



BeyondDuty+

Ankle and Foot Injuries

Foot and ankle injuries are frequently reported among service personnel and veterans, particularly those who have undergone **Phase 1/2 initial training, airborne selection, or high-load infantry roles**. These injuries often arise due to intense physical demands, load carriage, high-impact landings, and repetitive training on varied terrain.

Common Conditions in Military/Veteran Populations

- **Ankle Sprains** – lateral ligament injuries from twisting or rolling the ankle
- **Achilles Tendinopathy or rupture** – chronic overuse injury, worsened by load-bearing or hill running
- **Plantar Fasciitis** – sharp heel pain due to inflammation of the plantar fascia, common with prolonged standing or marching
- **Stress Fractures** – tibia, metatarsals, or calcaneus; often from overtraining without adequate rest
- **Post-Traumatic Arthritis** – Long-term joint damage after injury
- **Chronic Instability** – Recurrent giving way after repeated sprains



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VETERANS
WELFARE GROUP

Veteran-Specific Risk Factors

- Heavy **load-bearing** (bergens, body armour)
- Frequent **running on uneven terrain**
- **Parachute landings** and jump-related trauma (for airborne-trained personnel)
- **Poorly fitting** or worn footwear during or after service
- **Inadequate rehab** following initial injury in service

Recurrent ankle sprains and untreated plantar fasciitis are common complaints among veterans attending NHS MSK clinics, especially those seeking support for **long-term pain, instability, or mobility limitations**.

Management

1. Acute Injury (Sprain, Strain, Fracture Suspected):

- **RICE protocol** – Rest, Ice, Compression, Elevation (first 48–72 hours)
- GP assessment – **X-ray/MRI** if fracture suspected or symptoms persist
- **Crutches or walking boot** for offloading if needed

2. Conservative Management (First-Line):

- **NHS MSK Physio referral** – often self-referral or via GP
- **Exercise-based rehab:**
 - Ankle mobility and proprioception drills
 - Progressive calf/Achilles strengthening
 - Plantar fascia stretches and loading
- **Insoles or orthotics** – via podiatry or physio for arch support and gait correction

3. Persistent or Chronic Cases:

- **Ultrasound or MRI imaging** for unresolved pain or instability
- **Injection therapy** – corticosteroid (rarely), PRP, or shockwave (for plantar fasciitis)
- **Surgical referral** – for chronic instability or Achilles tears

Long-Term Considerations

- Chronic ankle instability may limit high-level activity if not fully rehabilitated
- Plantar fasciitis can become resistant to treatment without early intervention
- Achilles tendinopathy requires **graded loading**, not rest alone
- Stress fractures need **adequate rest and nutritional support** (e.g. vitamin D, calcium)

Initial Assessment and Red Flags

Veterans presenting with ankle pain should have a thorough clinical assessment including:

- **History:** Mechanism of injury, severity, previous ankle problems, weight-bearing ability
- **Physical Exam:** Swelling, bruising, deformity, ligament stability tests (e.g., anterior drawer test)
- **Red Flags** to watch for:
 - Inability to weight-bear immediately or within 4 steps (Ottawa Ankle Rules)
 - Severe deformity or open wounds
 - Suspected fracture or tendon rupture
 - Signs of infection (redness, warmth, fever)

Imaging (usually X-ray) is indicated if fracture suspected or Ottawa Ankle Rules criteria met.

Management Principles

1. Acute Phase (First 48–72 hours)

- **Protection:** Rest and avoid aggravating activities
- **Ice:** Apply ice packs for 15–20 minutes every 2–3 hours to reduce swelling
- **Compression:** Use elastic bandage or ankle brace
- **Elevation:** Keep ankle raised above heart level to limit swelling
- **Pain Relief:** Use NSAIDs (ibuprofen) unless contraindicated

2. Early Rehabilitation (3 days to 2 weeks)

- **Gentle range of motion exercises** to prevent stiffness (e.g., ankle circles, alphabet tracing)
- **Weight-bearing as tolerated**, with crutches if needed
- Begin **muscle activation** exercises (e.g., isometric contractions)

3. Strengthening and Proprioception (Weeks 2–6)

- Progress to **balance and coordination exercises** (e.g., single-leg stands, wobble boards)
- **Strengthen calf muscles and ankle stabilizers** through resisted exercises
- Gradually return to **functional activities** like walking, jogging

4. Return to Duty/Sport (6 weeks+)

- Higher level proprioceptive and plyometric training (e.g., hopping, cutting drills)
- Sport- or job-specific drills tailored to veteran's role or lifestyle
- Assess for persistent instability or pain; refer to specialist if needed

Special Considerations

- Physical fitness demands may be higher; rehab should be tailored accordingly
- Mental health comorbidities (e.g., PTSD) can affect pain perception and adherence
- Use Defence Primary Healthcare (DPHC) physiotherapy and rehabilitation services when available

- Consider referral to orthopaedics or sports medicine for complex injuries or poor progress

Preventing Recurrence

- Use appropriate ankle supports during high-risk activities
- Maintain strength, flexibility, and balance with ongoing exercise
- Education on injury risks and safe movement techniques

Digital and Remote Rehab Options

Virtual physiotherapy and telerehabilitation platforms can improve access for veterans in rural areas or those with mobility restrictions.

Summary

Effective management of ankle injuries involves:

- Early, thorough assessment and injury classification
- Prompt application of RICE principles and pain control
- Graduated rehabilitation focusing on mobility, strength, and proprioception
- Individualised return to activity plans reflecting veteran-specific needs

With timely, multidisciplinary care, most veterans can expect full recovery and return to active life.

Rehabilitation Exercises

Includes: Sprains | Achilles Tendinopathy | Plantar Fasciitis

Use under guidance of a professional

Important Notes Before You Start

- Begin only after swelling/pain from acute injury has reduced
- Perform exercises **within a pain-free range**
- Stop and consult your clinician if symptoms worsen
- Do exercises **daily or as prescribed** by a physiotherapist

Phase 1: Early Recovery (Mobility & Pain Relief)

Ankle Circles (All injury types)

- Sit or lie down, raise foot off floor
- Slowly rotate ankle clockwise and counterclockwise
- 10 circles each way, 2 sets

Towel Stretch (Plantar Fasciitis & Achilles tightness)

- Sit with legs extended. Loop towel/band around ball of foot
- Pull gently towards you, keeping knee straight
- Hold 20–30 seconds, 3 reps each side

Toe Towel Curls (Plantar Fasciitis)

- Sit and place a towel flat under your foot
- Curl your toes to scrunch the towel toward you
- 10 reps, 2 sets each foot

Phase 2: Strengthening & Proprioception

Heel Raises (Achilles & general foot/ankle strength)

- Stand behind a chair for balance
- Rise up on toes, slowly lower down
- 2 sets of 10 reps. Progress to single-leg when able

Single-Leg Balance (Ankle sprains & stability)

- Stand on one foot for 30 seconds
- Try on a firm surface, then softer (e.g. pillow)
- 3 reps per side

Resistance Band Ankle Work (4 directions)

Secure a band to a stable object and:

1. Dorsiflexion – pull toes up
2. Plantarflexion – push toes down
3. Inversion – turn foot inward
4. Eversion – turn foot outward

10 reps each direction, 1–2 sets

Phase 3: Functional Return (Late Rehab)

Step Taps

- Tap the injured foot onto a step, return to start
- Builds control and strength for dynamic movement
- 10–15 reps, 2 sets

Heel-to-Toe Walking

- Walk in a straight line, heel touching toe each step
- Improves balance and proprioception
- 10 steps forward and back, 2–3 sets

Wall Calf Stretch (Achilles/Plantar Fasciitis)

- Stand facing a wall
- One foot forward (bent knee), other back (straight)
- Lean in and stretch calf of back leg
- Hold 30 seconds, 2–3 reps per side

Contact Us

For more information and support, get in touch with our advisors and veterans with lived experience today.



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