



Neuberg
DIAGNOSTICS

• India • UAE • South Africa • USA

Neu INSIGHTS



Neuberg
DIAGNOSTICS

CENTER FOR
GENOMIC
MEDICINE

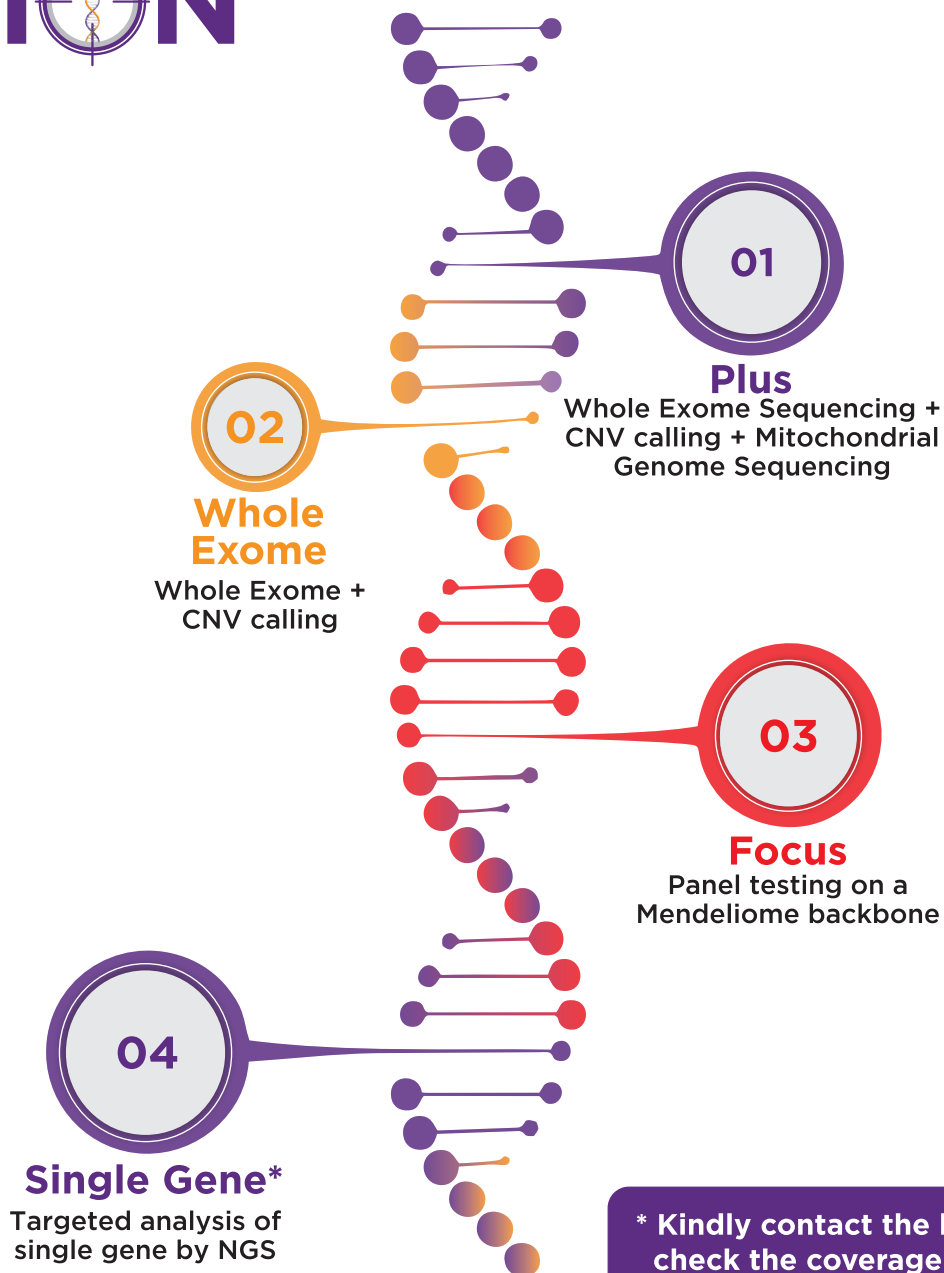


ORION



Intelligent Genomics

Serial number : 021 Edition : 1. 2022



Validated For

- ▶ Single nucleotide variants
- ▶ Indels upto 30bp
- ▶ Copy number variants:
Multi Exon (more than 3 exons)
deletions and duplications

Acceptable Samples

- ▶ EDTA Whole Blood
- ▶ Dried Blood Spots (DBS)
- ▶ Amniotic fluid (AF)#
- ▶ Chorionic Villous Biopsy (CVS)#

Does Not Include

- ▶ Triplet Repeat Expansions
- ▶ Methylation Abnormalities
- ▶ Somatic Mutations

We Also Offer

- ▶ Microarray 315K and 750K
- ▶ Multiplex Ligation-dependent
Probe Amplification (MLPA)*
- ▶ TP-PCR for Fragile - X

Kindly contact the lab before sending a prenatal sample

Turn Around Time for ORION : 28 Business Days

ORION Highlights

► Customized Gene Curation

Towards evidence based medicine



Phenotype Specific



Regularly Updated Gene Lists

► Expert Variant Annotation

Adding relevance to reporting



Gene-Disease Association



Variant-Disease Association

► Coverage

Inclusive of



>19000 genes



100X Mean Depth



>95% Coverage @20X

► Enhanced Variant Calling

Enriching Analysis!



Customized Pipeline



Extensively Validated

► Best-In-Class Reports

Peer Reviewed by



Bioinformatician



PhD Scientist



Genetic Counselor



Clinical Geneticist



Cardiology



Dermatology



Endocrinology



Gastroenterology



Hematology



Metabolic Disorders



Nephrology



Neurology



Oncology



Ophthalmology & ENT

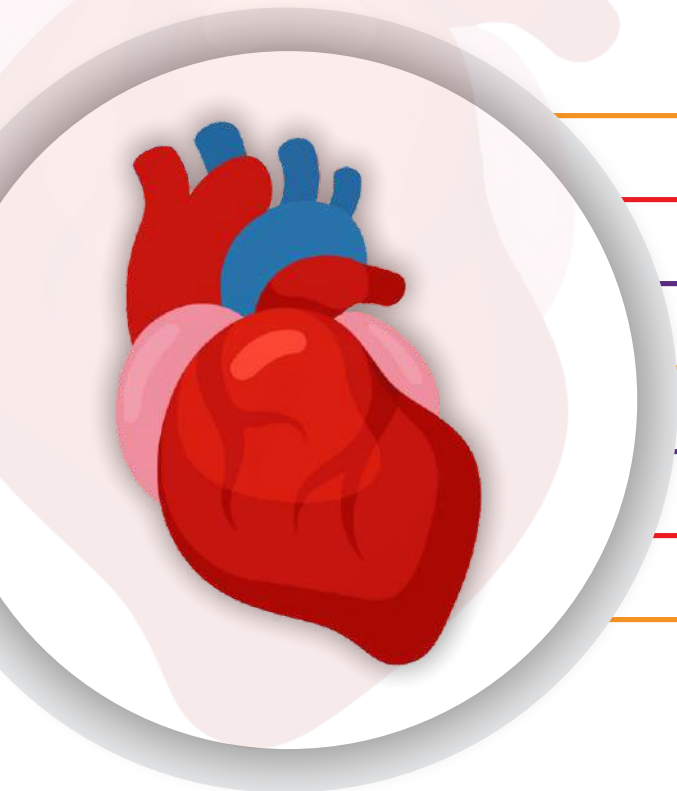


Pulmonology



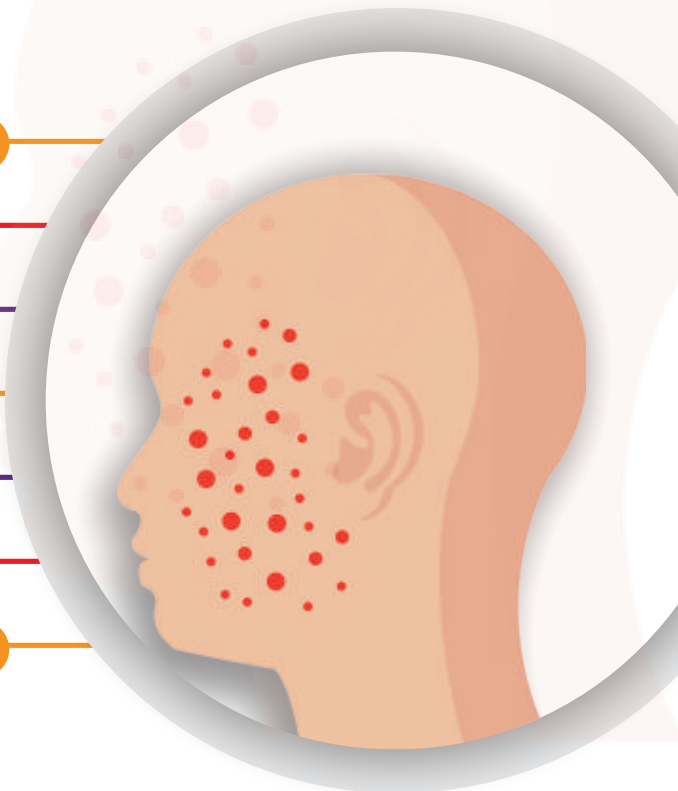
Skeletal Disorder

Cardiology



- Congenital Heart Defects** (ORION Focus)
- Congenital Cardiomyopathy** (ORION Focus)
- Cardiac Channelopathy** (ORION Focus)
- Connective Tissue Disorders** (ORION Focus)
- Familial Pulmonary Arterial Hypertension** (ORION Focus)
- Familial Lipidemias** (ORION Focus)
- COMPREHENSIVE CARDIOLOGY** (ORION Whole Exome)

Dermatology



- Albinism** (ORION Focus)
- Epidermolysis Bullosa** (ORION Focus)
- Ectodermal dysplasia** (ORION Focus)
- Ichthyosis** (ORION Focus)
- Neurocutaneous Disorders** (ORION Focus)
- Photosensitivity Syndromes** (ORION Focus)
- COMPREHENSIVE DERMATOLOGY** (ORION Whole Exome)

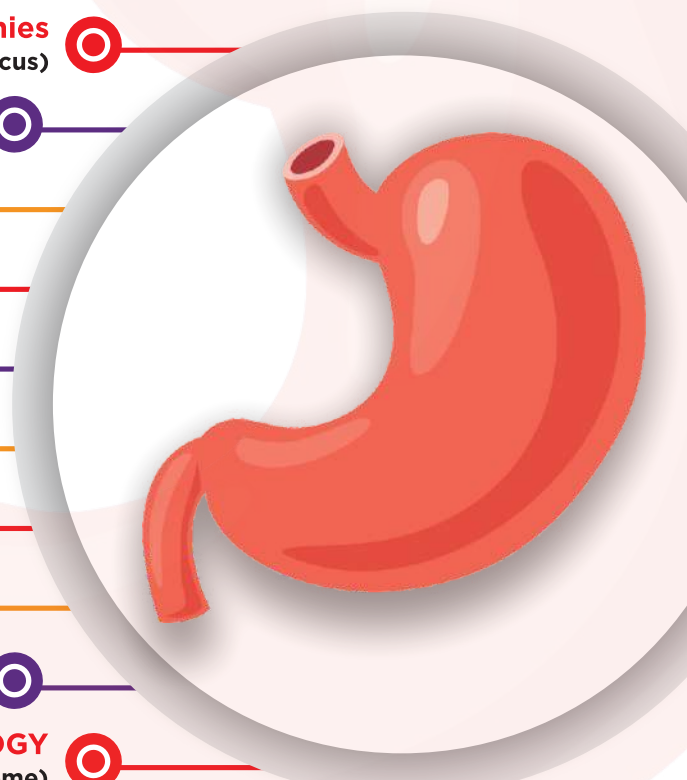
Mandatory: Duly filled Test Requisition and Consent form
Comprehensive tests assess all genes included in the respective panels.
For the gene list, please visit our website : <https://ncmgglobal.com/inherited-genetic-disorders/orion-focus/>

Endocrinology



- CAH - 21 hydroxylase deficiency (ORION Focus)
- Disorders of Calcium and Phosphate Homeostasis (ORION Focus)
- Disorders of Pituitary Hormone (ORION Focus)
- Disorders of Thyroid Hormones (ORION Focus)
- Disorders of Glucose and Insulin Homeostasis (ORION Focus)
- Disorders of Sex Development (ORION Focus)
- Disorders of Growth & Obesity (ORION Focus)
- Disorders of the Adrenal gland (ORION Focus)
- Disorders of Lipid and Cholesterol metabolism (ORION Focus)
- Genetic causes of Infertility (Male and female) (ORION Focus)
- COMPREHENSIVE ENDOCRINOLOGY (ORION Whole Exome)

Gastroenterology



- Ciliopathies (ORION Focus)
- Cholestasis and Biliary Disorders (ORION Focus)
- Congenital Diarrhea (ORION Focus)
- Hereditary Pancreatitis (ORION Focus)
- Inflammatory Bowel Disease (ORION Focus)
- Inherited Cancers of Gastrointestinal Tract (ORION Focus)
- Lysosomal Storage Disorders (ORION Focus)
- Liver Metabolic Disorders (ORION Focus)
- Porphyria (ORION Focus)
- COMPREHENSIVE GASTROENTEROLOGY (ORION Whole Exome)

Mandatory: Duly filled Test Requisition and Consent form

Comprehensive tests assess all genes included in the respective panels.

For the gene list, please visit our website : <https://ncmgglobal.com/inherited-genetic-disorders/orion-focus/>

Hematology



Anemia
(ORION Focus)

Bleeding disorders
(ORION Focus)

Immunodeficiency
(ORION Focus)

Inherited Bone Marrow Failure syndromes (ORION Focus)

COMPREHENSIVE HEMATOLOGY
(ORION Whole Exome)

Metabolic Disorders

Aminoacidopathies
(ORION Focus)

Congenital Disorders of Glycosylation (ORION Focus)

Glycogenesis Defects
(ORION Focus)

Glycogen Storage Disorders (ORION Focus)

Lysosomal Storage Disorders (ORION Focus)

Mitochondrial Disorders (ORION Focus)

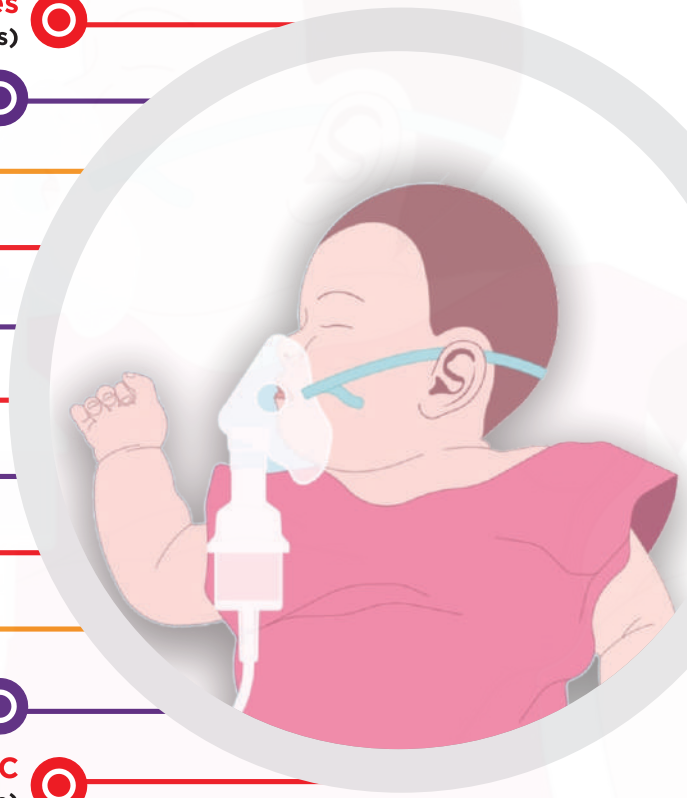
Organic Acidemias
(ORION Focus)

Porphyrias
(ORION Focus)

Peroxisomal Disorders (ORION Focus)

Urea Cycle Disorders
(ORION Focus)

COMPREHENSIVE METABOLIC DISORDER(ORION Whole Exome)

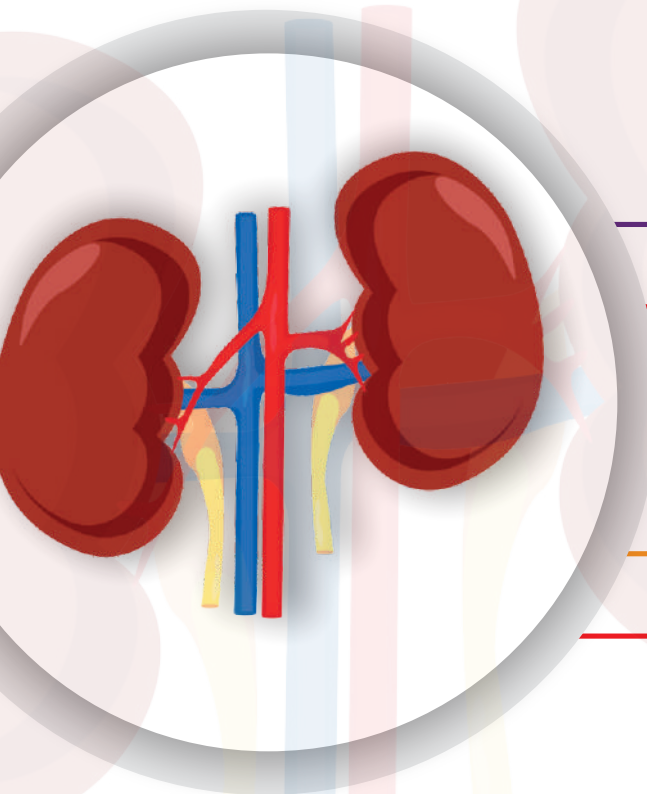


Mandatory: Duly filled Test Requisition and Consent form

Comprehensive tests assess all genes included in the respective panels.

For the gene list, please visit our website : <https://ncmglobal.com/inherited-genetic-disorders/orion-focus/>

Nephrology



Cystic Kidney Diseases and Ciliopathies (ORION Focus)

Hemolytic Uremic Syndrome (ORION Focus)

Nephrotic Syndrome (ORION Focus)

Renal stone disorders (ORION Focus)

Tubulopathies (ORION Focus)

COMPREHENSIVE NEPHROLOGY (ORION Whole Exome)

Neurology

CNS Malformations & Neuronal Migration Disorders (ORION Focus)

Genetic Epilepsy (ORION Focus)

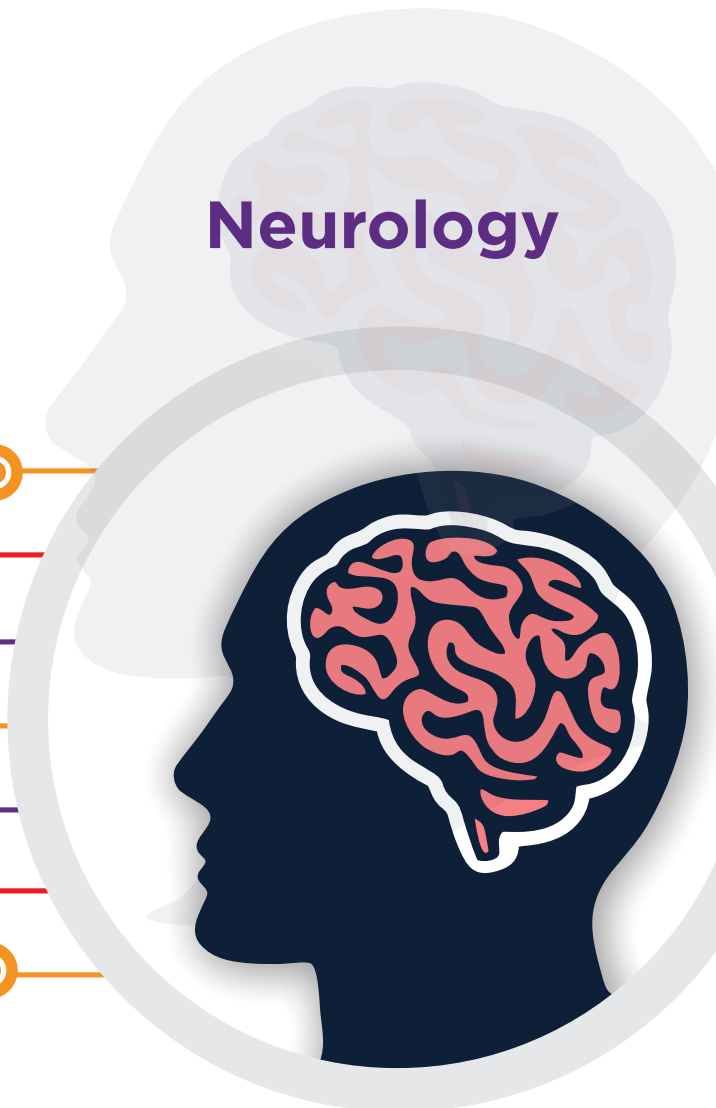
Neuromuscular Disorders (ORION Focus)

Neurodegenerative Disorders (ORION Focus)

Neurocutaneous Disorders (ORION Focus)

Movement Disorders (ORION Focus)

COMPREHENSIVE NEUROLOGY (ORION Whole Exome)

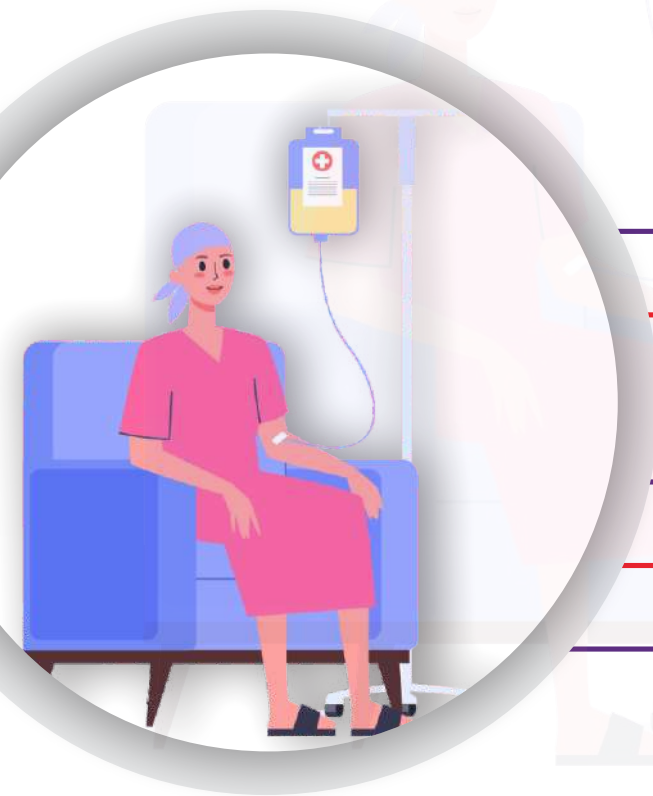


Mandatory: Duly filled Test Requisition and Consent form

Comprehensive tests assess all genes included in the respective panels.

For the gene list, please visit our website : <https://ncmgglobal.com/inherited-genetic-disorders/orion-focus/>

Oncology



- Breast and Gynaecological Cancer (includes HBOC)** (ORION Focus)
- Comprehensive Gastrointestinal Tract Cancer with Lynch Syndrome** (ORION Focus)
- Comprehensive Endocrinological cancers** (ORION Focus)
- Pediatric and Rare Cancers** (ORION Focus)
- Renal and genitourinary cancers** (ORION Focus)
- COMPREHENSIVE ONCOLOGY** (ORION Whole Exome)

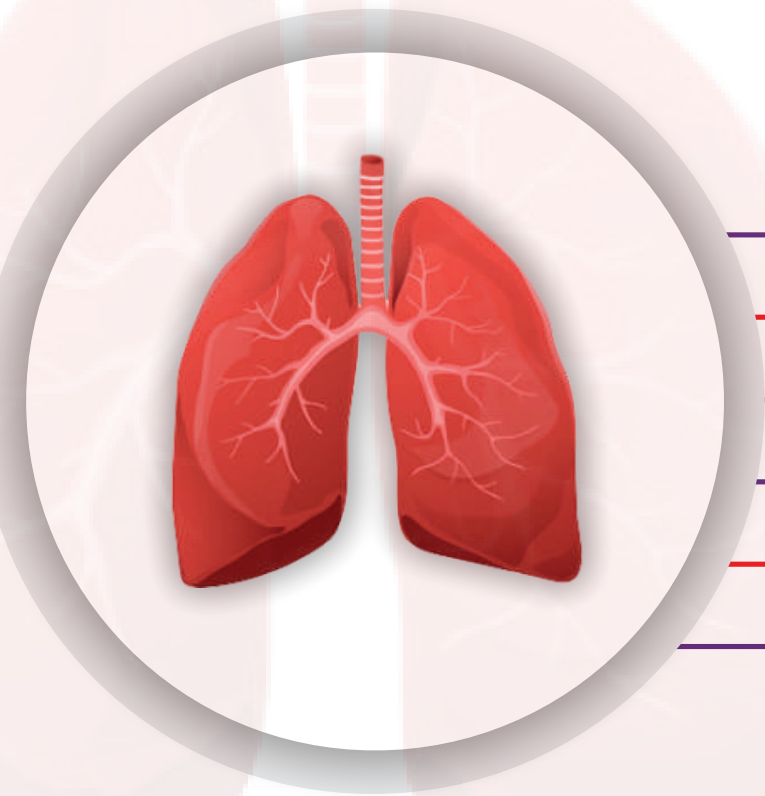
Ophthalmology and ENT







- Anophthalmia / Microphthalmia** (ORION Focus)
- Congenital Glaucoma** (ORION Focus)
- Corneal Dystrophy** (ORION Focus)
- Cataract** (ORION Focus)
- Deafness** (ORION Focus)
- Leber Congenital Amaurosis** (ORION Focus)
- Ocular Albinism** (ORION Focus)
- Retinitis Pigmentosa** (ORION Focus)
- Stargardt macular degeneration** (ORION Focus)
- Usher syndrome** (ORION Focus)
- COMPREHENSIVE OPHTHALMOLOGY & ENT** (ORION Whole Exome)



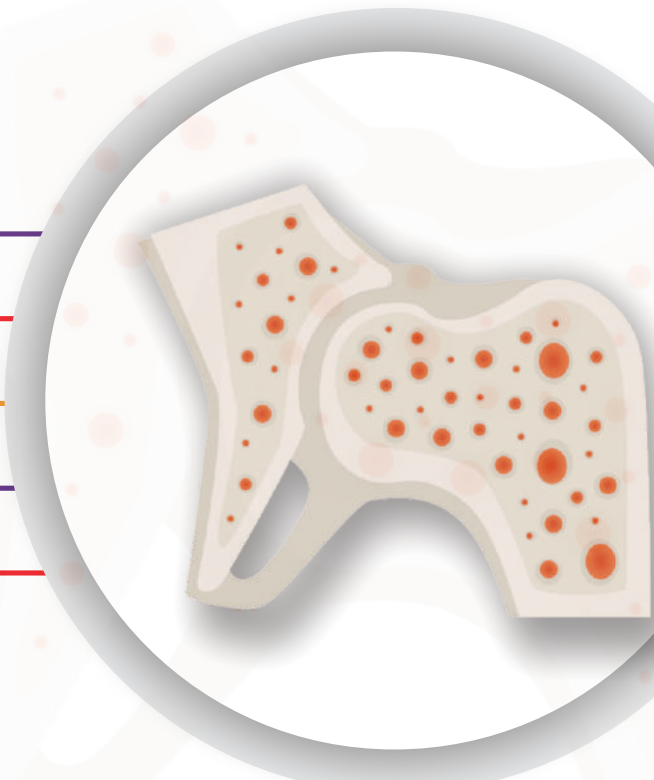
Mandatory: Duly filled Test Requisition and Consent form
Comprehensive tests assess all genes included in the respective panels.
For the gene list, please visit our website : <https://ncmgglobal.com/inherited-genetic-disorders/orion-focus/>






Pulmonology



-  **Ciliopathies**
(ORION Focus)
-  **Cystic Fibrosis**
(ORION Focus)
-  **Interstitial Lung Disease** (ORION Focus)
-  **Pulmonary Arterial Hypertension** (ORION Focus)
-  **Surfactant Deficiency** (ORION Focus)
-  **COMPREHENSIVE PULMONOLOGY**
(ORION Whole Exome)

Skeletal Disorders



- Achondroplasia**
(ORION Focus) 
- Craniosynostosis**
(ORION Focus) 
- Osteogenesis Imperfecta** (ORION Focus) 
- Osteopetrosis**
(ORION Focus) 
- COMPREHENSIVE SKELETAL DYSPLASIAS** (ORION Whole Exome) 

Mandatory: Duly filled Test Requisition and Consent form
Comprehensive tests assess all genes included in the respective panels.
For the gene list, please visit our website : <https://ncmgglobal.com/inherited-genetic-disorders/orion-focus/>

Genetic Testing from the comfort of your home in 5 steps



Enquire



**Pre -Test
Counselling**



**Take your
Test**



**Download
Report**



**Post -Test
Counselling**

Pre and post-test genetic counseling is recommended for any genetic test. | Kindly contact: gc.team@ncmgglobal.com
Kindly contact lab before sending a prenatal sample. Form G and Maternal Cell Contamination Testing are mandatory for all Prenatal tests

PARTNERS IN HEALTH



DR. SHEETAL SHARDA

Director - Clinical Genomics
Development & Implementation
M.D. Pediatrics
D.M. Medical Genetics
sheetal.sharda@ncgmglobal.com



DR. UDHAYA KOTECHA

Head of Division Inherited Disorders (NGS)
Clinical Geneticist
M.D. Pediatrics
Fellowship in Medical Genetics
udhaya.kotecha@ncgmglobal.com



DR. MEHUL MISTRI

Scientist- Inherited Genetics & Metabolism
PhD Biochemistry
mehul.mistri@ncgmglobal.com



DR. SANDIP SHAH

Consultant Pathologist
M.D. (Pathology & Bacteriology)
Laboratory Director
drsandip@neubergdiagnostics.com

FOR MORE DETAILS, CONTACT US AT



079 61618111

079 40408181

ncgmglobal.com



Neuberg
DIAGNOSTICS

• India • UAE • South Africa • USA