

RHYTHM INTERPRETATION

Estimated Time: 20 minutes



Scan to Begin



SCENARIO OVERVIEW

In this serious game, students are tasked with interpreting the following cardiac rhythms:

- Normal Sinus
- Sinus Bradycardia
- Sinus Tachycardia
- Atrial Fibrillation
- Atrial Flutter
- Premature Ventricular Contraction (PVC)
- Premature Atrial Contraction (PAC)

INSTRUCTIONS

1. Present students with the printed **Rhythm Interpretation Serious Game** student handout.
2. In the ARIS platform, students scan the provided QR code to begin each game.

3. A tutorial begins each of the **Rhythm Interpretation Serious Games** to guide students through the rhythm interpretation process as follows: Step 1: Calculate the rate, Step 2: Determine regularity, Step 3: Assess the P waves, Step 4: Determine the PR interval, and Step 5: Determine the QRS duration. Note: students can skip the tutorial if desired.
4. For each cardiac rhythm, students are shown both a video and a six second ECG strip. Then, they are asked six questions. The first five questions are based on the Steps listed above. For the final question, students are asked to actually interpret the rhythm.
5. A full rationale screen is displayed after the last question for each rhythm and includes: an explanation of the pathophysiology, some common signs and symptoms, treatment options, and possible causes.

LEARNING OBJECTIVES

1. Accurately identify various heart rhythms

CURRICULUM MAPPING

This is a multidisciplinary game that can be mapped to any specific program competency that involves cardiac rhythm interpretation.

SCORING

1. Throughout each serious game, students earn “stars” for correct answers. Their goal is to collect all of the possible stars and become a “Star Rhythm Interpreter.”
2. At the end of each game, a “Star Score” screen is displayed on the iPad which shows both the number of stars earned and a statement stating how well they did. Scores and statements correspond to the following table:

Total Stars Awarded	Accompanied iPad Language
100%	Outstanding! You identified all of the cardiac rhythms correctly. Keep up the great work!
99-93%	Great job! You answered most of the questions about cardiac rhythms correctly.
92-85%	You did well, but we think you can do even better. Try interpreting the cardiac rhythms again.

84-80%

Not bad, but your cardiac interpretation skills still need some work. Try interpreting the cardiac rhythms again.

79% or lower

Try again! We know you can do better next time at interpreting cardiac rhythms.

3. As an option, a timestamp is also provided on the final “Star Score” screen. Students can take a screen shot of this and email it to their instructor as “evidence” that they completed this serious game successfully.

SURVEY

Print this page and provide to students.

Students, please complete a brief (2-3 minute) survey regarding your experience with this ARISE simulation. There are two options:

1. Use QR Code: Survey



2. Copy and paste the following survey link into your browser

CREDITS

ECG gif downloaded from Wikimedia Commons

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