# emtelliPro™ for Payer Organizations

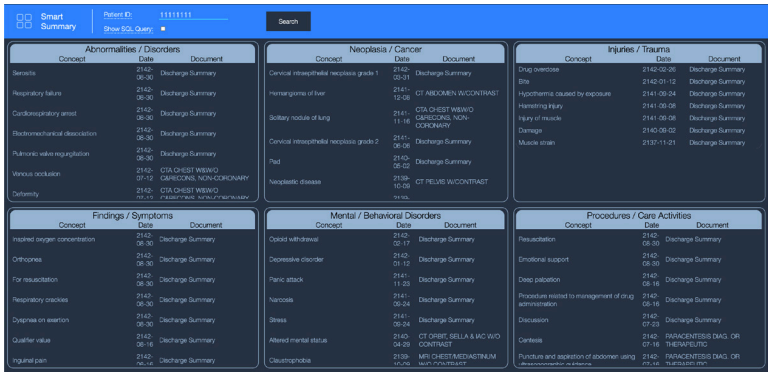
## Population-Level Insights for Targeted Network Optimization

emtelligent™
MEDICAL NLP

emtelligent's **emtelliPro™** advanced Natural Language Processing (NLP) engine is designed specifically to understand the valuable yet complex unstructured medical text trapped within physician, hospital, ancillary, and payer EMRs. emtelliPro also understands the medical language in other types of records such as discharge summaries, diagnostic reports, treatment plans, clinical notes, care management plans, billing statements, and much more.

Using Deep Learning technology designed by medical experts, emtelliPro automates and streamlines data collection and correlation across previously fragmented clinical systems, specialties, and patient populations.

EMTELLISUITE SMART SUMMARY APP




emtelliSuite allows customers to easily see patient summaries or search and export emtelliPro's structured data to find the answers they are looking for.

With intuitive tools and advanced reporting capabilities, **emtelliSuite™** apps deliver timely and actionable insights for improving network design, clinical performance, optimizing cost of care delivery, and enhancing overall health and wellness for members – ultimately improving clinical outcomes and strengthening financial ROI and competitive positioning.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# AUTOMATE INFORMATION PIPELINES

emtelliPro unlocks key insights from within diverse and disparate clinical, administrative, and financial systems to uncover actionable insights for network and care pathway optimization.


**Data Extraction**

Structure, transform, and correlate data across clinical, operational, and financial systems.

**Accessing and Uncovering Insights**

Easily answer clinical and operational questions using simple search tools or custom queries.

**Benchmark and Measure Performance**

Accurately measure and compare cost, quality, and efficiency KPIs.

**Care Pathway Optimization**

Design evidence-based care programs and pathways that improve clinical outcomes, optimize authorizations, and reduce costs.

## OPTIMIZE PROVIDER NETWORK PERFORMANCE AND CLINICAL OUTCOMES

emtelliPro is able to process, analyze, and correlate millions of patient records in near real-time, enabling the proactive development of optimized provider networks, health plans, care pathways, and wellness programs based on the unique needs of the member population.

- Quickly access relevant clinical diagnoses and history to inform care pathway optimization and authorization
- Benchmark and measure provider performance by clinical service line based on cost-per-encounter, average length of stay, clinical outcomes, and other criteria to improve clinical outcomes for patients and inform network planning and development
- Easily and accurately match patients with programs that best meet their needs based on risk factors, clinical diagnoses, and/or treatments (procedures, medications) across an entire population of EMR records

## MAXIMIZE VALUE AND ROI

By seamlessly integrating an entire network of clinical, financial, administrative, and care management EMRs, emtelliPro uncovers actionable insights and trends to inform the design and execution of impactful cost optimization and continuous improvement initiatives both clinically and economically.

- Monitor ordering appropriateness, referral patterns, authorizations, and out-of-network utilization to proactively identify high-impact opportunities for clinical and cost optimization
- Reduce the cost of care delivery and maximize the value of MSDRGs, APCs, and bundled payments by designing evidence-based programs and policies that leverage clinical, operational, and financial intelligence gleaned from an entire network of provider EMRs
- Significantly reduce the cost, effort, and delays associated with manual data extraction and analysis

# POWERED BY NEXT GENERATION TECHNOLOGY

emtelliPro's Medical Language Understanding Engine leverages advanced Natural Language Processing (NLP) and Deep Learning algorithms to automatically identify, extract, and correlate data from the EMR to uncover key insights that were previously trapped within discrete and narrative data elements.

## UNDER THE HOOD

- NLP and Deep Learning models automatically mine structured and unstructured (narrative) text from within medical orders, EMR data, and diagnostic reports to automatically extract and codify medical entities using standard and custom ontologies (e.g. RadLex, SNOMED, MEDCIN, etc.)

- Advanced feature extraction identifies report sentences, segments, experiencers, negation, uncertainty, measurements, time expressions, and higher-level features such as follow-up recommendations to create a comprehensive, searchable database of clinical findings

- APIs and SDKs are available in C#, PHP, Python, Java, and custom clients can be easily created to support advanced integrations or custom app development

## EASY TO USE APPS

emtelliSuite apps allow customers to augment and extend the capabilities of their EMR.
Examples include:

- emtelliSearch™ enables real-time discovery and categorization of demographics, diagnoses, and trends within a single patient's chart or across an entire patient population of EMR records
- Comparison Search™ intelligently and accurately searches within an entire patient population of EMR records to determine whether a condition, procedure, or medication is present in one type of medical record and either present or absent in another, enabling faster and more effective development of and clinical best practices and appropriateness criteria
- Category Search™ identifies categories of findings, such as 'Cancer', 'Diabetes', or 'Medical Procedures' enabling faster and more accurate identification of member cohorts to inform plan design, preventative care programs, and incentive structures

## SIMPLIFY IT INTEGRATIONS:

- Quickly and easily integrates with any EMR or other text or document-based record systems
- Flexible cloud-based or on-premises models
- Highly scalable and performant, able to process millions of reports daily on a single server instance
- Secure and HIPAA-compliant
- Easy to deploy, configure, and use
- Extract data from multiple sources using standards-based interfaces (HL7, FHIR), file system integration, database connections, and OCR technology

**Make the emtelligent Choice**

emtelligent's advanced NLP engine transforms difficult-to-use, narrative medical text into valuable and actionable insights.

Enable innovation. Improve competitiveness. Drive performance.

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