

University of Wisconsin Collaborative Genomics Core Clinical Exome Sequencing Information Form for Medical Providers



Exome Sequencing Analysis with Mitochondrial Analysis

Whole Exome Sequencing (WES) is used to detect variants in protein-coding DNA. The exome will be sequenced to an average read depth of 85-100X. Over 97% of the exome will be fully covered at ≥10X read depth. The mitochondrial genome of the patient will be sequenced to a minimum read depth of 20X.

Turn-around Time: 100 Days

How to order:

CGC/WSLH Test Code: 895M40 Specimen Requirements: Blood: 5-10 ml EDTA

Complete the attached CGC Genetic Diagnosis Request Form 131

- Complete the attached CGC Medical and Family History Form, including a three generation pedigree. Please describe all finding using HPO terms. An online tool is available at: http://compbio.charite.de/phenomizer/
- Consent patient for testing. See attached consent form. Please include the following in your discussions with the patient:
 - > The possible test results, including the option of receiving secondary findings
 - Potential implications for other blood relatives
 - Test limitations. This test does not sequence the entire genome. This test will not identify certain types of sequence variation, including large insertions, deletions, copy number variations, triplet repeat expansions and structural chromosome rearrangements.

Please feel free to contact our laboratory's genetic counselor with any questions. Phone: 608-262-0402

		University of Wisconsin Collaborative Genomics Core 465 Henry Mall Madison, WI 53706-1578	Genetic Diagnosis ((11/2015)	CGC# 13
	MADISON	http://www.med.wisc.edu/uwcgc			
(PLEASE PRIN	T USING CAPITALS-	FIELDS IN RED ARE REQUIRED)			
1) Patient Last Name	First Name	Middle Name			
2) Name Change- Former Last Nan	ne		—		
3) Patient Address					
4) City	State Zip	County of Residence	(13) Additional Repo	RT COPIES NEEDED?	
5) Date of Birth	(6) Age	(7) Sex 🗖 Male 🗖 Female	Please check this box	AND	
8) Ethnicity 🛛 Hispanic/Latino □Non-Hispanic/ Latin	(9)	│ □Black/African Amer □White □Pacific Islander	(14) Ordering Provider	ne and address on the back of this f	orm
(10) Chart #/ Patient ID Number	(11) Submitter Specimen IJ	D Number	(15) NPI #		
(16) Aug 1, 1, 1, 1, 6, 6, 1, 1, 1, 6	1/22				
(16) Attached copies of front and back of	insurance card(s)?				
18)	ANCE#		MEDICARE#		
(20) Please write the letter correspo	onding to the appropriate ICD	-10 Code to the left of the test name below (where app	licable)		
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21) Date of collection	(22) Time of collect	ion			
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As a participant in the ICCCG (International Collaboration for Clinical Genomics), WSLH contributes submitted clinical information and test results for molecular cytogenetic tests to a HIPAA-compliant, de-identified public database a part of the National Institutes of Health's effort to improve diagnostic testing and our understanding of the relationships between genetic changes and clinical symptoms. For information about the ICCG database, visit their website at https://www.iccg.org/. Confidentiality of each sample is maintained. Patients may request to withdraw consent for the storage of their sample and/or use of the data by: 1) checking the box below, 2) calling the laboratory at (608) 262-0402 and asking to speak with a genetic counselor, or by 3) visiting our website at www.slh.wisc.edu/cytogenet-ics.

🗖 Refusal for inclusion in these efforts may be indicated by checking this box. (If the box is not checked, the data will be anonymized and used.)

University of Wisconsin Collaborative Genomics Core

Informed Consent Form - Clinical Whole Exome Sequencing

This form should be read by you and your doctor and/or genetic counselor. It explains the test that he or she would like you to think about having done. The form includes the types of results the test can give you and what they might mean for you and/or your family. For more detailed information on genetics, genetic disease, inheritance, or genetic testing, please consult with a genetic counselor. You may contact our laboratory's genetic counselor by calling 608-262-0402.

PURPOSE

- 1. The purpose of this test is to find any changes (variants) that might be in your DNA. DNA is the molecule that makes up your genes.
- 2. This looks at thousands of genes at the same time.
- 3. This test is used when medical/family history and/or physical exam strongly suggest a genetic cause for the features seen in you or your family.
- 4. The decision to have this testing should be made by you and your doctor. If you wish to speak to a genetic counselor about this testing, you can call 608-262-0402 and ask for a genetic counselor.

TEST PROCEDURE

- 1. You will give a blood sample (5-10cc or about 2 teaspoons). The blood sample will be sent to the UW Collaborative Genomics Core.
- 2. Your DNA will be separated from the blood sample and tested ("sequenced").
- 3. The DNA sequence will be studied to look for changes in your DNA that could explain the features seen in you or your family.
- 4. Other members of your family may be asked to have testing done to help us understand your test results. The UW Collaborative Genomics Core will recommend who in your family should be asked to have testing. Their participation is voluntary.
- 5. This test will not find all changes in your DNA. Not all areas of your DNA are being tested. This test will sequence most of the areas that contain our genes, but not all. Some types of changes (large rearrangements, copy number variation (CNV), trinucleotide repeat expansions, epigenetic effects) may not be found.
- Many gene changes are expected to be found in your DNA sequence. Some changes are normal and do not cause health problems. Only medically important changes related to the request provided by your doctor will be reported.
- 7. DNA changes that might be important will be confirmed by a second test before being reported.

RESULTS

- 1. Test results will be reported to your doctor and/or genetic counselor assisting you with this testing.
- 2. Possible reported test results include:
 - Pathogenic (or likely pathogenic)- A clinically significant DNA change IS detected. We might find one or more changes in your genes that explain the features seen in you or your family.
 - A clinically significant change IS NOT detected. We might not find any specific change in your genes that would explain the features seen in you or your family. This result does not rule out a genetic cause for the features seen in you or your family.
 - Variant of uncertain significance- A result of uncertain clinical significance is detected. We might find changes in your genes, but may not know if they explain the features seen in you or your family.
- 3. <u>Secondary findings might be detected.</u> We might find changes in your genes that are not related to the features seen in you or your family, but might put you or your family at risk for a *different* genetic disease. The features of this different disease might or might not be visible at this time. You may choose whether or not to have secondary findings reported to you. Secondary findings are limited to those that have been outlined by the American College of Medical Genetics and Genomics Secondary Findings Committee. Types of such secondary findings include:
 - > Predisposition to increased cancer risk (ex. hereditary colon cancer, hereditary breast cancer)
 - > Certain connective tissue disorders (ex. Marfan syndrome, Loeys-Dietz syndrome)
 - > Certain inherited cardiac diseases (ex. Hypertrophic cardiomyopathy, Long QT syndrome)
- 4. Not all DNA changes (variants) will be reported. DNA changes that will not be reported include:
 - a. Variants commonly seen in healthy people (benign variants)
 - b. Variants that might slightly increase your risk for common disease (ex. diabetes, asthma, high blood pressure).
- 5. Test results may show that the true blood relationships of the family members being tested are reported incorrectly (for example: non-paternity the stated father of a child is not the biological father).



6. Test results will be reported for the patient only. Other family members who have testing to help us understand your results will not get a test result for themselves.

IMPLICATIONS OF RESULTS

- 1. Even if this testing finds a DNA change that may be causing the features seen in you or your family, it might not change your healthcare or treatment.
- 2. Results may have health and/or reproductive implications for other blood relatives. If you are found to have a clinically significant DNA change, your blood relatives (i.e. mother, father, siblings, children, etc.) may also carry that change.
- The UW Collaborative Genomics Core will use your DNA sequence and medical/clinical information to provide the most accurate data and interpretation currently possible. However, at any time new scientific information could significantly alter the interpretation or significance of any DNA change (variant). It is <u>your responsibility</u> to recontact your doctor for updated information regarding variants.

POTENTIAL BENEFITS OF TESTING

- 1. Your results may help your doctor make more informed decisions about your healthcare and management.
- 2. You may receive no benefit from testing.

POTENTIAL RISKS OF TESTING

- 1. There are very few physical risks associated with this testing.
- 2. Genetic testing may cause emotional stress. Some people may feel anxious or depressed after learning genetic information about themselves and/or their children.
- 3. Genetic testing results can sometimes seem confusing. A person might make an important decision that cannot be undone based on confusion about the results (i.e. reproductive decisions).
- 4. In rare cases, people with genetic diagnoses had problems with insurance coverage. Talk to your doctor or genetic counselor if you have concerns about genetic discrimination prior to any testing.
- 5. Test results may show that the true blood relationships of the family members being tested are reported incorrectly (ex. non-paternity the stated father of a child is not the biological father).

Please contact our laboratory's genetic counselor by calling 608-262-0402 if you have any questions or concerns regarding this testing and/or its potential risks.

Please demonstrate your understanding of this testing by indicating whether the following statements are true or false

a.	This testing is voluntary.	TRUE	or	FALSE
b.	You may receive no benefit from this testing.	TRUE	or	FALSE
c.	All DNA changes found will be included in the final report.	TRUE	or	FALSE
d.	It could be important for other blood relatives to know the results of this test.	TRUE	or	FALSE
e.	Why are you having this testing?			

Please indicate whether you want possible secondary findings reported to you/your doctor:

Yes, if found, I want secondary findings included in the final results. Please initial_

No, I do not want secondary findings reported to me/my doctor

Please initial

By signing below I acknowledge the following:

- 1. This testing is voluntary.
- 2. The sensitivity of this test is not 100% and that the cause of the features seen in me or my family may not be identified by this testing.
- 3. I have been informed of the risks and benefits of this testing and have been given a chance to have my questions answered by a genetics professional.
- 4. I am aware of what test results will and will not be disclosed to me.
- 5. I am aware that this testing could reveal true blood relationships.
- 6. I have read this consent form and will receive a copy for my records.
- 7. I give permission to have the UW Collaborative Genomics Core perform DNA sequencing of myself/my child.

Name of patient being tested (please print)

Signature of patient (see below if patient is a minor or decisionally-impaired adult)

Provider Statement

I have explained the genetic testing to this individual. I have reviewed the possible outcomes and limitations outlined above and have answered all questions.

Signature of provider

If patient is a minor or decisionally-impaired adult the following is required:

Signature of parent or legal guardian

Printed name

Specify relationship to patient: _____

Date of Birth (MM/DD/YYY)

(MM/DD/YYY)

Date

Date (MM/DD/YYY)

Date (MM/DD/YYY)

University of Wisconsin Collaborative Genomics Core

Phenotype and Family History Form – Whole Exome Sequencing

			0
Patient Name:	DOB:	Gender: []M []F	GAAGGCCAC
Genetics Professional:	Contact Number:		AGGGCCGCC TCCCGGCGG
<u>Medical History</u> Please describe all findings using HPO terms if available. A Include clinical diagnosis and previous genetic testing resu	An online tool is available at: http://com ults if known.	pbio.charite.de/phenomizer/	
Clinical Diagnosis:			
Perinatal history:	Cardiac:		
Growth:	Gastrointest	inal:	
Cognitive/Developmental:	Musculoskel	letal:	
Behavioral/Psychiatric:	Genitourina	ry:	
Cutaneous:	Immunologi	c:	
Neurological:	Metabolic:		
Hearing/vision:	Hematologic	::	
Craniofacial:			
Other:			

Dealt

Please list all previous genetic testing undergone by patient, including results:

University of Wisconsin Collaborative Genomics Core

Phenotype and Family History Form - Whole Exome Sequencing

Patient Name: _____ DOB: _____

Family History

Please draw a 3 generation family pedigree. Include detailed medical history as well as cause and age of deaths and any consanguinity if known. Ethnicity on paternal side:

Ethnicity on maternal side

