# For each clinical trial, extract

* **Core Trial Metadata**
  + **NCT ID**: Unique trial identifier for tracking and linking
  + **Status**: Current state (recruiting, completed, terminated, etc.)
  + **Dates**: Registration, start, completion, update timestamps
  + **Phase**: Trial phase (I-IV, early phase, etc.)
  + **Study Type**: Interventional, observational, expanded access
  + **Enrollment**: Target and actual participant counts
  + **Sponsor/Collaborators**: Primary sponsor and key collaborators
* **Scientific Content**
  + **Intervention**: Drug details, dosages, administration routes
  + **Mechanism of Action**: Extracted from descriptions
  + **Target/Pathway**: Biological targets being addressed
  + **Gene**
  + **Protein**
  + **Chemical compound**
  + **Biomarkers**: Used for enrollment, stratification, or outcomes
  + **Study Design**: Randomization, blinding, control types
  + **Arms/Groups**: Number, types, and descriptions
  + **Primary/Secondary Outcomes**: Endpoints and timeframes
* **Patient-Related Information**
  + **Eligibility Criteria**: Complete inclusion/exclusion criteria. Decompose complex criteria into structured parameters
  + **Demographics**: Age, sex, and other demographic requirements
  + **Disease Characteristics**: Subtypes, stages, severity
  + **Prior Treatments**: Required or excluded previous therapies
* **Operational Aspects**
  + **Locations**: Trial sites, countries, and regions
  + **Investigators**: Site PIs and leadership teams
  + **Enrollment Status**: Site-specific recruitment progress
  + **IPD Sharing**: Data sharing commitments and platforms