



# **Global Excellence** **China Expertise**

Advance Human Health through Delivery Excellence

Tigermed Group  
[www.tigermedgrp.com](http://www.tigermedgrp.com)

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# Tigermed

Enabling Life-Changing Therapies with Excellence and Commitment

We are a full-service global CRO committed to supporting biopharmaceutical and medical device innovation in the best possible way. With a broad portfolio of services and a promise of quality, from preclinical development to clinical trial to commercialization, we are devoted to moving our customers through their development journey efficiently and cost-effectively. Tigermed currently represents a worldwide network of more than 100 subsidiaries and 170 offices and sites, with over 8,800 employees across 52 countries in Asia Pacific, Europe, North & South America and Africa.

**8,800+**

Global Employees

**2,500+**

Global Customers

**179**

Global Offices & Service Locations

**59**

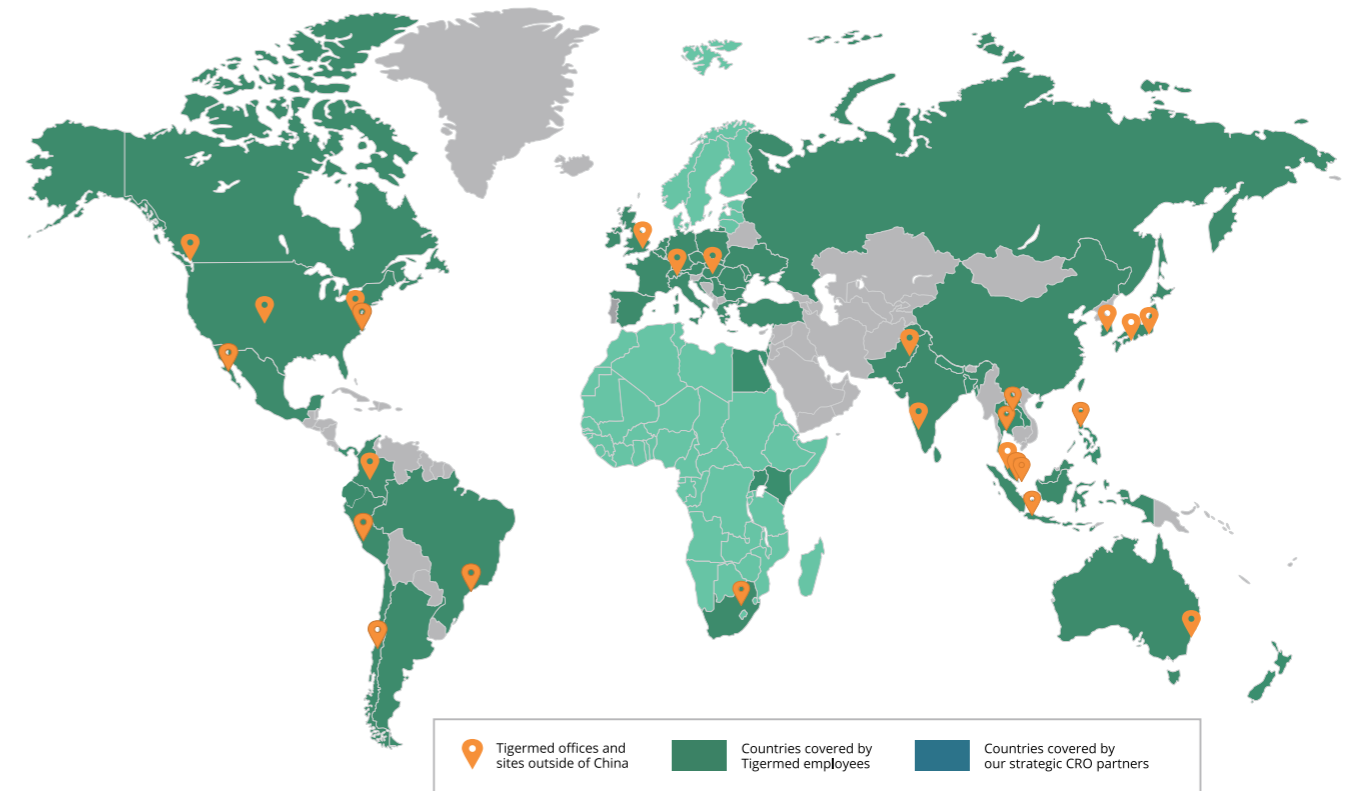
Innovative Drugs in China

## Global Footprint

**52** Countries with Tigermed Employees

**26** Offices & sites outside of China (legal entities)

- |  |   |
|--|---|
| <b>Tigermed Australia</b><br>Sydney, Australia           | <b>Tigermed America</b><br>Fort Collins, Colorado, US |
| <b>DreamCIS</b><br>Seoul, South Korea                    | <b>BDM Consulting</b><br>Somerset, New Jersey, US     |
| <b>Tigermed Malaysia</b><br>Puchong Selangor, Malaysia   | <b>Frontage Lab</b><br>Exton, Pennsylvania, US        |
| <b>Tigermed Asia Pacific</b><br>Singapore                | <b>Tigermed Canada</b><br>Vancouver, BC, Canada       |
| <b>Tigermed Singapore</b><br>Singapore                   | <b>Tigermed Columbia</b><br>Medellin, Columbia        |
| <b>Tigerise (Tokyo)</b><br>Tokyo, Japan                  | <b>Tigermed Mexico</b><br>Tijuana, Mexico             |
| <b>Tigerise (Osaka)</b><br>Osaka, Japan                  | <b>Tigermed Chile</b><br>Santiago de Chile            |
| <b>PT Tigermed Indonesia</b><br>Jakarta, Indonesia       | <b>Tigermed Brazil</b><br>San Paulo, Brazil           |
| <b>Tigermed India</b><br>Karnataka, India                | <b>Tigermed Peru</b><br>Lima, Peru                    |
| <b>Tigermed Philippine</b><br>City of Makati, Philippine | <b>Opera CRO</b><br>Timisoara, Romania                |
| <b>Tigermed Thailand</b><br>Bangkok, Thailand            | <b>Tigermed Swiss AG</b><br>Zug, Switzerland          |
| <b>Tigermed Lao Sole</b><br>Vientiane, Laos              | <b>Tigermed UK</b><br>London, United Kingdom          |
| <b>Tigermed Pakistan</b><br>Lahore, Pakistan             | <b>Tigermed South Africa</b><br>Gauteng, South Africa |



### Premier Clinical Research Network in China

Best-in-class site relationships in China with therapeutic depth and expertise.

**101**

Subsidiaries and Joint-Ventures in China

**153**

Offices and service locations in China

**1,280**

Clinical trial sites in collaboration

### Delivering Tailored Solutions across Full Range of Healthcare Innovation

Whether you are developing a small molecule or biologic, a vaccine or medical device, we have tailored solutions to move your research forward.



Small Molecule



Biologics



Cell & Gene Therapy



Medical Device



Rare Disease



Vaccine



## Serving China Healthcare Innovation

### Innovative Drugs Supported

Since 2004, Tigermed Group has supported the development of 59 approved Class 1 Innovative drugs in China. <sup>(1)</sup>

59

### Innovative Projects Participated

Since 2004, Tigermed Group has supported 527 Class 1 innovative drug research projects in China. <sup>(1)</sup>

527

<sup>(1)</sup> Class 1 innovative drug projects include clinical operations, imaging analysis, SMO, biometrics, central lab, EDC, PV, etc.

## Proven Track Record of Project Delivery

Innovative Drug Clinical Projects

527

Multi-region Clinical Trials (MRCT)

88

Clinical Operations Projects

3,000+

Medical Device Clinical Trials

590+

Biometrics

3,400+

Site Management (SMO)

2,300+

Pharmacovigilance

560+

Medical Imaging

150+

Medical Device Registration

5,800+

Drug Registration

1,870+

Medical Writing

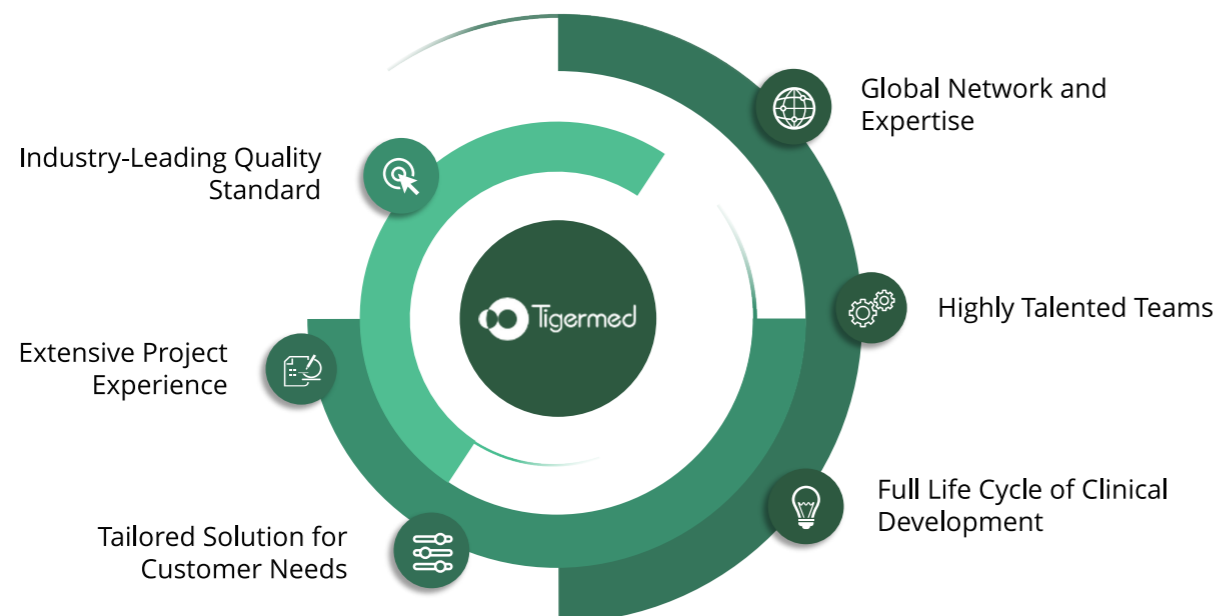
1,440+

GMP Consulting

600+

## Harnessing Our Passion and Expertise

Competitive Edges that Set Us Apart



## A Full Suite of CRO Capabilities

Pre-clinical	Phase I-III	Integrated Services	Phase IV & RWS
<b>Medicinal Chemistry</b> <b>Compound Screening</b> <b>DMPK</b> <b>Safety &amp; Toxicology</b> <b>Bioanalysis</b> <b>CMC</b> <b>Central Laboratories</b> <small>(Frontage)</small>	<b>Medical Science &amp; Strategy</b> <small>(Tigermed)</small> <b>Regulatory Affairs</b> <small>(Tigermed)</small> <b>Global PM &amp; Operations</b> <small>(Tigermed)</small> <b>Clinical Monitoring</b> <small>(Tigermed)</small> <b>Biometrics</b> <small>(Tigermed / Macrostat)</small> <b>Site Management (SMO)</b> <small>(SIMO)</small> <b>Subject Recruitment</b> <small>(Rzmed)</small> <b>Medical Device &amp; IVD</b> <small>(Tigermed Jyton)</small> <b>Vaccine</b> <small>(Tigermed / Rzmed)</small>	<b>Medical Imaging</b> <small>(Fantastic)</small> <b>Pharmacovigilance</b> <small>(IntelliPV)</small> <b>Medical Translation</b> <small>(Yaxincheng)</small> <b>Third Party Audit</b> <small>(TLT)</small> <b>GMP Consulting</b> <small>(Canny)</small> <b>Functional Service</b> <small>(Tigermed)</small> <b>Central Laboratories</b> <small>(Teddy Lab)</small> <b>Call Center</b> <small>(Tigermed)</small>	<b>Post-market Research</b> <small>(Tigermed / Rzmed)</small> <b>Real World Study</b> <small>(Tigermed)</small> <b>Investigator-initiated Study</b> <small>(Tigermed / Rzmed)</small>

## Regulatory Affairs

### Full Regulatory and Submission Services

Regulatory services for innovative drugs & generics globally, including chemical drugs and biologics products, IND/CTA/NDA, supported with eCTD submission.

### Expertise with Global Reach

60+ experts with years of working experiences with FDA, NMPA, and EU health authorities, and a deep understanding of ongoing regulatory reforms worldwide.

### Feasible Regulatory Strategy

We can provide you with feasible submission strategies and proactive planning which applying up-to-date, robust regulatory intelligence.

1,870+

Global drug registration projects

5,50+

Drug registration customers

## Medical Translation

350 M+

Words/ year

380+

Full time employees

20,000+

Translation projects

600+

Global customers

### 20+Years in Medical Translation

The largest medical translation service provider in China, with twenty years' dedicated experience.

### Deep Expertise in Translation

Dealing with 4 million Chinese characters and 50 projects daily, expertise in CN, EN, Japanese, German, French, Korean, Spanish, etc.

### Online Platform YXC-TP

TPM System achieving dynamic tracking during full paperless translation process.

### Therapeutic Depth

Expertise includes human drugs (chemicals, biologics, pharmaceuticals, etc.), medical devices (including diagnostic reagents) and other medical products.

## Global GMP Consulting

### GMP and Regulatory Compliance

As a leader in GMP compliance consulting, we offer a full range of services in GMP compliance from development through commercialization, and help you design or adapt your quality and safety processes to minimize the risks involved in (bio) pharmaceutical production.

We provide comprehensive consulting services to ensure US cGMP, EU-GMP, WHO GMP and Chinese GMP compliance. Our services cover the entire life cycle of the GMP regulatory system.

- GMP Compliance (China and Overseas)
- GMP Auditing – Mock Inspections
- Factory Compliance
- Laboratory Quality System Compliance

600+

GMP compliance cases globally, incl. 100+ cases for EU/FDA/TGA inspections

1,000+

China and global customers & partners

24 Years

24+ years in medical consulting








80+

Professional consultants

60+

Successful onsite inspections by US FDA

## Medical Science and Strategy Consulting








-  Phase I-IV drug and medical device protocols
-  Clinical study reports (Phase I-IV)  
Patient narratives /appendices /publishing /basic results disclosure /lay summaries /redaction
-  Informed consent forms
-  Clinical development plan
-  Investigator brochures
-  Clinical overview (module 2.5), Clinical summaries (module 2.7), Integrated summaries of safety and efficacy, RMP.
-  Investigator meeting materials

## Vaccine Clinical Trials

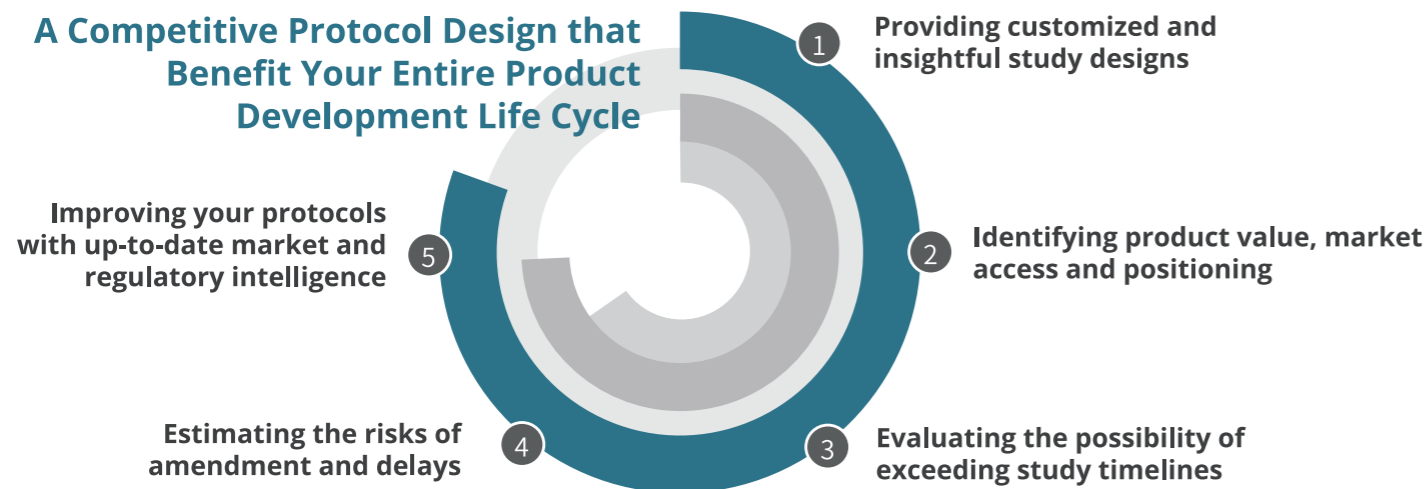
Vaccine MRCT projects cover 10+ countries in APAC, Europe, Latin America and Africa with 140,000 subjects enrolled.



### Vaccine Clinical Research Process

-  Team Organization
-  Documents and SOP Preparation
-  Base Setup
-  IEC reviewing
-  HGRAC & Agreement
-  Site Initiation
-  Enrollment & Monitoring
-  Data clean & Database Lock
-  Site Close Out

### A Competitive Protocol Design that Benefit Your Entire Product Development Life Cycle



9 COVID-19	2 Rabies		
3 HBV	2 HPV	1 Mumps	
Proven Track Record of Vaccine Clinical Trial Deliveries			
8 Influenza	2 HIV		
2 HAV	1 Nasopharyngeal cancer	1 Rotavirus	1 Malaria
2 Poliomyelitis	1 Influenza and pneumococcal		



## Clinical Operations

From start-up to close-out, our experienced clinical operation teams ensure efficient site support, patient safety and data monitoring through a complete project management system and effective relationships with widely distributed study sites. Our wide network of clinical experts ensures global consistency and high standards that meet ICH-GCP guidelines, wherever we manage your clinical trials.

### Medical Science

With a sound quality management and quality control system, and a proven track record in obtaining high-quality clinical research data, we are committed to ensure the compliance with both ICH-GCP and Chinese GCP requirements during your clinical trials.



### Early Stage Clinical Development (Phase I & IIa)

By leveraging our many clinical facilities, biometrics capabilities, PK/PD study experts, and project management experience, we collaborate closely with you to develop tailored roadmaps for your study and aim to maximize efficiency, anticipate challenges, and mitigate risk.

### Late Stage Clinical Development (Phase IIb & III)

By making use of our robust in-house quality management system, well-developed SOPs, extensive experience in international project management, we have executed numerous large-scale trials efficiently and cost-effectively.



### Medical Monitoring

Our Medical Monitoring team is composed of clinical physicians with specific expertise and abundant experience in clinical trials. Regarding to ICH-GCP and Chinese GCP regulation, we have a well-established medical monitoring management system to ensure the subject safety, the medical compliance with the protocol and ICH GCP requirement.

### Project Management

Besides our experience in various projects, we also apply our company values in our project management. We aim to be flexible, innovative, respectful, and honest. By doing so in all our activities globally and in a broad spectrum of therapeutic areas, we help you to successfully navigate any hurdle in clinical development.



## Biometrics

850+

Global Biometrics Experts

3,400+

Clinical Projects

160+

Global Customers

19

NDA/BLA Submissions to FDA with new indications

- Teams in APAC and US for global customer reach
- Deep understanding of therapeutic areas like Oncology, Immunology, Endocrinology, Neurology, Infectious Diseases, etc.
- Well known industry reputation for being highly reliable and trustworthy
- Excellent tracking record of quality and on-time deliverables



### Data Management

- Data capture and management using EDC systems
- CRF/eCRF design
- Database design, development, and maintenance
- Data validation specifications and edit check programming & testing

### Biostatistics

- Randomization schedule development
- Statistical Analysis Plan (SAP) and TFL Shells development
- Data Monitoring Committee, Evaluation Committee and Interim Analysis support
- Integrated summary of efficacy and safety (ISE/ISS)
- Statistical analysis report

### Statistical Programming

- Development of submission-ready datasets and supporting documents in CDISC format: Annotated CRF, SDTM, ADaM, Define.xml and Reviewer's Guide
- Generation of Analysis Datasets

## Pharmacovigilance (PV) and Clinical Safety

A Full Suite of PV Services at Your Disposal

### Pharmacovigilance Operations for Clinical Trials

- PV system introduction
- Preparation: Review protocol; Review investigator brochure; Review CRF; Draft safety management plan; database setup
- Case management
- Meetings such as safety review committee
- Draft/Review DSUR
- Draft/Review risk management plan

### Post-Marketing Pharmacovigilance Operations

- Call center
- Literature search
- Case management, including cases from Health Authority and oversea serious adverse reaction cases
- Draft/Review PSUR
- Draft Annual Report
- Signal detection
- Draft/Review risk management plan

### Support Services Outsourcing

- Pharmacovigilance Audits
- Training
- Pharmacovigilance system outsourcing

### Data Security

- Tigermed's SOP and relevant guides have been updated according to EU General Data Protection Regulation.
- Procedures for regular testing, assessment and evaluation control objectives.

**150+**  
Global Customers

**6,000+ /Year**  
Retrieval Quantity  
In EN and CN

Pharmacovigilance  
Services

**10,000+ /Year**  
PV Case Report

**400+**  
Total Projects

**40+**  
Multi-Region Clinical  
Trial Projects

## Site Management

### End-to-End Onsite CRC Services for Clinical Development

- Exemplary quality and deliverables
- On-time and on-budget approaches
- Global standard + strong customer service orientation
- Flexibility for workload and timeline fluctuation

**2,900+**

SMO total employees  
Including 2,700 full-time CRCs

**1,280**

Clinical sites in  
collaboration

**150+**

Cities with Tigermed  
CRCs in China

**25**

Branches in China  
Headquartered in Hangzhou

### Flexible Trial Support with Knowledge and Expertise

- 2,300+ Site management projects
- Studies cover Phase I - IV and 70% of which are sponsored by global pharma companies
- Indications include: oncology, hematology, diabetes, cardiology, infectious disease and nephrology, etc.

### SMO Service with Proven Quality and Efficiency

- Provided Phase I-IV site management services to innovative drug companies, biotechs and Top20 global pharms.
- Supported by 270+ project managers (PM) and 150+ line managers (LM) who are experienced with GCP compliance.
- CRC team provides day-to-day management, project management, training, QA and emergency intervention during clinical trials at clinical trial sites.
- One of the largest patient and healthy volunteer recruitment teams in China offering support from Phase I to IV.

## Subject Recruitment



### Strength and Advantages

- Recruiting service cover all major cities and surrounding regions in China
- Extensive experience in recruiting patient population for multiple TA like oncology, cardiovascular disease, infectious disease, etc., ranging from phase I to IV
- Strong network of clinical resources and disease experts, and online promotional & educational channel to support fast and efficient enrollment

### Recruitment Center

- Patient recruitment
- Patients health education
- Academic meetings
- Medical mobile APP business expansion
- Recalling the long-lost patients

## Third Party Audits

Effective Audit Services for Quality and Compliance



## Medical Imaging Services

Technology-driven Imaging Evaluation to Support Your Decision-Making.



### One-Stop Imaging Evaluation Services

Validated imaging system / Protocol design & consultation / Imaging acquisition / Image read & adjudication / Project management / Technology consulting



Clinical medical imaging projects

150+

Global customers

60+

Projects successfully submitted to FDA/NMPA

20+

Imaging experts

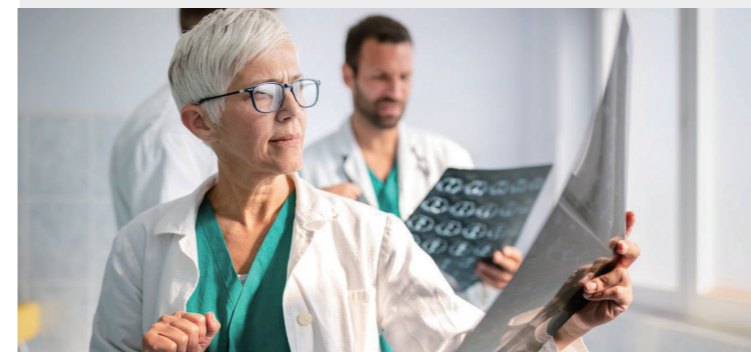
100+

### Scope

**Clinical trial:** Phase I-IV

**Therapeutic areas:** cardiovascular disease, oncology, medical device, CNS and pain, rheumatology, hematology, etc.

**Diagnostic modalities:** CT, MRI, PET, PET/CT, SPECT, X-Ray





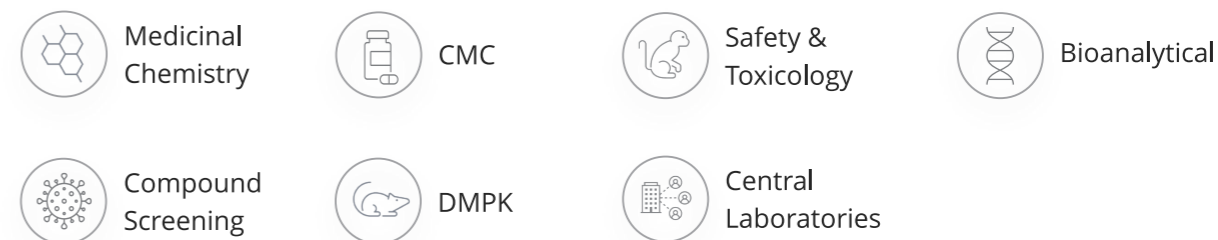
## Clinical Trial System Solution

### Clinflash EDC Your Reliable and Trusted EDC System



- Clinflash aims to help pharmaceutical companies improve R&D effectiveness and efficiency by providing first-class IT solutions.
- Collaborated with more than 300 global healthcare companies and CROs to enable 2,000+ clinical trial projects.

## Pre-clinical Services and Solutions



**120+**  
Bioanalytical lab inspections by NMPA

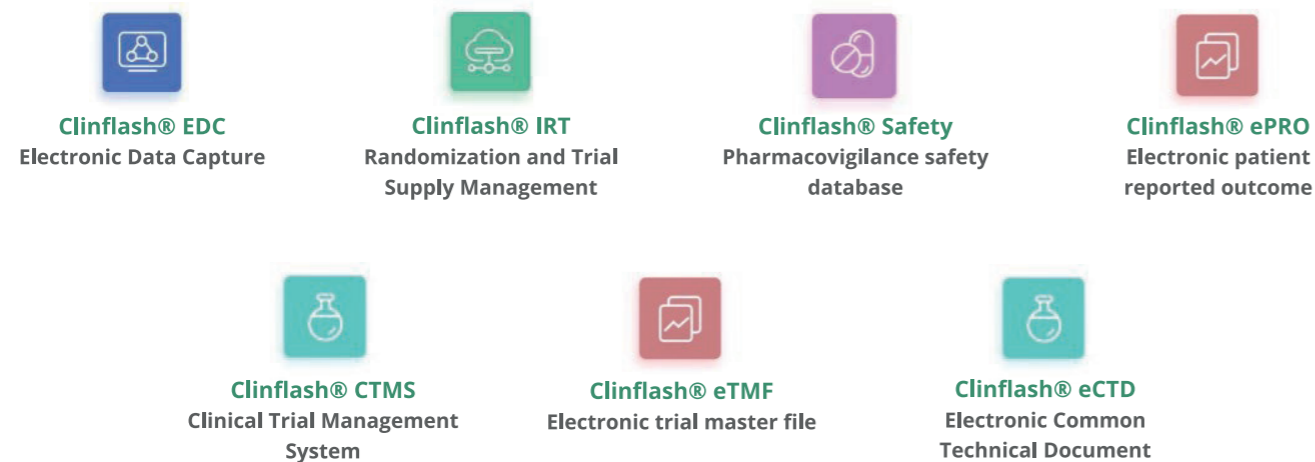
**50+**  
Lab inspections by US FDA

**700+**  
Global customers

**25,000+**  
Compounds delivered



- Operating in China and US with synchronized SOPs and quality standards.
- A comprehensive portfolio of laboratory services ranging from drug discovery to IND enabling package
- Strong track record of successful regulatory inspections by US FDA, NMPA, WHO and US EPA, etc.
- Extensive experience in GMP, GLP, GCP
- AAALAC accredited animal facilities





**In-house Central Lab Services with Global Reach**

- Lab Services
- Flow Cytometry
- Anatomic Pathology
- NGS
- Bioanalysis
- Companion Diagnostics

As the largest Medical Device/ IVD regulatory and clinical trial CRO service provider in China, Tigermed has over 300 full-time experienced medical device clinical researchers. We have established long-term cooperative relationships with over 2,100 manufacturers from more than 30 countries in the last 20 years.

As always, Tigermed's priority is to assist your activities in Medical Device/In Vitro Diagnostic development and manufacturing process, to cope with the ever-changing regulatory requirements globally.

**590+**

MD Clinical Trials

**5,800+**

MD Regulatory Projects

**30+**

Countries of business coverage

**2,100+**

Global Clients



**One-Stop Platform** to Meet Diverse Clinical Needs

**2,000+**

Test items

**6,500+** m<sup>2</sup>

Laboratory space

**98%**

On-time delivery rate

**CAP**

Accredited



**Infectious Disease**



**Immuno-Oncology**



**Hematology**



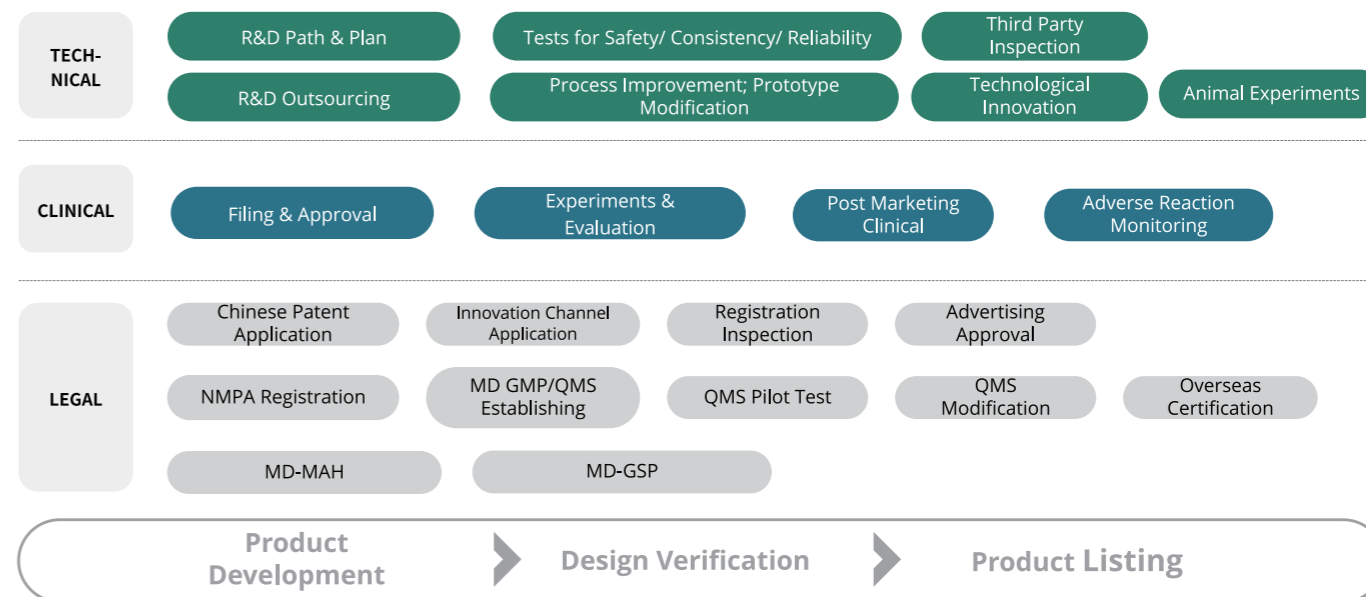
**Endocrinology**



**Inflammation**



**Precision Medicine**



## Real World Study (RWS)



### One-Stop RWS Solutions

Our competitive solution is based on our strong clinical operation capabilities, innovative technologies adopted, rich local expertise and experience.



**Expertise on RWS**  
Retrospective/prospective RWS, post-marketing new drug safety monitoring, health economics study, real-world patient management



**Full Suite of RWS Service**  
Under China NMPA real-world study regulations and guidelines, we offer one-stop high-quality services.

### Consulting

Research strategy consultation, feasibility assessment, regulatory affair service

### Study design

Provide RWS and IIT study design and consultation

### Project management

Provide comprehensive project management to ensure expected project schedule, quality and budget

### KOL network

Wide network with KOL and research associations to provide scientific advisory and innovation support



### Study execution

Provide on-site and remote CRC management, CRA inspection, medical and follow-up services

### Data management

Perform data cleaning, auditing and coding, coordinate database setup and locking, internal and external data transmission

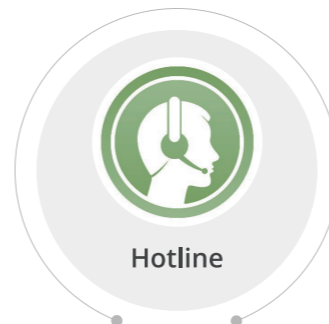
### Statistic analysis

Develop SAP and statistical report, or conduct data mining and analysis for existing database

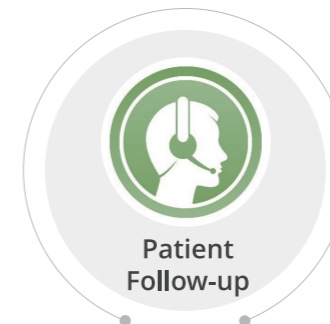
### System and technology

Empower clinical research using innovative technologies such as block chain, big data and artificial intelligence, as well as other conventional systems such as EDC, ePRO

## Call Center Services



400/800 hotline, including medical information service/ patient education service/ pharmacovigilance service, etc., to answer questions from patients, to collect drug AE and to process customer complaints; based on WeChat APP/ mini programs, to provide Human-Machine Coupling online customer service.



Follow-up service for clinical research and studies, including pre-clinical studies, post-market studies, real-world studies, and investigator-initiated studies. AI-assisted customer services can provide reminders for the doctor visit, data collection, data analysis.



Market survey, including customer satisfaction survey, drug usage survey, and disease burden survey through phone, APP, mini programs.

## Clinical Trial Supplies and Logistics Service

98%

Service coverage of China administrative counties

2000+ M<sup>2</sup>

Digital multi-temperature storage

30+

Self-operated outlets

### Solutions

- Temperature controlled transportation solutions
- Temperature control service
- Cold chain transportation
- Warehouse management system
- Information Supervision System



Temperature control program



Drug transportation



Equipment leasing



Warehouse management



Global storage and transportation



Drug & sample management



Specimen transportation

## Multi-Region Clinical Trial (MRCT)

Tigermed supported our partners for their MRCT projects in 30 countries and regions around the world.

**30** Countries and regions

**16**

MRCT项目覆盖的疾病领域 (个)

**88**

国际多中心临床运营项目经验 (项)

**600+**

海外的MRCT及项目管理和运营团队<sup>(1)</sup> (人)

**43**

GPM国际项目管理团队 (人)



Delivered first China-initiated phase III vaccine clinical study in Feb 2021 covering multiple continents, including Asia, Europe, and Latin America. (CanSino Ad5-nCoV vaccine)

Cross-Functional Full Services with GPD / GPM Leadership

Globalized project management unit + localized operation team (CPM,CRA)

Global SOPs and budget protocol, localized contracting process, country level site contract template

Centralized service hub in China including MW, MM, CTA, DMBS, PV, Central Lab, Central Imaging, etc.