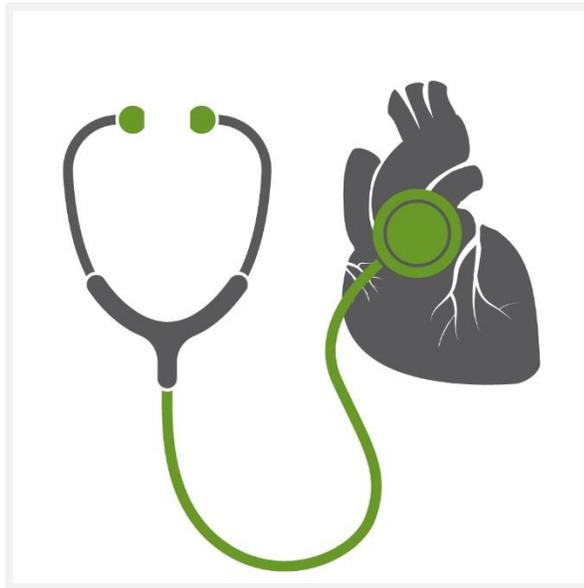


HEART SOUNDS INTERPRETATION

Estimated Time: 15 minutes



Scan to Begin



SERIOUS GAME OVERVIEW

In this serious game, students are tasked with interpreting the following heart sounds:

- Normal Newborn
- S3
- S4
- Atrial Fibrillation
- Murmur

INSTRUCTIONS

1. Present students with the printed **Heart Sound Interpretation Serious Game** student handout.
2. Using the ARIS app on an iPad, students scan the provided QR Code to begin each game.
3. For each heart sound, students are shown a patient video which sets the context of the scenario. Then, a heart sound is provide. Students are required to identify the heart

sound, a potential cause of the sound, and select an appropriate medication that could potentially be used to treat the patient with the heart sound.

4. A Rationale is provided after each question to enhance student knowledge related to the heart sound.
5. At the end of the game, stars are displayed based on how many correct answers the student achieved. A screen shot of this image with the timestamp provided can be taken and submitted to the instructor for proof of completion. No two timestamps will be the same.

LEARNING OBJECTIVES

1. Accurately identify various types of heart sounds.
2. Identify potential causes of different types of heart sounds.
3. Plan appropriate interventions for different types of heart sounds.

CURRICULUM MAPPING

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

WTCS NURSING PROGRAM OUTCOME

- Provide patient centered care by utilizing the nursing process across diverse populations and health care settings

WTCS RESPIRATORY THERAPY PROGRAM OUTCOME

- Apply respiratory therapy concepts to patient care situations

EMT- PARAMEDIC PROGRAM OUTCOME

- Integrate pathophysiological principles and assessment findings to provide appropriate patient care

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 Heart Sound Interpreter.”

- 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 heart sounds and appropriate interventions correctly. Keep up the great work!
99-93%	Great job! You answered most of the questions about heart sounds and corresponding interventions correctly.
92-85%	You did well, but we think you can do even better. Try your heart sound assessments and interventions again
84-80%	Not bad, but your heart sound identification and interventions still need some work. Try your heart sound assessments and interventions again
79% or lower	Try again! We know you can do better next time at identifying heart sounds and appropriate interventions

- 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
 - a. Note: You will need to download a QR Code reader/scanner onto your own device (smartphone or tablet). There are multiple free scanner apps available for both Android and Apple devices from the app store.
 - b. This QR Code will not work in the ARIS app.



2. Copy and paste the following survey link into your browser.
 - a. https://ircvtc.co1.qualtrics.com/SE/?SID=SV_6Mwfv98ShBfRnBX

CREDITS

Heart sounds used from Heart Sounds Library at Thinklabs with permission. Downloaded from <https://www.thinklabs.com/heart-sounds>

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