Greater

Manchester Cancer

GM Lymphoedema Pathway





KEY: all words in blue and underlined are links, please click links to access further information

Cancer Workforce

Primary Care

AT RISK:

Wider Healthcare and Social Care professionals

End of Life Palliative Care

in Greater Mancheste

1) Discuss & provide information of risk at point of consent for cancer treatment

- 2) Take limb volume measurements
- 3) Discuss swelling concerns during personalised care and support planning.
- 4) Include risk of lymphoedema in end of treatment summary
- 5) Provide health & wellbeing, information and support. NB – All information to be of risk reduction and early signs and

symptoms (Resource list)

There may be a considerable delay of several years from a causative event to the appearance of lymphoedema.

Cancer Cellulitis Obesity Age Vascular Immobility Trauma

Provide oral and written information to minimise the risk of developing the conditions. Information should include:

- Good skin care & Identifying infection
- Physical activity
- Weight management and balanced diet

Inform patients/carers of early signs and symptoms (A list of known resources below)

Oedema at the end of life is common and causes varied problems.

Improve and control symptoms is important

Part of a holistic assessment is to decide with patients the aims of management.

Key steps for all workforce to consider

ILF - management EoL oedema

Follow National cellulitis guidelines for acute and recurrent guidelines, including prescribing prophylaxis

Identified by patient or any HCP. Presenting symptoms in limb/body part.

One or more of the following

- Swelling (Chronic oedema)
- Heaviness
- Pain or tension
- Tightness and fullness
- Is the skin pitting/non pitting

Consider lipoedema symptoms Further information on lipoedema

HCP and No History of Cancer

Or has suspected lipoedema

failure, Wounds/Wet legs

Patient symptoms have been >3 months

Exclude: DVT, Cardiac failure & renal

- · Advanced cancer
- · Chronic heart failure
- Advanced neurological disease
- End stage renal disease
- Advance liver disease
- Venous disease Full details of

components page 4/5

Typical skin change:

Thickened skin Hyperkeratosis Lymphangiectasia Papillomata

Exclude: DVT, Cardiac failure, Arterial insufficiency.

Cancer Workforce:

- **Review End of Treatment Summaries**
- Review Care Plans
- Complete limb measurement

Exclude: Tumour reoccurrence, DVT, Cardiac failure and renal failure.

Wider workforce to consider severity, co-morbidities and individual needs

At Risk/ILF Stage 0

Continue to provide education to reduce the development.

Mild/ILF Stage I

HCP assess patient - use BLS guide to assess vascular status and provide compression if indicated.

HCP provide patient education to self-manage

Moderate - Severe - ILF Stage II & III

Palliative

Wound

present

N

Referral to lymphoedema Practitioner if there is no improvement

Aetiology/complications

Liaison with wider workforce

- **Primary Care**
- Integrated Neighbourhood Team
- Oncology
- Dermatology
- Tissue viability/Leg Ulcers
- Vascular Consultants
- MDT OT, physiotherapy, counselling
- Weight management
- Healthy lifestyle services
- Social Prescribing

HCP to Contact (LP) lymphoedema practitioner (if required)

LP to support HCP to treat within remit OR

LP confirm if referral is Wound Care/Leg Ulcer Service

Team Collaboration with lymphoedema

practitioner for appropriate treatment. Wound healed refer to lymphoedema practitioner

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- 1. Patient main concerns/ priorities/goals
- 2. Cause of and mechanisms behind oedema
- 3. Stage and progression

History of:

Oedema, illness, medication

Examination Investigations

Full details pg. 8 onwards

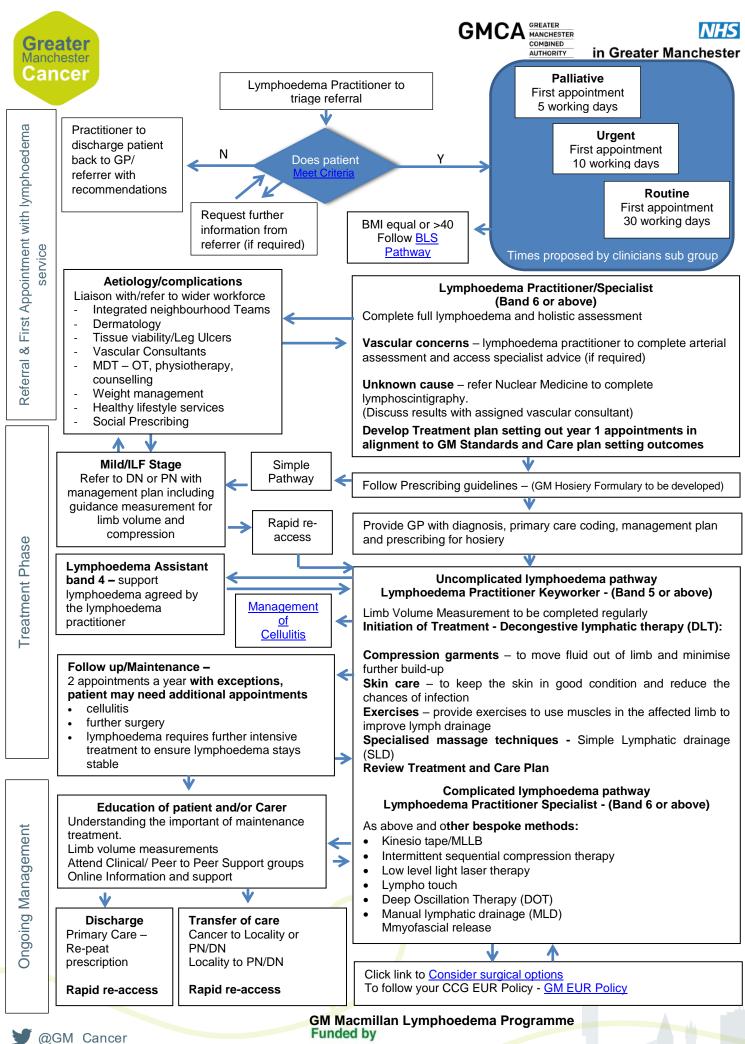
If appropriate refer to

Refer patient to Lymphoedema service

GM Standardised Lymphoedema pathway Version 3 – September 2020

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At Risk Factors

The below box has been sourced from the ILF - best practice for the management of lymphoedema

The true risk factor profile for lymphoedema is not known.

Upper limb/trunk lymphoedema	Lower limb lymphoedema
■ Surgery with axillary lymph node dissection,	■ Surgery with inguinal lymph node dissection
particularly if extensive breast or lymph node	■ Postoperative pelvic radiotherapy
surgery	■ Recurrent soft tissue infection at the
■ Scar formation, fibrosis and radiodermatitis	same site
from postoperative axillary radiotherapy	■ Obesity
■ Radiotherapy to the breast, or to the axillary,	■ Varicose vein stripping and vein harvesting
internal mammary or subclavicular lymph nodes	 Genetic predisposition/family history of chronic oedema
■ Drain/wound complications or infection	■ Advanced cancer
Cording (axillary web syndrome)	■ Intrapelvic or intra-abdominal tumours
Seroma formation	that involve or directly compress lymphatic
Advanced cancer	vessels
Obesity	■ Orthopaedic surgery
■ Congenital predisposition	■ Poor nutritional status
■ Trauma in an 'at risk' arm (venepuncture,	■ Thrombophlebitis and chronic venous
blood pressure measurement, injection)	insufficiency, particularly post-thrombotic
Chronic skin disorders and inflammation	syndrome
■ Hypertension	■ Any unresolved asymmetrical oedema
■ Taxane chemotherapy	■ Chronic skin disorders and inflammation
■ Insertion of pacemaker	■ Concurrent illnesses such as phlebitis,
■ Arteriovenous shunt for dialysis	hyperthyroidism, kidney or cardiac disease
■ Air travel	■ Immobilisation and prolonged limb
■ Living in or visiting a lymphatic	dependency
filariasis endemic area	■ Air travel
	 Living in or visiting a lymphatic filariasis endemic area

Go back to Pathway

List of Resources

This is a large number of online resources available and these are a number of them as of 2020. Other resources can be found completing an online internet search.

Type of Information available	Background information	Link
All related lymphoedema	Lymphoedema Support Network is a registered charity and the UK's national patient support organisation for lymphoedema. 15 questions that have been answered using information produced and verified by accepted experts in their field and reflects current practice	Lymphoedema Support Network - Information about risk
	Lymphoedema Support Network has developed a web page with full information about lymphoedema	Lymphoedema Support Network - What is lymphoedema
	Lymphoedema Support Network has worked with prof. Vaughan Keeley, Consultant in Lymphoedema in how to recognise lymphoedema.	How healthcare professionals can recognise lymphoedema
	British Lymphology Society – Website Provides an education sections for both professionals and patients	BLS - website
	Legs Matters – this coalition is working together to increase awareness, understanding and action on lower leg and foot conditions among the public and healthcare professional. They	Legs Matter











	operate under the governance of the Tissue Viability Society, a	
	registered charity.	
	Compton Care This hospice has produced a short video explaining the lymphatic system, lymphoedema and how to help.	Compton Hospice - lymphoedema-care video
	NHS lymphoedema Section on Overview, Causes, Diagnosis, Treatment and prevention	NHS - Lymphoedema
Cancer – general	Macmillan Cancer Support A webpage to explain lymphoedema as a possible impact of cancer.	Macmillan - impacts of cancer - lymphoedema
	Cancer Research UK 10 sections to explore including lots of links to additional resources.	Cancer Research UK - lymphoedema and cancer
Cancer – Breast	MFT Nightingale's rehabilitation website A collaboration between Macmillan and the renowned Nightingale Centre at Wythenshawe Hospital, MFT, to improve rehabilitation in breast cancer.	MFT Nightingale Rehabilitation website
	Breast Cancer Care Covers symptoms, causes, treatment and risk reduction of lymphoedema. Includes links with information on lymphatic system, surgery and radiology. Suggestions for weight management are also included.	Lymphoedema: causes, symptoms and treatment Breast Cancer Care
	Breast Cancer Care 5 videos on lymphoedema and breast cancer	Lymphoedema - Exercise classes and reducing your risk Breast Cancer Haven
	Breast Cancer Care A comprehensive overview of lymphoedema after breast cancer treatment, including reducing the risk, treating the lymphoedema. Provides links to help with the emotional mental health side to lymphoedema.	Lymphoedema: causes, symptoms and treatment Breast Cancer Care
Cancer – Head Neck	Macmillan – Late effects of head and neck Swelling of the face or neck' – a small section describing why you may be at greater risk A list side effects and directs to hyperlinks to 'lymphatic system' and 'lymphoedema' for a more in depth view point.	Late effects of head and neck cancer treatment - Macmillan Cancer Support
	Provides overview of 'what is lymphoedema' 'how to manage lymphoedema' as well as management and risk reduction factors.	Head and Neck Lymphoedema Hull University Teaching Hospitals NHS Trust
	Macmillan – Understanding cancer of the larynx (Voice box) Page101-in connection with after treatment.	Macmillan - understanding cancer of the larynx)
Cancer – Gynaecological	Hull University Teaching Hospital Provides an overview of symptoms and prevention of lymphoedema, not that much specifically for gynaecological cancers.	Lymphoedema Advice Leaflet for Gynaecological Cancer Patients Hull University Teaching Hospitals NHS Trust
	Macmillan - Understanding womb (endometrial) cancer-page69 discusses the increased risk due to pelvic radiotherapy-swelling in both legs.	Macmillan - understanding womb endometrial cancer
	Macmillan - understanding cancer of the vulva Pages 92- 94- its causes, development, reducing risk, protecting skin, infection -onto management- mentions compression garments others don't really go into this possible outcome and again signposts to 'understanding lymphoedema' and specialist clinics	Understanding cancer of the vulva











	Macmillan - understanding cervical cancer Page 64- provide information	Macmillan - understanding cervical cancer
Cancer – Sarcoma	Macmillan Leaflet - Understanding soft tissue sarcomas-page 85 & 86 provides information	Macmillan - understanding soft tissue sarcomas
	Sarcoma UK - leaflet providing a comprehensive overview of lymphoedema and sarcoma, including where to contact if you develop symptoms, what treatment options are available	https://sarcoma.org.uk/sites/default/files/lymphoedema.pdf
Cancer – Urology	Lymphoedema in urological cancer – reviews of the epidemiological, surgical and scientific literature of lymphoedema in urological cancer.	Lymphoedema in Urological Cancer - PubMed
Cancer - Skin	Macmillan - Understanding Skin Cancer booklet Page 46 briefly explains about swelling.	Macmillan - understanding skin cancer
	Macmillan – Understanding melanoma booklet – page 58 there is a small paragraph on reasons why could get lymphoedema.	Macmillan - understanding advanced melanoma booklet
Pelvic Radiotherapy late effects	Macmillan – Pelvic Radiotherapy Late Effects	Macmillan - pelvic radiotherapy late effects
Lipoedema	Lipoedema UK – this charity provide information for symptoms of lipoedema/lipo lymphoedema for patients and healthcare professionals	<u>Lipoedema UK</u>

Go back to Pathway

Signs and Symptoms

The below box has been sourced from the <u>ILF - best practice for the management of lymphoedema</u>

BOX 15 Indications for referral to a lymphoedema service

Special groups:

- swelling of unknown origin
- midline lymphoedema (head, neck, trunk, breast, genitalia)
- children with chronic oedema
- primary lymphoedema
- lymphoedema in family members

Factors complicating management:

- concomitant arterial disease
- concomitant diabetes mellitus
- concomitant venous insufficiency with ulceration
- long-term complications due to surgery or radiotherapy
- severe papillomatosis, hyperkeratosis or other chronic skin condition
- severe foot distortion/ bulbous toes
- sudden increase in pain or swelling of lymphoedematous site
- chylous reflux, eg chyluria,chyle-filled lymphangiectasia
- neuropathy
- functional, social or psychological factors
- obesity

Management difficulties:

- compression garment fitting problems
- failure to respond after three months' standard treatment
- wound that deteriorates or is unresponsive after three months' treatment
- recurrent cellulitis/erysipelas

Go back to Pathway











Limb Volume Measurement

This link <u>Measuring Change in Lymph volume for lymphoedema</u> treatment outcomes provides a paper with an overview of the practical approaches to assessing limb volume and calculating changes in limb volume after treatments in patients with unilateral lymphoedema

Guidance for Cancer workforce on measuring limbs before and after surgery Lower limbs

With the limb in a relaxed position, measure circumference:

- of the foot (at the 5th metatarsal head)
- 2cm above the medial malleolus
- 10cm above the superior pole of the patella
- 10cm below the inferior pole of the patella repeat with the other limb

Upper limbs

With the limb in a supported position and the arm straight, measure circumference:

- around the dorsum of the hand (hand placed on a flat surface, fingers held together, tape placed at the base of the thumb joint in the web-space)
- around the wrist (2cm above the ulnar process)
- 10cm below the point of the elbow (olecranon process)
- 10cm above the olecranon process repeat with the other arm

Go back to Pathway

Severity/Staging of Lymphoedema

The severity of lymphoedema can also be based on the physical and psychosocial impact of the condition. Factors to consider include:

- tissue swelling mild, moderate or severe; pitting or nonpitting
- skin condition thickened, warty, bumpy, blistered, lymphorrhoeic, broken or ulcerated
- subcutaneous tissue changes fatty/rubbery, nonpitting or hard
- shape change normal or distorted
- frequency of cellulitis/erysipelas
- associated complications of internal organs, eg pleural fluid, chylous ascites
- movement and function impairment of limb or general function
- psychosocial morbidity.

Lymphoedema is staged according to the International Society of Lymphoedema Staging as follows:

ISL stage 0	A subclinical state where swelling is not evident despite impaired lymph transport. This stage may exist fo or years before oedema becomes evident.
ISL stage I	This represents early onset of the condition where there is accumulation of tissue fluid that subsides with elevation. The oedema may be pitting at this stage.
ISL stage II	Limb elevation alone rarely reduces swelling and pitting is manifest.
ISL late stage II	There may or may not be pitting as tissue fibrosis is more evident.
ISL stage III	The tissue is hard (fibrotic) and pitting is absent. Skin changes such as thickening and hyperpigmentation Severity of unilateral limb lymphoedema

(BLS)

(DLO)	
Mild	<20% excess limb volume
Moderate	20-40% excess limb volume
Severe	>40% excess limb volume

Go back to Pathway











Primary Care

Lymphoedema is a long term condition requiring primary care practitioner to support people and their carers to self-manage.

Gateway C – Late effects module inlcuding lymphoedema.

GP Notebook http://gpnotebook.co.uk/homepage.cfm provide sumarry of diagnosis and management in primary care

Lipoedema and Lymphoedema GP online training - RCGP - online training

Community Care

Best Practice in the Community - Chronic Oedema

Go back to Pathway

Surgerical Options

There are 3 surgical approaches; lymphatic venous anastomosis (LVA), liposuction and lymph node transfer. This is a developing area and not widely available on the NHS.

Liposuction – NICE Liposuction for chronic lymphoedema

Go back to pathway













Referral Critieria

Before referring rule out

- · Recurrence of malignancy
- Deep Vein Thrombosis (DVT)
- Cardiac failure and renal failure

Referral Criteria

- Lipoedema
- Suspected primary lymphoedema
- Suspected secondary lymphoedema
- Chronic oedema in the limb/body part of >3 months and has one or more of the following:
 - Swelling
 - o Heaviness
 - o Pain or tension
 - Tightness and fullness
- Unknown cause of swelling.
- Unexplained oedema in those <35 years
- Sudden increase in swelling or pain.
- Recurrent cellulitis
- Hosiery fitting problems
- When obesity complicated the management of the condition
- Venous Ulcer patients with Lymphoedema. (Joint care with venous leg ulcer)
- Suspected secondary cancer cancer related
 - o Long term complications due to radiotherapy or surgery.

Urgent referral

- Midline oedema (head, neck, trunk or genitalia).
- Skin problems such as severe papillomatosis, hyperkeratosis, etc.
- Severe foot distortion/bulbous
- Lymphorrhea
- Palliative Care

Contact lymphoedema practitioner for guidance on

Patients with post-operative swelling within 8 weeks of surgery

Exclusions:

- Untreated, recently diagnosed Deep Vein Thrombosis (DVT) (following vascular assessment)
- · Patients with unstable cardiac/renal failure

Go back to Pathway











Access of Lymphoedema practitioners

					Patie	ent access	s to service	by CCG loc	ality				Setting			Type of L	ymphoeder	na seen			Severity	of condition			A	Area Treate	ed		Patients:	seen with BI	MI levels	Re	ferral
ervice	Additional Notes	Bolton	Bury	HMR	Man- chester	Oldham	Salford	Stockpor	Tameside Glossop	& Trafford	l W igan	Community/ Hospice Clinics	Home Visits	Hospital	Primary	Secondary non cancer	- Secondar y Cancer	Palliative	Lipoede ma	t Risk M	ild Moder	ite Complex	Very Complex	Arm L	Face eg head neck	Breast or Ches	Genitals	Pelvic area			>40	Who can refer	How to refer
olton Hospice																																	
ury - Tissue Viability & ymphoedema service																															(GP, DN, Podiatry	Referral form, via em or letter
MR INT Lymphoedema service	Does not provide intense treatment											2 clinic locations																					
orth Manchester community mphoedema service					north GPs only																				TBC							GP, COMMUNITY HEALTH	ON EMIS/NHS.NET
oldham - Tissue viability & Imphoedema service												1 Clinic location	If housebound																			lealth care practitioner GP	Via referral form or 0
alford Royal FT - Breast ancer physio therapy																	Breast only	1													Д		Contact 0161 206 11 salford.breastcare@ net
alford Royal FT - Tissue iability service							gap in service																									-,	
tockport	View St. Ann's Hospice																																
ameside & Glossop ommunity lymphoedema ervice	·											2 clinic locations																			H	lealth professionals	T&GICFT central booking system
/illow Wood																															N	lo referrals	
rafford	View St. Ann's Hospice																																
/igan & Leigh												1 Clinic location	1																		s	peciality nurses, DN,G	Pemail based referrals
lulti Location																																	
t Ann's Hospice												2 Clinic locations																			p p s b	reviously known to the ervice can self refer ack following discharg	Self referral from patients by telephone healthcare profession using the St Ann's le Hospice referral form available on it's webs
lulti location - cancer related																																	
hristie		satellite (1			satellite (1	Oldham '		d Satellite (*																							p F		Referral form on Chri Intranet or Clinical Letter. Accept from p or nhs.net emails onl
IFT Nightingale								ancer Patient	only								Breast only	/														GP ,Consultant, CNS	

Go back to pathway











Palliative Care/End of Life Guidance

Below are key steps to support a patient with chronic oedema

Approach	Date	
	Yes	No
1. Patient, carers and all staff should be made aware to avoid oedematour area for injections, venepuncture, subcutaneous infusions or applying blood-pressure cuff to prevent exacerbation of swelling and to reduce risk infection		
2. Following guidelines on skin care with the aim of keeping skin intact and supple		
3. Inform patient and carer in daily skin care. Skin care to be carried out by staff if patient/carer unable to		
4. Observe oedematous skin daily for signs of infection. If skin becomes hot, red or blistered, following your guidelines for the management of cellulitis guidelines		
5. Observe for lymphorrheoa, which is leakage of lymph fluid. Apply palliative bandaging to protect the skin, to prevent infection and to improve the patient's comfort		
6. Enable patients to exercise oedematour limb daily with the aim to use muscles, to activiate muscle pump and to maintain flexibility in joints. Staff to carry out assisted or passive movements if patient is unable		
7. If patient wears an elasticated support garment, check daily that it is clean, comforatble and fits well. If patients comfort is not maintained or improved by the above interventions, or if the patient has complex needs assist patient daily to apply compression garment and to remove at night.		
8. If require, refer to lymphoedema practitioner to review patient		

This list has been produced by St. Ann's Hospice

Go back to pathway











Wounds and Wet Leg (lymphorrheoa)



Chronic Oedema 'Wet Leg' (Lymphorrhoea) Care Plan

Appendix 3

Lymphoedema Network

				wales I .					
PATIENT NAME:		DATE OF BIRTH:	DISTRICT NURSE CONTACT:	DATE:					
LEVEL 1 SUPPORT BANDAGING	GOAL	INSTRUCTIONS	PHOTOGRAPHS						
One layer of blue/yellow line tubular stockinette 3 rolls of wool padding One layer of blue/yellow line tubular stockinette	Stop leaking Provide comfort and support Reduce oedema	Wash leg in emollient/ointr cream Apply wound dressings as One layer of blue/yellow lir 3 rolls of wool padding One layer of blue/yellow lir A DOPPLER IS NOT REQUIF							
LEVEL 2 SUPPORT BANDAGING	GOAL	INSTRUCTIONS		PHOTOGRAPHS					
One layer of blue/yellow line tubular stockinette 3 rolls of wool padding One layer of blue/yellow line tubular stockinette One Actico or short stretch 10cm x 6m	Stop leaking Provide comfort and support Reduce oedema	As above then Apply Short Stretch Band application from the base overlap and stretch up to Apply toe bandages if toe 'Lymphoedema/Chronic COr consider using toe cap A DOPPLER IS NOT REQUIF							
LEVEL 3 COMPRESSION	GOAL	INSTRUCTIONS		PHOTOGRAPHS					
One layer of blue/yellow line tubular stockinette 3 rolls of wool padding One layer of blue/yellow line tubular stockinette Two layers of Actico or short stretch 10cm x 6m	Stop leaking Provide comfort and support Reduce oedema	width) at full stretch in a base of the toes up the le Apply toe bandages if toe 'Lymphoedema/Chronic (Or consider using toe cap	IS COMPLETED PRIOR TO						

*REFER TO LOCAL LYMPHOEDEMA SERVICE FOR ONGOING ADVICE AND SUPPORT

The Chronic Oedema 'Wet Leg' (Lymphorrhoea) Pathway

FINAL v1.2 02/05/17 12













Lymphoedema/Chronic Oedema Toe Bandaging Care Plan



PATIENT NAME:		DATE OF BIRTH:	THERAPIST NAME:	DATE:
PROBLEM	GOAL	INSTRUCTIONS		PHOTOGRAPHS
	To manage toe oedema Or To prevent toe oedema	Wash leg in emollient/ointmen cream Apply 4cm bandage and anch base of the forefoot. This ban BANDAGES TYPES: HOSPI K-BAND	or with a loose turn around the dage may be folded in half.	cover big toe
ADDITIONAL INFORMATION	To apply toe bandages	toe, wrap around the base of t While applying the bandage to	the toe nail as shown. Do not	
		See appropriate treatment pla Lymphoedema Bandaging if re ulcer management as directed Nurse/District Nurse.	equired or follow care plan for leg	

**REFER TO LOCAL LYMPHOEDEMA SERVICE FOR ONGOING ADVICE AND SUPPORT

The Chronic Oedema 'Wet Leg' (Lymphorrhoea) Pathway

FINAL v1.2 02/05/17 13

Go back to Pathway

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