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# VectorMind AI for Healthcare (Clinics & Hospitals)

**Less administration, better care: evidence-backed clinical and operational intelligence for modern healthcare providers.**

CohesionX's VectorMind applies secure, auditable Gen-AI to clinical notes, referrals, device streams and administrative records so teams spend less time on paperwork and more time on patients — while preserving privacy and auditability.



Clinics and hospitals face relentless document and data friction: referrals, scanned notes, imaging and lab reports, care plans, device telemetry, claims, and regulatory submissions. Manual documentation, inconsistent care records, and slow billing cause clinician burnout, delayed care pathways, and revenue leakage. VectorMind for Healthcare recognises these pain points and combines multimodal ingestion, provenance linking, business rules orchestration and domain-tuned reasoning to automate routine work, surface explainable clinical and administrative recommendations, and produce auditable evidence packs for compliance and revenue cycle recovery.

# Clinical Documentation Automation

Clinicians waste hours on discharge summaries, progress notes and referral letters; VectorMind automates capture and structure so records are accurate, consistent and immediately useful for care and billing.



business GPT

## How it works

- **Capture:** Iris accepts dictated notes, typed entries, scanned hand-written notes and device outputs (monitoring logs, infusion pump records).
- **Transcription & Extraction:** Speech-to-text (where applicable) plus Iris's multimodal extraction convert raw inputs into structured clinical fields (history, examination findings, interventions, medications, follow-up instructions).
- **Template Assembly:** Business GPT maps extracted elements to institutional templates (discharge summary, SOAP notes, referral letters), producing an explainable draft with cited source links.
- **Validation & Sign-off:** Neuroflow routes the draft to the responsible clinician with highlighted confidence scores and provenance; clinicians approve, edit or reject. Approved notes are written back to the EHR/HIS and tagged for downstream processes (billing, coding, follow-up).
- **Audit & Archive:** Atlas stores the evidence graph linking original inputs to the signed note for compliance and medico-legal queries.

## Gains

- **Significant reduction** in clinician documentation time and after-hours admin.
- **More consistent**, higher-quality clinical records that support safe handovers.
- **Faster downstream processes** (coding, claims, referrals) because structured data is available immediately.
- **Clear provenance** for medicolegal review and accreditation evidence.
- **Reduced transcription/coding errors** via source-linked extraction and clinician validation.



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# Assessment & Treatment Recommendation Support (Care-planning)

Turning assessments and test results into a coherent care plan often depends on specialist time and experience; VectorMind helps clinicians translate assessments into evidence - backed treatment options and care pathways.

## How it works:

Iris gathers assessments, results and observations and Atlas links them to the patient's prior records and institutional pathways. Business GPT proposes evidence - backed treatment options and Neuroflow turns approved plans into task workflows, tracking completion and capturing provenance for audit and learning.



**Faster, more consistent care planning | Improved adherence to clinical guidelines  
| Reduced time to first treatment | Better multidisciplinary coordination**

## More Healthcare Use Cases



### Consultation / Encounter Summarisation from Voice (Consultation capture)

Real-time note taking during consultations interrupts clinician-patient interaction & post-consultation notes are time-consuming and inconsistent. Iris transcribes consultations (with appropriate consent), extracts key clinical events & medication changes; Business GPT generates structured encounter summaries & follow-up instructions for clinician review; Neuroflow routes follow-up tasks & Atlas stores provenance for audits.



### Patient Progress Tracking & Outcomes Insights

Outcome measures & progress data are scattered across notes, outcome forms & devices, making trend detection & intervention timing difficult. Iris consolidates structured outcomes, vitals & device telemetry; Synaptic Search & Atlas analyse longitudinal trends, identify stagnation or deterioration & Business GPT surfaces suggested interventions & risk flags to clinicians & case managers.



### Administrative Workflow Automation (Scheduling, Reminders, Billing)

Missed appointments, manual scheduling & fragmented billing workflows reduce capacity utilisation & increase no-shows & denied claims. Neuroflow automates appointment scheduling & reminder workflows, triggers clinical or administrative follow-ups after encounters, posts validated billing items to ERP/chargemaster & opens exceptions for disputed or missing authorisations. Iris feeds the required source documents & Atlas provides provenance for each action.



### Clinical Knowledge Assistant (Protocols, Guidelines & Prior Cases)

Clinicians need rapid access to local protocols, prior cases & guideline excerpts during decision moments yet information is fragmented. Knowledge Nodes provides conversational access to approved protocols & training material; Synaptic Search & Atlas retrieve precedent cases & guideline citations & Business GPT summarises the relevant guidance with links to source documents for clinician review.



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VectorMind provides an affordable, easy-to-integrate Gen-AI solution, giving your employees access to the magic of all the top global commercial Gen-AI platforms, without exposing IP and sensitive data.



Get rid of tedious  
tasks & human error



Automate actions &  
set alerts



Always ensure factual  
AI answers



Homegrown  
affordable South  
African software

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