

Intelligent Medical Coding (IMC)

The Business Challenge

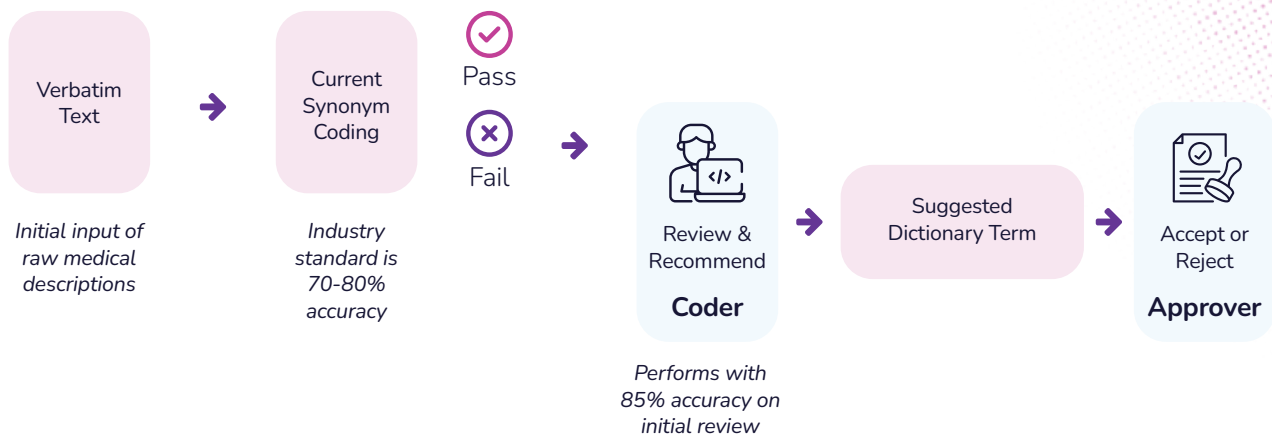
Medical coding has remained largely unchanged for decades. As data volume, complexity, and the number of patients in clinical trials increase, maintaining consistency and accuracy through traditional coding methods can become a critical and costly challenge.

Synonym lists help match terms from medical records to standardized medical codes. However, not all terms can be matched automatically.

About 20–30% require manual review, which is a resource-intensive, error-prone process. Medical coders spend considerable time assigning codes, and any discrepancies are sent back for reevaluation. An approver then reviews all decisions, accepting or rejecting them, adding a second layer of scrutiny and quality control before finalizing the code.



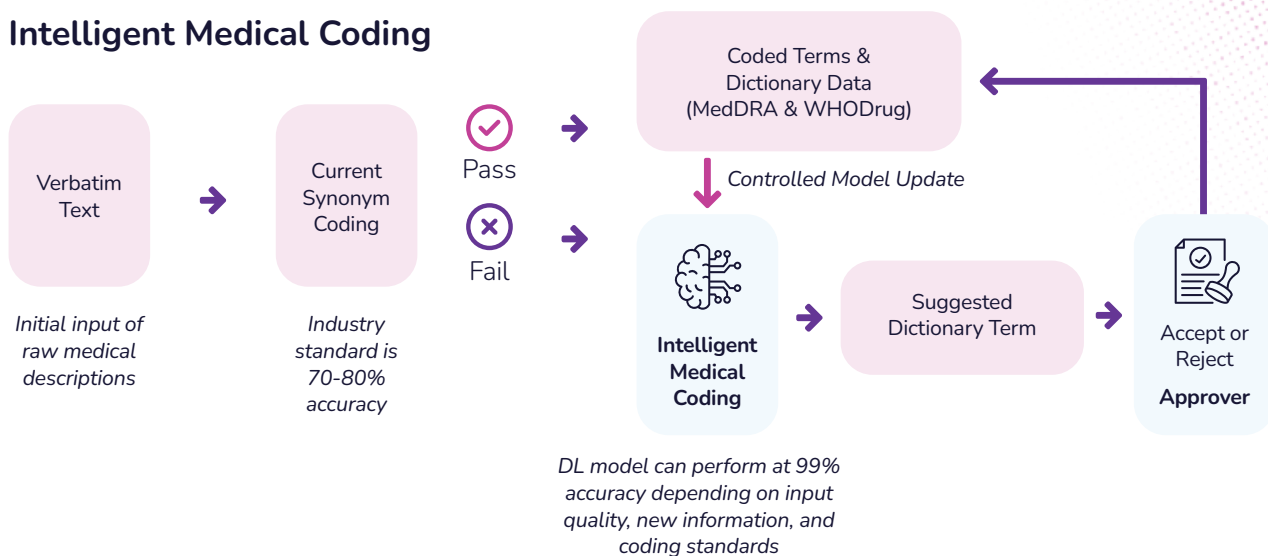
Traditional Medical Coding



Supplement Human Expertise with Deep Learning (DL)

CluePoints' Intelligent Medical Coding (IMC) uses advanced deep learning to enhance accuracy, efficiency, and uniformity in clinical trial coding. Trained on MedDRA, WHODrug, and verbatim terms from over 100 clinical trials, IMC proposes coding suggestions for human review, **reducing manual input by up to 50%** and shifting coders' focus from routine data entry to review, oversight, and analysis of coding trends.

Intelligent Medical Coding



- ✓ Receive suggestions for adverse events and concomitant medications at up to 99% accuracy for MedDRA and 95% for WHODrug dictionaries
- ✓ Reduce manual quality control checks that frequently lead to inconsistencies across studies
- ✓ Simplify dictionary upversioning with a DL model that instantly adapts to new versions of medical dictionaries, offering coding suggestions with up to 80% accuracy for even new terms
- ✓ Ensure accurate coding across a broad spectrum of medical jargon, drug names, and emerging terminology.
- ✓ Recognize patterns across nuanced medical terms like 'ache' and 'pain' based on how similar cases were coded before.
- ✓ Reduce the share of terms requiring manual review by 20-30%.

Transform Clinical Trial Data Review into a Strategic Advantage

IMC modernizes medical coding by replacing static, rule-based automation with a validated deep-learning model that embeds medical expertise into every suggestion, all within a human-in-the-loop workflow. The result is faster execution, lower cost, greater consistency, and higher clinical confidence at scale.



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