



RESEARCH SOLUTIONS

MEDICAL DEVICE CASE STUDY

Leveraging Connected Platforms To **Accelerate & Optimize** **Clinical Evaluations**



Executive Summary

A global market leader in esthetic dentistry has successfully implemented Research Solutions' Article Galaxy and Curedatis platforms to digitize their literature-dependent processes and leverage AI capabilities to stay ahead in a rapidly evolving industry. This implementation has improved efficiency, productivity, and employee performance, as well as facilitated cost savings and smarter resource allocation.

They plan to continue harnessing the power of these platforms for their clinical evaluation requirements. This demonstrates that tools, technology, and teamwork are essential drivers of success in the medical device industry.

Key Stats

30% Time reduction

...per literature search project including collection, screening, extraction, and appraisal of literature while conducting a systematic literature review for the clinical evaluation

17-23 Hours saved

...per project (depending on complexity)

Embracing Digital Transformation

Before implementing Research Solutions' platforms, there was no common tool for literature management at their organization. With this limited transparency, duplicate article purchases, and numerous individual subscriptions were the rule, resulting in significant double expenditure. Additionally, their teams were burdened with time-consuming tasks such as manual data entry and decentralized data management, leading to potential human errors.

By adopting cutting-edge tools such as Article Galaxy and SaaS platforms, they aim to equip their teams better and foster a digital transformation mindset deeply ingrained in the company culture. This innovative approach, driven by leadership buy-in and embraced throughout the organization, breaks away from traditional thinking and propels the company forward.

Innovative Solutions To Boost Efficiency

To avoid costly redundancies and establish a shared digital platform across different entities of the company, they implemented Research Solutions' Article Galaxy solution. Then, looking to digitize their literature screening processes as well, Curedatis was introduced as a connected solution for the Clinical Evaluation Team, with plans to extend its implementation to other entities.

Building on the high trust established with Research Solutions' Customer Support regarding Article Galaxy, their quick response and exceptional service facilitated a seamless digital transformation, allowing the organization's teams involved to get up and running swiftly and effectively.

By integrating the Article Galaxy and Curedatis platforms into their literature-dependent teams workflows, they quickly enjoyed the advantages of:



Centralized data;



Accelerated access to scientific articles; and



Intuitive, user-friendly interfaces.

Their team was also able to reduce the reference screening burden and optimize data extraction and appraisal.

“The connection between **Article Galaxy & Curedatis** allows our Clinical Evaluations team to reclaim valuable time, streamlining cumbersome processes and eliminating the need for multiple platforms.”

Clinical Evaluation Specialist

Recognizing the importance of extending access to these platforms to other teams, the organization also acknowledged the benefits of billing efficiency and flexibility. With over 50 ongoing projects and a steady increase in project numbers, a billing system based on the number of users rather than projects proves advantageous. This is vital for long-term growth, as it allows for the cost of utilizing software to be distributed among various functional entities as necessary.

A Long-Standing Development Partnership

At Research Solutions, one of their core missions is to innovate so their customers can achieve more. Their dynamic solutions are designed to better serve researchers and drive innovations. They are open to development suggestions and regularly integrate customer feedback. The organization was among the first customers to help shape the platforms, contributing their feedback and supporting the greater research community.

Additionally, Research Solutions continuously works with notified bodies and collects their critical feedback as cornerstones of regulatory compliance and data quality. Their impact on the Article Galaxy and Curedatis solutions was a major point of consideration for them in selecting these solutions.



Impact Of AI

Stemming from the digital transformation mindset of the organization, their users of Article Galaxy and Curedatis are early adopters of the platforms' AI advancements.

The use of AI capabilities, such as PICO terms in Curedatis, has been a significant factor in improving literature-dependent processes. These capabilities offer instant key term highlighting, and the organization has plans to implement full-text screening. Article Galaxy's ChatGPT integration, which provides AI-generated summaries and serves article recommendations, has facilitated more informed article purchasing decisions.

By utilizing these features, they demonstrate the potential for AI to facilitate workflows and increase their effectiveness driving improved outcomes.

By The Numbers: Measuring Success

Since the implementation of Article Galaxy and Curedatis, the company has seen several notable improvements.

Time Saving & Productivity

With a library size of more than 14,000 PDFs, fast access to publications and one clear, centralized location for all those publications is crucial to save valuable time and keep track of inventory.

With Article Galaxy and Curedatis, they have achieved a significant **30% reduction in preparation time of reports**, resulting in impressive **savings of 17 to 23 hours per project**, depending on the complexity of each project. Additionally, the platforms' collaborative project capabilities have further enhanced efficiency by **fostering transparency** and enabling direct error correction.



Employee Satisfaction & Performance

Article Galaxy and Curedatis equip team members with innovative tools to enhance their job performance. This is especially beneficial for employees who are already familiar with the available tools and technology, as it **streamlines their work, saves time, and reduces copy/paste errors**. Additionally, it enables employees to stay organized by providing a centralized platform for everything they need, from requested article PDFs to corresponding data extraction sheets.

When employees feel **more enabled and better equipped** with the right tools to do their jobs efficiently, employee satisfaction and performance are considerably improved.

Cost Savings & Resource Allocation

With the integration of Article Galaxy and Curedatis, the organization has streamlined article spending and billing processes. They also gained **comprehensive and valuable insights into literature acquisition, usage, and overall knowledge management operations** (e.g., thanks to the platforms' robust filters). This not only enables a deeper understanding of how users access articles, but also **facilitates smarter purchasing decisions to maximize the return on investment (ROI) of scientific literature** by reviewing and evaluating the need for subscriptions.

Furthermore, they have achieved additional cost savings and **more effective allocation of resources** through user-based billing, which proves to be more suitable for the organization's needs compared to project-based billing. This becomes increasingly important as the number of projects continues to grow steadily.

“We are partnering with an ideal customer. Their clinical experts and medical writers are enthusiastic about embracing new technologies and providing valuable development feedback. This collaboration is the key to Research Solutions' approach to building the ultimate knowledge workflow.”



Robert Radloff,
Director of Product Development
with Research Solutions.

Looking To The Future

The successful integration of Research Solutions' Article Galaxy and Curedatis platforms showcases the remarkable impact of technology in streamlining literature-based processes. By achieving significant time and cost savings, enhancing employee satisfaction, and fostering future development opportunities, the company is poised to continue harnessing the power of these platforms for its clinical evaluation requirements.

The partnership between the organization and Research Solutions serves as a shining example of how tools, technology, and teamwork can propel success in the medical device manufacturing industry.

The Company

This global medical device manufacturer specializes in advanced dental solutions for tooth replacement and orthodontics, with over 8,000 employees.

The company bring together product excellence, innovation, and collaborate with top clinics, institutes, and universities. They conduct pioneering research to develop and manufacture state-of-the-art products. Their comprehensive range of products, solutions, and services is distributed across more than 100 countries through an extensive network of subsidiaries and partners.



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USA Phone:
+1 (310) 477 0354

Europe Phone
+44 (0) 7984 694152

Email
sales@reprintsdesk.com

Web
www.researchsolutions.com