Building the Clinical Access Ecosystem

A practical blueprint for predictable, equitable, and scalable trial enrollment



1. Context: Enrollment Is a System Problem

Recruitment shortfalls aren't caused by a lack of patients—they result from fragmented data, episodic relationships, and transactional incentives.

Fixing them requires re-wiring the clinical ecosystem so that access is continuous, measurable, and shared.



2. Foundations of a Practical Access Ecosystem

These steps form the *minimum viable* ecosystem—a foundation that compounds value with each trial.

Layer

Patient Relationship Infrastructure

Eligibility-as-Code

Provider Trust Networks

Access Analytics Laver

What It Means in Practice

Establish a living registry / PRM that connects CTMS, EHR, and ad leads. Every outreach becomes structured data.

Translate inclusion/exclusion text into Boolean or rules-engine logic.

Map top 20 referring physicians by therapeutic area. Build two-way communication and referral tracking.

Create dashboards tracking funnel volume, conversion, and time-to-contact.

First 90-Day Deliverables

- Consolidate all contact sources into one CRM/PRM. Define standard data schema (demographics, conditions, contact preference, status).
- Pick 3 active protocols and convert criteria into code. Validate against real EMR data for feasibility.
- Implement basic e-referral form with return feedback. Host one CME or lunch-and-learn per quarter.
- Standardize metrics definitions (Lead → Screen → Randomize).
 Report weekly in operations meeting.



3. Fixing the Site-Selection Information Gap

Today's pain point: Feasibility questionnaires are self-reported, outdated, and blind to real-world patient flow.

- Actionable solutions:
 - Data Integration Link registry counts and EMR prevalence to site profiles.
 - → Output: A "verified patient access score" for every site.
 - Continuous Feasibility Dashboard Refresh monthly with live data feeds.
 - → Output: Predictive view of site readiness per indication.
 - **Pilot Dynamic Feasibility in One Portfolio** Oncology, metabolic, or vaccine programs often show the clearest ROI.
 - → Output: 10–20% faster site activation on next study.
 - Include Diversity Index Track patient mix versus disease epidemiology.
 - → Output: Evidence for FDA diversity-action-plan compliance.

This converts site selection from opinion-based to data-verified and performance-linked.



4. Making the Top of the Funnel Work

Advertising & Digital Outreach

- Use retargeting only after educational exposure (whitepapers, videos).
- Measure not clicks but qualified conversions—contacts who pass prescreen.
- Deploy call-center or AI voice follow-up within **1 hour** of lead creation.

Provider Relationships

- Give referring physicians a portal to track patient status.
- Pay honoraria or CME credits for participation, not per-patient bounties.
- Provide post-study summaries—showing outcomes builds durable trust.

Data-Driven Discovery

- Run monthly EMR queries using computable criteria.
- Feed all pre-qualified patients into a centralized queue managed by recruiters.
- Close the loop—if patient declines, capture reason codes (transportation, time, mistrust).

Registries & Pre-Screened Cohorts

- Convert every screened-but-not-enrolled patient into a future cohort.
- Keep them warm via periodic communication and study updates.
- Aim to re-use 50% of registry participants across multiple protocols.
- **Result:** The funnel becomes self-refilling, not re-invented each trial.



5. Technology Enablement — But Only Where It Matters

The goal: reduce manual friction, not human connection.

Need	Practical Solution	Pitfall to Avoid
Automating pre-screening	Low-code workflow tools (Zapier, n8n, or CTMS API) that push potential matches to recruiters.	Over-engineering full AI stack before data hygiene.
Coordinator Copilot	Generative-AI templates for follow-up emails and text outreach; coordinator approval required.	Removing human validation—patients detect it instantly.
Privacy-Preserving Data Linkage	Tokenization or third-party data custodian service.	Centralizing PHI without consent—kills trust instantly.
Tele-visit & Home-Health Integration	Contract with mobile nursing vendors, integrate scheduling.	Assuming "DCT" means 100% remote—hybrid is the sweet spot.



6. Governance and Accountability

 Access Council: cross-functional team (BD, Ops, Recruitment, Provider Relations, IT) meets monthly.

Output: shared Access KPI dashboard.

- Standard Metrics:
 - Funnel conversion by channel
 - Referral velocity (time from provider referral to contact)
 - Diversity ratio vs. population baseline
 - Cost per randomized participant (CAC-R)
- **Incentives:** Tie CRO and site bonuses to *conversion efficiency* and *equity metrics*, not just enrollment volume.



7. Stakeholder-Specific Calls to Action

Stakeholder

Sponsors

CROs

Sites / Networks

Healthcare Providers

Patients & Advocates

Technology Vendors

Regulators & IRBs

Immediate Actions (0–6 months)

- Consolidate recruitment data vendors.
- Fund shared registry pilots with key site for all protocols. Build portfolio-level networks.
- Implement continuous feasibility platform. • Train study managers in access analytics.
- Deploy a unified PRM/CRM tool. Start a provider-referral outreach calendar.
- Register for e-referral portal. Host patient education sessions.
- Participate in registries. Provide feedback on materials.
- Offer open APIs for site PRM integration. • Pilot federated learning modules.
- Approve adaptive digital-consent models. • Encourage federated data validation pilots.

Structural Actions (6–24 months)

- Mandate eligibility-as-code submission Access Dashboard.
- Position "Access Intelligence" as a differentiator in RFPs. • Offer revenuesharing for enrollment outperformance.
- Create "Access-Ready Certification" for sites. • Form regional registry alliances.
- Integrate research reminders in EMR workflow. • Partner on co-authored outcome papers.
- Co-govern registry ethics boards. Serve on trial-design advisory panels.
- Establish industry data-sharing consortium for access metrics.
- Formalize diversity-metric reporting standards. • Support ongoing accessinfrastructure funding mechanisms.



8. The Strategic Payoff

When executed sequentially:

- **Quarter 1:** Consolidate data, define metrics, and stand up minimal viable access infrastructure.
- Quarter 2–3: Launch provider network pilots, automate pre-screening, and implement dashboards.
- Year 1: Demonstrate faster startup, improved diversity, lower CAC.
- **Year 2+:** Institutionalize continuous access—turn recruitment into a *strategic* capability rather than an operational scramble.



9. Closing Perspective

Access is no longer a side project of marketing or operations—it's the **core operating system** of modern clinical development.

Each stakeholder must act within their sphere now: build the data layer, invest in provider trust, codify eligibility, and measure access like revenue.

Only then does recruitment evolve from chance to precision—and from inefficiency to equity.





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We are dedicated to illuminating the trends, technologies, and policies that will transform how clinical trials are conceived, executed, and scaled. Our work informs, inspires, and equips decision-makers across the healthcare ecosystem with insightful analysis, bold ideas, and practical frameworks.