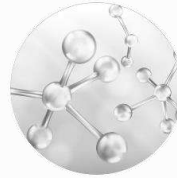




Table Of Contents

- Corporate Overview
- Early to Late Phase Clinical Trials
- Large Molecule Bioanalysis
- Biopharmaceuticals & Data Science
- Recognitions
- Why Veeda



Corporate Overview



- Veeda Clinical Research Limited (“Veeda”) together with its subsidiary, Bionees India Private Limited (“Bionees”), (together referred to as the “Veeda Group”) offers a comprehensive portfolio of clinical, preclinical and bio/analytical services to support innovator, biosimilar and generic drug development programs of our global clientele
- We are an independent, institutional investors owned, Board governed and professionally managed contract research group offering scientific leadership, global quality management systems and long term operational and financial stability through a continuing investment in our people, processes, systems, infrastructure and technology and a deep commitment to quality
- Together, we serve clients globally in the following industries:
 - Pharmaceutical and Biopharmaceutical
 - Agrochemical and Industrial Chemicals
 - Herbal/ Nutraceuticals
 - Medical Devices

Our Values

Humility

Innovation

Accountability



Integrity

Excellence

Collaboration

Nurturing
Individual Growth

Regulatory Credentials

- 93 successful regulatory audits till date
- 12 successful regulatory audits in the last year.

US FDA	➔	45*	ANSM	➔	1
MHRA	➔	4	AGES	➔	5*
ANVISA	➔	8	MCC	➔	1
WHO	➔	6	DCGI	➔	19
NPRA Malaysia	➔	5			

**FDA : 23 AUDITS FOR PATIENT BASED STUDIES
22 AUDITS FOR HEALTHY SUBJECTS STUDIES*

*AGES : 2 AUDIT FOR PATIENT BASED STUDIES
3 AUDITS FOR HEALTHY SUBJECTS STUDIES*

Early to Late Phase Clinical Trials



Infrastructure

VEDANT

Clinical,
Bio-analytical facility

STAYAMEV

Administrative
office

SHIVALIK

Dedicated Clinical
facility

MEHSANA

Clinical and
Screening facility

SKYLAR

Common screening
facility for both Shivalik
and Vedant

INSIGNIA

Dedicated
Bio-analytical facility

ARCHIVES

Internal archival area in each facility.
Separate long term archival facility at
Changodar and Unjha

Spread across **16** clinics

Shivalik

170 Beds +

7 Special care beds +

12 Intensively monitored
beds to conduct Phase I
study

Vedant

226 Beds +

8 Special care beds +

18 Intensively monitored
beds to conduct Phase I
study



Mehsana

162 Beds +

7 Special care beds

Phase I Trial Experience

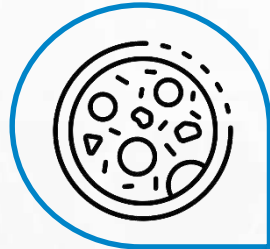


Patient based PK end point studies experience

Antiviral (HIV)

1 No. of Studies

48 No. of Patients



Oncology (CML,GIST,MBC, MM,RCC)

22 No. of Studies

1022 No. of Patients

Psychiatry (Schizophrenia)

9 No. of Studies

463 No. of Patients

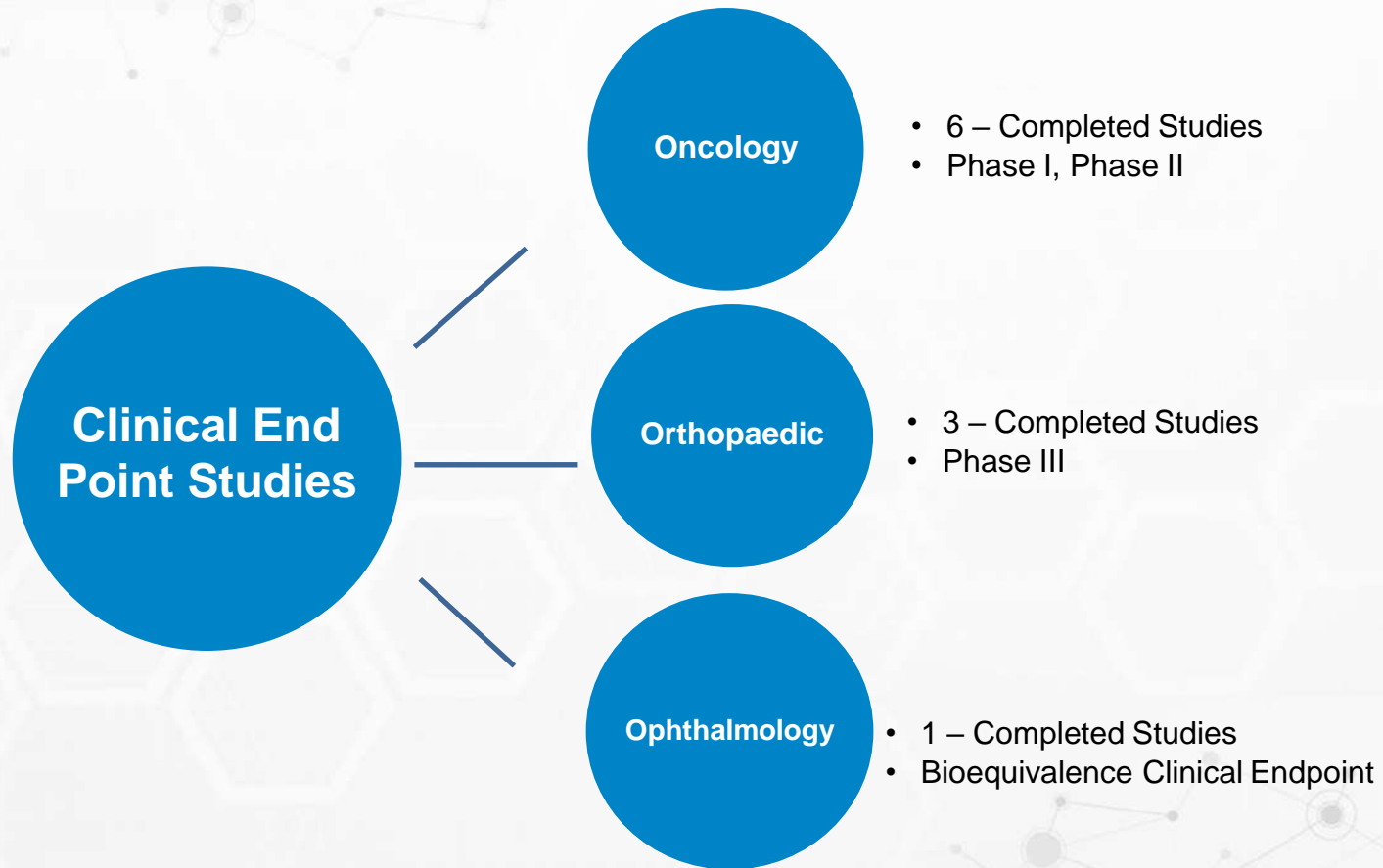


Rheumatology (RA and Psoriasis)

2 No. of Studies

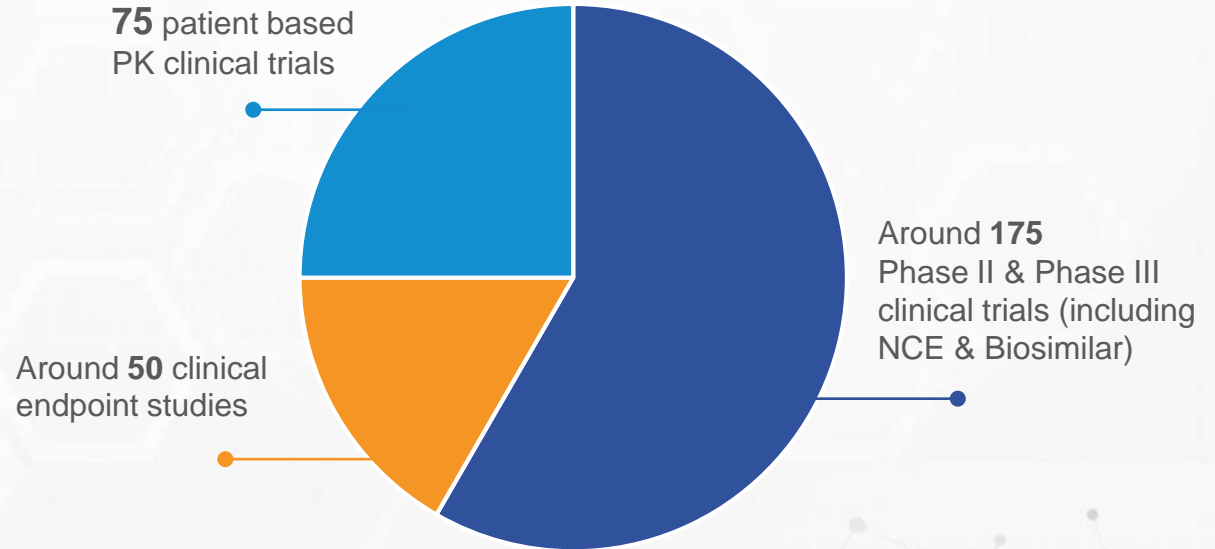
42 No. of Patients

Clinical End Point Studies Experience



Combined Team Experience in Clinical Trials

More than **300** clinical trials that includes



Veeda's Clinical Team Large Molecule Experience

Biosimilars

- Omalizumab (I)
- Denusomab (III/IV)
- Tocilizumab (I)
- Ranibizumab (III/IV)
- Vedolizumab (I)

Therapeutic Protein

- Filgrastim (I/III)
- Pegfilgrastim (I)
- Romiplostim (I)
- r-FSH (I/IV)
- Teriparatide (I)
- Erythropoetin (II/III)
- Darbepoetin

Veeda's Clinical Team Vaccine Experience

112 No. of sites in database

28 No. of sites in active touch base

7 No. of sites presently working

Vaccine Name	Type	Phase
COVID Vaccine	Healthy	II/III
Pneumococcal Vaccine	Healthy	III
Rotavirus	Healthy	III

Pipeline		
Vaccine Name	Type	Phase
Covid Vaccine	Healthy	I/II

Biosimilar Studies Conducted in Veeda

Molecule	Study Title	Market Submission	Phase	Type	No. of Subjects
Omalizumab	A randomized, double blind, two-arm, parallel group, single dose comparative pk, pd and immunogenicity study comparing adl-018 lyophilized powder with us-licensed xolair lyophilized powder administered through subcutaneous route in healthy adult subjects	USFDA	I	Healthy	204 subjects (60 in each treatment arm) (+ stand by subjects)
	A randomized, double blind, three-arm, parallel group, single dose comparative pk, pd, safety and immunogenicity study comparing adl-018 with us-licensed xolair and eu-approved xolair administered through subcutaneous route in healthy adult subjects				306 subjects (102 in each treatment arm) (+ stand by subjects)
Pegfilgrastim	A Two-Part, Randomized, Double-Blind, Single-Dose, Three-Period, Crossover Study Evaluating the Pharmacokinetics (PK), Pharmacodynamics (PD), Safety, and Immunogenicity between BSC-0826 and US-licensed Neulasta and EU-approved Neulasta Part 1, and Randomized, Double-Blind, Two-Dose, Parallel Arm Study Evaluating the Safety and Immunogenicity in Part 2 of BSC-0826 to EU-Neulasta following Subcutaneous Administration to Healthy Subjects	USFDA	I	Healthy	<p>Part 1: A total of one hundred and eighty-six (186) healthy adult male and female subjects will be enrolled. Study will be conducted in multiple groups.</p> <p>Part 2: Two hundred and forty (240) healthy, adult male and female subjects will be enrolled (120 subjects per treatment arm).</p>

Biosimilar Study Conducted in Veeda

Molecule	Study Title	Market Submission	Phase	Type	No. of Subjects
Filgrastim	A Two-Part, Randomized, Open-Label, Single-Dose, Multiple-Dose, Parallel Arm Study Evaluating the Pharmacokinetics, Pharmacodynamics, Safety and Immunogenicity of Biosimilar Sciences Filgrastim (BSC-1020) to Neupogen Following Subcutaneous Administration to Healthy Subjects	USFDA	I	Healthy	<p>Part 1: A total of two hundred and one (201) healthy adult male and female subjects will be enrolled. Subjects will be randomized to 1 of 3 treatment groups (67 subjects per treatment).</p> <p>Part 2: A total of one hundred thirty four (134) healthy adult male and female subjects will be enrolled. Subjects will continue the study from Part 1 to Part 2 for Treatments A and B (67 subjects per treatment).</p>
Recombinant Follicle Stimulating Hormone	A Randomized, Open Label, Balanced, Two-Treatment, Two-Period, Two-Sequence, Single Dose, Crossover, Bioequivalence Study of Foligraf 900 IU (66.0 µg) / 1.5mL Solution for Injection in Prefilled Pen [Follicle Stimulating Hormone (Human Recombinant)] with GONAL-f 900 IU (66.0 µg) / 1.5 mL solution for injection in pre-filled pen of Merck Serono at a dose of 300 IU in Healthy, Adult, Female, Human Subjects.	EU	I	Healthy	In regards to ensure 36 completer subjects for the study, up to 72 healthy, adult, female, human subjects will be enrolled in the study.

Biosimilar Study Conducted in Veeda

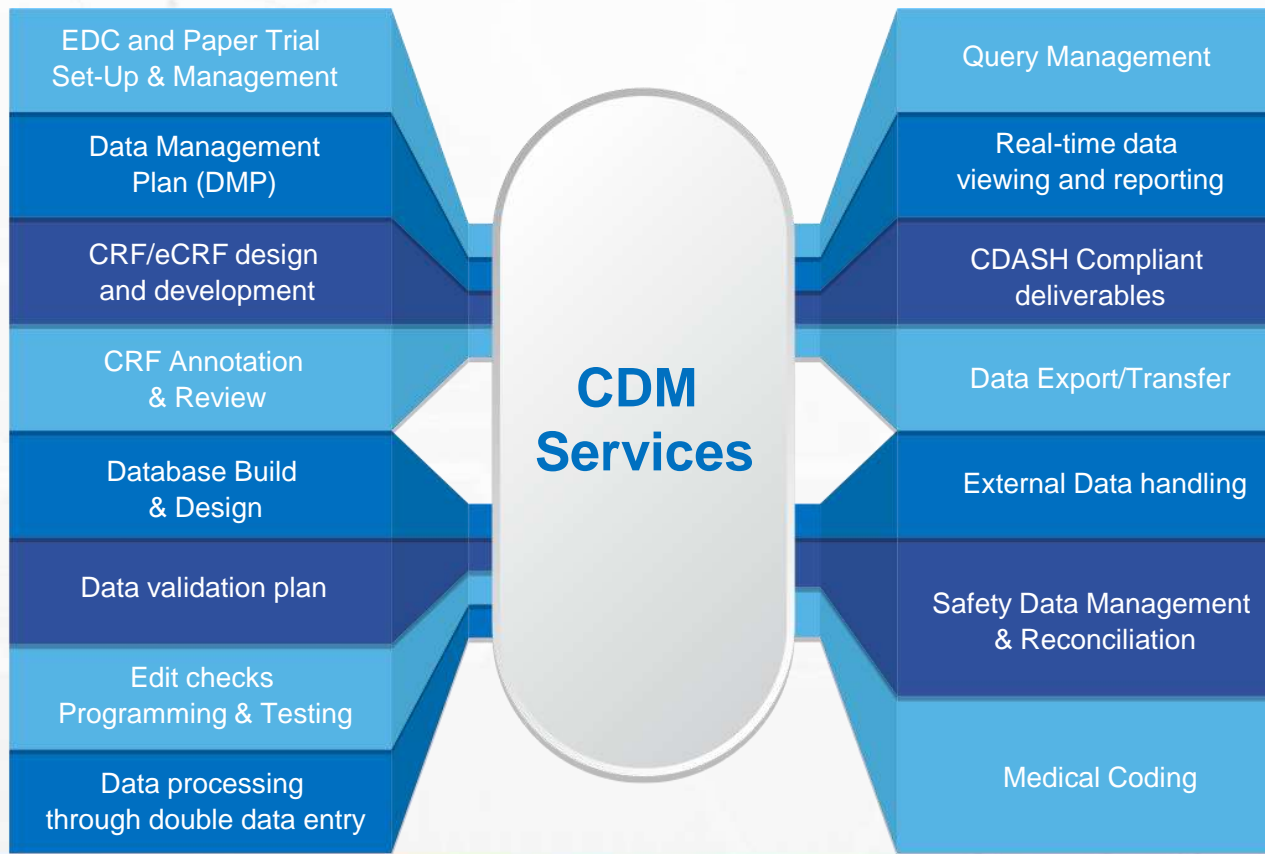
Molecule	Study Title	Market Submission	Phase	Type	No. of Subjects
Vedolizumab	A Single Dose, Double-Blind, Parallel Arm, Comparative Pharmacokinetic Study of Test VZ with US approved Reference Vedolizumab (Entyvio®) and EU approved Reference Vedolizumab (Entyvio®), Administered by the Intravenous Route to Normal Healthy Male Volunteers	USFDA/EU	I	Healthy	132 subjects
Darbepoetin	A Single Dose, Double-Blind, Two-Period, Crossover, Balanced Sequences, Comparative Pharmacokinetic Study with Separate Comparisons of Three Pairs of Products of Test Darbepoetin), US licensed Reference Product (Aranesp®), and EU approved Reference Medicinal Product (Aranesp®), Administered by the Subcutaneous Route to Male Healthy Volunteers.	USFDA/EU	I	Healthy	194 subjects

Vaccine Study Conducted in Veeda

Molecule	Study Title	Phase	Type	No. of Subjects	Sites
Covid Vaccine	A randomized, double-blinded, placebo-controlled, parallel-group, multi-centre, adaptive, seamless bridging study followed by a phase II/III study to assess the safety and immunogenicity of Anti-COVID-19 AKS-452 vaccine for SARS-Cov-2 infection in Indian healthy subjects	Bridging phase II/III study	Healthy	100 (Bridging) 1500 (Phase II/III study)	12

Pipeline		
Vaccine Name	Type	Phase
Covid Vaccine	Healthy	I/II

Clinical Data Management Services



Biostatistics Capabilities



Quick setup



Reconciliation
and oversight

Key Strengths



Timely Database lock



Periodic tracking

- Our team has experience in various statistical evaluations for
 - Design of experiment (DoE)
 - In-vitro population bioequivalence (PBE)
 - In-vitro equilibrium binding
 - Kinetic binding studies
 - Dose proportionality studies
 - Pharmacodynamics end point studies
- Our team also has expertise in the prediction and simulation analysis

Bioanalytical Capabilities

Introduction to Bioanalytical Solution

A Global CRO

- Integrated Early and Late Stage Drug Development and R&D Scale Manufacturing solution provider
- Large Molecules: Novel Biologics, Biosimilars (mAbs), Peptides, Vaccines, ADCs, Therapeutics Proteins

IP Position

- IP assigned to clients
- Strong track record of Data Integrity and Security

Quality Focus

- Quality driven organization
- Excellent track record of compliance with global regulators



Scientific Ecosystem

- State of art facility with 50000 Sq.ft campus
- 45+ strong scientific team
- Experienced in global Pharma and Biotech companies

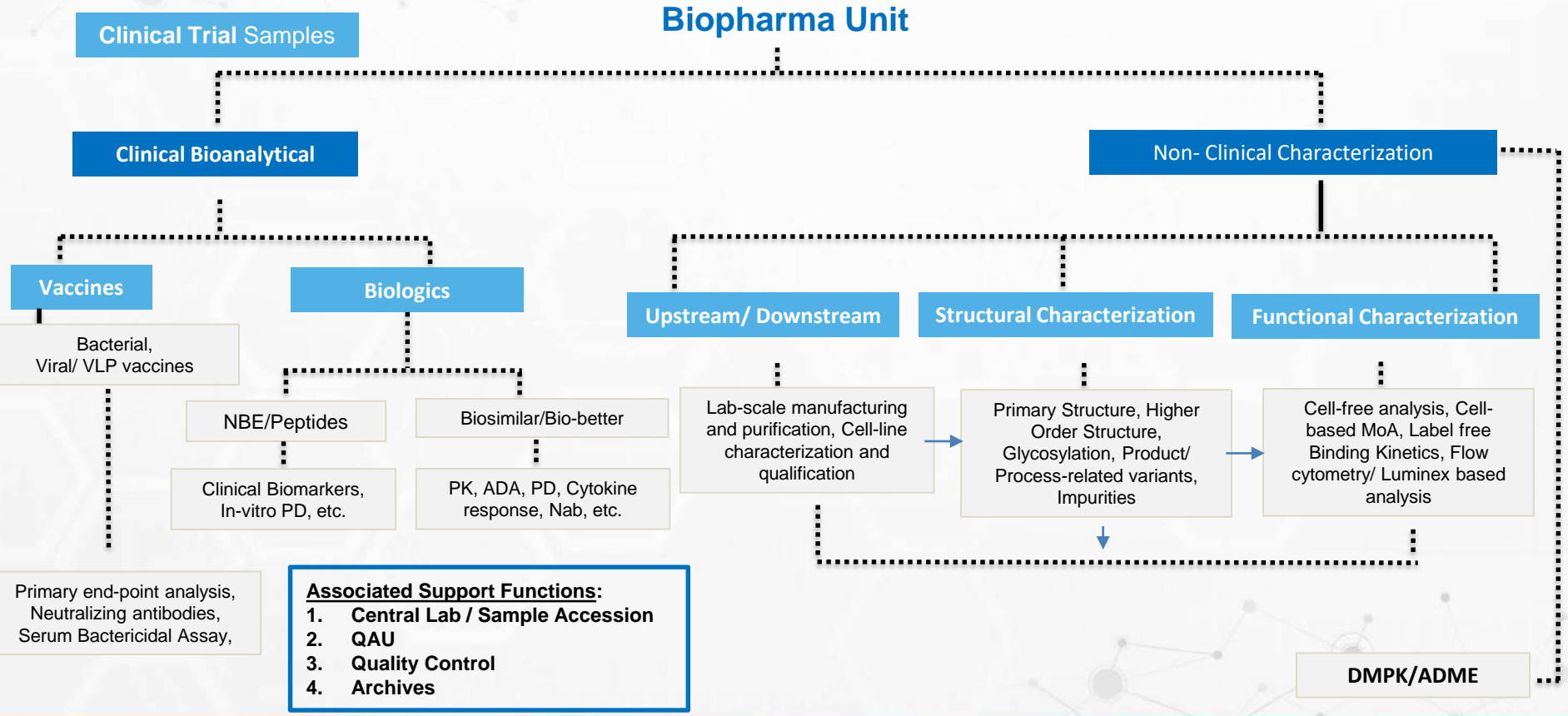


Clientele

- Partnering with large / mid-size / emerging BioPharma (EBP) and other industries
- Clients concentrated in US, Europe, APAC



Integrated and/or standalone Drug Development Solutions



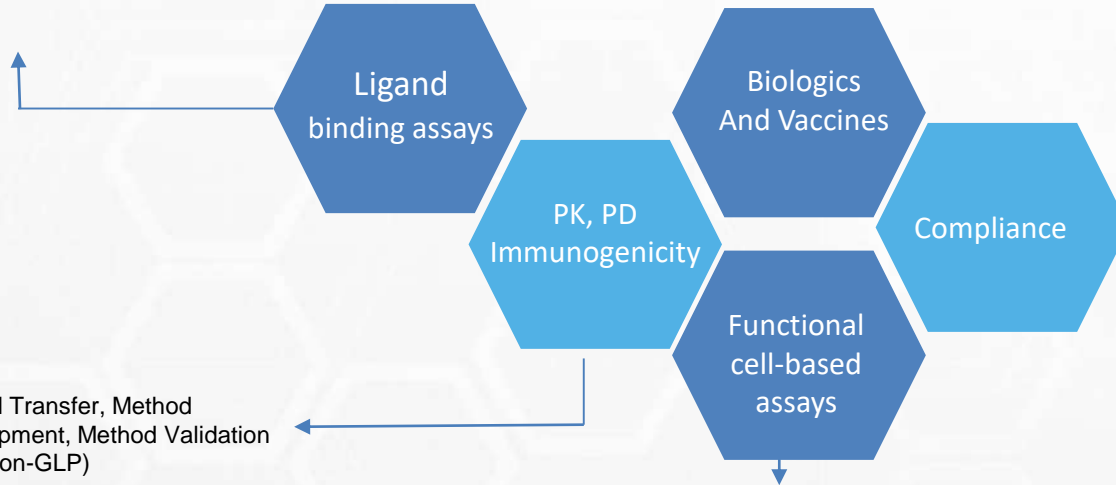
Primary end-point analysis, Neutralizing antibodies, Serum Bactericidal Assay,

- Associated Support Functions:**
1. **Central Lab / Sample Accession**
 2. **QAU**
 3. **Quality Control**
 4. **Archives**

Large molecule bioanalytical – OECD GLP Compliant laboratory

Immunoassays for PK, PD, Immunogenicity and Biomarkers

- Ligand binding assays for PK, PD and Immunogenicity
- Multiplexing-small and large proteins
- MAbs, bi specific, fusion proteins, vaccines etc.



- Develop matrix specific methods
- ELISA, MSD, SPR, Cell based
- Validate for intended use
- Setup analysis for animal and human studies
- Immunogenicity and seroconversion

- Method Transfer, Method Development, Method Validation (GLP/non-GLP)

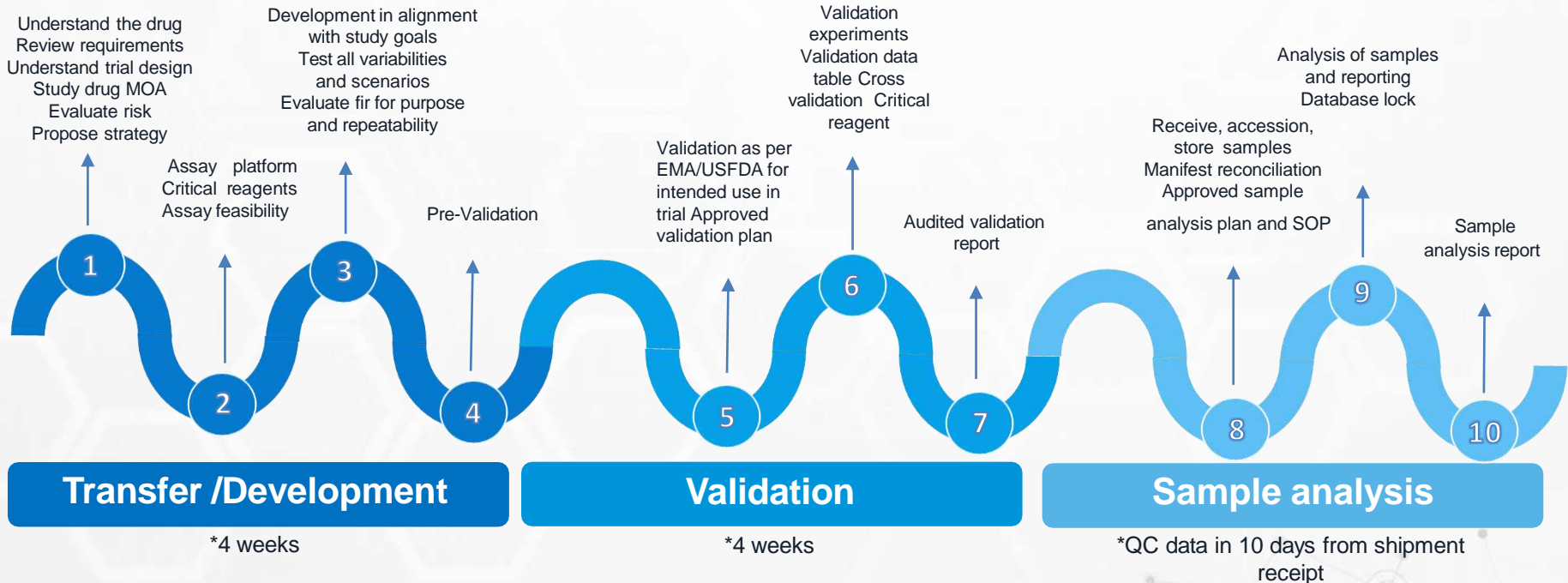
- GLP, EMA and USFDA guidance
- adherence in assay development/validation
- Inspected by FDA
- scientific teams

- Invitro Functional neutralizing antibody assays
- Potency assays for biological activity, characterization and comparability

Regulated Assay

Transfer/Development/Validation

The journey of an assay from concept to data is well planned & monitored throughout the assay lifecycle



GLP SOPs, SD allocation, Analyst training, QC, QA, WATSON LIMS, Project management

* Estimated timelines for non cell based methods

Veeda Team Large Molecule Experience

Biosimilars

- Denusomab
- Pertuzumab
- Pembrolizumab
- Abatacept
- Adalimumab
- Etanercept
- Infliximab

Vaccines

- PCV
- HPV
- Hepatitis A
- COVID Vaccine
- Typhoid
- Pentavalent
- Hexavalent
- MMR

Therapeutic Proteins

- Filgrastim (I/III)
- Pegfilgrastim (I)
- Romiplostim (I)
- r-FSH (I/IV)
- Teriparatide (I)
- Erythropoetin (II/III)
- Darbepoetin

Large Molecule Studies Conducted in Veeda

- Insulin Aspart and Cpeptide
 - Filgrastim
 - PTH (Teriparatide)
 - Denosumab
 - Romiplostim
 - r-FSH
 - COVID Vaccine (Anti SARS CO2 Igg Titer)
-
- Enoxaparin: PD endpoint and Immunogenicity
 - Ongoing Project - Ustekinumab

 - The average ISR value for the study which we have conducted is 94%

Vaccine Study Conducted in Veeda

IgG Titer Studies:

- IgG Titre Clinical studies involve the measurement of human anti-SP/RBD IgG titers in human serum samples
- RBD Specific target
- Method optimization and Validation, followed by clinical studies

ELISPOT Studies:

- The enzyme-linked immunospot [ELISPOT] **assay** is a highly sensitive immunoassay that measures the frequency of cytokine-secreting cells at the single-cell
- Expertise in PBMC isolation and culturing
- State-of-the-art infrastructure for ELISPOT assays

PRNT Studies: [Outsourced lab]

- Measures the levels of Neutralizing antibodies in an individual against SARS-CoV-2
- BSL3- Facility and scientific liaison between the client and the lab performing PRNT assay

In Pipeline: HI Assay (Influenza Vaccine)

Instrumentation and associated software

Globally recommended assay platforms and validated software used for harmonization of data

Technology	Platform	Software
LCMS	<ul style="list-style-type: none">Sciex Tandem Quad (1 nos)	<ul style="list-style-type: none">Analyst/Sciex OS
ELISA	<ul style="list-style-type: none">Molecular Devices (1 nos)Biotek Microplate (4 nos)	<ul style="list-style-type: none">SoftMax Pro v 5.4.1Gen5 Secure v 3.03
ECL	<ul style="list-style-type: none">MSD Quickplex SQ 120 (1 nos)	<ul style="list-style-type: none">Discovery Workbench v 4.0.12
SPR	<ul style="list-style-type: none">Biacore 1S + (1 nos)	<ul style="list-style-type: none">Biacore Insight SoftwareBiacore Intelligent Analysis Software
Automated affinity purification and immunodepletion	<ul style="list-style-type: none">KingFisher Flex (1 nos)	<ul style="list-style-type: none">BINDIT software v 3.3.1
Alphalisa	<ul style="list-style-type: none">BMG Pherastar	<ul style="list-style-type: none">MARS Data Analysis Software
Cell based	<ul style="list-style-type: none">Cell culture laboratory	<ul style="list-style-type: none">PLA v 3.0
Automation (for bulk STDs and QCs)	<ul style="list-style-type: none">Integra Assist Plus (1 nos)	<ul style="list-style-type: none">VIALAB Pipetting Automation Software
Data and sample movement	<ul style="list-style-type: none">WATSON LIMS	<ul style="list-style-type: none">Version 7.7.1 SP1
ELISPOT	<ul style="list-style-type: none">AID VSPOT Spectrum	
Flow Cytometer	<ul style="list-style-type: none">BD FACSLyric	<ul style="list-style-type: none">BD FAC Suite Clinical Software

Recognitions

Celebrating
19 YEARS
of excellence in Clinical Research

Organization	Award Category
	Best Clinical Research Organization - India
	Clinical Trial Company of the Year
	Bharat Udyog Ratan Award in Clinical Research

Organization	Award Category
	Top CLRO Company
	Best Quality Clinical Research Services in India



Organization	Award Category
	National Excellence Award
	Best Pharmaceutical CRO
Health & Safety Awards	Best Clinical Research- India
	Best Clinical Research- India
	Mark of Excellence
	Indian Clinical Research company of the year

Organization	Award Category
	Best Quality Clinical Research Organization in India
	Best Quality Clinical Research Organization in India
	Indian Clinical Research company of the year

Organization	Award Category
	MS Excellence in BABE Services, Largest Indian CRO

Veeda Group Advantage

Extensive Scientific
Competence to service a
Diverse client base

One of the largest
Independent Full
Service CROs in India

High Customer
Centricity and
Satisfaction

Robust Quality &
Regulatory
Compliance

Skilled personnel with
focus on Continuous
Professional
Development

One stop solution
for complex
studies

THANK YOU

For any further assistance kindly write to us at info@veedacr.com

Visit us at www.veedacr.com

Partners in creating
a healthier tomorrow

