1	Clinical Practice Guideline:	Partial Excision of Foot or Ankle Bone
2 3	Date of Implementation:	May 21, 2015
4 5	Product:	Specialty
6 7		

GUIDELINES

A. American Specialty Health – Specialty (ASH) does not require prior authorization for
 procedures consisting of CPT® Code 28120 and CPT® Code 28122 if they are used
 for the treatment of the following conditions:

11 12

13

8

ICD-10 Codes and Descriptions That Support Medical Necessity

ICD-10 Code	ICD-10 Code Description
M86.071 - M86.079	Acute hematogenous osteomyelitis, ankle and foot
M86.171 - M86.179	Other acute osteomyelitis, ankle and foot
M86.271 - M86.279	Subacute osteomyelitis, ankle and foot
M86.371 - M86.379	Chronic multifocal osteomyelitis, ankle and foot
M86.471 - M86.479	Chronic osteomyelitis with draining sinus, ankle and foot
M86.571 - M86.579	Other chronic hematogenous osteomyelitis, ankle and foot
M86.671 - M86.679	Other chronic osteomyelitis, ankle and foot
M86.8X7	Other osteomyelitis, ankle and foot
M86.9	Osteomyelitis, unspecified
M90.871 - M90.879	Osteopathy in diseases classified elsewhere, ankle and foot

B. ASH does not require prior authorization for procedures consisting of **CPT®** Codes

2 28124 and 28126 if they are used for the treatment of the following conditions:

3 4

ICD-10 Codes and Descriptions That Support Medical Necessity

ICD-10 Code	ICD-10 Code Description
M86.071 - M86.079	Acute hematogenous osteomyelitis, ankle and foot
M86.171 - M86.179	Other acute osteomyelitis, ankle and foot
M86.271 - M86.279	Subacute osteomyelitis, ankle and foot
M86.371 - M86.379	Chronic multifocal osteomyelitis, ankle and foot
M86.471 - M86.479	Chronic osteomyelitis with draining sinus, ankle and foot
M86.571 - M86.579	Other chronic hematogenous osteomyelitis, ankle and foot
M86.671 - M86.679	Other chronic osteomyelitis, ankle and foot
M86.8X7	Other osteomyelitis, ankle and foot
M86.9	Osteomyelitis, unspecified
M90.871 - M90.879	Osteopathy in diseases classified elsewhere, ankle and foot

5

8

10

11

13

14

For the diagnoses listed in the table below, medical necessity approval is contingent upon
 having tried and failed at least 3 of the following interventions:

- Immobilization,
- 9 Rest
 - Use of nonsteroidal anti-inflammatory drugs (NSAIDs),
 - Modifying footwear,
- Orthotics, and/or
 - Physical therapy
 - Padding.

ICD-10 Codes and Descriptions That Support Medical Necessity with Contingency 1

ICD-10 Code	ICD-10 Code Description
M20.40 - M20.42	Other hammer toe(s) (acquired)
M20.5X1 - M20.5X9	Other deformities of toe(s) (acquired)
M20.60 - M20.62	Acquired deformities of toe(s), unspecified,

2 3

CPT® Codes and Descriptions

CPT® Code	CPT® Code Description
28120	Partial excision (craterization, saucerization, sequestrectomy, or diaphysectomy) bone (e.g., osteomyelitis or bossing); talus or calcaneus
28122	Partial excision (craterization, saucerization, sequestrectomy, or diaphysectomy) bone (e.g., osteomyelitis or bossing); tarsal or metatarsal bone, except talus or calcaneus
28124	Partial excision (craterization, saucerization, sequestrectomy, or diaphysectomy) bone (e.g., osteomyelitis or bossing) phalanx of toe
28126	Resection, partial or complete, phalangeal base, each toe

4

BACKGROUND 5

CPT® codes 28120-28124 refer to partial excision of bone of the talus, calcaneus, tarsal, 6 metatarsal or phalanges. These codes describe some specific types of excisions such as 7 craterization or saucerization (excavation of tissue to form a shallow depression, performed 8 9 in wound treatment to facilitate drainage from infected areas), sequestrectomy (a piece of necrotic bone that is surgical removed) or diaphysectomy (partial or complete removal of 10 the shaft of a long bone). **CPT**[®] code 28126 refers to a complete resection of the base of 11 the phalange and is similar to CPT® code 28124 from a medical necessity standpoint but 12 is a more invasive procedure. 13

14

Osteomyelitis 15

Infections of the foot are a common source of morbidity, disability, and potential limb loss. 16 However, appropriate diagnosis and treatment of foot infections can be challenging. The 17 thin, soft tissue envelope, the limited muscular attachments and occasionally the poor 18 vascular perfusion from high energy trauma, diabetes, smoking, or peripheral vascular 19 disease makes the ankle and the foot more vulnerable to infection after open wounds or 20 ankle/foot surgery (Malizos et al., 2010). Direct blunt trauma or open wounds of the distal 21 Page 3 of 8

CPG 193 Revision 9 - S Partial Excision of Foot or Ankle Bone Revised – April 18, 2024 To CQT for review 03/11/2024 CQT reviewed 03/11/2024 To QIC for review and approval 04/02/2024 QIC reviewed and approved 04/02/2024 To QOC for review and approval 04/18/2024 QOC reviewed and approved 04/18/2024

1 tibia, the ankle joint and the foot may frequently lead to tissue loss and subsequent bacterial

2 colonization. Resistant microorganisms can further complicate the problem, particularly in

- 3 systemically compromised hosts.
- 4

Successful treatment is dependent on factors such as etiology; vascular, neurologic, and 5 immune status; and the identity of the invading organism. Wide surgical debridement, 6 skeletal stabilization and administration of antibiotics selected after pathogen susceptibility 7 tests, supplemented by local antibiotic delivery in high dosage are the main steps to 8 eradicate sepsis. However, the reconstruction of the resulting skeletal and soft tissue 9 defects is often complex. In contrast to the more proximal segments of the leg, the 10 11 availability of soft tissue for the coverage of full thickness defects with local or regional flaps is limited. Reconstruction of skeletal defects can be accomplished with bone grafting. 12 However, large defects require complex reconstructive procedures, such as distraction 13 osteogenesis, vascularized bone grafting or transfer of free flaps. 14

15

Toe or ray amputations, and more extensive amputative procedures in cases of diffuse osteomyelitis, can be a limb and life-saving procedure in a certain group of frail patients. Osteomyelitis is best managed by a multidisciplinary team of appropriately qualified specialists. It requires accurate diagnosis and optimization of host defenses, appropriate anti-infective therapy, and often bone debridement and reconstructive surgery (Rao et al., 2011).

22

Foot infections are a common and serious problem in persons with diabetes. Diabetic foot 23 infections (DFIs) typically begin in a wound, most often a neuropathic ulceration. Empiric 24 antibiotic therapy can be narrowly targeted at aerobic gram-positive cocci in many acutely 25 infected patients, but those at risk for infection with antibiotic-resistant organisms or with 26 chronic, previously treated, or severe infections usually require broader spectrum 27 regimens. Osteomyelitis occurs in many diabetic patients with a foot wound and can be 28 difficult to diagnose (optimally defined by bone culture and histology) and treat (often 29 requiring surgical debridement or resection, and/or prolonged antibiotic therapy). Lipsky 30 et al. (2020) released a clinical guideline outlining recommended care for diabetic patients 31 with osteomyelitis based on a review of the leading clinical evidence and expert consensus. 32 33 The authors recommended treatment with antibiotic therapy without surgical resection of bone in a patient with diabetes and uncomplicated forefoot osteomyelitis, for whom there 34 is no other indication for surgical treatment. However, urgent evaluation of the need for 35 surgery as well as intensive post-operative medical and surgical follow-up was 36 recommended for patients with probable diabetic foot osteomyelitis with concomitant soft 37 tissue infection. 38

1 **Exostosis**

2 An exostosis can be defined as a cartilage-capped bony projection on external surface of a

- 3 bone (with marrow cavity) continuous with underlying bone.
- 4

5 A subungual exostosis is an osteocartilaginous, benign bone tumor that affects the distal phalanges of the toes and may be associated with multiple hereditary exostoses. The 6 pathogenesis of the subungual exostosis is unclear, although trauma, infection, tumor, 7 hereditary abnormality, or activation of a cartilaginous cyst have been suggested as 8 possible etiologies for this condition. The most common presentation is that of several 9 months of pain, erythema, and deformity of the nail bed. Conservative care consists of the 10 11 use of high-box shoes and podiatric care. However, surgical intervention, when performed correctly, is the most appropriate treatment for these deformities (Garcia Carmona et al., 12 2009). 13

13

15 **Toe Deformities**

16 Lesser toe deformities are caused by alterations in normal anatomy that create an imbalance 17 between the intrinsic and extrinsic muscles. Causes include improper shoe wear, trauma, 18 genetics, inflammatory arthritis, and neuromuscular and metabolic diseases. Typical 19 deformities include mallet toe, hammer toe, claw toe, curly toe, and crossover toe. 20 Nonsurgical management focuses on relieving pressure and correcting deformity with 21 various appliances. Surgical management is reserved for patients who fail nonsurgical 22 treatment (DiPreta, 2014).

23

24 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.

30

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.

36

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).

CPG 193 Revision 9 – S Partial Excision of Foot or Ankle Bone **Revised – April 18, 2024** To CQT for review 03/11/2024 CQT reviewed 03/11/2024 To QIC for review and approval 04/02/2024 QIC reviewed and approved 04/02/2024 To QOC for review and approval 04/18/2024 QOC reviewed and approved 04/18/2024 Page 5 of 8

Depending on the practitioner's scope of practice, training, and experience, a member's 1 condition and/or symptoms during examination or the course of treatment may indicate the 2 need for referral to another practitioner or even emergency care. In such cases it is prudent 3 for the practitioner to refer the member for appropriate co-management (e.g., to their 4 primary care physician) or if immediate emergency care is warranted, to contact 911 as 5 appropriate. See the Managing Medical Emergencies (CPG 159 - S) clinical practice 6 guideline for information. 7 8 References 9 American Medical Association. (current year). Current Procedural Terminology (CPT) 10 11 Current year (rev. ed.). Chicago: AMA 12 American Medical Association. (current year). ICD-10-CM. American Medical 13 14 Association 15 Bariteau, J. T., Blankenhorn, B. D., Tofte, J. N., & DiGiovanni, C. W. (2013). What is the 16 Role and Limit of Calcaneal Osteotomy in the Cavovarus Foot? Foot and Ankle Clinics, 17 18(4), 697-714. doi: http://dx.doi.org/10.1016/j.fcl.2013.08.001 18 19 20 Bauer, T. (2014). Percutaneous forefoot surgery. Orthopaedics & Traumatology: Surgery & Research, 100(1), S191-S204 21 22 Chadwick, C., & Saxby, T. S. (2011). Hammertoes/Clawtoes: metatarsophalangeal joint 23 correction. Foot and Ankle Clinics, 16(4), 559-571. doi: 10.1016/j.fcl.2011.08.006 24 25 DaCambra, M. P., Gupta, S. K., & Ferri-de-Barros, F. (2014). Subungual exostosis of the 26 toes: a systematic review. Clinical Orthopedics and Related Research, 472(4), 1251-27 1259. doi: 10.1007/s11999-013-3345-4 28 29 DiPreta, J. A. (2014). Metatarsalgia, Lesser Toe Deformities, and Associated Disorders of 30 the Forefoot. The Medical Clinics of North America, 98(2), 233-251. doi: 31 10.1016/j.mcna.2013.10.003 32 33 Donegan, R., Sumpio, B., & Blume, P. A. (2013). Charcot foot and ankle with 34 osteomyelitis. Diabet Foot & Ankle, 4. doi: 10.3402/dfa.v4i0.21361 35 36 37 García Carmona, F. J., Pascual Huerta, J., & Fernández Morato, D. (2009). A proposed subungual exostosis clinical classification and treatment plan. Journal of the American 38 39 Podiatric Medical Association, 99(6), 519-524

Page 6 of 8

1 2 3 4	 Garg, R., Thordarson, D. B., Schrumpf, M., & Castaneda, D. (2008). Sliding oblique versus segmental resection osteotomies for lesser metatarsophalangeal joint pathology. <i>Foot & Ankle International</i>, 29(10), 1009-1014. doi: 10.3113/fai.2008.1009
- 5 6 7	Giannoudis, P. V. (2011). Practical Procedures in Elective Orthopaedic Surgery: Pelvis and Lower Extremity: Springer
8 9	Joint Commission International. (2020). Joint Commission International Accreditation Standards for Hospitals (7th ed.): Joint Commission Resources
10 11 12 13 14 15 16	Lipsky, B. A., Senneville, É., Abbas, Z. G., Aragón-Sánchez, J., Diggle, M., Embil, J. M., & International Working Group on the Diabetic Foot (IWGDF) (2020). Guidelines on the diagnosis and treatment of foot infection in persons with diabetes (IWGDF 2019 update). <i>Diabetes/metabolism research and reviews</i> , <i>36</i> Suppl 1, e3280. https://doi.org/10.1002/dmrr.3280
17 18 19 20	Louwerens, J., & Schrier, J. C. M. (2014). Lesser Toe Deformities. In G. Bentley (Ed.), <i>European Surgical Orthopaedics and Traumatology</i> (pp. 3469-3501): Springer Berlin Heidelberg
20 21 22 23	Malhotra, R., Chan, C. S., & Nather, A. (2014). Osteomyelitis in the diabetic foot. <i>Diabetic Foot & Ankle, 5</i> . doi: 10.3402/dfa.v5.24445
23 24 25 26 27	Malizos, K. N., Gougoulias, N. E., Dailiana, Z. H., Varitimidis, S., Bargiotas, K. A., & Paridis, D. (2010). Ankle and foot osteomyelitis: Treatment protocol and clinical results. <i>Injury</i> , 41(3), 285-293. doi: http://dx.doi.org/10.1016/j.injury.2009.09.010
28 29 30	Marx, R. C., & Mizel, M. S. (2010). What's new in foot and ankle surgery. <i>The Journal of Bone & Joint Surgery, American Volume</i> , 92(2), 512-523. doi: 10.2106/jbjs.i.01502
31 32 33 34	Ng, J. MS., Ip, FK., Wan, SH., Wong, TC., & Chan, SY. (2014). Exostosis of the Foot: Clinical Features and Outcome After Surgery. <i>Journal of Orthopaedics, Trauma and Rehabilitation, 18</i> (2), 101-105. doi: http://dx.doi.org/10.1016/j.jotr.2013.12.010
35 36 37	Ortiz, C., Wagner, E., & Keller, A. (2009). Cavovarus Foot Reconstruction. <i>Foot and Ankle Clinics</i> , <i>14</i> (3), 471-487. doi: http://dx.doi.org/10.1016/j.fcl.2009.03.006
38 39	Powlson, A. S., & Coll, A. P. (2010). The treatment of diabetic foot infections. <i>The Journal of Antimicrobial Chemotherapy</i> , 65 Suppl 3, iii3-9. doi: 10.1093/jac/dkq299

1 2 3	Rao, N., Ziran, B. H., & Lipsky, B. A. (2011). Treating osteomyelitis: antibiotics and surgery. <i>Plastic and Reconstructive Surgery</i> , 127 Suppl 1, 177S-187S. doi: 10.1097/PRS.0b013e3182001f0f
4	
5	Ryckx, A., Somers, J. F., & Allaert, L. (2013). Hereditary Multiple Exostosis. Acta
6	Orthopaedica Belgica, 79(6), 597-607
7	
8	Sagray, B. A., Malhotra, S., & Steinberg, J. S. (2014). Current therapies for diabetic foot
9	infections and osteomyelitis. <i>Clinics in Podiatric Medicine and Surgery</i> , 31(1), 57-70.
10	doi: 10.1016/j.cpm.2013.09.003
11	
12	Simon, A. (2012). Surgical Treatment of Hammer Toe, Claw Toe, and Mallet Toe
13	Deformity. International Advances in Foot and Ankle Surgery, 107-123
14	
15	Vyce, S. D., Addis-Thomas, E., Mathews, E. E., & Perez, S. L. (2010). Painful
16	Prominences of the Heel. <i>Clinics in Podiatric Medicine and Surgery</i> , 27(3), 443-462.
17	doi: http://dx.doi.org/10.1016/j.cpm.2010.04.005