

Patient's initials Date of birth . . (DD/MM/YYYY)

Test order

▶ ▶ Complete this form faster and more easily on www.centoportal.com

FOR CENTOGENE USE ONLY
- DO NOT COVER -

> Priority (optional)

FAST processing¹

Prenatal

Maternal Cell Contamination
(automatically included for Prenatal WGS/WES)

Before sending any prenatal sample please contact customer.support@centogene.com

MATERIAL REQUIREMENTS

Please check material requirements at www.centogene.com/help/samples

> Whole Genome Sequencing and Whole Exome Sequencing

TEST	<input type="checkbox"/> CentoGenome® (WGS) ²	<input type="checkbox"/> CentoXome® (WES, CNV included)		
NUMBER OF PATIENTS	<input type="checkbox"/> Solo (index)	<input type="checkbox"/> Duo (index + 1)	<input type="checkbox"/> Trio (index + 2)	<input type="checkbox"/> PLUS (additional family member(s) beyond Trio)
ADDITIONAL TEST OPTIONS				
– For WES only	<input type="checkbox"/> CentoMito® Genome (Mitochondrial genome analysis, index and maternal sample)	<input type="checkbox"/> CentoLCV (sWGS, index)	<input type="checkbox"/> CentoArrayCyto® 750K (CMA, index)	<input type="checkbox"/> CentoArrayCyto® HD (CMA, index)
– Reporting (standard medical report included)	<input type="checkbox"/> Additional research report	<input type="checkbox"/> Filtered variant file (raw data)	<input type="checkbox"/> FASTQ (raw data)	<input type="checkbox"/> BAM (raw data) <input type="checkbox"/> VCF (raw data)

> NGS Panels

PANEL NAME (or code)

Please refer to catalogue at www.centoportal.com

For selective panels additional analyses are included. NGS-based CNV analysis is included in our panels, except CentoCU® and Somatic Panels. For more information please order via **Centoportal®**

> Biochemical testing

ENZYME PANELS	<input type="checkbox"/> CentoSphingo®	<input type="checkbox"/> CentoMPS®	<input type="checkbox"/> CentoNCL®	<input type="checkbox"/> CentoLSD®
– Reflex to Genetics (option for all panels)	<input type="checkbox"/> X-TRA			
BIOMARKER ONLY	<input type="checkbox"/> Gaucher disease	<input type="checkbox"/> Fabry disease	<input type="checkbox"/> Farber disease	<input type="checkbox"/> Niemann-Pick disease <input type="checkbox"/> Hereditary angioedema
OTHER ENZYME/BIOMARKER	<input type="text"/>			

Please refer to catalogue at www.centoportal.com

> Single gene testing

<input type="checkbox"/> NGS based (CNV included) ³	<input type="checkbox"/> Sanger (if available)	GENE NAME <input type="text"/>	
ADDITIONAL TEST OPTIONS	<input type="checkbox"/> Del/Dup (MLPA/qPCR)	<input type="checkbox"/> Repeat expansion (if available)	<input type="checkbox"/> Biochemistry add-on (enzymes/biomarkers if available)

> Carrier testing

<input type="checkbox"/> CentoScreen®	<input type="checkbox"/> Targeted single gene	GENE NAME <input type="text"/>
<input type="checkbox"/> Duo <input type="checkbox"/> Paired Pack	<input type="checkbox"/> Sanger <input type="checkbox"/> Del/Dup (MLPA/qPCR)	MUTATION _____
<input type="checkbox"/> Family member tested at CENTOGENE	CENTOGENE Patient ID <input type="text"/>	Relation to patient _____

> Genome wide structural variant testing

TEST	<input type="checkbox"/> CentoLCV (sWGS)	<input type="checkbox"/> CentoArrayCyto® 750K (CMA)	<input type="checkbox"/> CentoArrayCyto® HD (CMA)
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> Material info

SAMPLE TYPE	<input type="text"/>		
IF TISSUE SAMPLE	Tumor grading stage <input type="text"/>	Origin of tissue <input type="text"/>	
IF FFPE TISSUE	Year of tissue fixation <input type="text"/>	Type of fixation <input type="text"/>	

1 Extra fee per sample - Reduced TAT for CentoXome® from 30 to 15 days, CentoGenome® from 20 to 15 days, CentoCU® from 15 to 10 days and Single gene Sanger sequencing from 15 to 10 days.
2 Mitochondrial genome analysis included for index + maternal sample
3 Except for DMD,CFTR and BRCA 1/2

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> **Clinical patient information** Unaffected Affected Age of manifestation

> **Clinical symptoms** - Please tick the appropriate boxes >> Complete this form faster and more easily on www.centoport.com

1. ABDOMEN	3. CENTRAL NERVOUS SYSTEM	4. EYES	7. KIDNEY	10. SKELETAL, SKIN, NAILS, HAIR
Abdominal pain	Autism	Optic atrophy	Adrenal hyperplasia	Abn. ¹ facial shape
Acute hepatitis	Behavioral abnormality	Prominent epicanthal folds	Chronic kidney disease	Abn. ¹ form of vertebral bodies
Ascites	Brain atrophy	Ptosis	FSGS ³	Abn. ¹ of skeletal morphology
Cholecystitis	Cerebellar atrophy	Reduced visual acuity	Hemolytic-uremic syndrome	Abn. ¹ of skin pigmentation
Cholelithiasis	Cerebellar hypoplasia	Retinal degeneration	Hydronephrosis	Abn. ¹ of hair
Cholestasis	Chorea	Rod-cone dystrophy	Nephrolithiasis	Abn. ¹ of skeletal system
Chronic hepatitis	Cognitive impairment	Strabismus	Nephrotic syndrome	Abn. ¹ of skin
Cirrhosis	Coma	Visual impairment	Polycystic kidney dysplasia	Anhidrosis
Constipation	Delayed speech/language	Visual loss	Proteinuria	Arachnoidactyly
Diarrhea	Dementia	Xanthelasma	Renal agenesis	Brachycephaly
Gastroesophageal reflux	Developmental regression		Renal cyst	Brachydactyly
Hepatic cysts	Dysarthria	5. GROWTH/DEVELOPMENT	Renal Fanconi syndrome	Cafe-au-lait spot
Hepatic failure	Dyskinesia	Decreased body weight	Renal insufficiency	Camptodactyly
Hepatic steatosis	EEG abnormality	Failure to thrive	Renal phosphate wasting	Coarse facial features
Hepatocellular adenoma	Encephalopathy	Feeding difficulties	Renal tubular acidosis	Craniosynostosis
Hepatocellular carcinoma	Gait disturbance	Growth delay		Depressed nasal bridge
Hepatomegaly	Global developmental delay	Intrauterine growth retardation	8. MUSCLE/JOINT MOVEMENT	Dolichocephaly
Inguinal hernia	Hydrocephalus	Neonatal onset	Calf muscle pseudohypertrophy	Dysostosis multiplex
Intrahepatic biliary dysgenesis	Hyperactivity	Obesity	Flexion contracture	Hirsutism
Jaundice	Hyperreflexia	Overgrowth	Gowers sign	Ichthyosis
Nausea	Hypertonia	Premature birth	Hip dysplasia	Limb undergrowth
Pancreatitis	Hypotonia (central)	Short stature	Joint hypermobility	Micrognathia
Portal hypertension	Intellectual disability	Tall stature	Joint laxity	Midface retrusion
Splenomegaly	Lethargy		Macroglossia	Nasal bridge
Umbilical hernia	Leukodystrophy	6. HEMATOLOGY/LABORATORY	Multiple joint contractures	Neurofibromatosis
Vomiting	Limb dystonia	Abn. of coagulation	Muscle weakness	Osteomalacia
2. CARDIOVASCULAR	Lissencephaly	Albuminuria	Myopathy	Palmoplantar keratoderma
Abn. ¹ heart morphology	Macrocephaly	Aminoaciduria	Myotonia	Pectus carinatum
Abn. ¹ of the heart valves	Mental deterioration	Anemia	Muscle atrophy	Polydactyly
Arrhythmia	Microcephaly	Elev. ² hepatic transaminases	Muscular dystrophy	Scoliosis
Atrial fibrillation	Motor delay	Elev. ² long chain fatty acids	Muscular hypotonia	Short neck
Atrial septal defect	Myoclonic seizures	Elev. ² serum creatine kinase	Polyneuropathy	Skeletal dysplasia
Atrioventricular block	Neurodegeneration	Hyperammonemia	Rhabdomyolysis	Spondylolysis
Bradycardia	Parkinsonism	Hyperglycemia	Rigidity	Thickened ribs
Cardiac valve calcification	Seizures	Hypertriglyceridemia		
Coarctation of aorta	Spastic paraparesis	Hypoglycemia	9. RESPIRATORY/MOUTH/TEETH/VOICE/HEARING	11. VARIOUS
Coronary atherosclerosis	Stroke	Hypokalemia	Asthma	Abn. ¹ external genitalia
Dilated cardiomyopathy	Tremor	Hypokalemic alkalosis	Carios teeth	Abn. ¹ of the face
Hypertension	Ventriculomegaly	Hypophosphatemia	Cleft palate	Angioedema
Hypertrophic cardiomyopathy		Hypothyroidism	Dysphagia	Breast carcinoma
Left ventricular hypertrophy	4. EYES	Immunodeficiency	Dyspnea	Colon cancer
Myocardial infarction	Abn. ¹ of the eye	Impaired T cell function	Gingival overgrowth	Cryptorchidism
Tachycardia	Abn. ¹ of eye movement	Lactic acidosis	Hearing impairment	Diabetes mellitus
Ventricular septal defect	Abn. ¹ of saccadic eye mov.	Metabolic acidosis	High palate	Fever
3. CENTRAL NERVOUS SYSTEM	Cataract	Myoglobinuria	Long philtrum	Hydrops fetalis
Abn. ¹ CNS myelination	Cherry red spot of the macula	Neutropenia	Microdontia	Hypospadias
Abn. ¹ of cerebral white matter	Corneal opacity	Pancytopenia	Obstructive sleep apnea	Low-set ears
Agensis Corpus callosum	Glaucoma	Proteinuria	Otitis media	Ovarian carcinoma
Aggressive behavior	Horizontal gaze palsy	Recurrent bacterial infections	Pulmonary hemorrhage	Ovarian neoplasm
Areflexia	Hypertelorism	Recurrent viral infections	Pulmonary hypoplasia	Polyhydramnios
Arnold-Chiari malformation	Micropthalmos	Recurrent fungal infections	Recurrent upper resp. tract inf.	Recurrent infections
Ataxia >>	Nystagmus	Respiratory alkalosis	Respiratory insufficiency	
	Ophthalmoplegia >>	Thrombocytopenia	Tooth abscess	

¹ Abn. = Abnormal/Abnormality
² Elev. = Elevated
³ FSGS = Focal segmental glomerulosclerosis

> **Additional phenotypic information**

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> **Family history** Consanguinity Yes No Affected siblings Yes No

> **Pedigree**

PEDEGREE LEGEND

Male
 Female
 Sex unknown
 Affected
 Unaffected

> **Additional family information**

FATHER Affected (attach summary of findings) Unaffected

Last Name

First Name

Date of Birth . . (DD/MM/YYYY) Sample Collection Date . . (DD/MM/YYYY)

MOTHER Affected (attach summary of findings) Unaffected

Last Name

First Name

Date of Birth . . (DD/MM/YYYY) Sample Collection Date . . (DD/MM/YYYY)

ADDITIONAL FAMILY MEMBER Affected (attach summary of findings) Unaffected Relation to patient

Last Name

First Name

Date of Birth . . (DD/MM/YYYY) Sample Collection Date . . (DD/MM/YYYY)

ADDITIONAL FAMILY MEMBER Affected (attach summary of findings) Unaffected Relation to patient

Last Name

First Name

Date of Birth . . (DD/MM/YYYY) Sample Collection Date . . (DD/MM/YYYY)

FURTHER ADDITIONAL FAMILY MEMBER I attach further family member information Total number of family members to be analysed

> **Patient Information**

Last Name

First Name

Date of Birth . . (DD/MM/YYYY) Sex Male Female Other

Your Reference Number Sample Collection Date . . (DD/MM/YYYY)

> **Physician or Laboratory** - Reporting address

Name of Physician

Clinic Name

Department

Street

Town

Postal Code Country

Phone Fax

E-mail (mandatory)

> **Additional Report Recipient**

Name of Physician Clinic Name

Department Street

Town Postal Code

Country Phone

E-mail (mandatory)

I hereby confirm that the patient consented to forward the medical report to this additional report recipient.

> **Billing**

> **Promo Code** - If applicable

CENTOGENE Quotation No.

Invoice to Patient Institution Insurance* - *Please attach cost coverage authorization

Company/Last name

Department/First name

Street Town

Postal Code Country

Phone

VAT ID (mandatory for institutional customers in the EU)

E-mail (mandatory)

> **In case of Direct Billing to the Patient**

The patient authorized to request the test(s) outlined on page 1. The patient was also informed about the resulting costs (and possibly applicable German 19% VAT) and requested to be billed directly by email. The address given above is the patient's billing address.

Place, Date **Signature of**  **Physician**



CENTOGENE requires a signed consent form from the patient in order to be legally able to conduct a genetic analysis. Please ensure that this signed consent form accompanies the sample(s).

Dear patient,

Your physician has recommended a genetic analysis for you (or a person in your legal custody) to clarify the diagnosis/symptoms stated in the section "declaration of consent" below. In order to ensure that you have understood the purpose and significance of a genetic analysis, we have provided information about the testing process and potential results below.

The purpose of a genetic analysis is to identify the cause of a suspected disease in you or your family by analyzing your genetic material (DNA) for an abnormal change (variant) that could explain the disease you or members of your family are experiencing.

In a genetic analysis, depending on the case, you can be tested for:

- A single gene/variant responsible for a specific, suspected genetic disease, or
- Multiple genes (gene panels, whole exome or genome sequencing) in parallel.

The study material that is needed to perform the genetic analysis is stated in the test order form and is typically blood or purified DNA, but may also be tissue, saliva or buccal swab.

Possible results from the genetic analysis:

A genetic analysis can have one of several outcomes:

- A disease-causing DNA variant is identified confirming the diagnosis and allowing appropriate medical management by your physician (if such is available).
- A DNA variant is identified but at this time, there is not enough scientific and medical information to determine if this is a disease-causing variant or not. Your physician will discuss such a result with you and explain what further options are available to you.
- The genetic analysis results in no specific finding that can explain the symptoms. This can be due to the current limitations in scientific or medical knowledge and technology.

It is important to understand that genetic analyses – even if the result of a specific analysis is negative – are not exhaustive and that it is therefore not possible to exclude risks for all possible genetic diseases for yourself and your family members (especially your children).

It is possible that the knowledge of the test results may result in psychological stress for you and your family. It is always recommended to discuss the results with your responsible physician.

Incidental findings:

Genetic analyses, particularly those involving a large number of genes such as whole exome or genome sequencing, may identify results that are not directly related to the actual reason for your testing (incidental findings). However, such findings could still be of medical importance for you and your family, as they may provide information about a risk (that you may not be aware of) for potentially serious, unavoidable or non-treatable genetic diseases.

As part of the optional sections of your consent declaration below, you can decide whether or not and under which circumstances you wish to be informed about such incidental findings.

Family relationship findings:

If several family members are tested, the correct interpretation of the results depends on the provided relationships between family members being accurate. If the genetic analysis reveals a possibility that there is a discrepancy in the provided relationships, CENTOGENE will not inform you, unless in exceptional cases where this information is absolutely necessary for the completion and correct medical interpretation of the requested analysis.

Use of the health data, sample and test results:

The sample and provided data including health data will be used for the requested analysis and along with the test results will be stored and processed in accordance with your consent declaration below.

Right of withdrawal:

You can withdraw your consent to the analysis with effect for the future at any time in full or in part without providing a reason.

Right not to know:

You have the right not to be informed about test results (right not to know) and to stop the testing processes that have been started at any time up to being given the results and to request the destruction of all analysis results.

Pseudonymisation and Anonymisation:

Pseudonymisation means the processing of your personal data in a way that the personal data can no longer be attributed to your person without a certain identifier, which is kept separately and protected only by CENTOGENE. "Anonymisation" refers to the process of rendering your data anonymous, which then does not allow your identification from the anonymous data at all anymore.

Data protection information for patient and physician:

In the following we want to inform you about the processing of personal data during and after the performance of the genetic analysis. "Personal data" is understood to mean all information which relates to an identified or identifiable natural person. To all such collected and processed personal data, the following applies:

- Controller and responsible entity for the processing of your personal data is CENTOGENE GmbH, Am Strande 7, 18055 Rostock, represented by the Executive Board members as can be found on our website (<https://www.centogene.com/company/executive-board.html>). You can reach our data protection officer under the same address with the addition "Attn: Data Protection Officer" or by email dataprivacy@centogene.com.
- Patient: By virtue of this consent form and through your physician, we collect the following data about you (in each case insofar as provided): personal details (including name and address), family relations, age/date of birth, gender, ethnicity, nationality, insurance information, symptoms and other medical information, disease, the study material / sample with identifiable genetic data, the genetic analysis results and findings. All your collected data will be stored for as long as indicated in the consent declaration. The data will be processed – partially also in data centers operated by service providers under our control and instructions - for the performance of the genetic analysis requested and for informing your physician of the results of such analysis, in each case on the basis of the consent provided. In case you have consented accordingly, such data will also be stored and processed for those further purposes as specified in the consent declaration.
- Physician: All your collected data will be processed to communicate with you about the tests and the results, as well as for invoicing, for as long as we keep identifiable data about your patients. This takes place on the basis of legal provisions allowing to process personal data for the purpose of performing a contract and for customer relation management reasons because we have a respective legitimate interest. We use data processors, which have been carefully selected and are subject to our instructions and to regular monitoring. Disclosures to data processors may result in such data being processed in countries outside of the EU (third countries). For each such transmission of data to a third country it is safeguarded that either an adequate level of protection or reasonable guarantees exist; e.g. by concluding a data processing agreement containing EU standard data protection clauses (retrievable at: https://ec.europa.eu/info/law/law-topic/data-protection_en).
- You (Patient and Physician) do have the following rights regarding personal data relating to you, which you can exercise at any time, e.g. through an email to dataprivacy@centogene.com:
 - Right to be provided with information about and to have access to the personal data stored on you;
 - Right to have the personal data stored on you rectified or erased;
 - Right to obtain restriction of processing your personal data;
 - **Right to object on grounds relating to your particular situation;**
 - Right to data-portability (i.e. receive personal data you provided to us in a structured, commonly used and machine-readable format); and
 - Right to withdraw your consent with effect for the future at any time.
- You have the right to lodge a complaint with a supervisory authority regarding the processing of your personal data.
- You may have further or modified rights under applicable national law, which remain unaffected.
- For a more detailed and regularly updated information about how we process personal data please visit our Data Protection Statement under www.centogene.com/data-protection.



GENETIC ANALYSIS FOR DISEASE:

(filled in by the physician)

By signing this declaration of consent I acknowledge that I have received, read and understood the preceding written explanation about genetic analyses. I also received appropriate explanations (from my physician) regarding the genetic basis, the purpose, scope, type and significance of the planned genetic analysis and achievable results, possibilities of prevention/treatment of the possible disease as well as with regard to risks associated with collecting the sample required for the genetic analysis and the knowledge of the results of the genetic analysis. All my questions have been answered and I have had the necessary time to make an informed decision about the genetic analysis.

With my signature below I give my consent or consent on behalf of the patient for whom I am the legal guardian:

(1) to the genetic analysis by CENTOGENE GmbH, Am Strande 7, 18055 Rostock, Germany, (CENTOGENE) for the disease stated above, (2) to the collection and processing by my physician and CENTOGENE of my "Personal (Health) Data" (meaning in particular and in each case insofar as provided: personal details (including name and address), family relations, age/date of birth, gender, ethnicity, nationality, insurance information, symptoms and other medical information, disease, the study material/sample with identifiable genetic data, the genetic analysis results and findings) as far as required to conduct the genetic analysis including any necessary transfers of my Personal (Health) Data between physician and CENTOGENE across national borders, (3) to the analysis of the obtained sample and its storage for 10 years at CENTOGENE together with my patient file to be able to verify results of the analysis if need be, (4) to add to my patient file or to files of family members and to use for the above purposes – if applicable – Personal (Health) Data on me or members of my family insofar as they have consented, (5) to inform me or my physician or – if CENTOGENE has been instructed by a laboratory acting on behalf of my physician – such laboratory about the results of the genetic analysis; and (6) to provide upon request to me, my physician or – as the case may be – the requesting laboratory, the raw data of the genetic analysis.

By ticking the relevant "YES" boxes below, I give my additional consent or consent on behalf of the patient for whom I am the legal guardian to:

Reporting of incidental findings

Whole exome sequencing (WES) and whole genome sequencing (WGS) tests analyze numerous different genes at the same time. It is therefore possible that a genetic variant found in the genetic analysis is possibly not related to the cause for ordering the testing. These findings, known as incidental findings, can provide information unrelated to your reported clinical symptoms, but can be of medical value for your treatment in the future. I understand the significance of such incidental findings and consent to CENTOGENE reporting DNA variants of the specified classes or types in certain genes in accordance with the "ACMG Recommendations for Reporting of Incidental Findings". I understand that CENTOGENE, using its own discretion, may refrain from reporting the recommended incidental findings or additionally also report (other) non-ACMG recommended incidental findings, in each case because of additional scientific and medical information available in CENTOGENE's databases.

YES

Further storage and use of my Personal (Health) Data and the sample

I understand that my Personal (Health) Data and (remaining) sample may help in further research, development and improvement of diagnostic methods and possibly therapeutic solutions. Such measures may in the future also enable and support medical advice and guidance to me and my family members, e.g. related to the diagnosis and treatment of a potential genetic disease.

- I agree that CENTOGENE stores (1) the Personal (Health) Data I provided and information on (affected) family members - if they consented - and the results of the genetic analysis and (2) my sample (including original and processed sample) for a period of 20 years and uses this data and the remaining samples for the purpose of internal research, improvement, development and validation of analysis procedures and related product and service developments.
- I agree that after a period of 20 years my Personal (Health) Data and (remaining) sample are anonymized and ownership in the sample is then transferred to CENTOGENE. Both will then remain in CENTOGENE's archives for use by CENTOGENE without restrictions.
- I agree that CENTOGENE may at any time process my anonymized or pseudonymized Personal (Health) Data, e.g. into its databases and datasets concerning genetic diseases, for the purpose of scientific and commercial research and to facilitate and contribute to the diagnosis of genetic changes and diseases of other patients. Access to such pseudonymised or anonymised data might be granted to external physicians, scientists and (pharmaceutical) companies for research and development purposes.
- I understand that I will not receive any compensation for the use of my Personal (Health) Data or sample by CENTOGENE.
- I understand that data in CENTOGENE's databases – once anonymized - cannot be destroyed upon request as it is unidentifiable and untraceable.

YES

I am aware that I can withdraw my consent with effect for the future in full or in part at any time and that I have the right not to know the results of the genetic analyses as described in the preceding written explanation.

If the undersigning is the legal guardian of the Patient, he/she herewith to confirms to provide the above consent declarations not for himself/herself but on behalf of the respective patient.

Date	Name of Patient	Signature of Patient /Legal Guardian
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I hereby confirm that the consent as shown above has been declared by the patient or (as the case may be) his/her parent or legal guardian and that I have his/her signature on file if it is not shown above. I confirm that the patient is capable of giving this consent (alternatively that the consent was given by a legal guardian of the patient), that all questions of the patient have been answered, that the patient had the necessary time to consider his/her decision and that the patient until now has not exercised his/her right not to know the results of the genetic analyses. I understand that the patient may request to have his/her genetic analyses results eliminated at any time and that I shall forward such requests to CENTOGENE without undue delay. I agree that my own personal data is stored in CENTOGENE's databases for organizational and invoicing purposes.

Date	Name of Physician	Signature of Physician
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