Heart Disease has many potential causes. Cardiomyopathies can have many causes and symptoms, as well as treatments. Even though the risk of major adverse effects including sudden cardiac death are high, cardiomyopathy often goes undiagnosed. Genetic testing can help in both diagnosis and treatment of this widespread and deadly disease.

**Genetic Testing Provides:**
- Diagnosis of certain clinical conditions
- Guidance regarding disease prognosis
- Insights for risk of family members
- Implications for therapeutic drugs

**Predict and treat the disease, not just the symptoms**
Cardiomyopathies are known to be associated with sudden cardiac death or other major adverse events. In addition, individuals with conditions such as Fabry or Danon disease require different clinical care, even though the symptoms present themselves similar to isolated cardiomyopathies. Genetic testing can help provide treatment options relevant to the exact disease present, rather than just the symptoms, potentially eliminating unnecessary procedures.

**Heart Disease is the leading cause of death.**

Genetic Testing can aid in diagnosis and identify at-risk patients.

**Why choose Otogenetics-Cardio Panel for testing?**
Once your panel is completed, we want you to have the information you need to diagnose the root cause of cardiomyopathies.

- **Ease:** Customized and concise reports with actionable results for patient care
- **Expertise:** Experience in genetic testing for over 10 years
- **Reliability:** All staff is highly trained, with high percentage of MS/PhD scientists, ensuring the accuracy of results
- **Prompt:** Quick turnaround time

**Cardiomyopathy Gene Panel**
The Otogenetics Cardiomyopathy Panel sequences 44 genes associated with several variations of cardiomyopathy. The Otogenetics Cardiomyopathy gene panel consists of a thorough testing of the genes that are known to be the primary cause of heart failure in humans.

**Who should be tested:**
- Patients diagnosed with HCM or DCM
- In some cases for patients with unclear diagnosis, testing may help shorten the “diagnostic odyssey”
- Family members and children in familes with a known mutation

**Sudden Cardiac Arrest in Children**
Familial cardiomyopathies are inherited and known to be a frequent case of sudden cardiac death in children. Genetic testing can determine the risk for developing cardiomyopathies and knowing what symptoms to watch for in children.
Otogenetics Cardiomyopathy Panel

State of the Art Technique
- Next Generation Sequencing (NGS) techniques eliminate ambiguities at every locus compared to other genetic testing methods
- Our experts keep up with the newest discoveries related to genetics, so that clinics can focus on patients

Gene List:
- ABCC9
- ACTC1
- ACTN2
- BMPR2
- CAV3
- DES
- GLA
- LAMA4
- LAMP2
- LDB3
- LMNA
- MT-TD
- MT-TG
- MT-TI
- MT-TK
- MT-TL1
- MT-L2
- MT-TM
- MT-TQ
- MT-TS1
- MT-TS2
- MYBPC3
- MYH6
- MYH7
- MYL2
- MYL3
- MFPN
- PLN
- PRKAG2,
- PSEN1
- PSEN2
- RBM20
- SCN5A
- SGCD
- TAZ
- TCAP
- TMPO
- TNCC1
- TNNI3
- TNNT2
- TPM1
- TTR
- VCL

Reporting that Fits Your Needs
- Clinical Reports are tailored to the recipient
- Highlighting of information critical to patient care
- Examined and signed by PhD/MD with specialization in genetics

Diseases Covered on the Cardiomyopathy Panel:
- Hypertrophic cardiomyopathy (HCM)
- Dilated cardiomyopathy (DCM)
- Arrhythmogenic right ventricular dysplasia/cardio myopathy (ARVD/C)

References:

Test Name: Cardiomyopathy Gene Panel
Order #: Oto-HDCM
Specimen Requirement:
- 2-5ml whole blood in EDTA or citric collection tubes
- Saliva in saliva collection kit
- Genomic DNA