

# Astronaut Scenario



The scene is mission control at Space Command Central. Video and audio communications with our three astronauts in space have suddenly been lost. Communications have been out for some time, and repeated attempts by mission control technicians to fix the problem have been unsuccessful. Space Command Central would like to know if the astronauts are aware of the problem and if they are trying to fix it from their end. Unfortunately, it is supposed to be nighttime for the astronauts, and they may be asleep. What, if anything, is going on in space?

Space Command Central decides to assemble their medical team. Even though audio and video communications are out, medical telemetry (that is, data on the status of key body systems) is still being received. The engineers at Space Command Central need help interpreting all of the medical data they are receiving. Your expertise is needed to determine the state of wakefulness or sleep for each of the astronauts. If the astronauts are asleep, are they in NREM or REM sleep?

# Astronaut Telemetry Evaluation Form

Space Command Medical Team Report

Name(s) \_\_\_\_\_ Date \_\_\_\_\_

Overall Evaluation: Medical telemetry for astronaut **Jordan** indicates (circle one):

wakefulness          NREM sleep          REM sleep          data inconclusive

1. Which data were useful in making your determination, and, specifically, how were they helpful?

2. Which data were *not* helpful in making your determination, and why were they not helpful?

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Overall Evaluation: Medical telemetry for astronaut **Rodriguez** indicates (circle one):

wakefulness          NREM sleep          REM sleep          data inconclusive

1. Which data were useful in making your determination, and specifically, how were they helpful?

2. Which data were *not* helpful in making your determination, and why were they not helpful?

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Overall Evaluation: Medical telemetry for astronaut **Chen** indicates (circle one):

wakefulness          NREM sleep          REM sleep          data inconclusive

1. Which data were useful in making your determination, and specifically, how were they helpful?

2. Which data were *not* helpful in making your determination, and why were they not helpful?