

# emtelligent®

## Next-Generation Medical Language Understanding Powered by Deep Learning NLP

emtelligent's emtelliPro™ Medical Language Understanding engine is purpose-built to reveal key insights buried within unstructured medical text (e.g. EMR data, diagnostic reports, clinical notes, etc.). emtelliPro seamlessly integrates with clinical applications to enable analysis and codification of patient records to improve quality reporting, maximize reimbursements, and drive clinical research initiatives.



emtelligent's Smart Summary showcases how emtelliPro can identify relevant diagnoses from within the patient's clinical history



### THE PROBLEM

80% of medical data is unstructured.

- Narrative text from orders, reports, and clinical notes is trapped within the EMR and other fragmented systems making data analysis challenging if not impossible.
- Evidence-based decision making is hampered, increasing the risk of incorrect or missed diagnoses.
- Top-line revenue is limited because not all referrals and reimbursements are captured, and the value potential of rich health datasets remains untapped.



### THE SOLUTION

emtelliPro performs with superior coverage, accuracy, specificity, and speed compared to leading competitors and is able to mine millions of records in near-real-time to:

- Automatically extract information from within medical text to enable evidence-based decision making.
- Reduce clinical and medicolegal risk by enabling more timely, targeted care.
- Increase top-line revenue by maximizing reimbursements and capturing quality-based incentives.

## WHO WE SERVE

emtelligent is one of the only solutions that is able to address the diverse needs of organizations across the healthcare continuum.



**Hospitals and Health Systems:** Analyze clinical information and scanned documentation within the EHR to deliver relevant and actionable knowledge in real-time.



**Medical Imaging Organizations:** Collect, analyze, and correlate order, image, and report data across radiology, cardiovascular, and pathology imaging systems.



**Clinical Researchers:** Accelerate research productivity by uncovering deep insights into patient health and disease and freeing researchers from manual chart review.



**Payers:** Streamline data analysis across systems, specialties, and populations to improve competitiveness and drive performance clinically, operationally, and financially.



**Technical Integrators:** Fast-track integrations and development projects with extensible APIs, SDKs, and a diverse collection of developer apps and tools.

## THE TEAM

Based in Vancouver, BC, emtelligent is focused on making the jobs of healthcare professionals easier and their patients' lives better.

Led by a practicing radiologist and a Natural Language Processing PhD, emtelliPro is built from the ground-up by clinical and computer science experts. The team's powerful combination of deep clinical and data science expertise has made the emtelliPro one of the industry's first deep-learning-based Medical Language Understanding engines built specifically for next-generation medical applications.



**TIM O'CONNELL - CEO**  
M.ENG, M.D.

Practicing Radiologist in Vancouver.

Vice-Chair, Clinical Informatics,  
University of British Columbia.

25 years of IT experience including  
Bell Canada and Nortel Networks.



**ANOOP SARKAR - CTO**  
PHD

Full Professor of Computer Science  
at Simon Fraser University.

Machine Learning for Natural  
Language Processing expert.

More than 60 research publications  
with over 2300 citations.

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.