

Data Collection Sheet



Frailty in Chronic Limb Threatening Ischaemia

FraiLTI Study: (Frailty in chronic Limb Threatening Ischaemia) Study

A multicentre prospective observational study to investigate the prevalence and short-term impact of frailty, multi-morbidity and sarcopenia in chronic limb threatening ischaemia (CLTI)

IRAS number	Project ID 294528
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Demographics

Patient Consent* No Yes (If no, unable to proceed)
Date consent recorded ___ / ___ / _____ (DD/MM/YYYY)

Initials _____

Local ID* _____

Date of birth* _____

Age _____

Sex* Male Female

Ethnicity: (Full options)

Patient weight* (kg) _____

Weight change in last 6 months (to nearest kg) (NB: 1 stone = 6kg):

+/-		
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Patient height* (m/cm) _____

Postcode* _____

Social history*

Living circumstances ___ House/Flat/Bungalow/Residential care/Nursing Home/Other: _____

Care required ___ No care/1/2/3/4/5+ care visits a day _____

Walking aid ___ No / Stick/ Frame / Wheelchair / Other : describe

Admission date* ___ / ___ / _____ (DD/MM/YYYY)

Mode of admission* Elective Non-elective/emergency

Source of referral GP ED Other medical specialty Vascular clinic
Podiatry Self-referral

Haemoglobin(g/L)	
White cell count(x10 ⁹ /L)	
Potassium (mmol/l)	
Sodium (mmol/l)	
Creatinine (µmol/l)	
Urea	
eGFR	
Albumin (g/L)	
CRP (mg/L) (where performed)	
Glucose (mmol/l)	
HbA1c (mmol/mol)	
MCV	
Total protein	
Vitamin D (if performed)	

ECG on admission*

Normal / dysrhythmia / other:

Severity of Chronic limb threatening ischaemia

WIFI Scoring used Yes / No

Wifi classification score for the threatened lower limb (if performed) *

Wound (W)

- 0 – No ulcer or gangrene
- 1 – Small or superficial ulcer on leg or foot, without gangrene
- 2 – Deep ulcer with exposed bone, joint, or tendon ± gangrene limited to digits
- 3 – Deep, extensive ulcer involving forefoot and/or midfoot ± calcaneal involvement ± extensive gangrene

Ischaemia (I)

- 1 – ABPI ≥ 0.80; SBP of ankle > 100 mmHg; TP, TcPO₂ ≥ 60 mmHg
- 2 – ABPI 0.6-0.79; SBP of ankle 70-100 mmHg; TP, TcPO₂ 40-59 mmHg
- 3 – ABPI 0.4-0.59 ≤ 0.39; SBP of ankle 50-70 mmHg < 50 mmHg; TP, TcPO₂ 30-39 mmHg < 30 mmHg

Foot Infection (fi)

- 0 – Uninfected
- 1 – Mild local infection, involving only skin and subcutaneous tissue, erythema > 0.5 to ≤ 2 cm
- 2 – Moderate local infection, with erythema > 2 cm or involving deeper structures
- 3 – Severe local infection with signs of SIRS

Rutherford classification for chronic limb ischaemia*

- 0 – Asymptomatic—no hemodynamically significant occlusive disease
- 1 – Mild claudication
- 2 – Moderate claudication
- 3 – Severe claudication
- 4 – Ischaemic rest pain
- 5 – Minor tissue loss—nonhealing ulcer, focal gangrene with diffuse pedal ischemia
- 6 – Major tissue loss—extending above TM level, functional foot no longer salvageable

Frailty assessment 1:

Rockwood clinical frailty scale:

- 1 – Very Fit - People who are robust active, energetic and motivated. They tend to exercise regularly and are among the fittest for their age.
- 2 – Well – People who have no active disease symptoms but are less fit than category 1. Often, they exercise or are very active occasionally, eg: seasonally.
- 3 – Managing well – people whose medical problems are well controlled, but not regularly active beyond routine walking
- 4 – Venerable – While not dependent on others for daily help, often symptoms limit activities. A common complaint is being ‘slowed up’ and/or being tired during the day.
- 5 – Mildly Frail – These people often have more evident slowing, and need help in high order IADLs (finances, transportation, heavy housework, medications). Typically, mild frailty progressively impairs shopping and walking outside alone, meal preparation and housework.
- 6- Moderately Frail – People need help with all outside activities and with keeping house. Inside, they often have problems with stairs and need help with bathing and might need minimal assistance (cuing, standby) with dressing.
- 7 -Severely Frail – Completely dependent for personal care, from whatever cause (physical or cognitive). Even so, they seem stable and not at high risk of dying (within ~ 6 months).
- 8 Very Severely Frail – Completely dependent, approaching the end of life. Typically, they could not recover even from a minor illness.
- 9 - Terminally Ill - Approaching the end of life. This category applies to people with a life expectancy <6 months, who are not otherwise evidently frail.

Fried Frailty Assessments:

Physical assessments

Grip strength (kg):

Dominant hand: Right

Left

	Left	Tick if not performed (choose one)	Right	Tick if not performed (choose one)						
Attempt 1		<table border="1" style="border-collapse: collapse; width: 60px; height: 30px;"><tr><td style="text-align: center;">U</td><td style="text-align: center;">D</td><td style="text-align: center;">T</td></tr></table>	U	D	T		<table border="1" style="border-collapse: collapse; width: 60px; height: 30px;"><tr><td style="text-align: center;">U</td><td style="text-align: center;">D</td><td style="text-align: center;">T</td></tr></table>	U	D	T
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U	D	T								
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		U=Unable D= Declined	T=Technical problem							

4 metre gait speed: First walk – time (seconds)
Second walk – time (seconds)

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If the patient is unable to do this please record : Fail
Reason:

Chair stand test:

Tick
one

Unable to complete single stand w/o using arms	
Unable to complete 5 stands in <60 secs	
Able to complete 5 stands	

Time (seconds)

		•
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Questions about activity to the patient:

Do you take part in activities that are *vigorous* (e.g. swimming, cycling, digging):

- More than once a week
- Once a week
- One to three times a month
- Hardly ever or never

Tick ONE

Do you take part in activities that are *moderately* energetic (e.g. walking, gardening, dancing):

- More than once a week
- Once a week
- One to three times a month
- Hardly ever or never

Tick ONE

Do you take part in activities that are *mildly* energetic (e.g. vacuuming, laundry, home repairs):

- More than once a week
- Once a week
- One to three times a month
- Hardly ever or never

Tick ONE

Imaging (if CTA performed)

L3 skeletal muscle area: (all at L3) _____ cm²

L3 skeletal muscle index (L3SMI) *

- Muscle area at L3 vertebra level (psoas and total), divided by the patient height (squared)

L3SMI _____

Limb muscle area*

At level of above knee amputation (AKA) level (Mid-femur) _____ cm²

At level below knee amputation (BKA) level (10cm below tibial tuberosity) _____ cm²

Planned/undergoing for Revascularisation?

Yes – Go to Revascularisation Question

No – go to non-revasc questions

Not for revascularisation:

Plan for: Primary amputation / medical (iloprost)/ chemical sympathectomy / pain control and/or palliation

Primary amputation

Chemical Sympathectomy

Pain control and/or palliation

Revascularisation

open (inc. hybrid)

endovascular / interventional radiology

Open Revascularisation:

Type of theatre list:

Elective

Emergency

Date of primary revascularisation: ____ / ____ / ____ (DD/MM/YYYY)

Revascularisation strategy:

open surgical

hybrid (open or endovascular in combination)

Endovascular

Debridement surgery: Yes No

Site: _____

Reason: _____

Open Surgical Revascularisation:

Anaesthetic start time *

___/___/____ (DD/MM/YYYY); ___ : ___ (HH:MM)

Surgical start time*

___/___/____ (DD/MM/YYYY); ___ : ___ (HH:MM)

Bypass? Yes No

Inflow: Axillary / Aorta / Common Iliac / External Iliac / Common Femoral / Superficial Femoral / Above knee Popliteal / Below knee popliteal

Outflow: Axillary / Aorta / Common Iliac / External Iliac / Common Femoral / Superficial Femoral / Above knee Popliteal / Below knee popliteal / Tibio-peroneal Trunk / Tibial vessel / Pedal vessel

Conduit: Autologous Vein / Prosthetic (with or with out cuff)

Endarterectomy: Yes No

Site: Aortic / iliac / Femoral / Popliteal / other:

Was there a 'hybrid component eg: COWER': Yes No

Iliac angioplasty / other:

Endovascular Strategy:

Percutaneous? Yes No

- Primary balloon Angioplasty
- Endovascular Stenting

Site (select all that apply): Aorta / Common Iliac / External Iliac / Common Femoral / Superficial Femoral / Above knee Popliteal / Below knee popliteal Tibio-peroneal Trunk / Tibial vessel / Pedal vessel

Post-revascularisation Critical care admission?

No

Level 3/ITU Level 2/HDU/PACU

Date of critical care admission

Date of Critical care discharge

Length of Critical care stay (days)

In-hospital events:

Death Yes No

Date:

In hospital Complications: (tick all that apply)

- Cardiac: Myocardial infarction (all-types)
- Respiratory: Pneumonia/Chest infection
- Wound: Clinical wound infection requiring antibiotics or extending admission
- Urinary: Urinary infection requiring antibiotics or extending admission
- Ipsilateral limb event: limb-loss
- Ipsilateral limb-complication: graft occlusion requiring salvage / unsuccessful salvage / failed revascularisation

Discharge:

Was the patient discharged prior to 90-days? Yes No

Date of discharge:

Discharge environment:

- Own home with care package
- Residential care
- Nursing Home
- Step-down unit / rehabilitation
- Other:

Mobility on discharge: (delete / circle)

Independent / walking stick / frame / wheel-chair / unable to ambulate / full-care and hoisting.

90 – day follow up overleaf

90- day follow -up:

Re-admissions

How many 1 2 3 4

Day case Re-intervention?

?Yes / No

How many 1 2 3 4

Re-intervention 1 – branch as needed

Angioplasty Yes No

Terminalisation/minor surgery Yes No

Hospital admission (1 – 4 – branch as needed)

Date of admission _____

Date of discharge _____

Discharge environment:

- Own home with care package
- Residential care
- Nursing Home
- Step-down unit / rehabilitation
- Other:

Mobility on discharge: (delete / circle)

Independent / walking stick / frame / wheel-chair / unable to ambulate / full-care and hoisting.

Death Yes No

Date of Death:

Limb loss Yes No

Date of limb-loss :

Ipsilateral revascularisation Yes No

If Yes

Redo surgery Yes No

Re-angioplasty Yes No

Hospital admission (1 – 4 – branch as needed)

Date of admission _____

Date of discharge _____

Discharge environment:

- Own home with care package
- Residential care
- Nursing Home
- Step-down unit / rehabilitation
- Other:

Mobility on discharge: (delete / circle)

Independent / walking stick / frame / wheel-chair / unable to ambulate / full-care and hoisting.

Death Yes No

Date of Death:

Limb loss Yes No

Date of limb-loss :

Ipsilateral revascularisation Yes No

If Yes

Redo surgery Yes No

Re-angioplasty Yes No

Hospital admission (1 – 4 – branch as needed)

Date of admission _____

Date of discharge _____

Discharge environment:

Own home with care package

Residential care

Nursing Home

Step-down unit / rehabilitation

Other:

Mobility on discharge: (delete / circle)

Independent / walking stick / frame / wheel-chair / unable to ambulate / full-care and hoisting.

Death Yes No

Date of Death:

Limb loss Yes No

Date of limb-loss :

Ipsilateral revascularisation Yes No

If Yes

Redo surgery Yes No

Re-angioplasty Yes No

At 90 day complications not already recorded whilst an in-patient: (tick all that apply)

Cardiac: Myocardial infarction (all-types) , MACE / major adverse cardiac events

Respiratory: Pneumonia/Chest infection

Wound: Clinical wound infection requiring antibiotics or extending admission

Urinary: Urinary infection requiring antibiotics or extending admission

Ipsilateral limb event: limb-loss (major adverse limb event (MALE)

Ipsilateral limb-complication: graft occlusion requiring salvage / unsuccessful salvage / failed revascularisation

Re-interventions:

Redo-surgery

Redo-endovascular procedure

Wound related debridement/drainage

Foot debridement/toe amputation

Appendix A - Quality of Life Assessment

Euro-QoL EQ5D-5L health status assessment score*

Baseline Completed: Y / N

90-day Completed: Y/ N

Appendix B – Nottingham Extended Activities of Daily Living (baseline)

Baseline Completed: Y / N

90-day Completed: Y/ N

Appendix C – Food diary (baseline)

Baseline only: Completed: Y/ N