

## Cardiomatics for Education

## Task 1.

The ECG Analysis Report is incomplete. Using **"ECG tutorial: Basic principles of ECG analysis"** calculate heart rate, recognize rhythms and beats. Then fill the blank spaces on ECG strips.

- Fig 1. Calculate HR between beats.
- Fig 2, 3. Recognize rhythm look at the HR between consecutive normal beats.
- Fig 4, 5. Name the beat which looks different than others.
- Fig 6. Specify trigeminy type.
- Fig 7. \* Recognize rhythm. Note that three beats (of the same type) at a rate of > 100 bpm appeared one after the other.

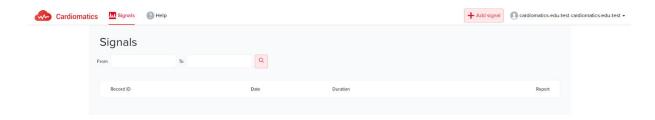
## Task 2.

Check the results by comparing your answers and the automatic analysis report. To analyse an ECG signal, proceed as follows:

1. Open the website <a href="https://app.cardiomatics.com/">https://app.cardiomatics.com/</a>, then log in with your given login and password.



2. To select files from a disk click the Add Signal button...



and choose "ECG.EDF" file from your disk - path to the file will be given by the lecturer. There is a possibility to change record ID in this step. Please confirm upload by clicking **Upload signal** button.





3. A list of uploaded files is available under the **Signals** tab (upper-left corner).



4. To get the report for a particular signal, click the **Generate report** button...



...and wait a few seconds.

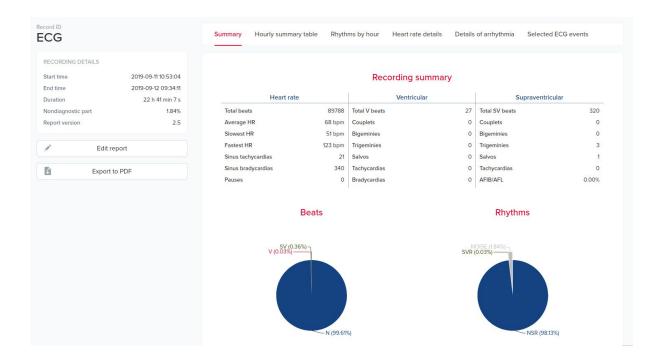


5. Interactive report is ready when the **Show report** button replaces the charging sign. To view the report, click the **Show report** button.





There is a possibility to open and download the PDF report under the "Export to PDF" button.



6. After finishing your work on the website, please logout using **Logout** icon in the upper-right corner.

## Task 3.

Your feedback is really important for us. Please fill the survey: <a href="https://forms.gle/B6HKaY9G2m7YRGePA">https://forms.gle/B6HKaY9G2m7YRGePA</a>