

1 **Clinical Practice Guideline: Repair of Dislocating Peroneal (Fibularis) Tendons**

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3 **Date of Implementation: October 15, 2015**

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5 **Product: Specialty**

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8 **GUIDELINES**

9 American Specialty Health – Specialty (ASH) considers procedures consisting of CPT
10 Codes 27675 and 27676 to be medically necessary for the repair of dislocating peroneal
11 tendons **upon meeting ALL of the following conditions:**

- 12 1. Diagnosis of **at least 1 of the following** conditions:
- 13 ○ Peroneal tendinitis and other enthesopathy of foot (ICD-10 codes M76.70 -
14 M76.72, M77.50 - M77.52)
 - 15 ○ Abscess of tendon sheath or bursa, bursopathies, synovial hypertrophy, and
16 other specified disorders of synovium and tendon of lower leg, ankle and foot,
17 other site and multiple sites (ICD-10 codes M65.061 - M65.079, M65.08,
18 M67.261 - M67.279, M67.28 - M67.29, M67.871 - M67.879, M67.88 -
19 M67.89, M71.071 - M71.079, M71.08 - M71.09, M71.80, M71.871 - M71.879,
20 M71.88 - M71.89)
 - 21 ○ Bursopathy and unspecified disorder of synovium and tendon of lower leg,
22 ankle and foot, other, and multiple sites (ICD-10 codes, M67.961 - M67.979,
23 M67.98 - M67.99, M71.9)
- 24 2. Lateral ankle pain, swelling and ecchymosis for at least 6 months
- 25 3. Posterior tenderness along the peroneal tendons
- 26 4. Pain and weakness with active ankle dorsiflexion and external rotation
- 27 5. Lateral tenderness, no medial tenderness
- 28 6. Ankle Circumduction Test: positive
- 29 7. Failure of **at least 2 of the following** non-operative treatments:
- 30 ○ Physical therapy
 - 31 ○ Orthotics/bracing
 - 32 ○ Immobilization
 - 33 ○ Activity modification
 - 34 ○ Exercise program
 - 35 ○ Shoe modifications

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37 **CPT CODES AND DESCRIPTIONS**

CPT® Code	CPT® Code Description
27675	Repair, dislocating peroneal tendons; without fibular osteotomy
27676	Repair, dislocating peroneal tendons; with fibular osteotomy

BACKGROUND

CPT code 27675 describes procedures for the repair of dislocating peroneal tendons. For peroneal tendon repair using fibular osteotomy procedures to deepen the peroneal groove, report CPT code 27676.

Peroneal tendon dislocation or subluxation from the retrofibular groove is a rare cause of ankle pain and disability. Subluxation of the peroneal tendons involves disruption of the superior peroneal retinaculum, typically occurring with avulsion of the retinaculum from its fibular insertion. The most common mechanism is forceful dorsiflexion of the ankle, hindfoot inversion with contraction of the peroneals causing disruption of the superior peroneal retinaculum. A convex retromalleolar groove and a varus heel are risk factors causing instability, and tendon pathology (Davda et al., 2017)..

The acute injury often remains unrecognized or is misdiagnosed as an ankle sprain. Untreated or undiagnosed acute injury predisposes a patient to chronic peroneal dislocation and/or potential peroneal tendon tear. If diagnosed early, certain acute peroneal dislocations can be manually reduced and held in a reduced position for a 4-6 week period of immobilization. However, peroneal dislocations often require surgery (Davda et al., 2017).

To diagnose a peroneal tendon injury, the foot and ankle surgeon will examine the foot and look for pain, instability, swelling, warmth, and weakness on the outer side of the ankle. Circumduction of the ankle may demonstrate dislocation of the tendons with eversion and dorsiflexion and spontaneous relocation with plantarflexion and inversion. Magnetic resonance imaging (MRI) is useful for preoperative planning as other pathology (peroneus brevis tear, low lying musculotendinous junction, fibular sulcus) may also need to be addressed concomitantly with repair of the subluxation or dislocating tendons (Easley & Wiesel, 2011). MRI is the standard imaging method for evaluating tendon disorders. It provides detailed multiplanar imaging without ionizing radiation, and its excellent soft-tissue contrast allows superior visualization of peroneal tenosynovitis and midsubstance or subtle longitudinal tears, grading of injuries of the superior peroneal retinaculum, diagnosis of ligamentous disorders, and determination of the morphology of the retromalleolar groove (Heckman et al., 2008).

The primary indication for treating these disorders is pain. Nonsurgical treatment is currently the first line of treatment for peroneal tendon dislocation and subluxation. Nonsurgical treatment options include immobilization, medications, physical therapy, and bracing. Conservative treatment may render recurrent instability in patients. Some researchers advocate for early surgical intervention for cases of acute peroneal tendon instability when considering the high rate of failure within the young, active patient population (Bahad & Kene, 2020). Failure of conservative measures is an indication for operative intervention. Operative treatment is frequently required for chronic peroneal

1 tendon dislocation. Surgical options consist of rerouting of tendons, soft tissue repairs and
2 reconstruction of the retinaculum, and bony procedures to deepen the peroneal groove
3 (Heckman et al., 2008).

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5 Operative treatment for peroneal subluxation typically consists of anatomic repair or
6 reconstruction of the superior peroneal retinaculum with or without deepening of the
7 retromalleolar groove. Cho et al. (2014) carried out a prospective study to compare the
8 operative outcome between retinaculum repair with and without fibular groove deepening
9 for the treatment of recurrent traumatic peroneal tendon dislocation in young, active
10 patients (N=29). Thirteen patients were treated by the superior peroneal retinaculum repair
11 with fibular groove deepening (group A) and 16 patients by superior peroneal retinaculum
12 repair alone (group B) and outcomes were evaluated with the American Orthopaedic Foot
13 and Ankle Society (AOFAS) ankle-hindfoot score, visual analog scale (VAS) score for
14 pain, and overall patient satisfaction measures with a minimum follow-up period of 12
15 months postoperatively. The mean AOFAS score improved significantly from 59.3 points
16 preoperatively to 92.2 points at the final follow-up in group A and from 58.5 points
17 preoperatively to 91.3 points at the final follow-up in group B. Mean VAS score also
18 improved significantly from 5.0 points preoperatively to 1.0 points at the final follow-up
19 in group A and from 4.9 points preoperatively to 1.2 points at the final follow-up in group
20 B. Improvements in AOFAS and VAS scores at the final follow-up were not significantly
21 different between the 2 groups. The authors concluded that isolated retinaculum repair,
22 when compared with retinaculum repair with fibular groove deepening, was a faster and
23 simpler technique, but both techniques had good outcomes for the treatment of recurrent
24 traumatic peroneal tendon dislocation.

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26 Several studies evaluate the results of surgical treatment of peroneal retinaculum in athletic
27 populations. The Ankle and Foot Associates (ESSKA-AFAS) of the European Society of
28 Sports traumatology, Knee Surgery and Arthroscopy (ESSKA) conducted a systematic
29 review of peroneal tendon injuries in the active population and released a consensus
30 statement on the optimal management of peroneal tendon pathologies (van Dijk et al.,
31 2018). The ESSKA-AFAS concluded that treatment of peroneal tendon dislocation should
32 be based on whether it is an acute or chronic injury and whether the patient is an athlete.
33 The panel further concluded that the non-athlete with an acute dislocation may be offered
34 conservative management but should be warned that there is a 50% chance of recurrent
35 dislocation. In case of unsuccessful conservative management or chronic instability,
36 surgical intervention is advised. Surgery in non-athletes with acute peroneal instability
37 consists of reduction of the tendons into the retrofibular groove and repair of the SPR.
38 Surgery is recommended for elite athletes having sustained either acute or chronic
39 dislocation. There was agreement that surgical treatment in athletes should routinely
40 include groove deepening, regardless of other possible treatments.

1 In a study of isolated subluxation repair, subluxation repair plus peroneus brevis tendon
2 repair, or subluxation repair plus lateral ankle stabilization, Saxena & Ewen (2010)
3 measured the AOFAS score and average time to return to activity of athletic patients with
4 symptomatic subluxating peroneal tendons ($N=31$). As a group, the average time to return
5 to activity was 3.2 +/- 0.8 months with a postoperative AOFAS score of 97.0 +/- 5.3.
6 Patients with tendon tears were older in age ($P < .01$) and took longer to return to activity
7 than the rest of the cohort ($P = .02$). There were a total of 4 patients with postoperative
8 complications, although all were able to return to sports. The patients with peroneal
9 subluxation in this study were able to return to their sport in approximately 3 months.

10 **PRACTITIONER SCOPE AND TRAINING**

11 Practitioners should practice only in the areas in which they are competent based on their
12 education, training and experience. Levels of education, experience, and proficiency may
13 vary among individual practitioners. It is ethically and legally incumbent on a practitioner
14 to determine where they have the knowledge and skills necessary to perform such services
15 and whether the services are within their scope of practice.

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18 It is best practice for the practitioner to appropriately render services to a member only if
19 they are trained, equally skilled, and adequately competent to deliver a service compared
20 to others trained to perform the same procedure. If the service would be most competently
21 delivered by another health care practitioner who has more skill and training, it would be
22 best practice to refer the member to the more expert practitioner.

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

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30 Depending on the practitioner's scope of practice, training, and experience, a member's
31 condition and/or symptoms during examination or the course of treatment may indicate the
32 need for referral to another practitioner or even emergency care. In such cases it is prudent
33 for the practitioner to refer the member for appropriate co-management (e.g., to their
34 primary care physician) or if immediate emergency care is warranted, to contact 911 as
35 appropriate. See the *Managing Medical Emergencies (CPG 159 – S)* clinical practice
36 guideline for information.

37 **References**

38
39 American College of Foot and Ankle Surgeons (ACFAS) Cosmetic surgery position
40 statement (2020). Retrieved on May 26, 2023 from: <https://www.acfas.org/policy-advocacy/policy-position-statements/acfas-position-statement-on-cosmetic-surgery>
41

- 1 American Medical Association. (current year). Current Procedural Terminology (CPT)
2 Current year (rev. ed.). Chicago: AMA
3
- 4 American Medical Association. (current year). ICD-10-CM. American Medical
5 Association
6
- 7 Bahad, S. R., & Kane, J. M. (2020). Peroneal Tendon Pathology: Treatment and
8 Reconstruction of Peroneal Tears and Instability. *The Orthopedic clinics of North
9 America, 51*(1), 121–130. <https://doi.org/10.1016/j.ocl.2019.09.001>
10
- 11 Cho, J., Kim, J. Y., Song, D. G., & Lee, W. C. (2014). Comparison of Outcome After
12 Retinaculum Repair With and Without Fibular Groove Deepening for Recurrent
13 Dislocation of the Peroneal Tendons. *Foot & Ankle International, 35*(7), 683-689. doi:
14 10.1177/1071100714531233
15
- 16 Davda, K., Malhotra, K., O'Donnell, P., Singh, D., & Cullen, N. (2017). Peroneal tendon
17 disorders. *EFORT open reviews, 2*(6), 281–292. [https://doi.org/10.1302/2058-
18 5241.2.160047](https://doi.org/10.1302/2058-5241.2.160047)
19
- 20 Easley, M. E., & Wiesel, S. W. (2011). *Operative Techniques in Foot and Ankle Surgery:*
21 *Wolters Kluwer Health/Lippincott Williams & Wilkins*
22
- 23 Heckman, D. S., Reddy, S., Pedowitz, D., Wapner, K. L., & Parekh, S. G. (2008). Operative
24 treatment for peroneal tendon disorders. *The Journal of Bone and Joint Surgery.
25 American, 90*(2), 404-418. doi: 10.2106/jbjs.g.00965
26
- 27 Joint Commission International. (2020). Joint Commission International Accreditation
28 Standards for Hospitals (7th ed.): Joint Commission Resources
29
- 30 Philbin, T. M., Landis, G. S., & Smith, B. (2009). Peroneal tendon injuries. *The Journal of
31 the American Academy of Orthopaedic Surgeons, 17*(5), 306-317
32
- 33 Roth, J. A., Taylor, W. C., & Whalen, J. (2010). Peroneal tendon subluxation: the other
34 lateral ankle injury. *British Journal of Sports Medicine, 44*(14), 1047-1053. doi:
35 10.1136/bjism.2008.057182
36
- 37 Saxena, A., & Ewen, B. (2010). Peroneal subluxation: surgical results in 31 athletic
38 patients. *The Journal of Foot and Ankle Surgery, 49*(3), 238-241. doi:
39 10.1053/j.jfas.2010.02.007

- 1 Smith, S. E., Camasta, C. A., & Cass, A. D. (2009). A simplified technique for repair of
2 recurrent peroneal tendon subluxation. *The Journal of Foot and Ankle Surgery*, 48(2),
3 277-280. doi: 10.1053/j.jfas.2008.10.006
4
- 5 Van Dijk, P. A., Miller, D., Calder, J., DiGiovanni, C. W., Kennedy, J. G., Kerkhoffs, G.
6 M., Kynsburtg, A., Havercamp, D., Guillo, S., Oliva, X. M., Pearce, C. J., Pereira, H.,
7 Spennacchio, P., Stephen, J. M., & van Dijk, C. N. (2018). The ESSKA-AFAS
8 international consensus statement on peroneal tendon pathologies. *Knee surgery, sports
9 traumatology, arthroscopy: official journal of the ESSKA*, 26(10), 3096–3107.
10 <https://doi.org/10.1007/s00167-018-4971-x>
11
- 12 Willegger, M., Hirtler, L., Schwarz, G. M., Windhager, R. H., & Chiari, C. (2021).
13 Peronealsehnenpathologien : Von der Diagnose bis zur Behandlung [Peroneal tendon
14 pathologies : From the diagnosis to treatment]. *Der Orthopade*, 50(7), 589–604.
15 <https://doi.org/10.1007/s00132-021-04116-6>