

SCREENING TOOL / DATA COLLECTION FORM

SCREENING FOR ELIGIBILITY

- Charcot episode of care between 4 January 2012 – 4 January 2015:** Yes No *If NO, exclude*
- Acute Charcot foot:**
(i.e. Modified Eichenholtz stage 0 or 1) Yes No *If NO, exclude*
- ≥18 years of age:** Yes No *If NO, exclude*
- TCC treatment for ulcer or fracture:**
(i.e. not Charcot-related) Yes No *If YES, exclude*
- Concurrent rheumatic condition:**
(e.g. rheumatoid arthritis) Yes No *If YES, exclude*
- Concurrent inflammatory condition:**
(e.g. systemic lupus erythematosus) Yes No *If YES, exclude*
- Current foot infection:**
(e.g. cellulitis, erysipelas, osteomyelitis) Yes No *If YES, exclude*
- Transfer or withdrawal from HRFS:**
(i.e. between 4 January 2012 – 4 January 2015) Yes No *If YES, exclude*

*** If participant satisfies all eligibility criteria, continue with assessment ***

DATA COLLECTION

1. PARTICIPANT CHARACTERISTICS

Date of assessment: _____

Date of birth: / / Sex: Male ₁ Female ₀

Known ETOH abuse: Yes ₁ No ₀

Smoking history: Past ₁ Current ₂ Never ₃

2. COMORBIDITIES

Diabetes mellitus: Yes ₁ No ₀

Type of diabetes: Type 1 ₁ Type 2 ₂

Date of diagnosis: _____ Duration of diabetes (years): _____

Latest HbA1c result: _____ (%)

Dyslipidaemia: Yes ₁ No ₀

Hypertension: Yes ₁ No ₀

Ischaemic heart disease: Yes ₁ No ₀

Congestive cardiac failure: Yes ₁ No ₀

Cerebrovascular disease: Yes ₁ No ₀

Chronic kidney disease: Yes ₁ No ₀

Osteoarthritis: Yes ₁ No ₀

Previous foot ulceration: Yes ₁ No ₀

Previous foot infection: Yes ₁ No ₀

Previous amputation: Yes ₁ No ₀

3. NEUROVASCULAR FOOT ASSESSMENTS

3.1 Neurological assessment

Protective sensation (Semmes-Weinstein 5.07/10 g monofilament)

	Plantar Hallux	Plantar 3 rd MTPJ	Plantar 5 th MTPJ
Left foot			
Right foot			

MTPJ, Metatarsophalangeal joint.

✓ = present, ✗ = absent (score /3 both feet)

Note. Inability to detect the monofilament at ≥1 site(s) will indicate peripheral neuropathy.

Peripheral neuropathy: Yes ₁ No ₀

3.2 Arterial assessment

Pedal pulses

	Dorsalis pedis	Posterior tibial
Left foot		
Right foot		

✓ = present, ✗ = absent (score /2 both feet)

Note. Absence of ≥2 pedal pulses on both feet indicates peripheral arterial disease.

Ankle-brachial pressure index (ABPI) and toe-brachial pressure index (TPBI)

	Left	Right
Toe systolic pressure (mmHg)		
Ankle systolic pressure (mmHg)		
Brachial systolic pressure (mmHg)		
ABPI value		
TBPI value		

ABPI, Ankle brachial index; TBPI, Toe brachial index.

Note. ABPI ≤0.9 and/or TBPI ≤0.6 indicates peripheral arterial disease. ABPI >1.3 or non-compressible arteries (i.e. >240 mm Hg) indicates medial arterial calcification.

Peripheral arterial disease: Yes ₁ No ₀

4. CHARCOT FOOT HISTORY

Left foot ₁ Right foot ₂ Bilateral ₃

Stage of Charcot: Eichenholtz stage 0 ₁ Eichenholtz stage 1 ₂

Date of diagnosis: _____

Duration of Charcot foot (months): _____

Charcot trigger:

- ₁ Ulceration
- ₂ Injury/trauma
- ₃ Amputation
- ₄ Lymphoedema
- ₅ Unknown

Misdiagnosis of Charcot foot: Yes ₁ No ₀
(i.e. prior to attending HRFC)

Charcot foot pattern:

- ₁ Forefoot joints
- ₂ Tarsometatarsal joints
- ₃ Naviculocuneiform, talonavicular and calcaneocuboid joints
- ₄ Ankle and subtalar joints
- ₅ Calcaneus
- ₆ Combination _____ (describe)

Diagnostic imaging:

X-ray: Yes ₁ No ₀

Initial date of imaging: _____ Latest date of imaging: _____

Bone scan: Yes ₁ No ₀

Initial date of imaging: _____ Latest date of imaging: _____

MRI: Yes ₁ No ₀

Initial date of imaging: _____ Latest date of imaging: _____

5. TOTAL CONTACT CASTING TREATMENT

TCC start date: _____ TCC cessation date: _____

Duration of TCC treatment (months): _____

Total number of TCC applications: _____

Ambulation status (while in TCC):

- ₁ Walking with post-op shoe
- ₂ Wheelchair bound
- ₃ Crutches
- ₄ Scooter
- ₅ Other

TCC complications/adverse events: Yes ₁ No ₀

Types of complications/adverse events:

- ₁ Ulceration
- ₂ Amputation
- ₃ Infection
- ₄ Deep vein thrombosis
- ₅ Fall(s)
- ₆ Asymmetry pain (e.g. hip, back, knee, ankle pain)
- ₇ Rubbing/irritation
- ₈ Self-inflicted (e.g. placing objects within TCC, self-modification of TCC)
- ₉ Other

Total number of TCC complications/adverse events: _____

Treatment after TCC:

- ₁ Specialised footwear and custom foot orthoses
- ₂ Charcot Restraint Orthotic Walker (CROW)
- ₃ Reconstructive/bone surgery
- ₄ Soft-tissue surgery
- ₅ CAM Walker

Recurrent Charcot foot: Yes ₁ No ₀

Charcot foot pattern:

- ₁ Forefoot joints
- ₂ Tarsometatarsal joints
- ₃ Naviculocuneiform, talonavicular and calcaneocuboid joints
- ₄ Ankle and subtalar joints
- ₅ Calcaneus
- ₆ Combination_____ (describe)

Contralateral Charcot foot: Yes ₁ No ₀

Charcot foot pattern:

- ₁ Forefoot joints
- ₂ Tarsometatarsal joints
- ₃ Naviculocuneiform, talonavicular and calcaneocuboid joints

- 4 Ankle and subtalar joints
- 5 Calcaneus
- 6 Combination_____ (describe)

6. DERMAL TEMPERATURES

Site	Anatomical location	Temperature differential (°C): Charcot <u>diagnosis</u>	Temperature differential (°C): Charcot <u>resolution</u>
1	Plantar 1st metatarsal head		
2	Plantar 3rd metatarsal head		
3	Plantar 5th metatarsal head		
4	Plantar aspect of the base of the 5th metatarsal (styloid process)		
5	Dorsal aspect of the base of the 3rd metatarsal		
6	Medial aspect of the base of the 1st metatarsal		
7	Medial aspect of the navicular		
8	Plantar medial tubercle of the calcaneus		
9	Medial malleolus		
10	Lateral malleolus		