Date of Implementation:       October 15, 2015         Product:       Specialty         GUIDELINES       American Specialty Health – Specialty (ASH) considers services consisting of CPT Cod 28313 to be medically necessary for soft tissue reconstruction of angular toe deformit upon meeting ALL of the following criteria:         1.       When supported by 1 or more of the following diagnoses:         •       Other hammer toe (acquired) (M20.40 - M20.42)         •       Other deformities of toe(s) acquired [e.g., claw toe, crossover toe, floatin toe (moderate to severe), etc. (M20.5X1 - M20.5X9)         •       Acquired deformity of toe(s), unspecified (M20.60 - M20.62)         2.       Failure of at least 2 of the following non-operative treatments         •       Physical therapy         •       Orthotics         •       Shoe modification         •       Toe splints or pads         •       Anti-inflammatory medicines         •       Injections         •       Rest/immobilization	Clinical Practice Guideline:	Soft Tissue Reconstruction of Angular Toe Deformity
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<ul> <li>Injections</li> <li>Rest/immobilization</li> </ul>	GUIDELINES American Specialty Health – Spec 28313 to be medically necessary upon meeting ALL of the follow 1. When supported by 1 or m • Other hammer too of • Other deformities of toe (moderate to se • Acquired deformity 2. Failure of at least 2 of the • Physical therapy • Orthotics • Shoe modification • Toe splints or pads • Anti-inflammatory	cialty (ASH) considers services consisting of CPT Code for soft tissue reconstruction of angular toe deformity <b>ing criteria:</b> <b>nore of the following diagnoses:</b> (acquired) (M20.40 - M20.42) of toe(s) acquired [e.g., claw toe, crossover toe, floating evere), etc. (M20.5X1 - M20.5X9) y of toe(s), unspecified (M20.60 - M20.62) <b>following</b> non-operative treatments medicines
5. Persistent pair and dysfunction	<ul> <li>Injections</li> <li>Rest/immobilizatio</li> <li>3. Persistent pain and dysfund</li> </ul>	on ction

## 30 BACKGROUND

CPT code 28313 describes reconstructive, soft tissue correction of toe angular deformity conducted by release of soft tissues, and possibly to include tendon transfers.

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Hammertoes, claw toes, and mallet toes are common lesser toe deformities that are often painful, and limit function and shoe wear selection. Hammertoe deformity primarily comprises flexion contracture/deformity of the proximal interphalangeal (PIP) joint of the toe, with hyperextension of the metatarsophalangeal (MTP) and distal interphalangeal (DIP) joints. It is often combined with a hallux valgus deformity. Claw toe is defined by

**CPG 251 Revision 8 – S** Soft Tissue Reconstruction of Angular Toe Deformity **Revised – August 17, 2023** To CQT for review 07/10/2023 CQT reviewed 07/10/2023 To QIC for review and approval 08/01/2023 QIC reviewed and approved 08/01/2023 To QOC for review and approval 08/17/2023 QOC reviewed and approved 08/17/2023 Page 1 of 5

flexion of both the PIP and DIP joints and hyperextension of the MTP joint, resembling a claw. Claw toe represents an imbalance between the intrinsic and extrinsic muscle units controlling the positioning of the toe. Mallet toe is defined by a flexion deformity at the distal interphalangeal (DIP) joint. The proximal interphalangeal (PIP) joint and the MTP joints are in a neutral position.

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There also are separate and distinct digital deformities involving the second toe and fifth toe. When an extension contracture is combined with medial deviation (subluxation) at the level of the second MPJ, a "crossover" second toe deformity results. This deformity often is combined with a hallux valgus deformity. Adduction or abduction digital deformities may involve all lesser MTP joints or, in some cases, divergent digital contractures are seen. Fifth toe pathology may include deformity in multiple planes (adductovarus deformity), or significant overlap of the fifth toe over the fourth toe may be seen.

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A floating toe is a potential complication of lesser metatarsal and digital surgery. it can be defined as the inability to flex the MTP joint, causing dorsiflexion deformity. The lack of plantarflexion power may be present for a multitude of reasons and represents a functional imbalance of the forefoot.

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20 A significant population of patients respond to conservative treatment for digital deformities. Conservative care is the first line of treatment for foot and toe deformity. 21 Among the various nonsurgical treatment options, orthotic devices or shoe insole 22 modifications using a metatarsal pad may offer relief of excessive metatarsal head 23 pressures. Taping to reduce and splint flexible deformities may be performed, especially 24 for a reducible MTPJ subluxation associated with plantar plate tears in early crossover 25 second toe deformity. Additionally, footwear changes such as a wider shoe with a larger 26 toe box region may be used to accommodate the deformity by decreasing shoe pressure 27 and preventing progression of the deformity (Malhotra et al., 2016). However, surgery is 28 recommended when non-operative care does not relieve pain and/or restore function. 29

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The objective of treatment is realignment of the toe in the least invasive manner possible, 31 specific to the needs of the patient. After careful physical examination to differentiate the 32 deformity, the degree and flexibility of the deformity along with any associated pathology 33 determine the surgical procedure(s) to be performed. If the MTP joint is dislocated, a 34 metatarsal osteotomy may be needed to allow appropriate correction of the proximal 35 phalanx position. Extension of the MTP joint might be corrected with tendon release or 36 tendon transfer, or even adding proximal phalanx osteotomy. PIP joint flexion can be 37 realigned using procedures ranging from plantar capsular release to resectional 38 arthroplasties. Localization, type of deformity, reducibility, and cause should be evaluated 39 to determine operative procedure (Frey-Ollivier et al., 2018). 40

Surgical treatment of multiplanar (varus and dorsal angulation) second toe deformities due 1 to degenerative instability can lead to recurrence, stiffness, and pain. Ellis et al. (2013) 2 carried out a retrospective study to evaluate the short-term outcomes associated with using 3 an extensor digitorum brevis (EDB) tendon reconstruction to correct deviation of the 4 second MTP joint (N=10 patients, 11 toes). The technique was indicated when MTP and 5 medial partial plantar plate release alone were not sufficient to correct multiplanar 6 deformity. Radiographic parameters (AP and lateral metatarsal-proximal phalanx angles), 7 physical exam (MTP joint range of motion), and subjective outcomes (the Foot and Ankle 8 Outcome Score [FAOS]) were assessed. Preoperatively, the average MTP joint angle was 9 4.5 degrees in the varus direction, which changed to 14.2 degrees in the valgus direction 10 11 postoperatively. On exam, the average MTP joint range of motion was  $60.9 \pm 11.6$  degrees dorsiflexion and  $11.1 \pm 2.5$  degrees plantarflexion. Postoperative FAOS scores 12 demonstrated an average of  $89.9 \pm 9.8$  for the symptoms domain. In all, 9 of 11 patients 13 were either highly satisfied or moderately satisfied (none dissatisfied). The EDB tendon 14 reconstruction technique, when performed in conjunction with collateral ligament and 15 partial plantar plate release provided significant deformity correction within this sample. 16

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## 18 **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 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 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 they are trained, equally skilled, and adequately competent to deliver a service compared to others trained to perform the same procedure. If the service would be most competently delivered by another health care practitioner who has more skill and training, it would be best practice to refer the member to the more expert practitioner.

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Best practice can be defined as a clinical, scientific, or professional technique, method, or process that is typically evidence-based and consensus driven and is recognized by a majority of professionals in a particular field as more effective at delivering a particular outcome than any other practice (Joint Commission International Accreditation Standards for Hospitals, 2020).

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Depending on the practitioner's scope of practice, training, and experience, a member's condition and/or symptoms during examination or the course of treatment may indicate the need for referral to another practitioner or even emergency care. In such cases it is prudent for the practitioner to refer the member for appropriate co-management (e.g., to their primary care physician) or if immediate emergency care is warranted, to contact 911 as

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appropriate. See the *Managing Medical Emergencies* (CPG 159 - S) clinical practice 1 guideline for information. 2 3 **References** 4 American College of Foot and Ankle Surgeons (ACFAS) Cosmetic surgery position 5 statement (2020). Retrieved on May 26, 2023 from: https://www.acfas.org/policy-6 advocacy/policy-position-statements/acfas-position-statement-on-cosmetic-surgery 7 8 American Medical Association. (current year). Current Procedural Terminology (CPT) 9 Current year (rev. ed.). Chicago: AMA 10 11 American Medical Association. (current year). ICD-10-CM. American Medical 12 Association 13 14 Campbell, J. H., & Myerson, M. S. (2011). Current Management of Lesser Toe 15 Deformities, An Issue of Foot and Ankle Clinics: Elsevier Health Sciences 16 17 Chadwick, C., & Saxby, T. S. (2011). Hammertoes/Clawtoes: metatarsophalangeal joint 18 correction. Foot and Ankle Clinics, 16(4), 559-571. doi: 10.1016/j.fcl.2011.08.006 19 20 Clinical Practice Guideline Forefoot Disorders Panel, Thomas, J. L., Blitch, E. L. 4th, 21 Chaney, D. M., Dinucci, K. A., Eickmeier, K., Rubin, L. G., Stapp, M. D., & Vanore, 22 J. V. (2009). Diagnosis and treatment of forefoot disorders. Section 1: digital 23 deformities. The Journal of Foot and Ankle Surgery, 48(2), 230-238. doi: 24 10.1053/j.jfas.2008.12.003 25 26 27 DiPreta, J. A. (2014). Metatarsalgia, Lesser Toe Deformities, and Associated Disorders of the Forefoot. The Medical Clinics of North America, 98(2), 233-251. doi: 28 10.1016/j.mcna.2013.10.003 29 30 Easley, M. E., & Wiesel, S. W. (2011). Operative Techniques in Foot and Ankle Surgery: 31 Wolters Kluwer Health/Lippincott Williams & Wilkins 32 33 Ellis, S. J., Young, E., Endo, Y., Do, H., & Deland, J. T. (2013). Correction of multiplanar 34 deformity of the second toe with metatarsophalangeal release and extensor brevis 35 reconstruction. Foot Å Ankle International. 34(6), 792-799. doi: 36 37 10.1177/1071100713475433 38 39 Frey-Ollivier, S., Catena, F., Hélix-Giordanino, M., & Piclet-Legré, B. (2018). Treatment of Flexible Lesser Toe Deformities. Foot and ankle clinics, 23(1), 69-90 40

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