

## Overview

### Useful For

Identifying specific causes contributing to sudden cardiac death

### Testing Algorithm

An interpretation will be provided by Mayo staff pathologists within a formal pathology report that is sent to the referring Medical Examiner.

Appropriate stains and other ancillary testing may be performed and charged separately.

### Method Name

Medical Interpretation

### NY State Available

Yes

## Specimen

### Specimen Type

SUDC Study Specimen

### Ordering Guidance

This test is only orderable for the Sudden Cardiac Death Pathology Evaluation study.

### Necessary Information

1. Patient date of birth and date of death are required. All specimens must be labeled with specimen type.
2. The referring pathologist's or medical examiner's name and phone number are required.
3. All specimens, patient history, and requests should be clearly labeled with correct patient identifiers.

### Specimen Required

**Specimen Type:** Heart

### Supplies:

---

Pathology Packaging Kit (T554)

Refrigerate/Ambient Shipping Box, 5 lb (T329)

**Specimen Volume:** Entire specimen

**Collection Instructions:**

1. Fix entire specimen in formalin for a minimum of 24 hours.
2. Following fixation, lightly wrap specimen in formalin-soaked paper towel, place in a leak-proof sealable bag with a small amount of formalin, seal, and ship ambient in a sturdy shipping container.

**Additional Information:** Paraffin block may be accepted.

**Specimen Type:** Blood

**Container/Tube:** Lavender top (EDTA)

**Specimen Volume:** 10 mL

**Reject Due To**

No specimen should be rejected.

**Specimen Minimum Volume**

See Specimen Required

**Specimen Stability Information**

Specimen Type	Temperature	Time	Special Container
SUDC Study Specimen	Ambient (preferred)		
	Frozen		
	Refrigerated		

**Clinical & Interpretive**

**Clinical Information**

Sudden, unexpected death in individuals less than 40 years of age with a strong probability of cardiac disease (including cases of obvious cardiomyopathy, with likely genetic underpinning). This evaluation is offered to provide the careful dissection and diagnostic experience that may be needed for subtle or overt cases of cardiovascular disease.

---

**Reference Values**

The laboratory will provide a pathology consultation.

**Interpretation**

This request will be processed as a consultation. Appropriate stains and ancillary testing will be performed and an interpretation provided.

**Cautions**

[Appropriate tissue sampling and fixation are required in order to make a diagnosis.](#)

**Clinical Reference**

1. Baudhuin LM, Leduc C, Train LJ, et al: Technical advances for the clinical genomic evaluation of sudden cardiac death: Verification of next-generation sequencing panels for hereditary cardiovascular conditions using formalin-fixed paraffin-embedded tissues and dried blood spots. *Circ Cardiovasc Genet*. 2017 Dec;10(6):e001844. doi: 10.1161/CIRCGENETICS.117.001844
2. Ackerman JP, Bartos DC, Kapplinger JD, Tester DJ, Delisle BP, Ackerman MJ: The promise and peril of precision medicine: phenotyping still matters most. *Mayo Clin Proc*. 2016 Oct 8:S0025-6196(16)30463-3. doi: 10.1016/j.mayocp.2016.08.008

**Performance****Method Description**

All requests will be processed as a consultation case. Ancillary studies will be performed only if deemed to be diagnostically indicated.

**PDF Report**

No

**Performing Laboratory Location**

Rochester

**Fees & Codes****Test Classification**

Not Applicable

**CPT Code Information**

88037

**LOINC® Information**

Test ID	Test Order Name	Order LOINC Value
SUDC	Sudden Cardiac Death Path Consult	In Process

Result ID	Reporting Name	LOINC®
606931	Interpretation	59465-5
606932	Participated in the Interpretation	No LOINC Needed
606933	Report electronically signed by	19139-5
606934	Addendum	35265-8
606935	Gross Description	22634-0
606936	Material Received	22633-2
606937	Disclaimer	62364-5
606938	Case Number	80398-1