

# Optimising Research Efficiency

A fertility treatment and  
research institute's journey  
with ARTisIVF



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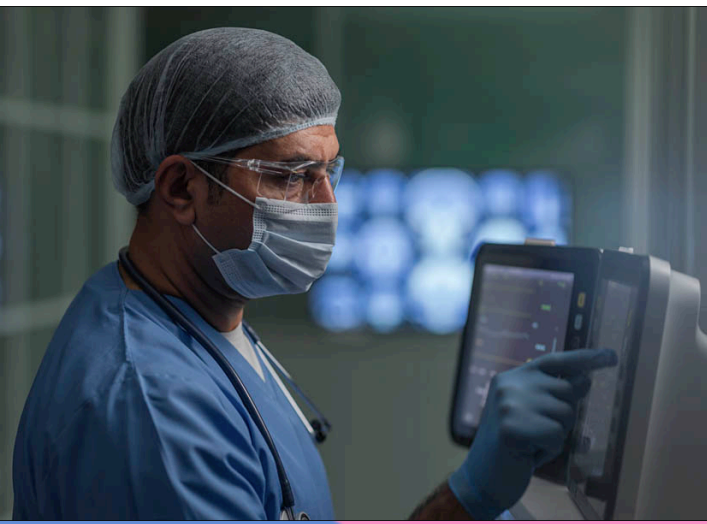
# Introduction

The Chennai based institute is a leading research-oriented institute in the field of in-vitro fertilisation (IVF), has a long-standing commitment to advancing reproductive medicine through rigorous research. With a robust patient base, The research institute has been at the forefront of various studies covering multiple aspects of IVF treatments.

However, the institute faced significant challenges in efficiently managing and utilising patient data for research purposes.

This case study explores how the research institute leveraged ARTis, a SaaS platform designed for fertility centres, to streamline their data management processes and enhance their research output.





# Background

Research has always been a core component of The research institute's IVF department, with scholars engaging in numerous studies.

The large patient base from IVF treatments provided a rich source of data, but the process of collecting and analysing this data was cumbersome. The traditional paper-based system led to delays, inefficiencies, and inaccuracies in data collection, which hindered the research process.

# Challenges



## Lack of Authentic Data

The paper-based system often resulted in incomplete or inaccurate data, which was not suitable for rigorous research.

## Time-Consuming Data Collation

Gathering data from various sources and organising it for research purposes was a labor-intensive process that consumed significant time.



## Unstructured Data

The lack of a standardised format for data collection made it difficult to organise and analyse the information effectively.

## Difficulty for New Users

New researchers and staff found it challenging to navigate the existing systems, leading to further delays.



## Suboptimal use of Senior Researcher's Time

Senior researchers spent considerable time on data management tasks, detracting from their focus on high-level research activities.

# Operational Efficiency

The research institute engaged with ARTis to implement a comprehensive platform to manage patient data throughout their treatment journey, from initial consultations to live births. The platform's intuitive design allowed The research institute's team to quickly adapt to the new system with minimal training. The user-friendly configuration of ARTis enabled doctors and researchers to set up and modify clinical report templates independently, reducing reliance on technical support.

Metric	Before Digital Transformation	After Digital Transformation
Report Templates	Manual	Configurable to specific research requirements
Report Sections	Mostly textual	Multiple formats with pre-filled selection options
Data Tagging	Manual	Codified sections with unique codes
Procedures	Manual	Configurable templates and discharge summary

# Streamlined Data Tracking and Reporting

ARTis provides a workflow-driven system that tracks patient details throughout their journey. Upon registration, a comprehensive history is captured for both the patient and their partner, with all information stored in a single, unified case file. This structured approach ensures that all relevant data is easily accessible and consistently recorded.

## Operational Benefits

### Service Allocation

Automatically generates pre-formatted report templates with valid values, minimising manual data entry.

### Report Updates

Authorised users can update and confirm reports, ensuring that all patient details are accurately tracked.

### Comprehensive Patient Tracking

ARTis tracks all aspects of patient treatments, interventions, and outcomes, providing a complete overview of the patient journey.

### Report Accessibility

Reports are accessible to patients and in-house users, with consolidated views available for ease of use. Reports can also be printed or viewed on the patient portal.

# Empowering Research with Data Extraction & Analysis

The most critical aspect of ARTis for The research institute's research is its powerful data extraction and analytics capabilities. ARTis codifies all parameters used during the patient journey, allowing researchers to easily extract data based on specific research criteria. This functionality is invaluable for scholars who need to analyse data from various stages of the treatment cycle.



## Code-Based Data Extraction

Researchers can select relevant codes and specify data ranges to extract precise data sets.

## Comprehensive Data Analysis

The platform enables researchers to view and analyse data on-screen or download it to a spreadsheet for further analysis.



## Authentic and Reliable Data

The extracted data is accurate and comprehensive, providing a solid foundation for research papers and publications.







# Conclusion

Since implementing the ARTis, The research institute has significantly improved its research reporting capabilities.

The institute has processed hundreds of treatment cycles and generated dozens of research papers using data extracted from ARTis.

The platform's flexibility and ease of use have empowered The research institute to adapt quickly to new research requirements and make necessary adjustments to report templates.

As a result, The research institute has streamlined its data management processes, enabling researchers to focus on what they do best: advancing the field of reproductive medicine through high-quality research.