Boston Scientific | ADVANTICS™ Innovative Healthcare Solutions

CASE STUDY – ADVANTICS™ Operational Productivity with ezPro

Driving Sustainable Operational Productivity at AOU di Modena Through Digital Supply Chain Management with ADVANTICS™ ezPro

Insights. Collaboration. Impact.

Advancing partnership for better outcomes



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EXECUTIVE SUMMARY



Client

AOU di Modena, Italy

42,944 inpatient admissions

8,388 day-hospital admissions

4.7+ million outpatient services

31,000+ surgical procedures

Challenges

1. Fragmented, manual supply chain processes
2. Inefficient product management and operations
3. Growing pressure to modernize and optimize resources

Deployed Solutions

ADVANTICS™ Operational productivity with ezPro

- integration of ezPro across all supply chain steps
- \+ enablement of the FPP model
- \+ automation of replenishment orders

Impactful Outcomes

80% REDUCTION in time spent generating purchase orders for BSC products

50% REDUCTION in supply chain management effort

74% REDUCTION in replenishment orders

About the Hospital

AOU di Modena is a leading university hospital organization composed of the Policlinico di Modena and the Ospedale Civile di Baggiovara. With over 50 years of history, it is a key healthcare reference point in the Emilia-Romagna region, combining high quality patient care, advanced clinical practice, education, and scientific research. As a large, highly specialized multisite network, AOU Modena operates 1,108 hospital beds, employs 4,170 staff, and manages significant clinical activity with 42,944 inpatient admissions, 8,388 day-hospital admissions, more than 4.7 million outpatient services, and over 31,000 surgical procedures per year. It also stands out for continuous investment in innovation and digital transformation, including its role as an AIFA-accredited Phase I clinical trial center.





Customer Challenges

AOU di Modena faced significant inefficiencies due to manual, fragmented management of biomedical products and supply chain processes. Replenishment orders, purchase orders, inventory activities, and procedural usage tracking were handled through paper-based, nonintegrated workflows, resulting in high administrative workload, overlapping responsibilities, limited visibility of stock, and a greater risk of errors.

Before the partnership, both purchased and consignment products were managed through separate manual processes, generating a high number of replenishment orders and prolonged handling times for staff.

The challenge became a priority as the hospital faced growing administrative pressure, the need to optimize limited staff resources, and increasing requirements around cost control, traceability, and digital procurement. Traditional methods were no longer sufficient, especially with the shift toward Fee Per Procedure (FPP) models and broader expectations for digitalization.

Environmental and economic pressures added urgency and previous approaches lacked automation and real-time visibility, making it impossible to manage complexity efficiently or support the hospital's evolving needs.

Deployed Solutions

BSC implemented the ADVANTICS™ Operational productivity with ezPro digital solution to fully support and optimize the endoscopy supply chain. Key components of the deployment included:

• Integration of ezPro across all supply chain steps, including warehouse management, replenishment and purchase orders, and procedural product tracking.

• Enablement of the FPP model, working alongside consignment stock to streamline purchasing and usage tracking.

• Automation of replenishment orders, significantly reducing manual entry and administrative effort.

• Full traceability of products and procedures, enhancing visibility and compliance.

The solution was rolled out through close collaboration between BSC, the ENDO division & HS&P, and AOU Modena's clinical, administrative, and warehouse teams. The implementation followed a phased strategy:

PHASE 1
Baseline Analytics

Initial analysis, platform setup, configuration, and staff training

PHASE 2
Fee Per Procedure

Go-live for FPP related workflows

Dec 2022 – Jan 2023

PHASE 3
Expansion

To warehouse management and replenishment workflows

Sept 2023

PHASE 4
Automation of replenishment orders

Integration with the regional procurement system (ezGAAC) to enable automatic purchase order transmission

April 2025

Impactful Outcomes

The implementation of the ADVANTICS™ Operational productivity with ezPro solution brought clear, measurable, and qualitative improvements to AOU di Modena. The hospital saw a major transformation in its endoscopy supply chain, with manual, fragmented workflows replaced by standardized, digitized, and automated processes. This shift significantly improved coordination between clinical, administrative, and warehouse teams, reducing complexity and streamlining day-to-day operations.

The deployment of ezPro delivered measurable improvements:

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Operational Impact

80% REDUCTION in time spent generating purchase orders for BSC products

50% REDUCTION in supply chain management effort

74% REDUCTION in replenishment orders

The project generated several unexpected benefits, including the elimination of costs related to expired products, a reduced environmental impact due to fewer replenishment orders and shipments, and strengthened digital readiness thanks to seamless integration with the regional procurement system.

These improvements not only optimize current operations but establish a scalable, future-ready model that supports sustained value across clinical, operational, and economic dimensions.

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