

# Clinical trial patient enrollment and monitoring

This workflow automates clinical trial patient enrollment and monitoring by screening eligible candidates, tracking enrollment status, and continuously monitoring patient data for safety and compliance throughout the trial duration.

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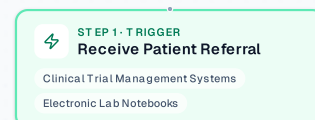


## WORKFLOW TRIGGER

New patient referral received for clinical trial screening

## Visual Flow

Each node represents an automated step. Connections show how data and decisions move through the workflow.



**STEP 2 · ACTION**  
**Screen Eligibility Criteria**  
Clinical Trial Management Systems  
Bioinformatics software suites LIMS

**STEP 3 · DECISION**  
**Determine Enrollment Eligibility**  
Clinical Trial Management Systems

**STEP 4 · ACTION**  
**Enroll Qualified Patients**  
Clinical Trial Management Systems  
Electronic Lab Notebooks

**STEP 5 · ACTION**  
**Monitor Patient Data**  
LIMS Mass spectrometry data systems  
Clinical Trial Management Systems

**STEP 6 · ACTION**  
**Generate Compliance Reports**  
Regulatory submission platforms  
Clinical Trial Management Systems

**STEP 7 · OUTPUT**  
**Deliver Trial Status Dashboard**  
Clinical Trial Management Systems



# Step-by-Step Breakdown

Detailed explanation of each automated stage in the workflow.

1

## Receive Patient Referral

A new patient referral is submitted for clinical trial participation screening. The referral includes basic demographics and medical history data.

Clinical Trial Management Systems

Electronic Lab Notebooks

2

 ACTION

## Screen Eligibility Criteria

Patient medical records and lab results are automatically evaluated against predefined inclusion and exclusion criteria. Bioinformatics tools analyze genetic markers if required for the trial.

Clinical Trial Management Systems

Bioinformatics software suites

LIMS

3

 DECISION

## Determine Enrollment Eligibility

The system evaluates screening results and determines if the patient meets all trial requirements. Patients are either approved for enrollment or flagged for manual review.

Clinical Trial Management Systems

4

## Enroll Qualified Patients

Eligible patients are automatically enrolled in the trial with assigned patient IDs and randomization codes. Baseline assessments and consent documentation are scheduled.

Clinical Trial Management Systems

Electronic Lab Notebooks

5

ACTION

## Monitor Patient Data

Continuous monitoring of patient vital signs, lab results, and adverse events through integrated systems. Mass spectrometry data and biomarker levels are tracked against safety thresholds.

LIMS

Mass spectrometry data systems

Clinical Trial Management Systems

6

ACTION

## Generate Compliance Reports

Automated compilation of patient monitoring data, protocol deviations, and safety reports for regulatory submission. Data integrity checks ensure accuracy and completeness.

Regulatory submission platforms

Clinical Trial Management Systems

7

OUTPUT

## Deliver Trial Status Dashboard

Real-time dashboard displaying enrollment progress, patient status, and key trial metrics. Automated alerts are sent for safety concerns or protocol violations.



### Outputs

- Patient enrollment status reports
- Real-time safety monitoring alerts
- Regulatory compliance documentation



### Key Metrics

- Patient enrollment rate
- Protocol deviation frequency
- Time to enrollment completion



### Tools & Integrations

- Clinical Trial Management Systems
- Electronic Lab Notebooks
- Bioinformatics software suites
- LIMS
- Mass spectrometry data systems



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