Baxter

ICNET
CLINICAL SURVEILLANCE SOFTWARE

MORE CLINICAL EXPERIENCE.
MORE MARKET-LEADING INNOVATION.
MORE PEOPLE PROTECTED.

ICNET HOSPITAL SUITE — Supporting infection prevention and antimicrobial stewardship efforts in the hospital setting

Healthcare-associated Infections (HCAIs) and Antimicrobial Resistance (AMR) Pose Significant Healthcare Risks

HCAIs are dangerous and costly — prolonging hospital stays, increasing resistance to antimicrobials, and increasing mortality rates. With the many resources necessary to treat each of these infections and the increased risk to patient safety, eliminating avoidable HCAIs is a top priority.

On any given day, **14** OUT OF EVERY **100** hospitalised patients have at least one HCAI, affecting hundreds of millions of patients globally each year[1]

HCAIs cost the NHS an estimated **£1 BILLION** ANNUALLY[2]

The UK Health Security Agency (UKHSA) estimates that by 2050, antibiotic resistance will cause 10 million annual deaths globally and COST **£66 TRILLION**[3]

Surveillance has long been considered vital to the **PREVENTION OF INFECTION**[4]

By 2050, the death toll could be a staggering ONE PERSON — **EVERY** — THREE SECONDS if AMR is not tackled now[5]

> Without good surveillance, we cannot effectively counter the threat that antimicrobial resistance poses to health systems and people all over the world"
>
> *Yasuhisa Shiozaki, Former Minister of Health, Labour and Welfare for Japan*[5]

MORE Actionable Insights for Your Healthcare Facility

ICNET Hospital Suite offers a seamless clinical surveillance solution for your healthcare facility. This begins with data integration capabilities that centralise data from disparate systems, providing greater insight into infection prevention and antimicrobial stewardship activities across your entire facility. These data become actionable through our intuitive, easy-to-use products and configurable workflows that provide users with the information they need, when they need it — driving proactive intervention while informing gaps and opportunities for future improvements in patient care.

The insights provided by **ICNET** enable users to effectively prioritise patient cases and focus attention where it is needed most, helping to create efficiencies in patient care and allow your hospital to optimise its staff and resources.

CENTRALISED DATA

Admission, discharge and transfers

Laboratory and microbiology results

ePrescribing data

Surgical procedures

Device information

Radiology results

Observations and data signs

SIMPLIFIED USER EXPERIENCE

Intuitive, easy-to-use work screens

Configurable workflows meet defined user and/or facility goals

Streamlined tasks with fewer clicks

POSITIVE OUTCOMES

Reduced healthcare-associated SSIs[6]

Optimised antimicrobial usage[7]

Earlier intervention[8]

Reduced administrative burden[9]

More clinical time spent with patients[9]

Infection Prevention

The **ICNET** Infection Prevention (IP) product is a clinical surveillance system that provides hospital electronic case management, alerting and reporting on data associated with the prevention and control of microbial diseases. IP also allows hospital facilities to easily prepare and upload these data to meet national reporting requirements.

ICNET helps maximise clinical time for infection prevention specialists with tools to increase efficiency and save time on administrative tasks.

- Streamline time-intensive reporting tasks and reduce administrative burden[9]

- Improve quality of care with rapid response to issues[11]

- Access current clinical information at the bedside or on the go

MONITOR: IP monitors data across a facility's clinical information systems, while user-defined alerts bring immediate attention to events that include lab results, potential HCAIs, patient exposures and clusters — allowing for early intervention.

COLLABORATE & ACT: Exposure tracking, contact tracing and case management tools help IPC teams work more effectively to address HCAI cases and/or outbreaks, while task assignment functionality, Tag Sharing and clinical notes help drive collaboration and promote information-sharing among teams.

REPORT: IP simplifies compliance with national reporting requirements for infectious diseases by supporting automatic upload of case data for all mandatory organisms. Data captured within **ICNET** are easily configured and extracted in formats suitable for upload to the UK Health Security Agency (UKHSA), Health Protection Scotland and Public Health Wales.

PREVENTION —FIRST.—
Every infection prevented is one that needs no treatment[10]

41%
REDUCTION
in time spent on common daily IPC tasks[9]

79%
REDUCTION
in healthcare-associated SSIs[6]

ABX Steward

ICNET ABX Steward is a clinical surveillance software solution that integrates medication data, laboratory data, patient location data and select clinical data into targeted alerts and provides reporting on antimicrobial stewardship (AMS) activities, drug utilisation and antimicrobial resistance patterns.

ABX Steward has tools that can help you broaden the scope of your stewardship efforts and give you a wider reach across your hospital.

– Improve accuracy of patient identification for targeted & timely intervention

– Evolve your AMS efforts from an office-based to a ward-based service

– Identify medication-related risks early

– Proactively highlight important events to reduce risk of oversight

– Reduce broad-spectrum antibiotic usage

– Automate analysis and reporting for quality improvement

Our ability to interface with EPMA systems has meant that for nearly five years we have supported stewardship teams with tools to help users perform post-prescription and medicine administration data analysis, thereby encouraging timely and targeted clinical interventions.

ABX Steward software looks beyond the prescribing episode to monitor patients after administration. Deployment of customisable alerts for parameters such as length of therapy and lab results provide the information needed to quickly identify opportunities and react accordingly at an individual patient level, while our breadth of reporting and analysis capabilities inform broader quality improvement initiatives regarding the optimisation of antimicrobial prescribing.

ICNET HAS HELPED USERS DELIVER:

90% REDUCTION in time taken to identify patients for AMS rounds[8]

18% REDUCTION in overall antibiotic usage[12]

43% REDUCTION in use of broad spectrum antibiotics[7]

Outbreak Manager

As new scientific data has become available, **ICNET** has responded with tools to manage today's more complex, long-term outbreaks.

Outbreak Manager helps infection prevention professionals more efficiently tackle the challenges of managing infectious disease outbreaks. Our robust data collection, visualisation and analysis tools are designed to facilitate investigation, management and reporting activities to help streamline and strengthen outbreak management workflows within the hospital environment.

COLLECT: Rich data collection and case definitions ensure a complete and accurate picture of an outbreak or multiple outbreaks across healthcare facilities.

INVESTIGATE & TRACK: Robust visualisation screens help to quickly identify patterns and relationships within outbreaks, saving investigative effort and driving timely action. These include outbreak timelines and mapping, epidemiological curves, and network diagrams depicting chains of transmission.

COORDINATE: Comprehensive outbreak and case management functionality help IPC teams coordinate intervention activities with built-in tools to help analyse interventional needs and allocate resources accordingly.

PREVENT: Timely facilitation of outbreak investigation helps teams more efficiently interrupt disease transmission, reducing scope and length of outbreaks and the resulting morbidity, mortality and costs.
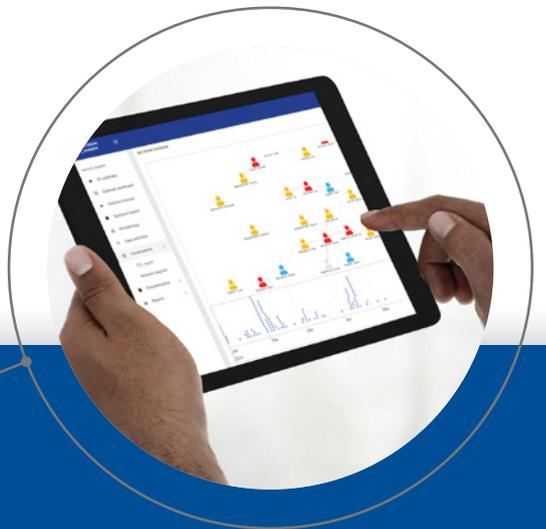
Protect

ICNET Protect addresses the unique risks within healthcare worker populations, who are more susceptible to infectious disease acquisition due to the nature of their work. The software collects, alerts and reports on the status of immunity and other disease protection activities for personnel working in healthcare environments to reduce the risk of transmitting disease to both patients and healthcare workers.

IMPLEMENT: ICNET Protect allows users to clearly define a population and their specific disease requirements to ensure the right people get the right set of protections they need. This incorporates all aspects of essential protections.

MAINTAIN: Our software allows users to maintain a single and complete record of disease and protection status to effectively assess the healthcare worker's compliance with protection protocols and suitability for safe employment at any point in time. Continued management of the worker's record is supported by automated alerts for changes in protection status and analytics-driven investigative tools.

ADAPT: ICNET Protect is adaptable to the needs of any clinic type, whether in routine or ad hoc settings.

TESTING

DISEASE PROPHYLAXIS

VACCINATION

PERSONAL PROTECTIVE EQUIPMENT

A Trusted Partner

With nearly 20 years supporting infection control and antimicrobial stewardship programs, Baxter has now extended ICNET's reach globally. **ICNET** partners with more than 1,200 facilities[13] around the world, achieving 93% customer retention.[14]

- In the UK, we are in more than 40% of NHS Trusts and Health Boards[13]

- Nationally selected in Wales[13]

- In Scotland, **ICNET** installations process 80% of inpatient admission data[13]

- The preferred supplier in New Zealand[13]

Our industry-leading experience has given us clinical insights you can trust. Our development team continuously refines and improves the **ICNET** software in response to changing healthcare concerns.

Registry

PPS

Outbreak Manager

Case Manager

Protect

ICNET National Suite

Inform policy and drive timely, appropriate public health interventions

ICNET Hospital Suite

Better inform clinical decision-making to improve patient care and outcomes

Infection Prevention

ABX Steward

Outbreak Manager

Protect

A **MORE** Integrated Approach to a Complex Challenge

ICNET is the only platform to provide a seamless solution across the hospital and public health settings, ensuring MORE people are protected.

ICNET Hospital Suite supports infection prevention professionals within the healthcare facility setting, while **ICNET** National Suite supports public health communicable disease professionals at the mass population level. Together they support a holistic approach to clinical surveillance, outbreak management and antimicrobial stewardship, with customisability to meet the specific needs of your organisation.

Effective clinical surveillance has been shown to improve health outcomes by providing early warnings of emerging threats and data to identify and act on long-term trends.[5]

Visit ICNETsoftware.com to request a demo.

1. World Health Organization (WHO). 10 facts on patient safety. March 2018. https://www.who.int/features/factfiles/patient_safety/en/ Accessed June 2019.   2. National Institute for Health and Care Excellence. Healthcare-associated infections: prevention and control in primary and community care. NICE clinical guideline 139 (March 2012) https://www.nice.org.uk/guidance/cg139 (Page 5)   3. Public Health England (now UKHSA) (2015). Health matters: antimicrobial resistance. [online] Available at: https://www.gov.uk/government/publications/health-matters-antimicrobial-resistance/health-matters-antimicrobial-resistance.   4. Haley RW, Culver DH, White JW, et al. The efficacy of infection surveillance and control programs in preventing nosocomial infections in United States hospitals. American Journal Epidemiology 1985; 121:182e205.   5. Review on Antimicrobial Resistance. Tackling drug-resistant infections globally: final report and recommendations. May 2016.   6. Whatley V, Corbett K. (2017). Large-scale communication of surgical site infections to improve patient safety and drive efficiency. Poster presented at the Patient Safety Congress 2017.   7. Lee A, John S, Lovinsky R. (2017). Impact of an antibiotic stewardship audit and feedback program on a general internal medicine wards: a before and after study. Poster presented at the European Congress of Clinical Microbiology and Infectious Diseases (ECCMID) 2017.   8. Lee et al., (2018). Surveillance Software and Prospective Audit and Feedback Rounds Advance Antimicrobial Stewardship at an Acute Care Community Hospital. Healthcare Quarterly, 20 (4)   9. Simpson, D. (2010). An Evaluation of Time and Clinical Implications of an Automated Infection Prevention Surveillance System. Poster presented by Chesterfield Royal Hospital at the 7th International Conference of the Hospital Infection Society 2010.   10. World Health Organization. [2015]. Global Action Plan on Antimicrobial Resistance.   11. Heard KL, Hughes S, Mughal N, Azadian BS, Moore LSP. (2017). Evaluating the impact of clinical decision support systems for antimicrobial stewardship: ICNET. Poster presented at the European Congress of Clinical Microbiology and Infectious Diseases (ECCMID) 2017.   12. Hughes S, Heard KL. (2018) The impact of a novel clinical decision support system on antimicrobial stewardship at an Acute NHS Teaching Hospital. Poster presented at EAHP 2018.   13. Data on file. Baxter International, 2019.   14. Percentage based on software v1.7. Data on file. Baxter International, 2019.