Excelra’s Clinical Trial Outcomes Database (CTOD) supports clinical trial design optimization, by providing structured data from clinical literature to power intelligent data driven insights.

We offer our global Biotech and Pharma clients, customized indication-specific and/or drug-specific summary level databases, organized using PK/PD, clinical efficacy and safety outcomes data from clinical literature. We also offer on-demand user friendly Shiny applications to explore CTOD with dynamic dashboard generation.

**Clinical Trial Outcomes Database Services**

**Informed Trial Design Optimization Using CTOD**
- Right endpoint to track efficacy
- Right population for the trial
- Optimal duration (Safety vs. Efficacy)
- Right dose insights

**Clinical Trial Outcomes Database Scope**

**Unlocking insights from clinical trial literature**

Published clinical trial data is a goldmine of aggregated knowledge. Excelra’s Clinical Trial Outcomes Database has been meticulously curated with our 15+ years’ experience in extracting, analysing and harmonizing publicly available clinical trial information into analysis-ready datasets for Model-Based Meta-Analysis (MBMA), NONMEM and other statistical techniques. With regular data updates, CTOD provides extensive data coverage across major therapeutic areas and their associated drug, disease and clinical trial intelligence.

**Pharmacodynamics**
- Efficacy Outcomes
- Biomarker Outcomes
- Clinical Outcomes
- Progression Outcomes
- Quality of Life Outcomes
- Safety & Tolerability Outcomes

**Literature**
- Manuscript Details
- Data Source Details
- Link to Article
- Direct Link (DOI)

**Study Design**
- Trial Design
- Registry Details
- Clinical Phase
- Randomization & Control Flags
- Inclusion Criteria
- Exclusion Criteria

**Interventions**
- Pharmalogical Rx
  - Planned Treatment
  - Actual Treatment
  - Dossage Regimen
  - Dossage Schedule

- Non-Pharmalogical interventions
  - Behavioural Modifications
  - Lifestyle Modifications
  - Rescue Modifications
  - Diet
  - Exercise

**Patient Demographics**
- Patient Covariates
- Medical Histories
- Concomitanta
- Conditions
- Prior Therapies
- Sub Groups
- Stratifications
- Baseline Biomaker Levels
CTOD Applications in Clinical Research

**Optimize & Accelerate Drug Development**

CTOD comprises structured public source data on numerous clinical trial parameters including drug safety and efficacy, trial design and clinical outcomes. These analysis-ready datasets can be utilized to provide actionable insights that empower:

- Candidate selection
- Target selection
- Candidate development & Go/No-Go decisions
- Clinical trial design optimization

- Regulatory (Labelling)
- Comparative & effectiveness research
- Hypothesis generation for post-approval therapeutic optimization
- Link/scale biomarkers to clinical outcome
- Competitive intelligence
- Benchmarking

**CTOD in Numbers**

>100 Disease Areas  
11 Therapeutic areas  
>15k Clinical Trials

<table>
<thead>
<tr>
<th>Disease Area</th>
<th>Number of Disease Areas (DAs)</th>
<th>Number of Trials</th>
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<tbody>
<tr>
<td>Autoimmune</td>
<td>11 DAs, 1500+ trials</td>
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<tr>
<td>Cardiovascular</td>
<td>8 DAs, 800+ trials</td>
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<tr>
<td>Genitourinary</td>
<td>5 DAs, 500+ trials</td>
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<tr>
<td>Infections</td>
<td>5 DAs, 500+ trials</td>
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<tr>
<td>Metabolic</td>
<td>4 DAs, 1000+ trials</td>
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<tr>
<td>Neuroscience</td>
<td>19 DAs, 2500+ trials</td>
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<tr>
<td>Oncology</td>
<td>32 DAs, 8000+ trials</td>
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<tr>
<td>Ophthalmology</td>
<td>4 DAs, 400+ trials</td>
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<tr>
<td>Others</td>
<td>12 DAs, 1000+ trials</td>
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<tr>
<td>Pain &amp; Inflammation</td>
<td>4 DAs, 500+ trials</td>
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<td>Respiratory</td>
<td>2 DAs, 600+ trials</td>
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**Range of Rx, Clinical & Safety Outcomes, Populations**

- ~1,000,000 patients
- Wide range ethnicities, age groups, populations
- >2000 unique treatments
- Multiple statistical populations
- >2 million records
- >200 million data points
- >1000 distinct efficacy outcomes
- Vast safety outcomes data
Leveraging a techno-manual curation methodology, vast data from clinical trial literature is carefully structured around the evidence-based PICOS framework in CTOD. At Excelra, a rigorous 3-level Quality Control process is established to deliver best-in-class, high quality data with >99% accuracy proven in real-world analysis scenarios.

**CTOD Data Sources & Data Curation Process**

**Best-in-class analysis ready data**

We have successfully delivered 500+ customized databases to more than 25 top global Pharma and Biotech companies.

**The Excelra Edge**

**The leading Clinical Pharmacology & Clinical Trial Outcomes Database services provider**

**Our Advantages**

- **>99% Accuracy**  
  High Quality is ensured with 3 level Quality Control (QC) process
- **100+ Team of experts**  
  PharmD, MPharm and PhD
- **15+ Years**  
  Extensive experience
- **100+ Indications**  
  Across several therapeutic areas
- **2-8 Week Quick turnaround**  
  90% of projects delivered
You may also be interested in our allied custom curation offerings:

- Structuring disparate and heterogeneous data from preclinical/clinical reports
- On demand data support for Quantitative Structural Pharmacology (QSP) applications

To know more, visit: https://www.excelra.com/clinical/#clinical_trial

Excelra’s Service Portfolio

<table>
<thead>
<tr>
<th>Insights</th>
<th>Data</th>
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<tr>
<td><strong>Discovery</strong></td>
<td>• Data Science Driven Drug Discovery</td>
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<td></td>
<td>• Target Identification</td>
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<td>• Target Dossier Services</td>
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<td></td>
<td>• Chemistry Curation Services</td>
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<td></td>
<td>• GOSTAR Structure Activity Relationship database</td>
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<td><strong>Translational</strong></td>
<td>• Biomarker Discovery</td>
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<td>• Drug Repositioning</td>
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<td>• Life Cycle Management</td>
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<td>• Systems Biology Informatics</td>
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<td></td>
<td>• Biology Curation Services</td>
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<td>• GOBIOM Biomarker intelligence database</td>
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<td><strong>Clinical</strong></td>
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<td>• Clinical Trial Outcomes Database</td>
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<td><strong>Value Evidence</strong></td>
<td>• Outcomes Research</td>
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<td>• Epidemiology Modelling</td>
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<td>• Economic Modelling</td>
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<td>• Value Evidence Communication</td>
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<td>• RWE &amp; Big Data Realization</td>
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<td>• SLR &amp; Meta-analysis</td>
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<td><strong>Technology Solutions</strong></td>
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<td>• Enterprise Cloud Ops</td>
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<td>• Enterprise Digital Transformation</td>
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About Excelra

Excelra’s data and analytics solutions empower innovation in life sciences across the value chain from discovery to market. The Excelra Edge comes from a seamless amalgamation of proprietary curated data assets, deep domain expertise and data science. The company’s multifaceted teams harmonize and analyze large volumes of disparate unstructured data using cutting-edge technologies. We galvanize data-driven decisions to unlock operational efficiencies to accelerate drug discovery and development. Over the past 18 years, Excelra has been the preferred data and analytics partner to over 90 global clients including 15 of the top 20 large Pharma companies.