

LUMED™ APSS™

Clinical decision support system (CDSS)
to improve the process of antimicrobial prescription



EMPOWER

YOUR ANTIMICROBIAL STEWARDSHIP PROGRAM

PATIENTS NEED
THE RIGHT DRUG.
THE RIGHT DOSE.
AT THE RIGHT TIME.

Overuse and misuse of antimicrobials is harmful to patients and has led to a rise of drug-resistant organisms – greatly depleting our antimicrobial arsenal. Antimicrobial Stewardship (AMS) Programs are essential for optimized patient care today and to maintain antimicrobial efficacy for future generations.

AMS promotes evidence-based treatment decisions from initiation to optimization to discontinuation. Yet managing the information needed to make these decisions wisely is complex.



Real-time patient data collection

From the hospital information system to validate the various parameters of optimal antimicrobial prescribing



Cumulative antibiograms

Allows infectious diseases and clinical microbiology experts to filter results to better match the patient in need



Identify non-optimal prescription

Improves prescription processes with real-time alerts based on local context and signals deviation from best practice guidelines



Reporting clinical effectiveness and cost reduction

Reduces the length of stay for patients with antimicrobial



Prioritize patient review order

Identifies patients at risk of suboptimal antimicrobial treatment



Patient timeline visualization

Provides a holistic view of patient information to help decision



LUMED™ performs a multi-evaluation process to support timely and appropriate treatment adjustments.



CASE STUDY

Voice of our customers



Centre Hospitalier Universitaire de SHERBROOKE (CHUS)
Quebec, Canada

STEWARDSHIP DRIVEN BY LUMED™ APSS™ HAS A SUSTAINED IMPACT. THE NUMBERS SHOW IT.

A published study evaluated the impact of an Antimicrobial Stewardship Program supported by LUMED™ APSS™ at the Centre Hospitalier Universitaire de Sherbrooke (CHUS) in Quebec, Canada. LUMED™ APSS™ software was used to monitor patients' clinical information in real-time, continually evaluating the appropriateness of the treatment and accounting for other patient conditions such as cystic fibrosis or hemodialysis.

They controlled for factors such as appropriateness of drug selection for diagnosis; contraindications; drug interactions; cost-saving drug selection alternatives; maximum daily dose; maximum/minimum dose; frequency of administration, maximum duration and route of administration. The study demonstrated a positive impact on antimicrobial use, antimicrobial spending, length of stay and reduction of inappropriate prescriptions.

THEY FOUND:



24%
↓ in antimicrobial use



28%
↓ in antimicrobial spending



2 days
↓ in length of stay

Source: Nault V. et. al. "Sustained impact of a computer-assisted antimicrobial stewardship intervention on antimicrobial use and length of stay" Journal of Antimicrobial Chemotherapy, Volume 72, Issue 3, March 2017

GAIN CONFIDENCE WITH LUMED™ APSS™ - SUPPORTED INTERVENTIONS

The LUMED™ APSS™ expert system software's algorithms identify a wide range of intervention recommendations such as dosing adjustment, switch from intravenous to oral therapy, aUniversitaire de Sherbrooke (CHUS), where it has been in use since 2010, more than 91% of LUMED™ APSS™ - supported intervention recommendations are accepted by prescribing clinicians.*

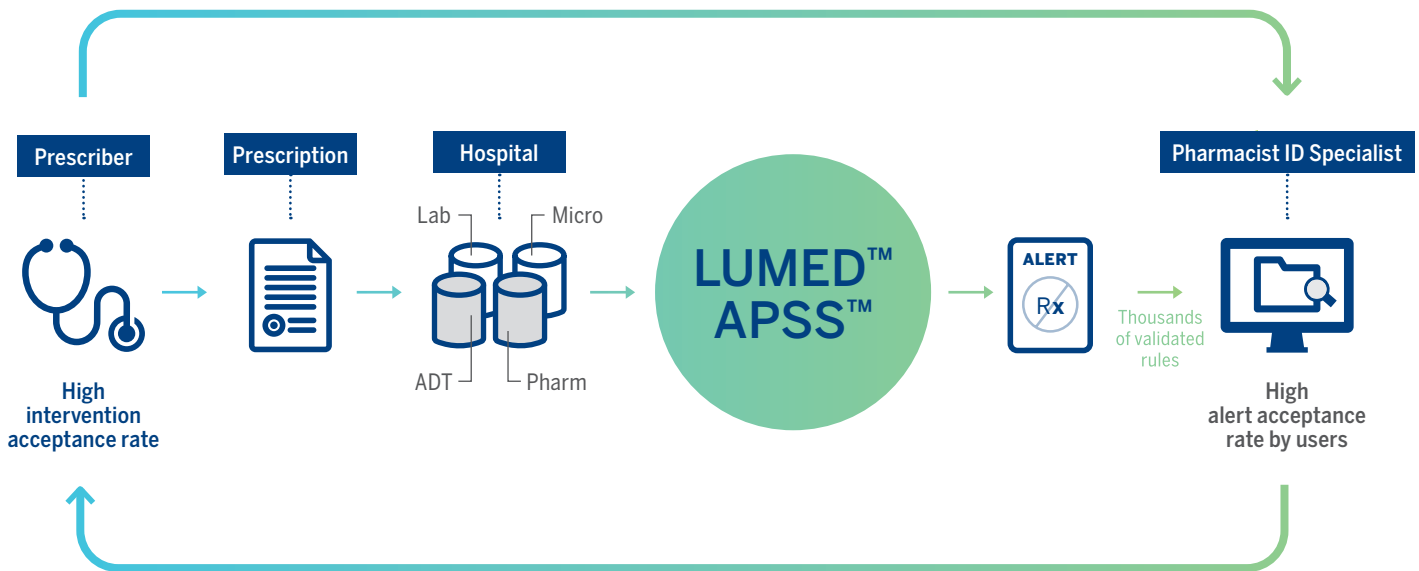
* Nault V. et. al. "Sustained impact of a computer-assisted antimicrobial stewardship intervention on antimicrobial use and length of stay" Journal of Antimicrobial Chemotherapy, Volume 72, Issue 3, March 2017

"Using this software enables the pharmacist overseeing AMS in our institution to identify patients who will most benefit from an intervention, while also minimizing the time needed to make this intervention."

PATRICE LAMARRE
Chief Pharmacist
Centre Hospitalier Universitaire de Sherbrooke (CHUS)



TRANSPARENT INTEGRATION INTO YOUR CURRENT WORKFLOW



DISCOVER BIOMÉRIEUX VISION SUITE DATA-DRIVEN DECISION MAKING

BIOMÉRIEUX VISION SUITE turns laboratory and hospital data into insightful, actionable information to support diagnostic and clinical decisions at all stages to better support antimicrobial stewardship.

By providing a comprehensive suite of software solutions that collect, analyze, and merge various sources of data, BIOMÉRIEUX VISION SUITE empowers you to make the right decisions at the right time.