University of Iowa Carver College of Medicine
University of Iowa Health Care

Molecular Otolaryngology & Renal Research Laboratories
For test inquiries please call: 319-335-6623 • For billing inquiries call 319-467-1647
Fax: 319-353-5869 or 319-335-9890
Email: morl@uiowa.edu • https://morl.lab.uiowa.edu
CLIA: 16D0966193

MORL – Hearing Loss Testing Requisition Form

REFERRING LABORATORY USE ONLY: *please complete below section*

Requisition Date: Completed by: Accn#:

Collection: Blood Date:_____ #Tubes: _____

FOR MORL USE ONLY:
MORL Case #:

Part A) Patient Information or ID Sticker *(Required)*

Name: _____
Last First

DOB: _____ /_____ /_____
month day year

Sex: ☐Male ☐Female

MRN:_____

Part A$_1$) Patient Demographic Information *(Required)*

Ethnicity: ☐ Hispanic ☐ Not Hispanic

Race: ☐ Caucasian ☐ Black or African American
☐ Asian ☐ American Indian/Alaska Native
☐ Native Hawaiian or Other Pacific Islander
☐ More Than One Race _____

Part B) Reporting Information *(Required)*

Health Care Provider:

E-mail address:

Institution:

Street Address:

City: State: Zip:

Phone: ( ) FAX: ( )

Part C) Payment Information (*Required*)

Institutional billing or payment by Visa or MasterCard is accepted.

*****The MORL will NOT submit to insurance.**

Billing Contact:

Institution:

Street Address:

City: State: Zip:

Phone: ( ) FAX: ( )

If you or your patient would like to pay by credit card please contact Cathy Feng at 319-467-1647

Part D) Tests Requested – Please see page 2 for information required prior to performing this test

☐ **OtoSCOPE® Panel v9** (224 genes; Next Generation Sequencing (NGS) panel and copy number variant analysis)

☐ **Usher Panel** (9 genes; Next Generation Sequencing (NGS) panel and copy number variant analysis)

☐ **Aminoglycoside-Induced Hearing Loss Panel** (*MT-RNR1* gene; Sanger testing of: m.1095T>C, m.1494C>T, and m.1555A>G)

☐ ***GJB2/GJB6*** (Sanger sequencing of *GJB2* and known deletion screening for del(*GJB6*-D13S1830) and del(*GJB6*-D13S1854))

☐ **Familial Testing** *(site specific analysis to screen for variants previously found in a family member)* **MORL ID of index patient:** _____

Relationship to previously tested person (pedigree required)**:** _____ **Gene:**_____ **Variant/s:**_____

☐ **Gene Specific Testing** *(Single gene testing may be available for genes included on the current OtoSCOPE® panel. Please contact 319-335-6623 or morl@uiowa.edu prior to ordering to discuss availability, test methods, and cost)* **Gene:** _____

☐ **HEAR VUS** *(Variant reclassification program for qualifying families. Must have approval from MORL to participate)* **MORL ID of index patient:**_____

Relationship to previously tested person (pedigree required)**:** _____ **Gene:**_____ **Variant/s:**_____

Accepted Sample Types:

- 3-5 cc **EDTA whole blood**
- 5 µg DNA, resuspended in at least 50 ul of DNA Elution Buffer
- Saliva (DNA Genotek, ORAGene Discover, OGR-500) OR Buccal Swabs, at least 4 (DNA Genotek, OraCollect, OCD-100)

Ship all samples to:

Dr. Richard Smith
Molecular Otolaryngology & Renal Research Laboratories
The University of Iowa
285 Newton Rd., 5270 CBRB
Iowa City, IA 52242-1078

NO weekend deliveries

University of Iowa Shipping and Receiving Department is CLOSED on weekends & holidays

- **Whole blood must be shipped room temp or refrigerated and labeled with the patient's name, DOB and sex**
- **Please see page 3 for sample handling requirements - No Weekend Deliveries**

PLEASE INCLUDE A PEDIGREE, AUDIOGRAMS, TEMPORAL BONE IMAGING STUDIES (if performed) & CLINIC NOTES REGARDING HEARING LOSS FOR ALL TESTING REQUESTS

Updated 12/22/2023

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Patient Name: _____ **DOB:** _____ **MRN:**_____

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Part E) Pertinent Clinical History and Findings (Required for ALL testing).

***Pertinent Clinical History and Findings*:** (check)

Audiologic History:

(Audiograms or ABRs from all affected individuals)

Does this person have hearing loss: ☐ Yes ☐ No

Congenital hearing loss: ☐ Yes ☐ No

If ***NOT*** congenital, date/age of onset of hearing loss:_____

Degree of Hearing Loss

Right Ear	**Left Ear**
☐ Normal Hearing	☐ Normal Hearing
☐ Mild (20-40 dB)	☐ Mild (20-40 dB)
☐ Moderate (41-55 dB)	☐ Moderate (41-55 dB)
☐ Moderately Severe (56-70 dB)	☐ Moderately Severe (56-70 dB)
☐ Severe (71-90 dB)	☐ Severe (71-90 dB)
☐ Profound (>90 dB)	☐ Profound (>90 dB)

Type of Hearing Loss

☐ Conductive
☐ Sensorineural
☐ Mixed
☐ Unknown

Family History:

Other persons with hearing loss (if yes, you **MUST** attach a pedigree):
☐ Yes ☐ No

If yes, relationship to person named on this sheet _____

_____

Family History Comments:

***Pertinent Clinical History and Findings*:** (check)

Physical Examination:

(provide clinic notes pertaining to hearing loss)

Excluding hearing loss, physical examination entirely normal:
☐ Yes ☐ No

If no, were features of syndromic hearing loss present? Describe features or name syndrome:_____

_____

Vision:

Does your patient wear corrective lenses? ☐ Yes ☐ No

If yes, please provide diopter of vision correction:
Left:_____/Right:_____

Eye findings (e.g. cataracts)? ☐ Yes ☐ No

If yes, please describe: _____

_____

Motor Milestones:

Delayed sitting: ☐ Yes ☐ No

If yes, approximate age patient sat:_____

Delayed walking: ☐ Yes ☐ No

If yes, approximate age patient walked:_____

Radiologic Studies:

CT scan / MRI of temporal bones (If yes, a disk of the temporal bone images or copy of report **MUST** be provided):
☐ Yes ☐ No

Report read as Dilated Vestibular Aqueducts?
☐ Yes ☐ No

OR Mondini malformation?
☐ Yes ☐ No

Comments:

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Molecular Otolaryngology & Renal Research Laboratories Sample Requirements

*Questions? Contact Amy Weaver at 319-335-6623 or **amy-weaver@uiowa.edu***

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DNA Testing Sample requirement Lavender (EDTA) top tubes *(for whole blood)*

Minimum sample volume

3-5 cc. whole blood
(MORL not responsible for broken tubes.)
OR
5 µg DNA, resuspended in at least 50 ul of DNA Elution Buffer
OR
Saliva (DNA Genotek, ORAGene Discover, OGR-500)
OR
Buccal Swabs, at least 4 (DNA Genotek, OraCollect, OCD-100)

Please note if you send less than the minimum volume/concentration of blood and/or DNA your request for testing will be rejected and a new sample will be required to perform the testing indicated on page 1 of this testing requisition form.

Blood or DNA Shipping requirements:

Overnight delivery, Room temperature **(DO NOT FREEZE)**

Delivery: Monday-Friday.

Samples may be refrigerated if delivery is delayed.

Information to Include: **Testing will not be performed unless ALL of the following information is provided and the minimum sample requirement** (found on page 3) **is met.**

Specimen information:
Patient identifiers (**full name, date of birth, sex and medical record number**)
Patient address, necessary for receipt and/or reporting results
Pertinent history and clinical findings (found on page 2)
Date of collection & Sample type
Ordering healthcare provider

Billing information:
We will NOT bill insurance, Medicare or patient directly.
Institutional billing accepted. Visa and Master Card accepted.
Personal checks NOT accepted.
Please include contact information including phone & fax number for billing questions.

DISCLAIMER:
This request to order molecular diagnostic tests from the MORL certifies to the MORL that the ordering physician has obtained informed consent from the patient as required by applicable state or federal laws for each test ordered, that the ordering physician has authorization from the patient permitting the MORL to report results for each test ordered to the ordering physician, and that the ordering physician assumes responsibility for providing the patient with all associated guidance and counseling regarding the test results.

For more information about the tests we offer at the MORL please visit our website at:

https://morl.lab.uiowa.edu

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IMPORTANT INFORMATION FOR HEALTH CARE PROVIDER:

Genetic testing detection methods are greater than 99% accurate. There is a possibility a test may not work properly, or test results do not pass test quality metrics outlined by the MORL. You may be asked to provide an additional sample if it is felt that confirmatory testing is needed. There is a rare possibility of an inaccurate results from the test. Possible reasons for inaccurate results include, but are not limited to: incorrect clinical or medical information provided with the sample or mislabeled samples.

Genetic testing may not always give a clear diagnosis. Analysis and interpretation of genetic test results represent our best knowledge and understanding of the genetics of deafness at the time of testing. Hearing loss is a complex disorder and penetrance of a phenotype (the degree of hearing loss, for example) may be variable. Research to determine genotype-phenotype correlations is ongoing.

Unexpected test results may be detected. These results may occur with screening tests that evaluate many different genetic regions. From these tests, information may be learned about you, your child/children or your family that is not directly related to the clinical reason for ordering the test (secondary results). This information may provide data about the risk for a different genetic disease with symptoms that may or may not be currently evident.

A risk associated with this testing is that genetic testing has the potential to unintentionally reveal information regarding biological relationships such as non-paternity (the stated father is not the patient's biological father). Although the goal of this testing is not to determine paternity, testing may find genetic changes in both parents that may indicate possible non-paternity. In some cases, non-paternity may be confused with genetic changes that arise spontaneously, called *de novo* variants. We will not attempt to resolve or disclose issues of non-paternity during the course of this testing.

Because of the complexity of genetic testing, MORL recommends all test result be discussed with a genetic counselor or healthcare provider. We follow guidelines proposed by the American College of Medical Genetics and do not offer carrier testing for autosomal recessive deafness in minors.

Note: Hearing loss is a very complex disorder. This complexity means that variants in many different genes can lead to deafness. It is possible that no variants will be detected in the variant screens (the genes) you have requested.

If your patient is interested in joining research studies ongoing in the MORL laboratories to investigate other genetic causes of deafness please ask your patient to email Dr. Richard JH Smith (richard-smith@uiowa.edu) or Amy Weaver (amy-weaver@uiowa.edu).

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