Clinical Practice Guideline:	Reconstruction of Posterior Tibial Tendon
Date of Implementation:	June 18, 2015
Product:	Specialty
GUIDELINES American Specialty Health – Sr	pecialty (ASH) considers procedures consisting of CPT®
Code 28238 to be medically nec	essary for the reconstruction of the posterior tibial tendon
with excision of accessory tarsa	al navicular bone upon meeting ALL of the following
conditions:	
1. Diagnosis of at least 1 o	f the following conditions with the presence of accessory
navicular bone:	
Ruptured posterior til	bial tendon
Posterior tibial tendor	n dysfunction
Posterior tibial tendor	nitis
• Adult flat foot	
2. Failure of at least 3 of th	e following non-operative treatments with continued pain
 Physical therapy 	
Orthotics/bracing	
 Immobilization 	
Activity modification	
Medications	
Shoe modifications	
CPT® Codes and Descriptions	

Reconstruction (advancement), posterior tibial tende	CPT® Code	CPT® Code Description
with excision of accessory tarsal navicular bone (e.g Kidner type procedure)	28238	Reconstruction (advancement), posterior tibial tendon with excision of accessory tarsal navicular bone (e.g., Kidner type procedure)

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30 BACKGROUND

Accessory bones are common skeletal variations in the human foot and ankle. Accessory naviculars are developmental in nature and originate from a secondary ossification center of the navicular bone. Most accessory bones are asymptomatic, yet a small portion can cause painful symptoms. Symptomatic accessory tarsal navicular is most commonly seen with a type II accessory navicular and is thought to be the result of altered biomechanics, presenting as shoe irritation and pain localizing to the navicular bone. Clinical symptoms may be attributed to tension and repetitive shearing stress at the synchondrosis from the

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posterior tibial tendon, causing disruption of the synchondrosis, posterior tibial tenosynovitis and even osteonecrosis. Imaging may demonstrate degenerative changes at the synchondrosis and navicular tubercle, within the adjacent soft tissues and in the posterior tibial tendon.

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6 Nonsurgical treatment for accessory navicular syndrome includes immobilization, 7 medications, physical therapy, and orthotics. If non-surgical treatment fails to relieve the 8 symptoms of accessory navicular syndrome, surgery may be appropriate. Surgery may 9 involve removing the accessory bone as this extra bone is not needed for normal foot 10 function, reshaping the area, and repairing the posterior tibial tendon to improve its 11 function.

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There are multiple surgical treatment options for symptomatic accessory naviculars described in the literature. They vary from simple excision to excision and rerouting of the posterior tibial tendon under the navicular, excision and restoring the continuity of the posterior tibial tendon, percutaneous drilling, or arthrodesis of the accessory ossicle (Leonard & Fortin, 2010).

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19 The Kidner procedure is the most common surgical treatment for accessory navicular bones 20 that cause pain. This procedure is a surgery to treat a painful accessory navicular through

reconstruction of the posterior tibial tendon with excision of the accessory navicular bone.

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Additionally, for the correction of symptomatic flexible flatfeet with minimal deformity, 23 24 adjunctive soft tissue procedures can be considered. This may include the Kidner posterior tibial tendon advancement soft tissue procedure (Lee et al., 2005; Tao et al., 2019). 25 Posterior tibial tendon dysfunction is the most common cause of the adult acquired flatfoot. 26 27 Dysfunction of the posterior tibial tendon is typically a progressive, unilateral condition caused by pathologic changes within the tendon. The deformity is usually progressive and 28 results in a flexible to rigid flatfoot, depending on the stage of the condition. Giorgini et al. 29 (2010) carried out a review of the literature to determine the efficacy of the modified 30 Kidner-Cobb procedure for symptomatic pes planovalgus or Mueller stage II posterior 31 tibial tendon dysfunction (50 feet in 39 patients). All patients visually demonstrated 32 33 postoperative elevation of the medial longitudinal arch height. The results of this review indicated that the modified Kidner-Cobb procedure is a useful treatment option for patients 34 35 with symptomatic flexible flatfoot with stage II posterior tibial tendon dysfunction.

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37 **PRACTITIONER SCOPE AND TRAINING**

Practitioners should practice only in the areas in which they are competent based on their education, training, and experience. Levels of education, experience, and proficiency may

40 vary among individual practitioners. It is ethically and legally incumbent on a practitioner

to determine where they have the knowledge and skills necessary to perform such services

42 and whether the services are within their scope of practice.

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It is best practice for the practitioner to appropriately render services to a member only if 1 they are trained, equally skilled, and adequately competent to deliver a service compared 2 to others trained to perform the same procedure. If the service would be most competently 3 delivered by another health care practitioner who has more skill and training, it would be 4 best practice to refer the member to the more expert practitioner. 5 6 Best practice can be defined as a clinical, scientific, or professional technique, method, or 7 process that is typically evidence-based and consensus driven and is recognized by a 8 majority of professionals in a particular field as more effective at delivering a particular 9 outcome than any other practice (Joint Commission International Accreditation Standards 10 11 for Hospitals, 2020). 12 Depending on the practitioner's scope of practice, training, and experience, a member's 13 condition and/or symptoms during examination or the course of treatment may indicate the 14 need for referral to another practitioner or even emergency care. In such cases it is prudent 15 for the practitioner to refer the member for appropriate co-management (e.g., to their 16 primary care physician) or if immediate emergency care is warranted, to contact 911 as 17 appropriate. See the *Managing Medical Emergencies* (CPG 159 - S) clinical practice 18 guideline for information. 19 20 21 **References** American College of Foot and Ankle Surgeons (ACFAS) Cosmetic Surgery Position 22 Statement (2020). Retrieved February 12, 2024 from: https://www.acfas.org/policy-23 advocacy/policy-position-statements/acfas-position-statement-on-cosmetic-surgery 24 25 American Medical Association. (current year). Current Procedural Terminology (CPT) 26 27 Current year (rev. ed.). Chicago: AMA 28 Giorgini, R., Giorgini, T., Calderaro, M., Japour, C., Cortes, J., & Kim, D. (2010). The 29 modified Kidner-Cobb procedure for symptomatic flexible pes planovalgus and 30 posterior tibial tendon dysfunction stage II: review of 50 feet in 39 patients. The Journal 31 of Foot and Ankle Surgery, 49(5), 411-416. doi: 10.1053/j.jfas.2010.06.012 32 33 Gluck, G. S., Heckman, D. S., & Parekh, S. G. (2010). Tendon Disorders of the Foot and 34 Ankle, Part 3: The Posterior Tibial Tendon. The American Journal of Sports Medicine, 35 36 *38*(10), 2133-2144. doi: 10.1177/0363546509359492 37 Hintermann, B., & Knupp, M. (2010). [Injuries and dysfunction of the posterior tibial 38 39 tendon]. Orthopade, 39(12), 1148-1157. doi: 10.1007/s00132-010-1692-3 40 41 Joint Commission International. (2020). Joint Commission International Accreditation 42

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