Welcome to the
Human Side of Tech

Medical Records Coding with AI-Powered Summarization

Medical record review and coding are traditionally time-intensive, manual processes that drive up costs and slow down case insights. TCDI is changing that by combining AI-driven automation with clinical validation to transform how medical records are processed, coded, and summarized. The result is faster access to critical information with stronger accuracy and consistency than traditional workflows.



AI-Enabled Workflow

Data Ingestion & Normalization

Ensure all medical records are collected, standardized, and ready for processing

AI Unitization & OCR

Convert records into structured, searchable data with enhanced OCR visibility

AI Coding & Categorization

Automatically code records across 7 key chronology categories

AI Summarization

Generate plaintiff-level summaries highlighting case-relevant medical insights

Clinical Validation (MSMR Team)

Validate outputs for accuracy and defensibility with TCDI's nurse and data team

CVLynx Reporting & Analysis

Enable dynamic analysis and reporting across structured and OCR data

TCDI Use Case Study

The Story Behind the Results

The process began with large volumes of unstructured medical records. This type of dataset traditionally requires weeks of manual review, coding, and chronology creation. Rather than relying on labor-intensive workflows, TCDI implemented an AI-driven approach to automate key stages of the process.

Medical records are first unitized and enhanced using advanced OCR, allowing full visibility into all content, including previously difficult-to-access details. AI models then code the data across seven common chronology categories and generate plaintiff-specific summaries, capturing critical medical information relevant to each case.

To ensure accuracy and defensibility, TCDI's Military Spouse Managed Review (MSMR) nurse and data team validate AI outputs, combining automation with clinical expertise. All structured and unstructured data are then integrated into our proprietary platform, CVLynx, enabling counsel to create dynamic reports such as provider-based chronologies and condition-specific summaries.

This combined approach replaces traditional manual coding and static chronologies with a faster process. Additionally, the improved data accessibility significantly reduces costs, giving legal teams a more flexible and powerful way to analyze medical records.