100+ of connectorsMore than 100 developed and readily available connectors.

Direct access to the data warehouse.

Proactive

Embedded data quality validations (700+) & proactive alert system for potential problematics.

Simplified Information

Optimal understanding of information management through comprehensive, documentated and denormalized views to circulate in the data universe and make it easy for non-technical users.

CUSTOMER INTEGRATED DEVELOPMENT PROGRAM (CIDP)

Support Development of Enhanced Performance and Analytics Platform

PHASE 1 – REQUIREMENTS GATHERING

Logibec Product Strategy and Development teams will meet with CIDP member organizations to define the functional requirements of the enhanced platform.

PHASE 2 – REQUIREMENTS ANALYSIS

Logibec Product Strategy, Business Analysts and Development will analyze the requirements and document the development plan.

PHASE 3 - PRODUCT ROADMAP AND IMPLEMENTATION PLAN

Logibec Product Strategy, Professional Services and Development will deliver a fully formed product roadmap and implementation plan that details delivery, effort and timelines – enabling you to make a go/no-go decision quickly. Our objective will be to rapidly deploy the existing performance and analytics platform and support a rapid deployment of enhanced and new features based on the requirements gathered in Phase 1.

PHASE 4 – DELIVERY OF FUNCTIONALITY TO THE CLIENT

During the development phase, the client will be directly involved in testing and ensuring the solution really answers his needs. Once the Q&A of the solution is complete, it will be deployed to the client.



Performance Management ROI

3 months

Review revenue-generating process

• Worker's compensation revenue optimization

6 months

Increase productivity
Cost savings from medical supply optimization

Review the clinical process and flow of high cost users Review the clinical performance of outpatient activities Review readmission rates and clinical variations Cost Management & Revenue Optimization

\$140M budget Health Organization, Quebec \$100K

Operational Management

\$786M budget Health Region, Saguenay-Lac-Saint-Jean, Quebec

\$830K

12 months

Population Health Management

\$134M budget, Health Organization, Chatham-Kent Health Alliance, Ontario \$1M

Case Study (3 Months): Workers Compensation Revenue Optimization

\$140M budget healthcare organization, Quebec

Context

Properly coding payment liabilities is an important step in ensuring Hospitals are receiving the revenue they are entitled to for treating patients that have had at-work incidents.

Process

Using Continuum Solutions, a reconstruction of all episodes of care linked with a worker's incident ensured billing processes were done properly and fully. Information such as imaging, laboratory, etc. is easily retrieved for appropriate billing.

Results

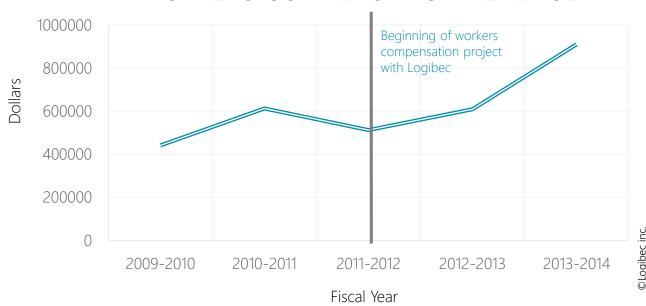
Implementation of new processes regarding workers compensation revenue recognition was put in place in order to maximize future revenue of this nature.

Cost Management & Revenue Optimization



Additional revenue gained within the first 3 months of the project

WORKERS COMPENSATION REVENUE



Case Study (6 Months): Optimization of Ophthalmology Services

\$786M budget Health Region, Saguenay-Lac-Saint-Jean, Quebec / SACRÉ-COEUR Hospital

Context

The need for cataract operations significantly increased in the province of Quebec due to its aging population. The Saguenay region has seen a 38% increment of procedures in 2 years.

Strategy

Logibec was mandated to perform an extensive analysis of the current services in place, patients' journey and levels of clinical and financial performance for the cataract procedure with the use of Continuum solutions.

Results

Cost-saving and service improvements were delivered:

- Standardization of operating room resources and supplies used
- Centralization of cataract operations from 4 to 2 sites

\$247K

Standardization Estimated cost savings \$583K

Centralization
Estimated cost savings

Case Study (12 Months): Implementation of a High User Management Model

\$134M budget, Health Organization, Chatham-Kent Health Alliance, Ontario

Objectives

To improve care provided to the chronically ill, find a strategy to connect efficiently with primary care providers and ensure a strong linkage with the community.

Supported by the Continuum solutions, CKHA ROI

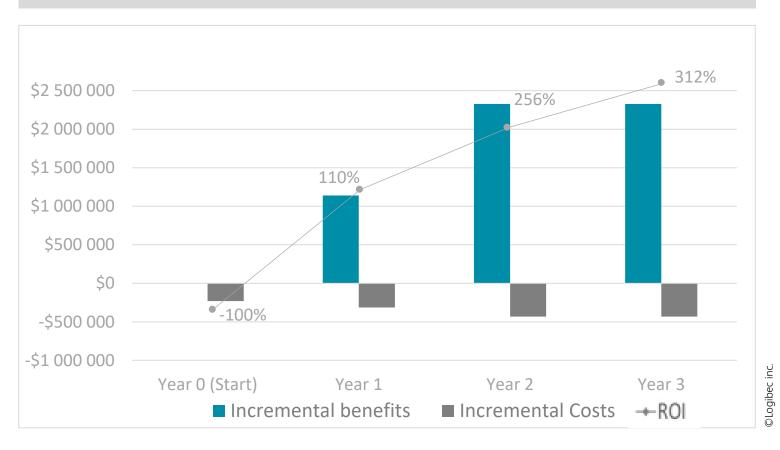
- Improved patient quality/end of life;
- Bed days decreased by 19%;
- ER visits decreased by 34%;
- Avoided costs of \$1 M.

A positive ROI of 48%, meaning that returns are superior to costs.

Population Health Management

Projected ROI of a High User Management Program

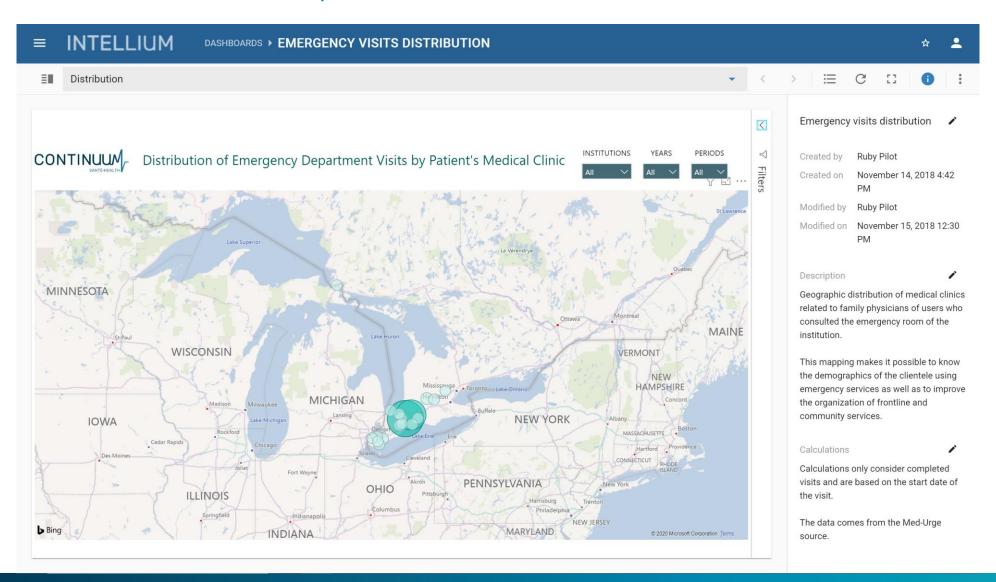
Scenario: 25% reduced inpatient days for HU with 3 or more admissions, and 50% reduced ED visits for HU with 3 or more admissions AND 5 or more ED visits





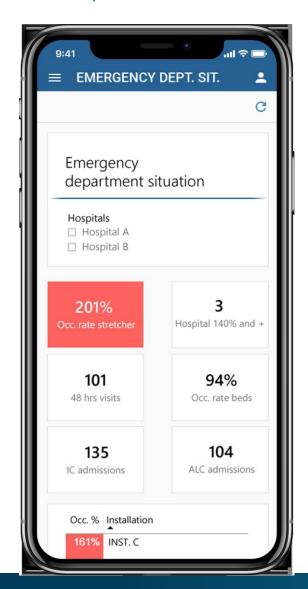
Intellium – Emergency Visits Distribution

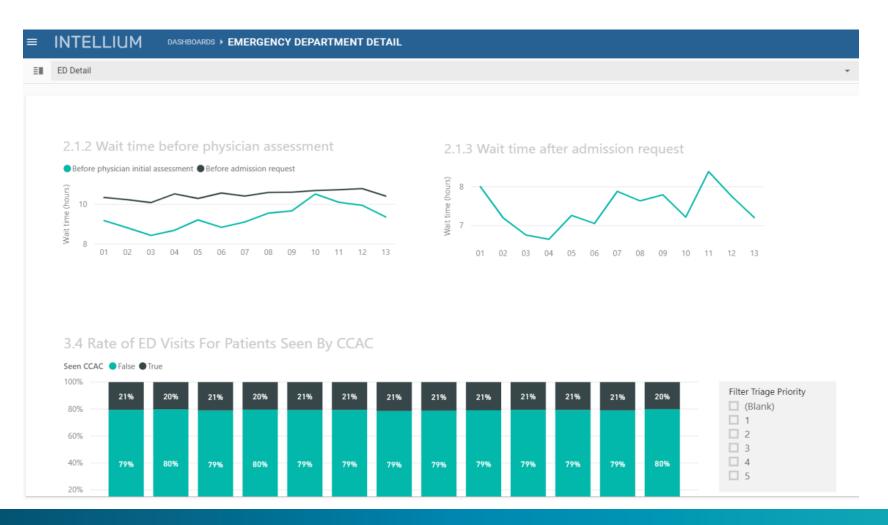
This dashboard shows the demographics of patients using emergency services, allowing the improvement of the organization of frontline and community services



Intellium – Overview: real-time ED situation

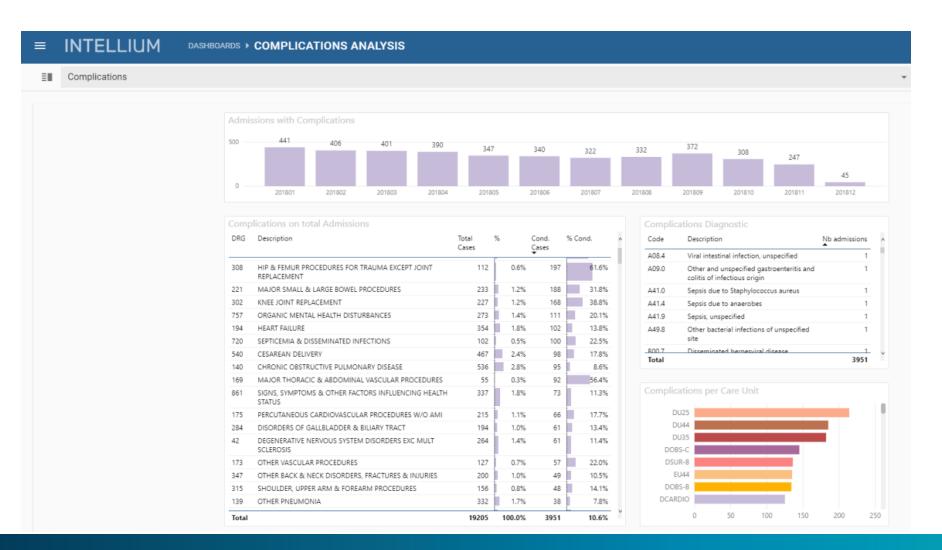
Real-time information provided anytime and on any device to have a complete overview of the emergency department situation and make quick decisions





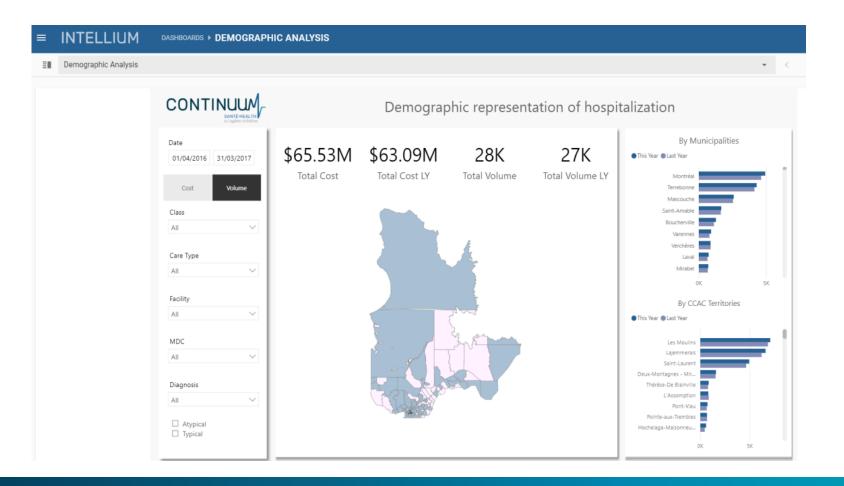
Intellium - Complications analysis

Indicators set analyzing postoperative infections, accident, and complications during the hospital stay. Because complications and infections can be very closely related to an increasing length of stay, this is a key indicator in care / process management. KPIs are built in to alert you when exceeding literature accepted standards.



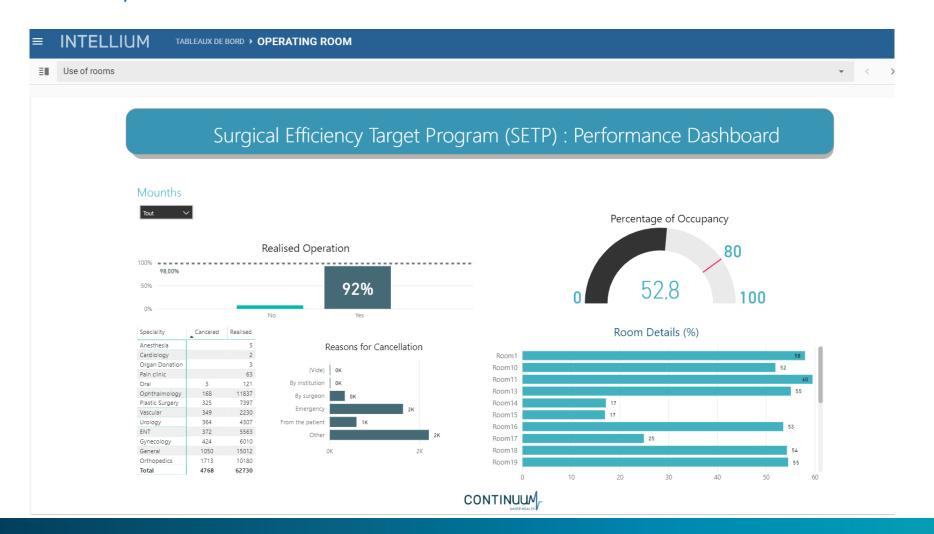
Intellium – Hospitalization by geographical origin; Demographic Analysis

These dashboards provide a geographic representation of hospitalization volumes. It makes it possible to target the geographical origin of patients according to several criteria such as age, diagnosis-related group, etc. It is also possible via this indicator to target the distribution of the customers as a function of the territory served by the hospital.



Intellium – Operating room

Indicators showing the use of the rooms by month, by specialties, with the rate and reason of cancellations. It allows users to evaluate the efficiency of rooms and the planning of operations by month or period of the year.



Intellium – Readmission rate

An overview of the readmission rate of your healthcare establishment comparing actual and previous years, as well as by clinical domain



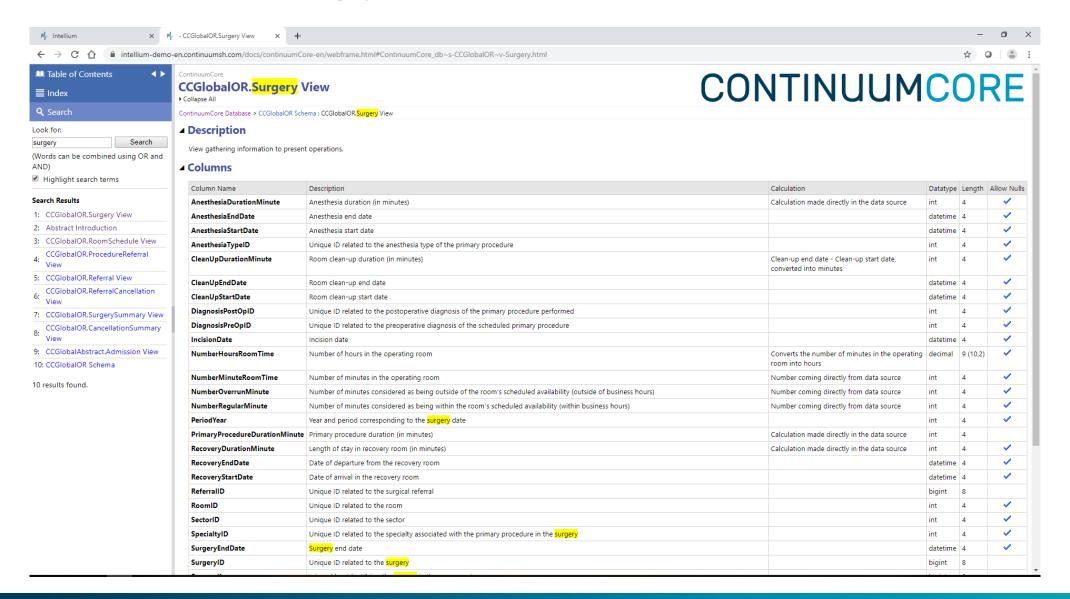
Intellium – Comparison of surgical unit practices by physician

Indicators allowing to target the volumes of operations, the durations of intervention as well as the returns by surgeon. This report compares practices by specialty, intervention and surgeon. It summarizes the information related to the surgical practice as well as the care of the patients externally. It is filtered by surgeon to allow doctors to evaluate their own performance in comparison with their peers of the same specialty. It evaluates the quality and effectiveness of management, use of the operating room and external services and correlates the presence factors in the operating room and outpatient.

Selection Specialty: 32 - Ophthalmology								SANTÉ-HEALTH
Surgeon: RAOUL Montmagny								
General preview				Top procedures				
Surgeries	Specialty	Surgeon	Surgeon / Specialty	Excision cataract phacoemulsification eye	Specialty	Surgeon	Surgeon / Specialty	
 Number of completed surgeries 	246	83	33.7 %	Number of completed surgeries	238	82	34.5 %	
Week	173	56	32.4 %	On the surgeon's total surgeries	250	98.8 %	3-3 %	
Weekend	73	27	37.0 %	Average OR time	0h26	0h21	-19.2 % ①	
Number of cancelled surgeries	3	1	33.3 %	Average procedure time	0h00	0h00	N/A ①	
Percentage of cancelled surgeries	1.2 %	1.2 %	-1.2 % ③	Procedure time/OR time	0.0 %	0.0 %	N/A ①	
				Average estimated time	0h38	0h33	-13.2 % ①	
Operating room utilization	Specialty	Surgeon	Surgeon /	OR time/Estimated time	68.3 %	64.0 %	-62% ①	
			Specialty	Average number of nurses	2.8	3.0	7.1% ①	
Total OR time used	107h48	29h08	27.0 %	Average length of stay (days)	0.9	0.9	0.0% ①	
Total procedure time	0h00	0h00	N/A	Average length of stay (outy)	0.5	0.5	0.0 %	
Procedure time/OR time	0.0 %	0.0 %	N/A ①				Surgeon /	
Average opening time	N/A	N/A	N/A ①	Procedure 1449	Specialty	Surgeon	Specialty	
Average number of nurses	2.8	3.0	7.1 % ①	Number of completed surgeries	1	1	100.0 %	
				On the surgeon's total surgeries		1.2 %		
Hospitalization	Specialty	Surgeon	Surgeon / Specialty	Average OR time	0h15	0h15	0.0 % ①	
Average length of stay (days)	0.9	0.9	0.0 % ③	Average procedure time	0h00	0h00	N/A ①	
Average severity	1.0	1.0	0.0 % ③	Procedure time/OR time	0.0 %	0.0 %	N/A ①	
Average RIW	N/A	N/A	N/A ①	Average estimated time	0h11	0h11	0.0 % ①	
Admissions with complications / infections	0	0	N/A	OR time/Estimated time	136.4 %	136.4 %	0.0 % ①	
Admissions with postoperative complications	0	0	N/A	Average number of nurses	3.0	3.0	0.0 % ①	
Returns to ED within 0-7 days	6	1	16.7 %	Average length of stay (days)	0.7	0.7	0.0 % ①	
Urgent readmissions <= 30 days	4	1	25.0 %					
Urgent readmissions <= 30 days with postoperative complications	0	0	N/A					
General Medical Imaging and	Specialty	Surgeon	Surgeon / Specialty					
Ambulatory Activities								
Ambulatory Activities Consultation average (AC 6302)	N/A	N/A	N/A ①					

ContinuumCore - Online documentation

Field by field documentation, business area graphic schemas, search function.



For Information

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