



Powered by BioInfo AI Solutions

Physicians AI Clinical Insights

The right information, before you walk in the room.

The Chart Prep Problem

 **15 min**

Average chart prep
time per patient

 **42%**

Of care gaps missed
in manual review

 **73%**

Of physicians report
EHR-related burnout

Physicians are drowning in data but starving for insight. Critical trends hide across dozens of encounters, care gaps slip through manual workflows, and clinical notes go unsearched. Your EHR has the answers — it just can't tell you.

AI-Powered Intelligence, Embedded in OneTouch



Pre-Visit Brief

AI-generated patient summary appears when you open a chart



Natural Language Queries

Ask clinical questions in plain English — no SQL or reports



Care Gap Detection

Automated alerts for overdue screenings, labs, and vaccines



Risk & Trajectory

Patient risk tiers plus condition trending over time



Population Health

Panel-level quality metrics, provider benchmarks, payer mix



Clinical Note Search

Semantic search across your entire panel's documentation

Pre-Visit Intelligence Brief



AI Clinical Insights

● Since Last Visit

A1C rose from 6.9 to 7.4 (3 months). New Rx: Jardiance 10mg added.

● Active Care Gaps

Overdue: Diabetic eye exam (14 mo). Missing: Annual foot exam.

● Lab Trends

A1C ↑ | eGFR stable | LDL ↓ on target

● Medications

6 active Rx. No interactions flagged. Metformin + Jardiance combo.

Embedded directly in the OneTouch patient chart



AI-generated narrative of changes since last visit



Active care gaps surfaced at the point of care



Trending lab values with directional indicators



Medication flags: interactions, polypharmacy, changes



Risk tier displayed with supporting evidence



Physicians rate insights — the system learns and improves over time

Ask Your Data Anything

Physicians ask questions in plain clinical language. The system translates to precise database queries using a semantic model mapping LOINC, ICD-10, RxNorm, and CPT codes.

"Show me diabetic patients with A1C above 7"

Translates to ICD-10 E11% + LOINC 4548-4 > 7.0



"Patients on metformin with no recent BMP"

Cross-references RxNorm + lab observation gaps



"Who missed their flu shot this season?"

CVX vaccine codes + date range against panel



"Show uncontrolled hypertension in my panel"

ICD-10 I10% + SBP > 140 or DBP > 90



Rich synonym mapping means physicians don't need to know codes — just ask the way they think.

Care Gap Detection



SCREENING

Diabetic patient overdue for retinal eye exam (12+ months)



LAB

Metformin user without BMP in 12 months



IMMUNIZATION

Annual flu shot not administered this season



FOLLOW-UP

Post-procedure monitoring referral with no follow-up encounter

Quality Measure

Impact

Closing care gaps directly

improves MIPS and HEDIS

quality scores — which drive

Medicare reimbursement rates

and payer contract

performance.

Better scores =

Higher reimbursement

Risk Stratification & Disease Trajectory

Automated Risk Tiers

Critical

Acute deterioration, emergency indicators

High Risk

Multiple uncontrolled conditions, significant gaps

Moderate

1-2 uncontrolled conditions or minor gaps

Low Risk

Controlled, current on screenings

Chronic Disease Trajectory

Beyond static risk scores — track how each patient's conditions evolve over time.



Improving

A1C trending down, BP at goal



Stable

Conditions controlled, on maintenance



Deteriorating

Key metrics worsening, needs intervention

Helps physicians prioritize who needs a longer visit and catch decompensation before it becomes an emergency.

Nothing Gets Missed



Follow-Up Integrity Tracking

- ✓ Referral ordered → Did the specialist visit happen?
- ✓ Lab ordered → Were results received and reviewed?
- ✓ Care plan created → Are milestones being met?
- ✓ Post-procedure follow-up → Was it scheduled and completed?

Cross-references care plans and referrals against subsequent encounters to find patients falling through the cracks.



Immunization Forecasting

Next 30 days

12 patients: Flu, 4 patients: Pneumovax

30-60 days

8 patients: Shingrix dose 2, 3 patients: Tdap

60-90 days

6 patients: Hep B series, 2 patients: HPV

Projects upcoming vaccines using CVX codes and patient demographics. Enables proactive front-desk outreach and batch scheduling.

Population Health Dashboard

68%

Diabetic A1C
< 7.0%
↑ 4% vs Q3

72%

HTN at
BP Goal
↑ 2% vs Q3

54%

Flu Shot
Compliance
Season in progress

127

Open Care
Gaps
↓ 31 from last month

Practice-Level Intelligence

- **Quality Metrics by Provider** Compare panel performance across your practice — identify coaching opportunities
- **Payer Mix Analysis** Visit volume and revenue trends by insurance type from encounter data
- **Cohort Filtering** Slice by condition, medication, risk tier, provider, date range — any combination

Search Your Clinical Notes

Semantic search across your entire panel's clinical documentation — notes, reports, imaging conclusions, and discharge summaries.

How It Works

- 1 Clinical notes are chunked and PII-redacted automatically
- 2 Indexed using hybrid vector + keyword search
- 3 Physician asks a question in natural language
- 4 System retrieves relevant passages with citations

Example Queries

"Which patients have I discussed bariatric surgery with?"

"Find notes mentioning GLP-1 agonist side effects"

"Patients with imaging showing pulmonary nodules"

"Any documentation of patient-reported falls in the past 6 months?"

"Notes where I recommended sleep study referral"

HIPAA-Compliant by Architecture

Security isn't an afterthought — it's the foundation. No patient data ever leaves the platform.



PHI Segregation

Patient identity stored in a separate, restricted database. Clinical analytics use anonymous surrogate keys only.



Dynamic Data Masking

6 masking policies (SSN, DOB, name, phone, email, address) enforced at the query engine level.



Role-Based Access

5 custom RBAC roles. Physicians see only their assigned patient panel. No unauthorized access.



AI Inside the Boundary

All LLM inference runs within the Snowflake governance perimeter. No PHI sent to external APIs.



Full Audit Trail

90-day rolling query log for HIPAA compliance. Every access to PHI is tracked and auditable.



PII Auto-Redaction

Clinical notes are automatically scrubbed of identifiers before indexing for AI search.



Ready to Transform Your Practice?

Implementation Timeline

- **Weeks 1-2** Data warehouse + FHIR integration
- **Weeks 3-4** AI intelligence layer + semantic model
- **Weeks 5-6** EHR embedding + physician UAT
- **Weeks 7-8** Compliance review + go-live

~60
days to live

From contract to production
clinical intelligence