

## Our Saying ... ADDING VALUE WITH INTEGRITY ...

At ADVITY Research, we understand the importance of ADDING VALUE while upholding the highest standards of INTEGRITY.

**K**DVITY

### Partnership Approach

We view ourselves as your strategic partner, tailoring our services to meet your specific needs.

#### **Technology Integration**

We embracing the technology-driven solutions lead us to more successful and impactful clinical research outcomes.

### **Scientific Excellence**

We uphold the highest scientific standards, employing rigorous methodologies and innovative approaches.

### **Transparent Communication**

We maintain open and clear communication, providing regular updates and prompt responses. We prioritize participant safety and well-being, strictly adhering to ethical guidelines and regulations.

We ensure reliable and accurate data through robust quality control measures.

### **Regulatory Compliance**

We navigate complex regulatory landscapes to ensure full compliance with global requirements.

#### **Experienced Professionals**

Our skilled team brings expertise and valuable insights to your trials.

### **Ethical conduct**

### **Quality Assurance**

## **Quality Policy**

At ADVITY RESEARCH, we are dedicated to "ADDING VALUE WITH INTEGRITY" in all our clinical research endeavors. Our Quality Policy focuses on:



This policy undergoes regular review to ensure its alignment with our operations, meeting the needs of clients & regulatory authorities.

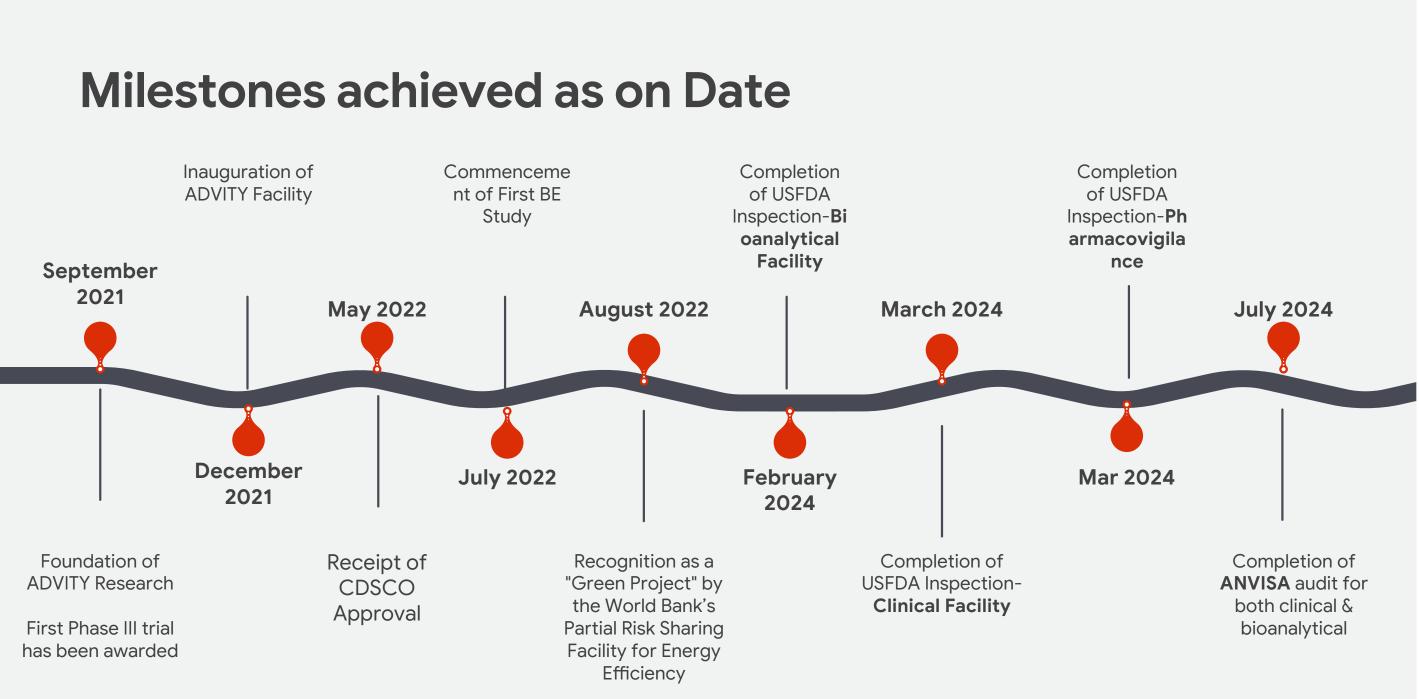
### **Ensuring Compliance:**

integrity in compliance.

### **Promoting Excellence:**

### **Prioritizing Patient Safety:**

unwavering commitment to safety.



### **Board of Directors**

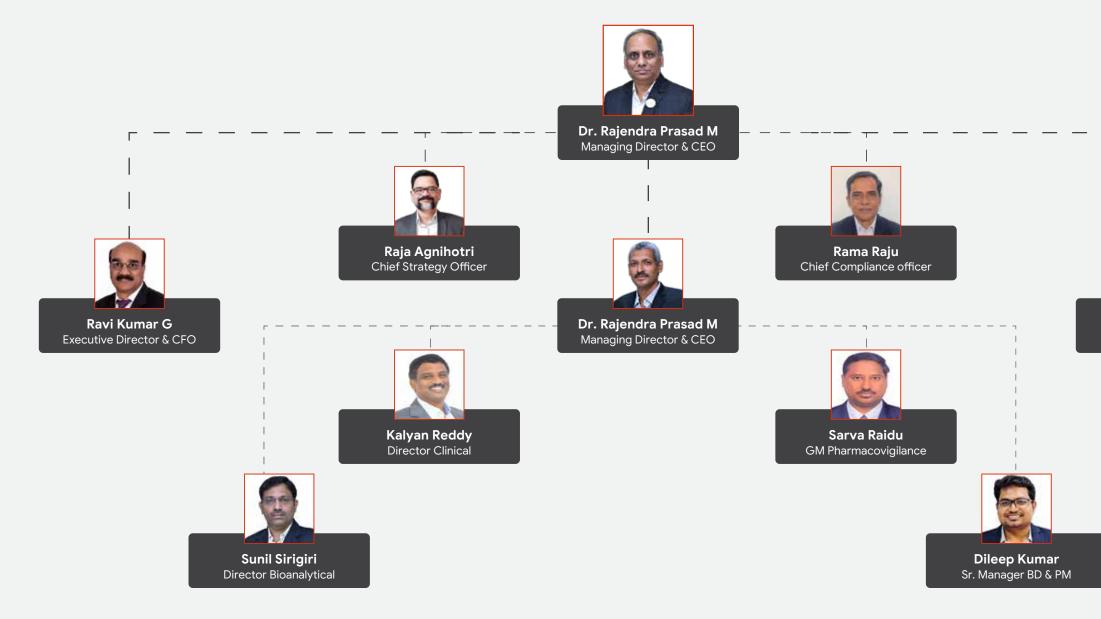
	Dr. Rajendra Prasad         Managing Director & CEO	Ravi Kumar G         Executive Director & CFO	Wasudev Sureddy         Executive Director & COO	Kalyan Reddy Director Clinical
Responsibilities	<ul> <li>Oversee the strategic direction of organization</li> <li>Monitor company performance</li> <li>Maintain accountability with the board</li> <li>Quality Management</li> </ul>	<ul> <li>Financial Controller</li> <li>Corporate functions</li> </ul>	<ul> <li>Designing &amp; implementation of business operations</li> <li>Business Development</li> <li>Overseeing operations of the company and the work of executives</li> </ul>	Clinical Operations
Reporting Teams	<ul> <li>Board</li> <li>All functional &amp; non functional heads</li> <li>QA</li> <li>Compliance department</li> <li>IT</li> </ul>	<ul> <li>HR</li> <li>Finance</li> <li>Accounts</li> <li>Purchase</li> <li>IPR</li> <li>Admin</li> </ul>	<ul> <li>All functional heads</li> <li>Business development team</li> </ul>	<ul> <li>Clinical team – BA/BE &amp; Clinical trial team</li> </ul>



#### **Bioanalytical operations**

#### Bioanalytical team

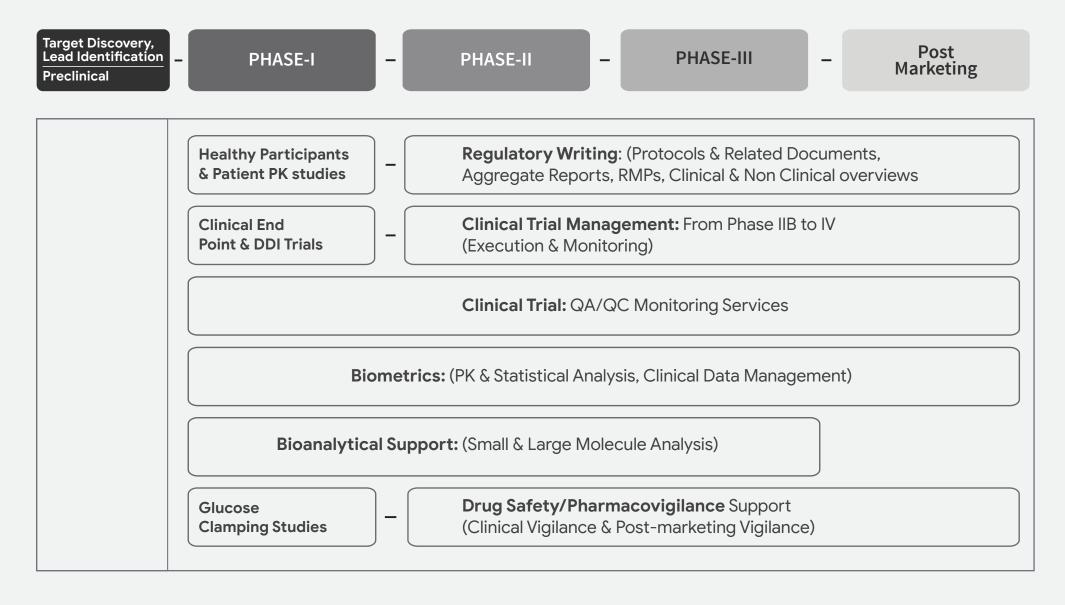
### **Aligned & Driven Leadership**





Gopikrishna K Head QA

### **Range of Services**



#### Drug Development Cycle

## BIOAVAILABILITY & BIOEQUIVALENCE SERVICES

At ADVITY, our Bio Studies portfolio includes BA/BE Studies, Phase I Studies (conducted in healthy volunteers and special population) and PK / PD & Patient Studies (conducted in special populations).

Our BA/BE Studies Services – Fully Compliant with International Regulatory Requirements

## Key Highlights as on Date – **BA/BE**

- Biostudies: Completed approximately 60 biostudies within 2 years.
- **Regulatory Markets:** Conducted studies for USFDA, EU, Health Canada, WHO, and ROW markets.
- Audits: Successfully completed USFDA and ANVISA audits.
- **Study Subjects:** Conducted studies on normal healthy subjects, postmenopausal women, and healthy female subjects.
- Special Studies:
  - \* Completed two transdermal skin patch studies,
  - ★ One vaginal insert study,
  - ★ Amphotericin B clinical study and 05 more studies on injection dosage forms,
  - \* Biologic: Completed, Liraglutide & Rituximab for the India market.
- **Glucose Clamping Studies:** Completed two insulin BE studies for the Indian market.



## **Team Experience & Expertise**

# **5,000**<sup>+</sup>

Experience in with execution of more than 5000 + PK Studies which includes BA/BE studies in healthy and patient subjects

# **60**<sup>1</sup>

Team has successfully faced more than Global Regulatory audits. (USFDA, EMEA, UKMHRA, ANVISA, GCC, TGA, Canada, MCC, NPRA, TGA, MOH Turkey) in their prior experience

# **80**C

# **200<sup>+</sup>**

Working experience with more than 200+ pharma and biotech companies located across the globe, including large pharmaceuticals

# 3500<sup>+</sup>

Experience in execution of more than 3500+ clamps and a well established Glucose clamping facility with an experience in execution of more than

Special population, Various routes of housing studies

#### Hands on experience with 800+ analytical methods which including complex, low sensitive molecules (Pg/mL) and NCEs

### Team has experience in handling various Complex Dosage forms, Studies with administration, Long washout and prolong

### **Comprehensive Services**



BA/BE Studies: On healthy subjects & patients



Derma Studies -**Skin Patches** 



Pre-clinical PK sample analysis



PK/PD & Clinical end point studies on healthy subjects & patients



Extensive cardiac monitoring studies



Pharmacokinetic & Biopharmaceutics



Studies on special populations: Healthy female, PMW & elder subjects



Palatability evaluation studies



Proof-of-concept studies (PK Studies)



Glucose **Clamping studies** 



Medical writing services: Protocol development, ICD, ICF and Clinical study reports



Data Management & CDISC services



Bioanalytical services: For small & large molecule analysis and elemental analysis

Statistical analysis and Population BA/BE analysis

### Infrastructure



State-of-the-art BA/BE facility spread over 28,000 sq.ft.

Well connected to all major parts of the city



94 beds spared over 04 clinical wards

05 ICU beds



Associated with NABL accredited clinical path labs



Pharmacy area: Humidity chamber and Cold chamber



• 07 LC-MS/MS are on board. • 5: API 4500 & 02: API 6500 • Capacity to accommodate 11 LC-MS/MS



Provision for large molecule analysis (Ligand binding assays) using ELISA



Archrivals area



IT: SonicWall (Fire wall), Dell server with RAID-5 Configuration, NAS storage with RAID-5 Configuration, Kaspersky Antivirus











Collaborated with the Tertiary Care Hospital (150 bedded super specialty hospital) for handling emergency situations

A comprehensive emergency in house response infrastructure in place

A comprehensive emergency in house response infrastructure in place

SAS Ver 9.4 fully validated

## CLINICAL TRIAL SERVICES

ADVITY provides comprehensive support across Phase IIB to IV, PK/Clinical endpoint trials. Our capabilities extend from regulatory writing to delivering final clinical study data/reports in compliance with regulatory formats. Also, we provide support with safety reporting during the conduct of clinical trials.



# Clinical Trial Services at ADVITY

#### **Extension**

The clinical development team at ADVITY serve as an extension of your clinical program, sharing your commitment and values



### Quality

Our rapid engagement and strategic thinking ensure more efficient start-up times and superior quality data across all phases of clinical trials (phase I to IV)

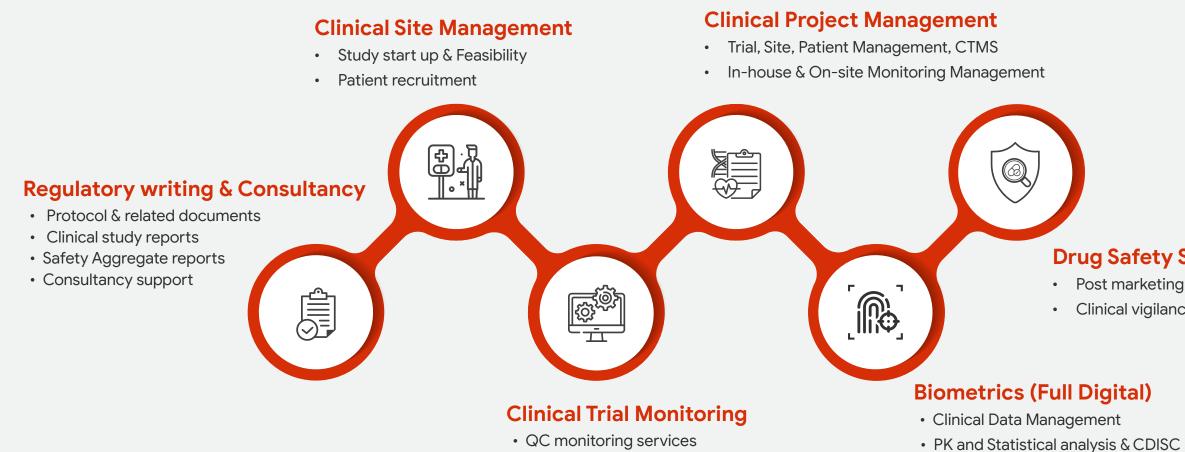
### Integrity

We instill the motto "ADDING VALUE WITH INTEGRITY" as part of our daily routine, to emphasize our commitment to ethical clinical research





## **Scope of Services**



• QA monitoring services

#### **Drug Safety Services**

• Post marketing safety services • Clinical vigilance

### **Project completed/ under progress**

April 2025.

	Phase III	Patient PK study	Under FSP model	Biologic	
	One Phase III trial completed (Nutraceutical product).	One patient PK study is currently in progress	Support provided one of Patient PK study for 100% QC monitoring of study	Executed in metabo endocrino	
	120 subjects	Therapeutic segment:	activities		
	Therapeutic segment: Osteoarthritis	anti-psychotic	Therapeutic segment: anti-psychotic	Two insuli (ASPART &	
	One Phase III trial is currently	Sample size is 42.	Sample size: 320 and study has	Liraglutid	
in progress.		Regulatory & EC approvals	conducted across 13 sites across India	PK sample Rituximab	
	Therapeutic segment:	in place		also cover	
	Endocrinology	IMP receipt & distribution in process	Status completed		
	Recruitment has been completed with 240 subjects across 15 sites in India.	in process			
		Planned study completion by Dec 2024			
	Treatment phase is ongoing, with a study completion in				

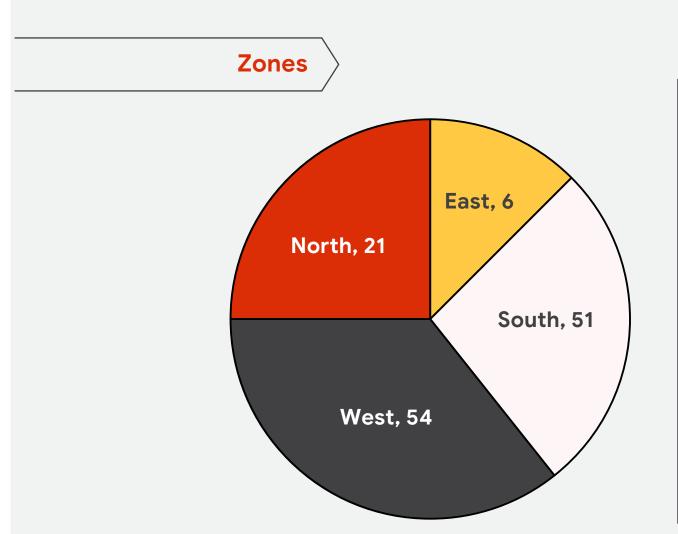
#### ics/Biosimilars

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ulin products T & Glargine) and ide

ple estimation in ab Phase III study which /ers immunogenicity.

### **Clinical Sites database**



• Feasibility assessments from various sponsors have been received for all the therapeutic segments mentioned above.



• CDAs with the clinical investigators have also been signed for all the segments and zones listed.

### **Therapeutic Segment**

## **Team Experience**

Molecule	ТА	Type of study	No. of studies done	Market
Temozolomide	Oncology	Patient BE	1	US
Imatinib	Oncology	Patient BE	4	US
Sunitinib	Oncology	Patient BE	3	US/EU
Melphalan	Oncology	Patient BE	2	US
Methotrexate	Oncology	Patient BE	2	US
Capecitabine	Oncology	Patient BE	3	US
Everolimus	Oncology	Patient BE	1	US
Adalimumab	Autoimmune	Phase III	1	EU
EsloMet	Cardiology	Phase IV	1	India
Rabies Vaccine	Vaccine	Phase IV	1	India
Insulin	Endocrinology	Phase III	1	India
Clozapine	Schizophrenia	Patient BE	2	US
Palmitoylethanolamide	Pain (Nutraceutical)	Phase III	1	India
Capecitabine	Oncology	Patient BE	1	EU
BIOCHAPERONE PDGF-BB	Diabetic foot ulcers	Phase III	1	EU
Quetiapine	Mental health	Patient BE	2	US/EU
Lenalidomide	Autoimmune	CEP	1	EU
Pazopanib	Oncology	Patient BE	1	US/EU

Molecule	ТА	Type of study	No. of studies done	Market
Daunorubicin	Oncology	Patient BE	1	US/EU
Molnupiravir	Infectious	Patient BE	1	US/EU
Nevirapine	Infectious	Patient BE	1	US/EU
Amphotericin B	Infectious	Patient BE	1	US/EU
Stents	Cardiology	Phase III	11	ROW/DC
Denosumabin	Oncology	Patient BE	1	GI
Entecavir	Infectious	Patient BE	1	US/EU
	Autoimmune		1	US/EU
Estrogen Cream	Women health	Patient BE	1	US/EU
Rifaximin IBS	Infectious	Patient BE	1	US/EU

## PHARMACOVIGILANCE SERVICES

Our pharmacovigilance team support post-marketing safety surveillance and clinical trial and across the globe. As patient safety as the critical component, our quality focus aligns us to collaborate with Pharma and Biotech companies to provide both standalone and integrated services throughout the lifecycle of a product.

### **Capabilities – in a Glance**



### **Comprehensive Services**



#### PV System setup & Integration

- PV Database : Setting up and hosting of database & management
- Migration of cases
- Legacy Data Migration
- SDEA (Co-licensing, Third party) Manufacturer/Distributor, Piggy back ...etc)
- PSMF
- Support with third parties and **Channel Partners**
- **PV** consulting involving SOP development, quality systems and strategic consulting
- System Audits



- End to end ICSR case processing including electronic transmission
- Dedicated clinical trials team with experience processing cases from early dose determination studies to advance phase 3 clinical trials
- Integrated PV and Medical information (MI) response centers
- Medical review case assessment
- Global literature monitoring
- Aggregate report preparation and compilation (PSURs, PBRERs, PADERs, CASRs. DSURs etc)



- End-to-end signal management activities
- Routine risk monitoring activities
- Preparation and review of RMP,
- MAH oversight and support including training, SME review and gap analysis of **Risk Management Measures**

#### Safety Surveillance & Risk management activities

### **Capacities & Achievements as on date**

USFDA	Process, System, Database, Team were audited by USFDA. Audit successful with no observation	місс	As of now, average handling mo 1,000 calls/month
2500+	ICSR cases have been processed as on date	20+	Our PV services is audited by me companies with product range f Complex generics
500	500 cases can be handled with the current capacity.	REG.	Handling pharmacovigilance act marketed in Australia, Health Ca Global markets beyond the US a
200	Safety and aggregate reports (PADERS/PSURs) developed as on date	ТЕАМ	Team consists of over 40 profes we are continuously expanding b professionals.
місс	Medical information call centre, Handling MICC for EU region in English, French , Germany & Spain languages .	Other	Executing timebound case migra high volume

#### ore than

more than 20 from generics to

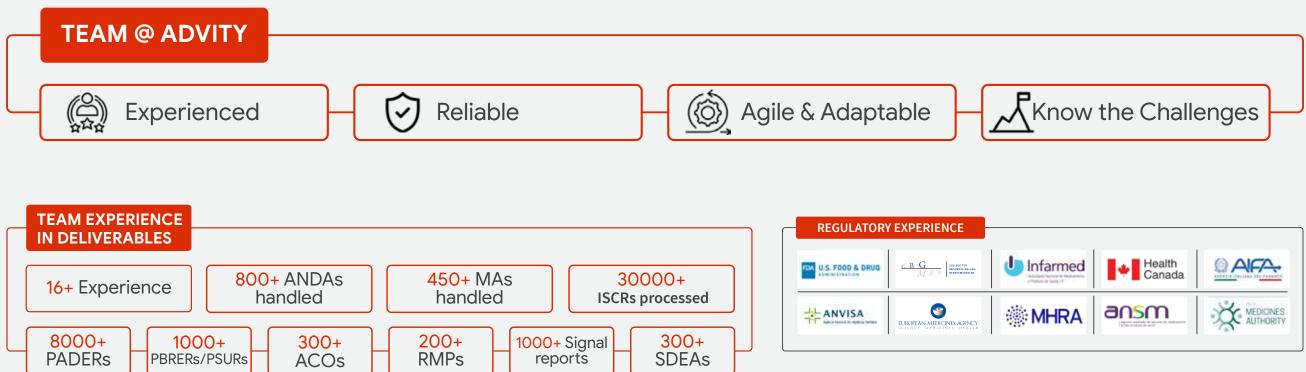
ctivities to products Canada, and other and EU.

essionals, and g by adding more

gration of

### **Team Experience**





## BIOANALYTICAL SERVICES

ADVITY provides quality services for pharmacokinetic, immunogenicity, and large molecule analysis, leveraging a diverse array of platforms for both small and large molecule analysis. Our bioanalytical procedures adhere to GLP requirements, and we foster cross-functional team collaboration to ensure the swift analysis of time-critical samples.



### **PK/PD Analysis**

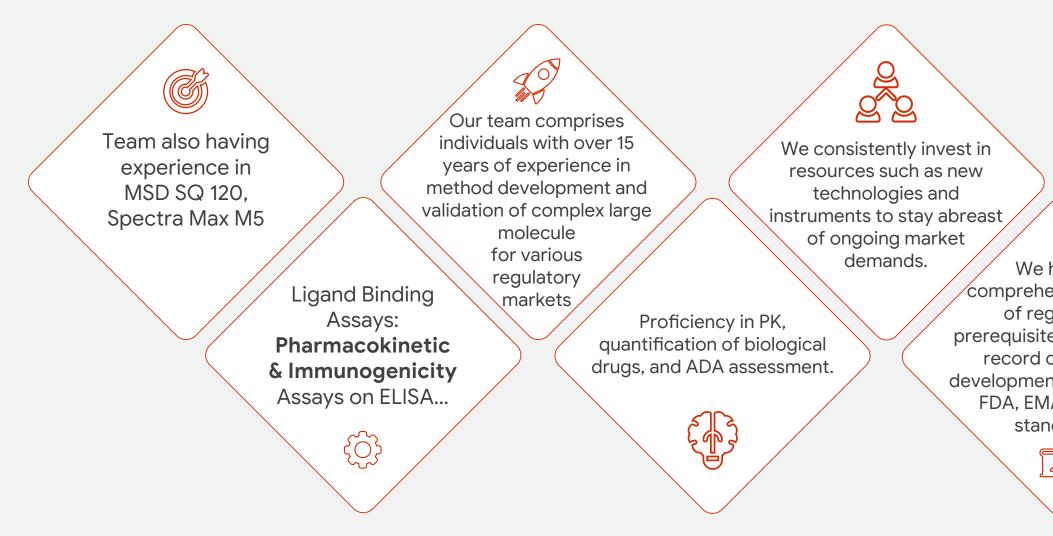
Analysis of biological samples for drug, metabolite, concentrations and/or immune response

- Development, Validation and sample analysis of PK/PD/Immunogenicity assay for **Biosimilars and Biologics**
- Immunochemistry ELISA, MSD<sup>®</sup> platform for PK, anti-drug antibody (ADA)

Chromatography

- PK sample analysis
- Pre clinical PK sample analysis
- Bioanalysis of first in human PK sample analysis
- High and low sensitive molecule analysis

### Ligand Binding Assays – Challenges Accepted



We have a comprehensive grasp of regulatory prerequisites and a track record of method development aligned with FDA, EMA, and ICH standards.



### Ligand Binding Assays – Team Experience

Monoclonal antibodies: Adalimumab, Rituximab\*, Infliximab, Pembrolizumab, Tocilizumab, Pertuzumab, Denosumab, Ranibizumab, Trastuzumab

Interleukins: IL-2, IL-7, IL-11, IL-15 etc.

Liraglutide\*

Insulin: Glargine & Aspart (Insulin & C peptide)\*

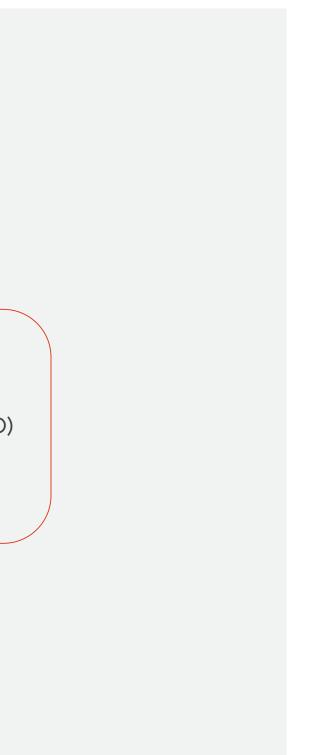
GCSF/Filgrastim

PEGylated molecules: PEG IL-2, PEG IL-7, PEG IL-15, PEG-Filgrastim

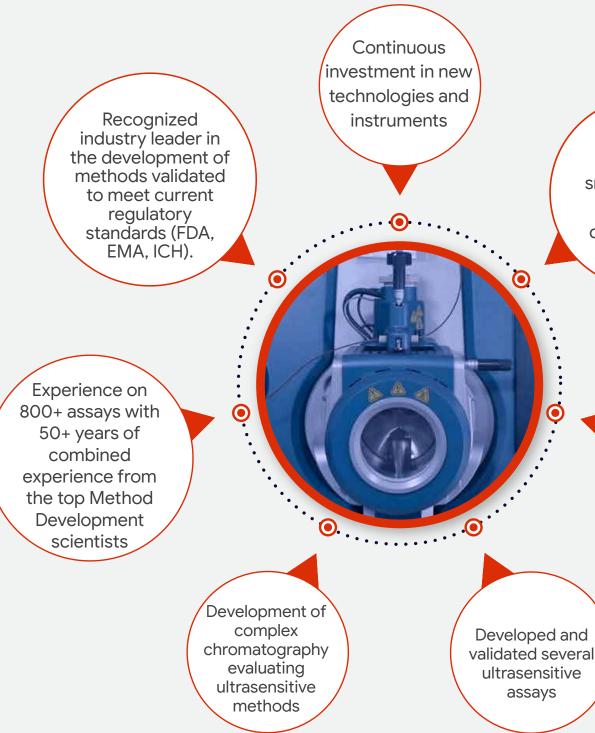
Biomarkers like sCD25

- Enoxaparin
- Etanercept
- Erythropoietin (EPO)
- FSH, LH, PTH
- Streptokinase (SK)

methods developed at ADVITY



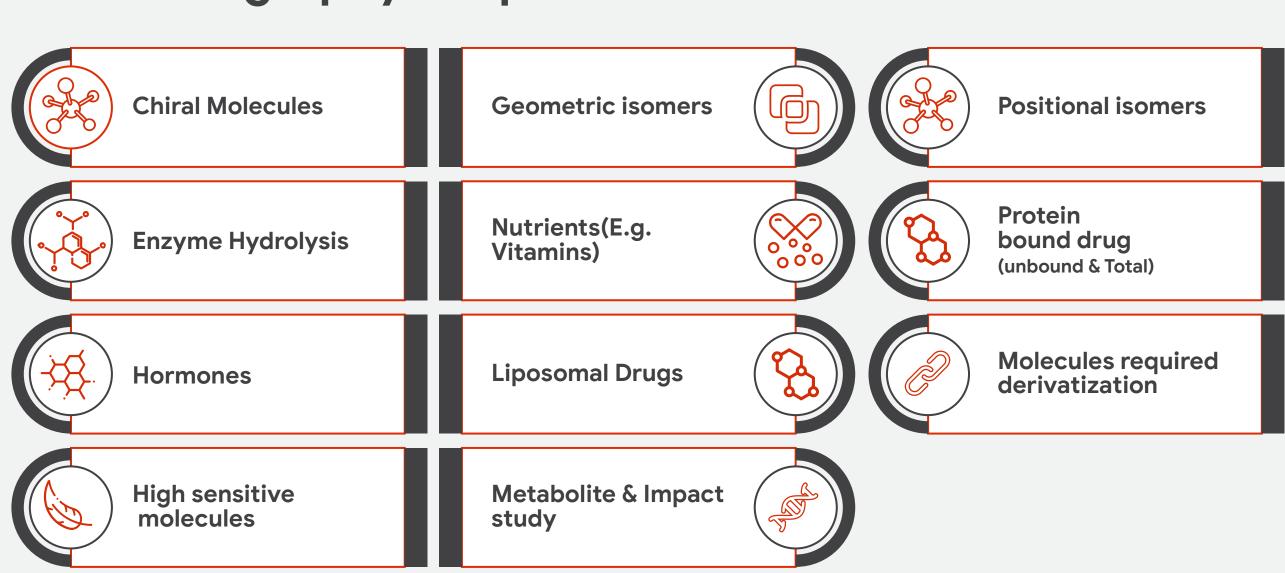
## Chromatography-**Challenges Accepted**



Expertise in small and large molecule quantification

> Extensive innovator expertise including chiral separations

### **Chromatography-Capabilities**



### Ligand Binding Assays – Team Experience

Monoclonal antibodies: Adalimumab, Rituximab\*, Infliximab, Pembrolizumab, Tocilizumab, Pertuzumab, Denosumab, Ranibizumab, Trastuzumab

Interleukins: IL-2, IL-7, IL-11, IL-15 etc.

Liraglutide\*

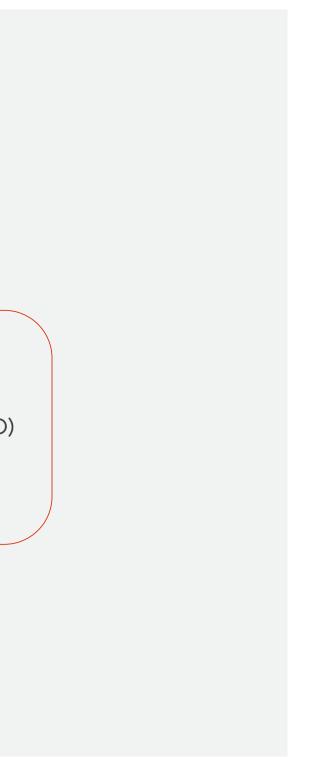
Insulin: Glargine & Aspart (Insulin & C peptide)\*

GCSF/Filgrastim

PEGylated molecules: PEG IL-2, PEG IL-7, PEG IL-15, PEG-Filgrastim

Biomarkers like sCD25

- Enoxaparin
- Etanercept
- Erythropoietin (EPO)
- FSH, LH, PTH
- Streptokinase (SK)



## **Glucose Clamping Studies**

### Requirement

Why ADVITY !

"Regulatory agencies require Pharmacokinetic and pharmacodynamic data on time-action profiles for new or biosimilar insulin preparations, using the glucose clamp procedure"



A state-of-the-art Glucose clamping unit

**CLAMP SCIENTISTS with more than 15** years experience in handling glucose clamping studies



Clear understanding of the study procedures and challenges associated with the execution of glucose clamp studies for different insulin formulations



Expertise, capabilities, and infrastructure in the areas of Bioanalytical, PK and statistical analysis

### **Glucose Clamping Studies**

Study Design & Protocol Development	Regulatory Affairs	Clinical conduct (Clamp execution)	Bioanalytical	Da & I
<ul> <li>ADVITY team of highly experienced clinical experts have longstanding expertise in developing protocols and related documents for glucose clamping studies.</li> <li>Insights in study design and PK &amp; Stat aspects of the protocols</li> </ul>	<ul> <li>ADVITY Regulatory Affairs Team provides project management for in collation of documents, submission, and representation of the client at meetings with regulatory agencies.</li> <li>Regulatory documents compilation</li> <li>Regulatory application filing</li> </ul>	<ul> <li>Experienced expert Physicians who specially trained for the clamping studies</li> <li>In-house expertise in design and conduct of clamp Qualified, 21CFR Part11 Compliant analyzer with redundancy</li> <li>Constant safety monitoring of subjects during the conduct of the study</li> <li>State-of-the-art facility can accommodate studies lasting more than one week with 24/7 medical support.</li> </ul>	<ul> <li>Validated methods for estimation of Insulin /analogs /metabolites</li> <li>Robust analytical procedures</li> <li>Estimation of Insulin and C-peptide using ELISA</li> <li>Experienced analytical scientists</li> <li>Analytical platforms like Ligand binding assays, chromatographic assays</li> </ul>	<ul> <li>An tec rigo (Ph cor</li> <li>state exc ence</li> <li>Reg rep turn</li> </ul>

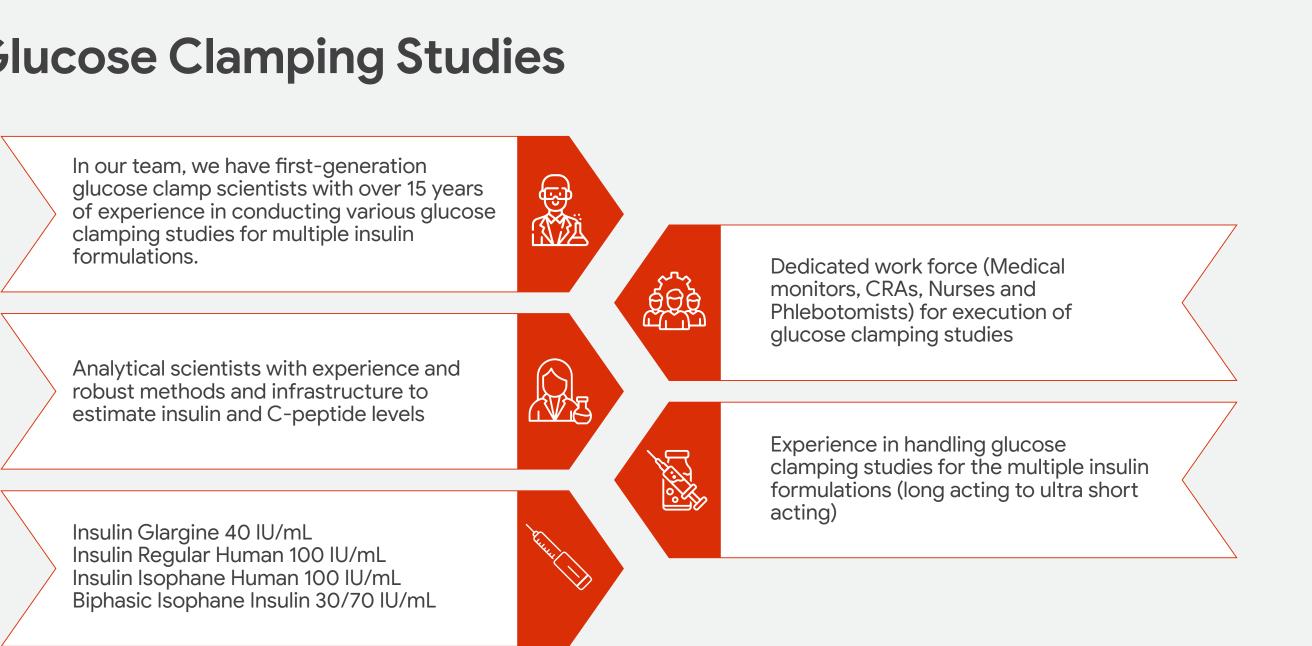
#### ata Management Biostatistics

In understanding of key echnical considerations for igorous data analysis Pharmacokinetic onsiderations,

tatistical considerations specially for differentiating xogenous Insulin from ndogenous)

egulatory compliance eport generation in a quick urn around time

### **Glucose Clamping Studies**





Expansion of the bioanalytical facility to provide comprehensive support for large molecule analysis



Technology & Innovation: Leveraging Al, blockchain, and digital solutions



BA/BE Facility expansion to accommodate another 9000 doses per year. Also provision for accommodating specialty dosage forms

### Vision 2028

Full fledged in house biometric department

Decentralized Clinical Trials implementation

Full operational segment specific of the Scientific Advisory Board Strengthen further in segments like: Endocrinology, Oncology, Women's health Immunology, Mental health, Biosimilars & Respiratory to accommodate complex Clinical trials



## Vision 2028





www.advityresearch.com