1. Start date and time:
2. Stop date and time:
3. Mean heart rate: (beats/min)
4. Predominant rhythm:

Normal sinus rhythm

Supraventricular tachycardia

Sinus tachycardia

Atrial arrhythmia

Sinus bradycardia

Ventricular arrhythmia

Other, specify:

1. Minimum heart rate: (beats/min)
2. Maximum heart rate: (beats/min)
3. Duration at maximum heart rate: (seconds)
4. Type of atrial dysrhythmias (Choose all that apply):

Supraventricular ectopy

Atrial flutter, specify below:

Total number of episodes:

Duration in seconds:

Atrial fibrillation, specify below:

Total number of episodes:

Duration in seconds:

Supraventricular tachycardia (SVT):

Total number of episodes:

Duration in seconds:

Other, specify:

None (skip to question #11)

1. Premature atrial contractions per 24 hours: %
2. Total number of tachycardia episodes:
   1. Longest run**:**  Beats  Beats/Min
   2. Fastest run**:** (Beats/Min)
3. Type of ventricular dysrhythmias (Choose all that apply):

Ventricular ectopy

Ventricular tachycardia:

Total number of episodes:

Duration in seconds:

Other, specify:

None (skip to question #13)

1. Premature ventricular contractions per 24 hours: % (number)
   1. Number of couplets:
   2. Number of triplets:
   3. Morphology:  Unifocal  Multifocal
2. Symptomatic during documented arrhythmias:  Yes  No

If YES, describe symptoms:

1. Episodes of heart block (Choose all that apply):

First degree

Second degree

Third degree

None

1. 24-hour Holter results (Choose only one):

Abnormal

Normal

Not assessed

1. If result was abnormal:

Clinically significant

Not clinically significant

Recorder Signature: Date:

## General Instructions

This form contains data elements that are collected to measure heart rhythms for 24 hours.

For mitochondrial disease exercise testing, performing a Holter Examination over a minimum of three days is suggested.

Important note: None of the data elements included on this CRF Module are classified as Core (i.e., strongly recommended for all mitochondrial disease clinical studies to collect). All of the data elements are classified as Supplemental and should only be collected if the research team considers them appropriate for their study.

Please see the Data Dictionary for element classifications.

## Specific Instructions

Please see the Data Dictionary for definitions for each of the data elements included in this CRF Module.

* Start date and time – Date/time should be recorded to the level of granularity known (e.g., year, year and month, complete date plus hours and minutes, etc.) and in an unambiguous format acceptable to the study database like DD-MMM-YYYY. When date/time data are prepared for aggregation or sharing, they should be converted to the format specified by [ISO 8601](https://www.iso.org/iso-8601-date-and-time-format.html);  YYYY-MM-DD T:hh:mm:ss.
* End date and time – Date/time should be recorded to the level of granularity known (e.g., year, year and month, complete date plus hours and minutes, etc.) and in an unambiguous format acceptable to the study database like DD-MMM-YYYY. When date/time data are prepared for aggregation or sharing, they should be converted to the format specified by [ISO 8601](https://www.iso.org/iso-8601-date-and-time-format.html);  YYYY-MM-DD T:hh:mm:ss.
* Mean heart rate – Record the average heart rate in beats per minute.
* Predominant heart rhythm – Choose one.
* Minimum heart rate – Record the minimum heart rate in beats per minute.
* Maximum heart rate – Record the maximum heart rate in beats per minute.
* Atrial dysrhythmia type – Choose all that apply.
* Premature atrial contractions percentage – Record the premature atrial contractions per 24 hours as a percent (%)
* Ventricular dysrhythmia type – Choose all that apply.
* Premature ventricular contractions percentage – Record the premature ventricular contractions per 24 hours as a percent (%) or number.
* Ventricular contraction morphology – Choose one.
* Exam heart block episode – Choose all that apply.
* Exam result – Choose only one.
* Abnormality significance–Choose only one.