

BRIEF BACKGROUND

Public trial registries provide core study information, but clinicians also need current recruiting status, participating sites, local contacts, practical eligibility nuances and referral instructions.

Three research coordinators worked with disease teams to compile active trials. Core elements were entered as structured fields, and a retrieval-augmented LLM drafted protocol summaries and eligibility elements.

Research coordinators, oncologists and trial staff systematically reviewed the generated content for accuracy, completeness and local relevance.

The team validated 53 trials across 10 disease groups. Forty-eight trials, or 91%, were actively recruiting, and 30% had biomarker-specific eligibility criteria.

Configuration took approximately two to four weeks per disease group and used existing personnel without a new EHR build. The study demonstrated feasibility, not improved referrals or enrollment.

KEY VOCABULARY

Term	中文	Meaning / use
knowledge management	知识管理	The organized capture, maintenance and delivery of operational knowledge.
institution-specific	机构特定的	Adapted to the local sites, contacts, workflows and available trials.
point of care	诊疗现场	The moment and place where a clinician makes a patient-care decision.
trial inventory	试验清单	A maintained list of studies available within an organization.
recruiting status	招募状态	Whether a trial is actively enrolling participants.
eligibility element	入排标准要素	A structured criterion used to judge whether a patient may join.
biomarker-specific	生物标志物特异的	Restricted to patients with a defined molecular or biological feature.
retrieval-augmented generation	检索增强生成	Generation grounded in retrieved documents or records.
human validation	人工验证	Expert review to confirm accuracy, completeness and relevance.
last-mile execution	最后一公里执行	The operational work needed to turn information into action.
workflow liaison	流程联络人	A person who connects users, research teams and operational processes.
administrative ownership	管理责任归属	Clear responsibility for maintaining and updating content.
content curation	内容整理	Selecting, structuring, reviewing and maintaining information.
referral pathway	转诊路径	The process for moving a potential participant toward a trial team.
data freshness	数据新鲜度	How current and recently verified the information is.

USEFUL PHRASES

1. embed curated trial content in the clinical workflow

The application embeds curated trial content in the clinical workflow.

2. surface institution-specific information at the point of care

The system surfaces institution-specific information at the point of care.

3. structure the core data elements

The team structured the core data elements before adding AI-generated summaries.

4. accelerate initial content extraction

AI accelerated initial content extraction from trial protocols.

5. undergo systematic human validation

Every generated summary underwent systematic human validation.

6. assign clear administrative ownership

Each disease team received clear administrative ownership of its content.

7. keep recruiting status up to date

Coordinators must keep recruiting status up to date.

8. fit into existing research operations

The maintenance process was designed to fit into existing research operations.

9. support the last mile of trial enrollment

The platform supports the last mile of trial enrollment.

10. separate feasibility from downstream effectiveness

The study separates implementation feasibility from downstream effectiveness.

COMPREHENSION QUESTIONS

1. Why is public registry information insufficient for the last mile of enrollment?
2. Which trial elements were stored as structured data?
3. What did the LLM do, and what remained a human responsibility?
4. What evidence supports implementation feasibility?
5. Which outcomes were not evaluated?

RETELLING PROMPTS

30 seconds: Problem -> application -> feasibility result.

45 seconds: Collect -> structure -> generate -> validate -> maintain.

60 seconds: Apply the pattern to an SP knowledge base.

5-MINUTE SPEAKING / OUTPUT TASK

Your role: Propose a maintainable knowledge assistant to a CRO statistical-programming manager.

Minute 1: Choose one recurring knowledge problem.

Minutes 2-3: Define structured fields, retrieval sources, LLM scope, validator and content owner.

Minute 4: Add review dates, source versions, ambiguity flags, change history and retirement rules.

Minute 5: Give a 90-second recommendation and explain how content freshness will be maintained.

ONE SENTENCE TO KEEP

A useful AI knowledge system keeps local knowledge structured, validated, current and owned by the people responsible for acting on it.