CLAIMS

1. An information processing system, configured to execute:

a reading step of reading out an input first electrocardiogram including an electrocardiogram of a user; and

a determination step of determining a heart failure stage of the user based on the first electrocardiogram and reference information, wherein the reference information is information showing a relationship between a second electrocardiogram and a feature quantity of the heart failure, the second electrocardiogram including an electrocardiogram in which the heart failure stage has been determined by a physician obtained beforehand, wherein:

the reference information is a learned model in which the feature quantity of the heart failure is learned from the second electrocardiogram, and

the learned model is configured to be updatable by machine-learning determination in the determination step and clinical data of the user the heart failure stage of which has been determined.

2. The information processing system according to Claim 1, wherein:

the clinical data is data including at least one of age, gender, BMI (Body Mass Index), PWTT (Pulse Wave Transit Time), blood pressure, heart rate, SDNN (Standard Deviation of The NN Interval), CVRR (Coefficient of Variation of RR Interval), atrial fibrillation, or HRV (Heart Rate Variability).

3. The information processing system according to Claim 1 or Claim 2, wherein:

the first electrocardiogram is configured of one lead.

4. The information processing system according to Claim 3, wherein:

the one lead is a lead I, obtained from a right hand and a left hand of a user.

5. The information processing system according to any one of Claims 1 to 4, further configured to execute:

a preprocessing step of preprocessing the first electrocardiogram read out in the reading step, wherein the preprocessing is a processing for removing noise in the first electrocardiogram.

6. The information processing system according to any one of Claims 1 to 5, wherein:

the first electrocardiogram is configured of 1 to 50 beats.

7. The information processing system according to any one of Claims 1 to 6, further configured to execute:

a reception step of accepting the first electrocardiogram from a first user terminal, and

a visual information generation step of generating visual information that can be seen by a second user terminal from a result of the determination step.

8. A program, wherein:

the program allows a computer to execute each step of the information processing system according to any one of Claims 1 to 7.