

Understanding Your Exam Results

Orthotic Practitioner Written Exam



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If you received your test results for the Orthotic Written exam only to learn that you did not pass the exam, the following information may help you focus your study for retaking the exam. Your test results notice indicates your score in each Content Domain along with the maximum score in each area. We recommend that you focus your exam study on those Domains where you performed the weakest.

Below, along with a description of each Content Domain, are sample questions to help you determine the types of questions that you may have missed.

Patient Assessment

Take a comprehensive patient history, including previous use of an orthosis/prosthesis, diagnosis, work history, avocational activities, signs and symptoms and medical history. Perform a diagnosis-specific functional clinical examination of sensory function, range of motion, joint stability and skin integrity. Utilize knowledge of anatomy, muscle functions, normal gait parameters, pathologies, related surgical techniques and disease processes to guide assessment. Refer patient to other health care providers for intervention beyond orthotic/prosthetic scope of practice.

The functions of the tibialis posterior muscle are:

1. **Plantar flexion and inversion**
2. Plantar flexion and eversion
3. Dorsiflexion and inversion
4. Dorsiflexion and eversion

The distal aspect of the tibia articulates with the:

1. Calcaneus and fibula
2. Calcaneus and talus
3. **Talus and fibula**
4. Talus and navicular

Anterior compression fractures of the spine involve the:

1. Posterior column
2. **Anterior column**
3. Middle column
4. Anterior and posterior columns

Which of the following has its insertion at the adductor tubercle?

1. Adductor longus
2. Adductor brevis
3. Semitendinosus
4. **Adductor magnus**

At initial contact the body weight line is:

1. Anterior to the ankle and posterior to the knee
2. **Posterior to the ankle and posterior to the knee**
3. Posterior to the ankle and anterior to the knee
4. Anterior to the ankle and anterior to the knee

The congenital abnormality of the spine in which one side of the vertebra is incompletely developed is:

1. **Hemivertebra**
2. Spina bifida
3. Spondylolysis
4. Klippel-Feil syndrome

Formulation of the Treatment Plan

Evaluate the findings to determine an orthotic/prosthetic treatment plan. Consult with physician/referral source/appropriately licensed health care provider to modify, if necessary, the original prescription and/or treatment plan. Identify design, materials and components to support treatment plan, including how the orthosis/prosthesis will address the specific functional needs.

The C-bar on a hand orthosis acts as a:

1. Thumb flexion stop
- 2. Thumb adduction stop**
3. Thumb extension stop
4. Thumb flexion assist

Which of the following ankle joint configurations would be the MOST appropriate for a patient with Fair (2/5) plantar flexion strength and Good (4/5) dorsiflexion strength?

1. Double adjustable with anterior springs/posterior pins
2. Double adjustable with anterior springs/posterior springs
- 3. Double adjustable with anterior pins/posterior springs**
4. Double adjustable with anterior pins/posterior pins

When designing a thermoplastic solid-ankle AFO, trimming the footplate proximal to the metatarsal heads will MOSTLY effect:

- 1. The third rocker**
2. The second rocker
3. The first rocker
4. Midstance

The PRIMARY goal of a corrective scoliosis orthosis in the treatment of moderate adolescent idiopathic scoliosis is:

1. Reduction of pain
- 2. Preventing progression of the curve(s)**
3. Permanent correction of the curve(s)
4. Creation of shoulder and pelvic symmetry

Implementation of the Treatment Plan

Select appropriate materials/techniques in order to obtain a patient model/image. Select appropriate materials and components for orthosis/prosthesis based on patient criteria to ensure optimum strength, durability and function. Complete or delegate fabrication of orthosis/prosthesis including positive mold rectification. Assess/align orthosis/prosthesis for accuracy in sagittal, transverse and coronal planes in order to provide maximum function/comfort. Educate patient and/or caregiver about the use and maintenance of the orthosis/prosthesis. Documentation using established record-keeping techniques to verify implementation of treatment plan.

A patient is experiencing recurrent positional posterior dislocation after hip replacement surgery. The PRIMARY goal of a hip abduction orthosis is to block:

- 1. Hip flexion**
2. Hip extension
3. Hip abduction
4. Hip external rotation

The standard lateral inferior trimline for a single piece anterior opening custom LSO is:

1. 4 cm (1 1/2") superior to the greater trochanter
- 2. 2 cm (3/4") superior to the greater trochanter**
3. 2 cm (3/4") inferior to the greater trochanter
4. At the level of the greater trochanter

When fabricating a thermoplastic articulated AFO, the mechanical ankle joints should be placed at the level of the:

1. Apex of the lateral malleolus
2. Apex of the medial malleolus
- 3. Distal border of the medial malleolus**
4. Distal border of the lateral malleolus

While fitting a ground reaction AFO you observe good control of the patient's knee in the sagittal plane however the patient complains they are having difficulty initiating swing on the side with the orthosis. The MOST appropriate modification to address this would be to:

1. Trim the footplate to end proximal to the metatarsal heads
2. Lower the superior anterior trimlines
3. Reduce the ankle trimlines to bisect the malleoli
- 4. Add a 1/4" heel wedge underneath the AFO**

The main functional goal of posterior off-set unlocked knee joints is to:

1. Control genu recurvatum
2. Control genu varus
- 3. Provide increased stability during stance**
4. Prevent the knee from buckling at initial contact

During the casting of an ambulatory child with cerebral palsy for custom bilateral solid ankle AFOs you note that the right side lacks dorsiflexion range of motion (-5°) with the knee extended. The MOST appropriate way to address this is to:

- 1. Cast in -5° of dorsiflexion and plan to add an external heel wedge**
2. Cast in -5° of dorsiflexion and plan to cut the cast and place it in neutral
3. Cast in neutral with the knee maximally flexed
4. Cast in -5° of dorsiflexion and plan to add a rocker sole on the right shoe

Follow-up Treatment Plan

Obtain feedback from patient and/or caregiver to evaluate outcome (e.g., wear schedule/tolerance, comfort, ability to don and doff, proper usage and function. Assess patient's function and note any changes. Assess fit of orthosis/prosthesis with regard to strategic contact and to anatomical relationships to orthosis/prosthesis to determine need for changes relative to initial treatment goals. Address evidence of excessive skin pressures or lack of corrective forces and formulate plan to modify orthosis/prosthesis accordingly. Revise treatment plan based on assessment of outcomes.

At a follow-up visit for a patient who was fit with bilateral solid ankle AFOs you note redness at the navicular on the right side. What modifications should you make to the AFO?

- 1. Add an ST pad and padding just superior to the medial malleolus**
2. Add an ST pad and padding just superior to the lateral malleolus
3. Add padding to the navicular area
4. Reduce the trimline to below the navicular

A patient with positional plagiocephaly has been wearing a custom cranial remolding orthosis for the past eight months. The patient is now 15 months old and has outgrown the orthosis. The practitioner should expect the physician will:

1. Request that a new orthosis be fabricated
2. Order an x-ray to determine whether the child still needs the orthosis
- 3. Discontinue orthotic treatment since the child's head growth has plateaued**
4. Have the child begin wearing the orthosis only at night

A patient was fit with a pair of custom semi-rigid foot orthoses two weeks ago. They are now complaining of discomfort on the plantar aspect of their feet just proximal to the 1st metatarsal heads. The MOST likely cause of this problem is:

1. Lack of relief for the 1st metatarsal heads
- 2. Lack of relief for the flexor hallucis longus tendons**
3. The modifications of the peroneal arches are too aggressive
4. The base materials are too rigid

You are seeing a patient who has recently relocated to the area. They are currently wearing a Cruciform Anterior Stabilization Hyperextension (CASH) orthosis. The patient states they cannot tolerate the orthosis due to pressure on an ostomy which is located at the midline of their abdomen, superior to their umbilicus. What is the BEST option to address this problem?

1. Inform the patient they need to decrease the tightness of the closure
2. Add padding to the sternal attachment
3. Heat and flare the pubic attachment
- 4. Suggest switching to a Jewett style orthosis**

Practice Management

Adhere to policies and procedures in compliance with all applicable federal and state laws and regulations and professional and ethical guidelines (e.g., CMS, HIPAA, FDA, ADA, OSHA, ABC Code of Professional Responsibility).

After providing a device to a Medicare beneficiary, the practitioner must provide any adjustments or repairs without charge for:

1. **90 days**
2. 60 days
3. 30 days
4. 120 days

Infection control practices used to prevent transmission of diseases that can be acquired by contact with blood, body fluids, non-intact skin and mucous membranes are referred to as:

1. Contact Isolation
2. **Standard Precautions**
3. Sterile Technique
4. Biohazardous Waste Program

The rules relating to the safe use of potentially hazardous materials in the fabrication of orthoses are under the jurisdiction of the:

1. Health Insurance Portability and Accountability Act
2. Durable Medical Equipment Medical Administrative Contractor
3. **Occupational Safety and Health Administration**
4. Centers for Medicare and Medicaid Services

If the practitioner's facility is designated as a Participating Supplier, this means that:

1. **You must accept the Medicare allowable amount as payment in full**
2. You do not have to accept the Medicare allowable amount as payment in full
3. You can only collect 80% of the Medicare allowable amount from the patient
4. There is no limit on what you are allowed to charge a Medicare beneficiary

These sample questions are only examples of the type of test content you will see in the exam. For additional information about how to prepare for the exam, check out the *Preparing for Your ABC Practitioner Exam – Using the Practice Analysis to Your Advantage*. Go to abcop.org to access all of the exam prep resources available.