

HRV Instrumentation

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Question 1

Generic Parent » HRVB Tutor

1 pt

When you cannot detect a strong BVP signal from the fingers, you should consider a ____ placement.

- ☒ A. thumb
- ☐ B. toe
- ☐ C. brachial artery
- ☐ D. vertebral artery

Question Type: Multiple Choice
Randomize Answers: Yes
Date Added: Thu 20th Jun 2019
Last Modified: N/A
QID#: 17,096,251

Correctly answered feedback

When you cannot detect a strong BVP signal from the fingers, you should consider a thumb placement.

Incorrectly answered feedback

When you cannot detect a strong BVP signal from the fingers, you should consider a thumb placement.

Question 2

Generic Parent » HRVB Tutor

1 pt

What does a photoplethysmograph (PPG) sensor measure?

- ✓ A. relative blood flow
- B. absolute blood flow
- C. peripheral temperature
- D. venous tone

Question Type: Multiple Choice
Randomize Answers: Yes
Date Added: Thu 20th Jun 2019
Last Modified: Thu 20th Jun 2019
QID#: 17,096,257

Correctly answered feedback

A photoplethysmograph (PPG) sensor measures relative blood flow.

Incorrectly answered feedback

A photoplethysmograph (PPG) sensor measures relative blood flow.

Question 3

Generic Parent » HRVB Tutor

1 pt

Which is an advantage of BVP recording over ECG recording?

- A. no skin preparation
- B. faster sensor attachment
- C. no clothing removal
- ✓ D. all of these choices are correct

Question Type: Multiple Choice
Randomize Answers: Yes
Date Added: Thu 20th Jun 2019
Last Modified: N/A
QID#: 17,096,316

Correctly answered feedback

Three advantages of BVP recording over ECG recording are faster sensor attachment, no clothing removal, and no skin preparation.

Incorrectly answered feedback

Three advantages of BVP recording over ECG recording are faster sensor attachment, no clothing removal, and no skin preparation.

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Question 4

Generic Parent » Instrumentation

1 pt

How long does it take blood volume pulse (BVP) to display a response to a stressor?

- ✓ A. 0.5-2 seconds
- B. 2-3 seconds
- C. 5-10 seconds
- D. 15-30 seconds

Question Type: Multiple Choice
Randomize Answers: Yes
Date Added: Wed 19th Jun 2019
Last Modified: N/A
QID#: 17,090,882

Correctly answered feedback

Blood volume pulse displays a response to a stressor in 0.5 - 2 seconds.

Incorrectly answered feedback

Blood volume pulse displays a response to a stressor in 0.5 - 2 seconds.

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Question 5

Generic Parent » Instrumentation

1 pt

Which is the major cause of BVP signal distortion?

- A. insufficient light
- ✓ B. movement
- C. warm room temperatures
- D. ECG artifact

Question Type: Multiple Choice
Randomize Answers: Yes

Date Added: Thu 20th Jun 2019
Last Modified: N/A
QID#: 17,096,195

Correctly answered feedback

Movement is the main cause of BVP signal distortion

Incorrectly answered feedback

Movement is the main cause of BVP signal distortion

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Question 6

Generic Parent » HRVB Tutor

1 pt

When should you expect the BVP and ECG methods to yield different HRV values?

- ✓ A. when there is marked sympathetic activation
- B. when there is marked parasympathetic activation
- C. during resonance frequency breathing
- D. when room temperature is above 74 degrees F

Question Type: Multiple Choice
Randomize Answers: Yes
Date Added: Thu 20th Jun 2019
Last Modified: N/A
QID#: 17,096,327

Correctly answered feedback

The BVP and ECG methods yield different HRV values when there is marked sympathetic activation, because it produces vasoconstriction that decreases transit time.

Incorrectly answered feedback

The BVP and ECG methods yield different HRV values when there is marked sympathetic activation, because it produces vasoconstriction that decreases transit time.

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Question 7

Generic Parent » HRVB Tutor

1 pt

When recording the ECG, use of ____ is the best way to reduce the risk of infection.

- A. permanent electrodes
- ✓ B. disposable electrodes
- C. floating electrodes
- D. precious metal electrodes

Question Type: Multiple Choice
Randomize Answers: Yes
Date Added: Thu 20th Jun 2019
Last Modified: N/A
QID#: 17,096,382

Correctly answered feedback

When recording the ECG, use of disposable electrodes is the best way to reduce the risk of infection.

Incorrectly answered feedback

When recording the ECG, use of disposable electrodes is the best way to reduce the risk of infection.

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Question 8

Generic Parent » HRVB Tutor

1 pt

Which artifact affects ECG, but not BVP, recordings?

- A. 50/60 Hz
- B. movement artifact
- ✓ C. EMG
- D. radio frequency

Question Type: Multiple Choice
Randomize Answers: Yes
Date Added: Thu 20th Jun 2019
Last Modified: N/A
QID#: 17,096,388

Correctly answered feedback

EMG artifact affects ECG recordings because it can be volume conducted to ECG electrodes.

Incorrectly answered feedback

EMG artifact affects ECG recordings because it can be volume conducted to ECG electrodes.

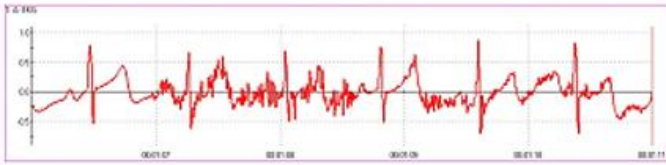
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Question 9

Generic Parent » HRVB Tutor

1 pt



Which artifact does this screen illustrate?

- A. 50/60 Hz
- ✓ B. EMG
- C. electromagnetic interference (EMI)
- D. DC offset

Question Type: Multiple Choice
Randomize Answers: Yes
Date Added: Thu 20th Jun 2019
Last Modified: Wed 17th Jul 2019
QID#: 17,096,439

Correctly answered feedback

This screen illustrates EMG artifact superimposed on the ECG signal. This can cause the software to see extra beats and calculate shorter interbeat intervals.

Incorrectly answered feedback

This screen illustrates EMG artifact superimposed on the ECG signal. This can cause the software to see extra beats and calculate shorter interbeat intervals.

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Question 10

Generic Parent » HRVB Tutor

1 pt

You should be concerned about starting HRV biofeedback training if your patient's ECG indicates

- A. arrhythmias.
- B. ischemia.
- C. prolonged QT intervals.
- ✓ D. any of these abnormalities

Question Type: Multiple Choice
Randomize Answers: Yes
Date Added: Thu 20th Jun 2019
Last Modified: N/A
QID#: 17,098,633

Correctly answered feedback

You should be concerned about starting HRV biofeedback training if your patient's ECG indicates arrhythmias, ischemia, or prolonged QT intervals since these may signal an increased risk of mortality.

Incorrectly answered feedback

You should be concerned about starting HRV biofeedback training if your patient's ECG indicates arrhythmias, ischemia, or prolonged QT intervals since these may signal an increased risk of mortality.

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