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Courses » Mechanics of Human Movement

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Unit 12 - Week 10

Course outline

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Pre-requisite

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Week 10

- Characteristics of Normal Gait Part III
- Pathological Gait Part I
- Pathological Gait Part II
- Week 10 - Lecture Notes

Assignment 10

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment. **Due on 2018-10-10, 23:59 IST.**

1) In persons with "Trendelenburg gait" the following gait deviation is observed: **1 point**

- Hip hiking
- Vaulting
- Lateral trunk bending
- Steppage

No, the answer is incorrect.
Score: 0

Accepted Answers:
Lateral trunk bending

2) A person is fitted with a locked knee orthosis. Which compensatory gait pattern is the person likely to adopt? **1 point**

- Anterior trunk bending
- Steppage
- Hip-hiking
- Circumduction

No, the answer is incorrect.
Score: 0

Accepted Answers:
Hip-hiking
Circumduction

3) The metabolic cost of walking for a person with temporary pathological gait is most likely to _____ compared to his/her own normal walking. **1 point**

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Week 11

Week 12

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Score: 0

Accepted Answers:

Be greater

4) A person has weak hamstring muscles. Which compensatory gait pattern is the person likely to adopt? **1 point**

- Anterior trunk bending
- Steppage
- Hip hiking
- Posterior trunk bending

No, the answer is incorrect.

Score: 0

Accepted Answers:

Hip hiking

5) When do we see a maxima in the ankle joint moment during a normal gait cycle? **1 point**

- Loading Response
- Mid Stance
- Mid Swing
- Terminal Stance

No, the answer is incorrect.

Score: 0

Accepted Answers:

Terminal Stance

6) _____ is a stance phase gait modification. **1 point**

- Circumduction
- Steppage
- Hip hiking
- Vaulting

No, the answer is incorrect.

Score: 0

Accepted Answers:

Vaulting

7) Waddling gait pattern is observed when lateral trunk bending happens in _____ **1 point**

- Right stance leg
- Light stance leg
- Both the stance legs
- Right leg swing phase

No, the answer is incorrect.

Score: 0

Accepted Answers:

Both the stance legs

8) Which of the following are causes of pathological gait in humans? **1 point**

- Spasticity in muscles

- Muscle weakness
- Mild Fever
- Joint deformity

No, the answer is incorrect.

Score: 0

Accepted Answers:

Spasticity in muscles

Muscle weakness

Joint deformity

9) Which of the following muscles are active during terminal swing phase?

1 point

- Hamstrings
- Triceps Surae
- Tibialis Anterior
- Quadriceps

No, the answer is incorrect.

Score: 0

Accepted Answers:

Hamstrings

Tibialis Anterior

Quadriceps

10) Functional leg length discrepancy

1 point

- Is caused only by anatomical leg length discrepancy
- May be due to anatomical leg length discrepancy
- May be due to reasons other than anatomical leg length discrepancy
- Is not connected to anatomical leg length discrepancy

No, the answer is incorrect.

Score: 0

Accepted Answers:

May be due to anatomical leg length discrepancy

May be due to reasons other than anatomical leg length discrepancy

11) Impaired proprioception is due to

1 point

- Sensory issues
- Muscular atrophy
- Muscle spasticity
- Pain

No, the answer is incorrect.

Score: 0

Accepted Answers:

Sensory issues

12) A person walks with anterior trunk bending. What could be the potential causes for such a gait adaptation?

1 point

- Weak knee extensors
- Weak hip extensors

Weak ankle plantarflexors

Hip flexion contracture

No, the answer is incorrect.

Score: 0

Accepted Answers:

Weak knee extensors

Weak hip extensors

Hip flexion contracture

13) Steppage is a gait compensation adopted in case of inadequate

1 point

Dorsiflexion

Plantarflexion

Toe out

Toe in

No, the answer is incorrect.

Score: 0

Accepted Answers:

Dorsiflexion

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