MVP ONE-PAGER

AI-Centered Modular EMR for Pediatrics + Oncology

Core platform (Medical Records, Pharmacy, Billing) with department add-ons, including continuous clinical trial monitoring and clinician-reviewed AI documentation.

Modular core + add-ons

AI optional + reviewable

Trials match: 0–5 scale

RxNorm validation path

What ships in the MVP
Core + pediatrics + pediatric oncology

Core Platform **3** Records · Pharmacy · Billing	Add-ons **3** Peds · Peds Onc · Trials	Trial Match Score **0–5** Explainable ranking

- **Medical Records:** patient chart, record access tracking, clinical documentation support
- **Pharmacy:** medication list, dispensing workflow, RxNorm validation + optional dispense API integration
- **Billing:** charge capture foundations and workflow integration points
- General Pediatrics module
- Pediatric Oncology module
- Clinical Trials: continuous monitoring + criteria-based matching to patient records
- Voice-to-notes and AI note generation are build-in but optional and clinician-reviewed.
- Confidence + rationale shown to reduce risk and build trust.
- Works with custom in-house or any external AI APIs.
- The system monitors clinical trial sources and re-runs matching in the background.
- Clinicians get a "Trials" tab with matches scored 0–5 (5 = strongest match).
- Each match includes "why" (criteria met / missing) so providers can review quickly and safely.

Clinical trial matching
Ranked candidates with "why"

5/5 Eligible   Trials
Phase II Immunotherapy in Pediatric ALL
Patient: Emma Thompson · MRN 12345
Age eligible   Dx match   Labs match

4/5 Eligible   Review
CAR-T Therapy for Relapsed Neuroblastoma
Patient: James Rodriguez · MRN 12348
Dx match   Stage match
Missing: one lab

2/5 Needs Review   Snooze
Targeted Therapy Protocol — Screening
Patient: Michael Chen · MRN 12346
Dx partial   Missing: labs
Discuss preference

Why now
Burnout + trial awareness + modular demand

- Clinician documentation burden and EHR usability are top drivers of burnout.
- Pediatric oncology programs need better trial awareness and workflow integration.
- Departments are demanding modularity: pay for what you use, configure to specialty workflows.

What success looks like

Operational + clinical outcomes

- Faster visit completion and fewer clicks for common workflows
- Reduced missed trial eligibility discussions
- Safer prescribing/dispensing flow with clearer risk signaling

Platform: EMR core + add-ons (`addons/...`)

MVP focus: Peds + Peds Oncology + Trials matching