



Achiever
medical



**TRANSFORMATIONAL LABORATORY INFORMATION
& SAMPLE MANAGEMENT SOFTWARE**

Interactive
software
ACHIEVER SOLUTIONS

Transforming business processes and data insight



INTRODUCTION

As a biobank, biorepository, research lab or clinical trials operator your team is constantly under pressure to deliver high quality services and accurately annotated samples and results. To achieve this, you may have introduced Standard Operating Procedures (SOPs) and lab workflows. However, ensuring your teams follow these processes can bring new challenges. It may be difficult for your lab to accomplish and focus on its main objectives, when you also add in regulatory audits (such as those conducted by the Human Tissue Authority [HTA]), patient safety and confidentiality considerations and the myriad of data received from suppliers, customers and partners, in all its various formats and quality.

If you had a solution that managed these, what else could you focus on?

- Delivering more services
- Taking on more customers
- Processing more samples
- Running more trials
- Spending more time on research
- Increasing quality and confidence in your research results
- Having time to review reports and dashboards to identify trends and improved approaches.

Our flexible, transformational Laboratory Information and Sample Management system, Achiever Medical, has been designed to address these challenges. There are 3 fundamental concepts centric to the system:



STANDARDISE

- Driving efficiency by adhering to your Standard Operating Procedures (SOPs).
- Enhancing quality with data validation.



COMPLY

- Improving quality with comprehensive consent, auditing & tracking capability.
- Increasing security with data encryption and permissions.



GROW

- Inspiring decision making by identifying trends and delivering real-time insights.
- Monitoring productivity to highlight efficiency gains.

Engagement with ISL has been fantastic. They really understand our operational and strategic goals and are focused on delivering a successful project.

- Cambridge University Hospitals



We passed our HTA in 2013 and 2017. It was commented in the report that the system enables good practice for tissue tracking.

- Leeds University Teaching Hospitals

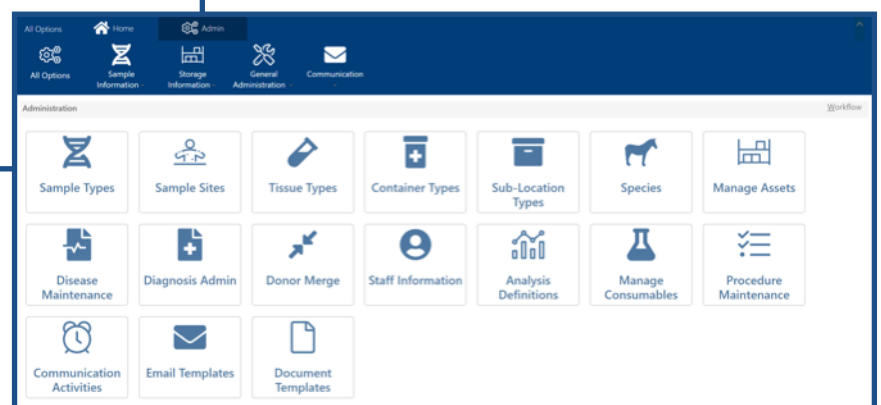
STANDARDISE

- Integrated best practice workflows prompt and guide your users through accessioning, storing and processing biological samples.
- In-built meta-data and lookup lists, such as ICD codes, consistently profile samples, storage locations and donors.
- Automated prompts for mandatory information capture critical data at the right step in the process.
- Pre-set, configurable alerts highlight non-compliance, such as email notifications when informed consent is missing.
- Links to documentation centralises and provides secure, easy access to key information including Standard Operating Procedures (SOPs), ethics approval and informed consent.
- Pre-defined bulk data import templates facilitate and regulate data entry.

Description	Type	Reference
④ Certain conditions originating in the perinatal period (P00-P96)	ICD10-2011	16
② Certain infectious and parasitic diseases (A00-B99)	ICD10-2011	01
④ Arthropod-borne viral fevers and viral hemorrhagic fevers (A90-A99)	ICD10-2011	01_009
④ Arenaviral hemorrhagic fever	ICD10-2011	A96
Arenaviral hemorrhagic fever, unspecified	ICD10-2011	A96.9
Juvin hemorrhagic fever	ICD10-2011	A96.0
Lassa fever	ICD10-2011	A96.2
Machupo hemorrhagic fever	ICD10-2011	A96.1
Other arenaviral hemorrhagic fevers	ICD10-2011	A96.8
Dengue fever (classical dengue)	ICD10-2011	A90
Dengue hemorrhagic fever	ICD10-2011	A91
④ Other arthropod-borne viral fevers, not elsewhere classified	ICD10-2011	A93
Colorado tick fever	ICD10-2011	
Oropouche virus disease	ICD10-2011	
Other specified arthropod-borne viral fevers	ICD10-2011	
Sandfly fever	ICD10-2011	
④ Other mosquito-borne viral fevers	ICD10-2011	
Chikungunya virus disease	ICD10-2011	

ICD-10 Codes to standardise patient diagnosis data

Administration options to manage data and alerts



MANAGERS:

REMOVE THE MANAGEMENT OVERHEAD OF MONITORING YOUR TEAM

RESEARCHERS:

SIMPLIFY ADHERENCE TO YOUR PROCEDURES



Finding it hard to make any recommendations for improvements.

- HTA Auditor, August 2016 during ISL Customer Audit

COMPLY

- Integrated compliance automatically generates audit records during data updates and process progress.
- Secure access to patient confidential data is managed by your Principal Investigators and Project Managers.
- Complete chain of custody captures sample movement and processes completed.
- Approval process records details of significant actions and processes accompanied by the name of the reviewer, date and time reviewed and reason if rejected.
- Interim, random self-inspections of samples, processes and storage locations, provide a proactive approach to quality audits with results and follow-up actions tracked.
- Real-time, interactive dashboards highlight non-compliance and informed consent withdrawals.

Workflow Audit: AUD000002

Save Save & Close Delete

Details
Notes
Audit Bands
Audit Links
Queries
Interaction
Activity
Linked Documents
Auditing
Chronology

Audit Information

Reference: AUD000002

Title*: 2018 Q3 HTA tissues

Status: IN PROGRESS

Start of Audit Date Range*: 30-Sep-2018

End of Audit Date Range*: 31-Dec-2018

Responsibility OP*: Peter Inglis

Number of Bands: 1

Total No. Samples Required*: 5

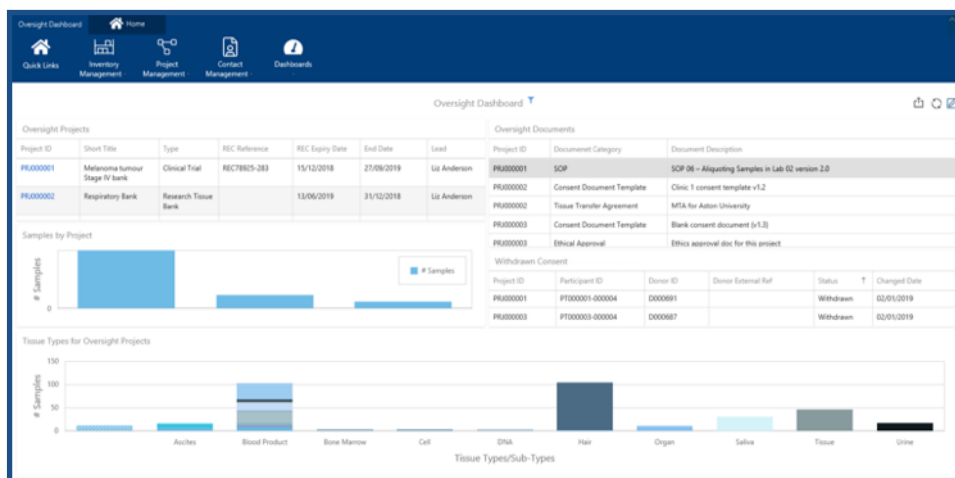
Audited Samples*: Not Relevant

Audit Start Date*: 31-Oct-2018

Audit Links: 5

Band #	Storage Name	Mid Location Path	Sub Location	Sample ID	Place	Grid Refere	Custodian	Status	Consent Status	Fail Reason	Resolu...
1	2.01 - Cryo 1		Tray 1	S-DE0000...0001	8		A08		Consent Not Audited		
1	2.01 - Cryo 1		Tray 1	S-DE0000...0001	6		A06		Consent Not Audited		

Random self-auditing of samples example



Oversight Officer dashboard for monitoring progress and tracking compliance

MANAGERS:

CREATE A STRESS FREE AUDIT PROCESS

RESEARCHERS:

ELIMINATE THE ADMINISTRATIVE BURDEN OF COMPLIANCE



Which problems have you solved that we haven't yet thought about?

- Nottingham University Hospitals Trust

GROW

- Project and study role-based permissions encourage collaboration and facilitate shared access to selected data and workflows involving multiple teams, departments and disciplines.
- Secure, external portals and online catalogues provide carefully controlled access for collaborators and researchers.
- Roll out the system to other departments and teams, through flexible processes and permissions that can be configured by team and additional module, including Clinical Trials and CRM.
- Point-and-click configuration tools enable your team to create new data fields, configure workflows, alerts and queries without IT involvement.
- Integration with your other lab equipment, such as barcode scanners, rack scanners, automated stores and instruments. Centralises data and processes and maximises benefits gained from all applications.
- Real-time, interactive dashboards, reports and queries deliver insights, including monitoring trends, key performance indicators, targets versus actual as well as areas of non-compliance.



Sample activity dashboard providing sample movement and process overview

MANAGERS: IMPROVE DECISION MAKING
RESEARCHERS: INCREASE YOUR EFFICIENCY



PROFESSIONAL IMPLEMENTATION SERVICES

At Interactive Software we understand that implementing new business applications goes beyond simply installing software. By implementing a new system, you are anticipating business improvements which inherently signal change. This could include enhancements to your teams' working processes, the introduction of completely new Standard Operating Procedures (SOPs) and/or the removal of inefficient or superfluous processes. Some members of your team will embrace these, others may not.

To enable a smooth transition for everyone, our experienced, dedicated professional services team are here to guide you and your team step-by-step through the software implementation process. As well as offering standard implementation services, we also offer advice to help you to manage change within your team, to improve user adoption and ensure a straight forward and successful implementation.



Collaborative

At Interactive Software we form long-term collaborative partnerships with all of our customers. We want to understand you and your business to deliver a solution that is fit for purpose and helps you achieve your business objectives.



Professional & Experienced Team

Our dedicated professional services team has on average over 20 years' experience of designing, developing, testing, training and supporting business critical applications.

Our team offers the following services:



Proven Implementation Approach

Our proven Achiever Essentials and Achiever Plus methodologies have been designed to guide and support your team every step of the way towards a successful go live. Our transparent, staged implementation approach provides clarity of deliverables and prepares both you and your team.

- Project Management
- Business consultancy, process reviews and requirements gathering, recommendations and advice
- Data migration services
- Integration services
- System customisation and development
- Process customisation
- Testing including User Acceptance Testing (UAT) assistance
- Training
- Support and Business Development



The system does more than we imagined. We are really happy with the product capability and professional implementation approach.

- Nottingham University Hospitals Trust



ACHIEVER MEDICAL PRODUCT CHECKLIST

Product Feature	Standard Functionality	Enhanced Module
Project & Study Management	✓	
Linked Documents & Images	✓	
Clinical Trial Management & Planning		✓
Donor Profiling	✓	
Diagnosis & Therapy Tracking (incl SNOMED, ICD-codes)	✓	
Informed Consent Management (incl Withdrawal)	✓	
Disease Profiling		✓
Biological Sample Profiling	✓	
Sample Collection Management	✓	
Sample Aliquoting & Derivative Management	✓	
Sample Analysis & Experiment Capture (incl Results)	✓	
Sample Family History Management & Tracking	✓	
Sample TMA Creation & Management	✓	
Audit & Quality Assurance Module		✓
Sample Disposal Management	✓	
Consumable Management	✓	
Freezer & Storage Management	✓	
Storage Environment Tracking	✓	
1D, 2D, Barcode Label Generation & Printing	✓	
QR Code Generation	✓	
Integration with BarTender for Label Generation		✓
Handheld Barcode Label Scanning	✓	
Sample Requesting Process (incl Approvals)	✓	
Prospective Sample Collection Requests	✓	
Sample Pre-Registration		✓
Sample Dispatch & Shipping Process	✓	
Institute Management (incl Customer Relationship Management)	✓	
Automated Emails & Alerts	✓	
Diary & Calendar Management	✓	
Integrated Dashboards & Analytics	✓	
Advanced Data Query & Filtering Tools	✓	
User Customisable Search Grids	✓	
External Researcher Portal (incl Online Sample Catalogue for Sample Requests)		✓
Email Template & Letter Template Builder	✓	

TECHNICAL

Product Feature	Standard Functionality	Advanced Module
Web-based System (incl available as Cloud-Based)	✓	
Flexible API & Tools for 3 rd Party Integration (incl Instruments)		✓
Integration with User Authentication Systems (LDAP, Active Directory)	✓	
Record & Field Level Auditing	✓	
Data Import Tools (incl CSV, Excel Files)		✓
Project, Study & System Level Roles and Permissions	✓	
Flexible Data Encryption	✓	
Multi-Lingual Support		✓
Integrated Dashboard Editor & Creator		✓
Integrated Report Editor & Generator		✓
Dashboard Creation using Multiple Data Sources		✓
Plate and Rack Scanner Integration		✓

ABOUT INTERACTIVE SOFTWARE

At Interactive Software, we design and deliver innovative software applications for Scientific Research and Education industry customers that transform their business processes and provide greater transparency and insight into their data.

Our comprehensive Sample Lifecycle Management solution, Achiever Medical, provides something different to traditional Laboratory Information Management (LIMS) and Sample Tracking systems. Offering a functionally rich, secure solution, Achiever Medical helps our customers to streamline their processes, meet compliance requirements, make informed decisions and improve their use of resources. With most customers going live with the software within 3-9 months, their team can spend more time on achieving their vision; to improve lives.

TRANSFORM YOUR ORGANISATION

To see for yourself how we can help transform your lab, please contact our team:

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