



Smart Medical Coding (SMC)

Speed and Consistency, Built into Every Code

Medical coding shouldn't be the slowest step in your fastest trial. Saama's Smart Medical Coding (SMC) auto-codes MedDRA and WHODrug verbatim terms in seconds via a self-governing, agentic AI workflow. Specialized AI agents pair machine speed with human judgment: predictions are ranked and confidence-scored, low-confidence terms route to peer review, and every decision is logged in a 21 CFR Part 11-compliant audit trail. The result: a single source of truth for verbatim coding that gets smarter with every term reviewed.

Benefits

Auto-Code in Seconds, Not Minutes

Replace manual dictionary lookups with NLP-powered ranked predictions for MedDRA and WHODrug, delivering the top 5 matches with confidence scores of up to 92% at Rank 1.

Stay Audit- and Submission-Ready

Built-in peer review, role-based access, and a 21 CFR Part 11-compliant audit trail keep every coding decision traceable and inspection-ready.

Scale Across Your Portfolio

Handle multilingual, abbreviated, and noisy verbatims, and standardize coding across multi-study, multi-program portfolios.

Code Consistently Across Studies

Centralized synonym lists and unique-term detection eliminate the problem of one verbatim being coded three different ways.

Get Smarter with Every Coder Action

A human-in-the-loop learning loop captures every approval and rejection, retraining models so accuracy and auto-code rates improve continuously.

Features



AI-Powered Auto-Coding

High-confidence terms code automatically while lower-confidence terms route to review — always with top-5 ranked predictions and confidence scores.



MedDRA & WHODrug Dictionary Management

Support for any current or historic dictionary version, ATC-level drug coding with block terms and stop words, and up-versioning impact analysis that flags terms needing re-coding.



Audit Trail & Part 11 Readiness

Every action is timestamped and attributable, with role-based access and validation documentation to support regulatory inspections.



Multi-Agent Workflow

Specialized AI agents handle intake and pre-processing, MedDRA and WHODrug coding, query generation, dictionary management, and orchestration — with human oversight at every escalation point.



Peer Review & Integrated Query Management

A complete coder-to-approver chain on every term, plus multiple query categories and ten pre-built query templates that replace spreadsheet-based review.



Dashboards & Coded Data Export

Real-time visibility into auto-code rates, pending queues, and reviewer throughput, with export of coded data.

The Saama Difference

Saama's SMC is the only medical coding solution in its category with a true human-in-the-loop learning loop that retrains its models on every coder action. Conventional tools rely on static dictionaries, manual lookups, and spreadsheet-driven review that introduce inconsistency and compliance risk. SMC pairs agentic AI automation with rigorous human governance, ensuring verbatim terms are coded quickly, consistently, and compliantly across every study in your portfolio.

Contact info@saama.com to schedule a personalized demonstration.