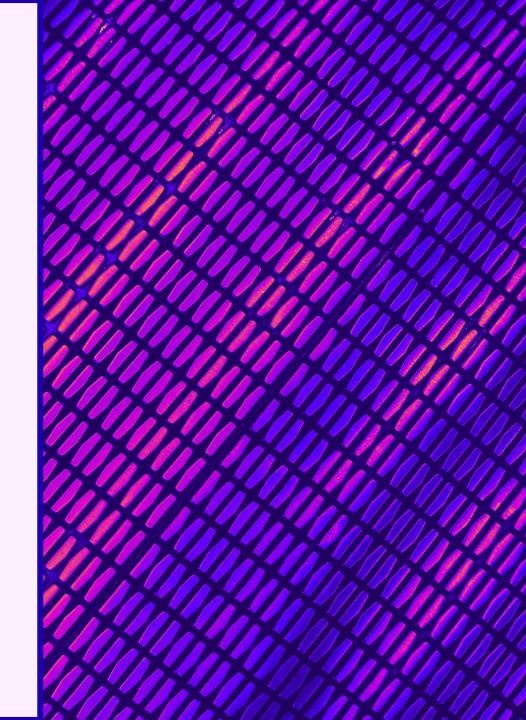
Painful Legs When its not Polyneuropathy or PVD

Carmen Baker, MD, FRCPC PMR, MSc Kinesiology MAHC Grand Rounds October 1, 2025

Conflicts & Declarations

- There are unfortunately very few interventions specific to lipedema management.
 - Therefore, most interventions discussed are 'off-label' or suggested at the Level C or Expert Consensus level.
 - Please consider this when prescribing or suggesting interventions for your patients.

 I have no other conflicts of interest to declare.

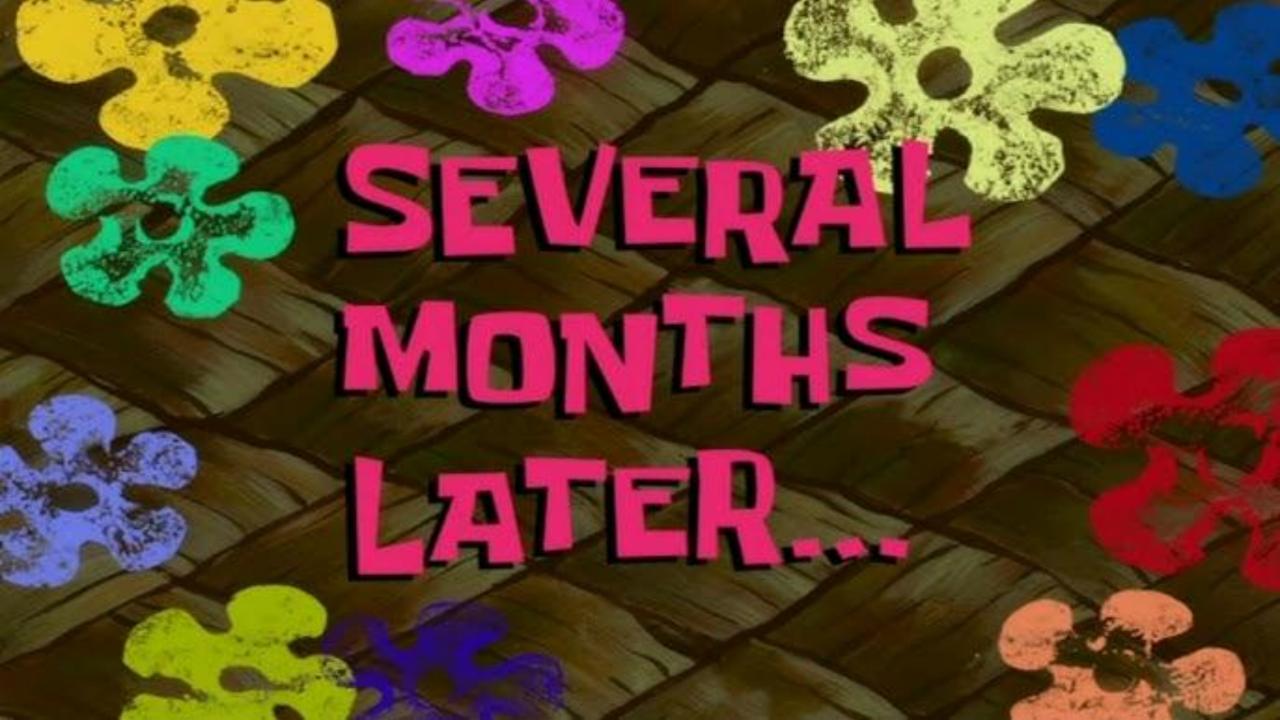


Objectives

- 1. Define lipedema and explore the phenotype to help improve diagnostic accuracy.
- 2. Understand how lipedema diagnoses differs from other common presentations of leg pain.
- 3. Consider management strategies available in our region, and available opportunities for more targeted therapies.

• 52F referred for bilateral lower limb pain and dysfunction, query polyneuropathy.

- PMH (per PCP): HTN
- Blood work sent:
 - A1c 5.8%
 - B12, TSH, kidney function, liver function, CRP all WNL



- Bilateral leg pain with ambulation and at rest (no real difference)
- Has progressed from just lower legs to now include thighs.
 - Did not start with feet they're relatively normal.
- Pain limits function: Difficulty being active due to a feeling of 'fatigue', 'heaviness' and overall discomfort.
- Denies paresthesias, no balance concerns.
- LBP but no radicular features.
- Negative grocery cart sign, no subjective weakness.

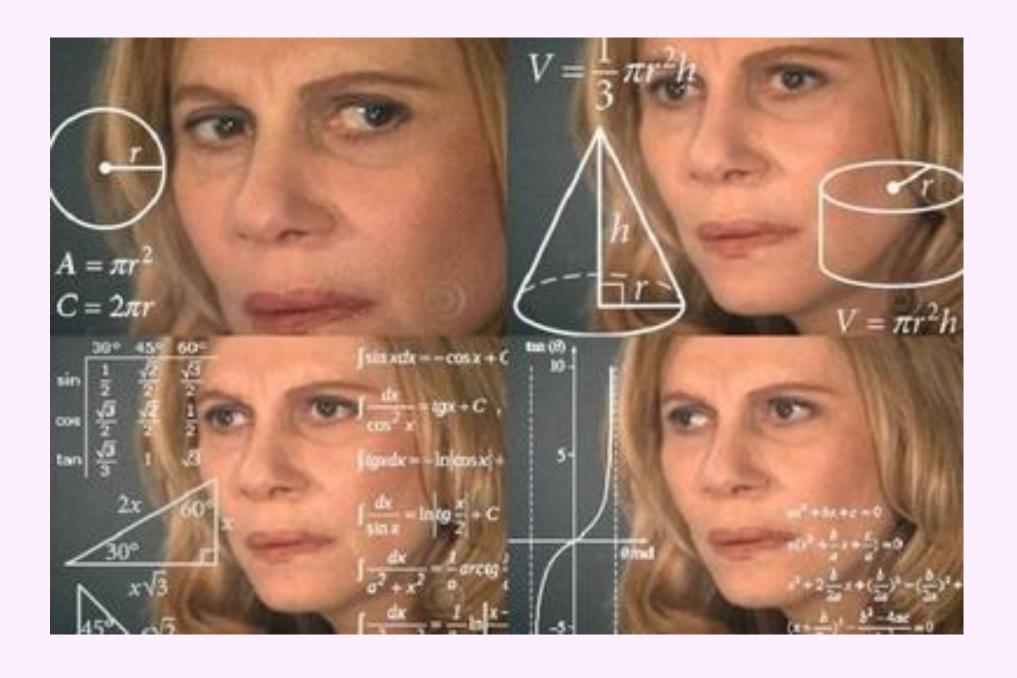
TLDR
no neuro features,
no evidence of
PAD/PVD



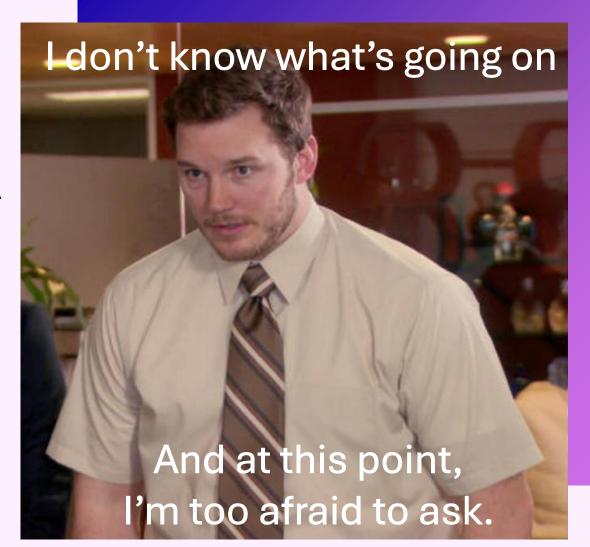
On Exam:

- Inspection: large lower body habitus, spider nevus. Few, small bruises. Genu valgum, pes planus.
- Normal gait, normal balance (including tandem)
- Normal tone and power in all myotomes.
- Reflexes 2+ symmetric throughout, including Achilles'. Babinski down.
- Tenderness to palpation of legs, non-length-dependent, non-dermatomal or peripheral nerve distribution.
- Hyperalgesia/ Allodynia throughout legs, non-length-dependent, non-dermatomal.
- No appreciable pitting edema, PPP.
- Beighton Score: 7

- Nerve Conduction Studies [Normal]
 - Sural amplitude 6.0uV, superficial peroneal 3.5uV with normal latencies; EDB and AHB normal without slowing.
 - Sural to radial ratio >0.4 [normal]



Opted to treat her bilateral knee OA
Pain improved "maybe 20%"



Lipedema

"a chronic incurable condition involving a pathological build-up of adipose tissue" (Allen & Hines, 1940)

≠ adiposis dolorosa (aka Dercum's)





Why Should We Care?

Prevalence estimates suggest 6-8% of all women 15-19% of women in vascular clinics

AVOID SECONDARY COMPLICATIONS

DISEASE SPECIFIC MANAGEMENT

EMPOWER
PATIENTS
(SELF-DIRECTED CARE)

History

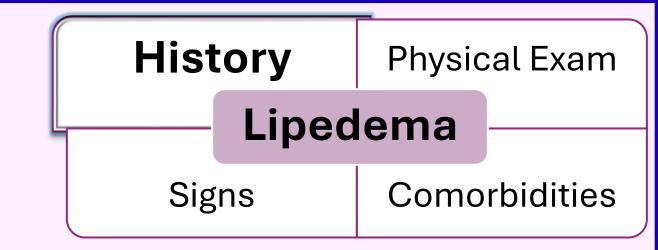
Physical Exam

Lipedema

Signs

Comorbidities

- Begins with hormonal change
 - Puberty
 - OCP use
 - Pregnancy
 - Menopause
- Female >>>> Male
- Insidious tissue enlargement, symmetric.
 - Legs more often than arms.
 - Depending on guideline can or cannot include abdomen.
- Difficulty losing weight ('not responsive to dieting')
- Affected family members.
- Hyperlaxity



History

Physical Exam

Lipedema

Signs

Comorbidities





- Pain, hypersensitivity/ tenderness to touch or pressure.
- Easy Bruising, vascular fragility.
- · Skin is 'cool to touch'
- Persistent enlargement of segment despite elevation.
- Spares the feet/ hands.
- May include or be *isolated to* the upper limb segments.

History

Physical Exam

Lipedema

Signs

Comorbidities

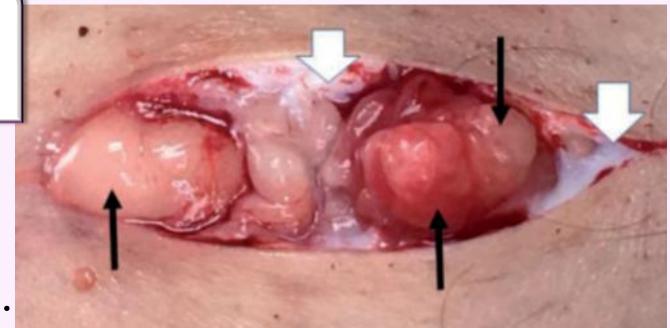
- Typically "columnar"
 - Affects the segment and limb
- May be "lobar"
 - Bulges of fat in more focal areas.



History Exam
Lipedema
Signs Comorbidities

- Disproportionately increased loose adipose tissue on limbs.
- Symmetric
- Palpable nodules
- Tender to palpation
- No excess adiposity or nodularity on hands/ feet
- Cutaneous hypothermia, livedo reticularis.

Pitting edema and central adiposity may or may not be present



History Physical Exam

Lipedema

Signs Comorbidities

- Lymphedema
- Obesity
- Vascular disease
- Skin breakdown
- Osteoarthritis, joint misalignment.
- Depression, anxiety, eating disorders



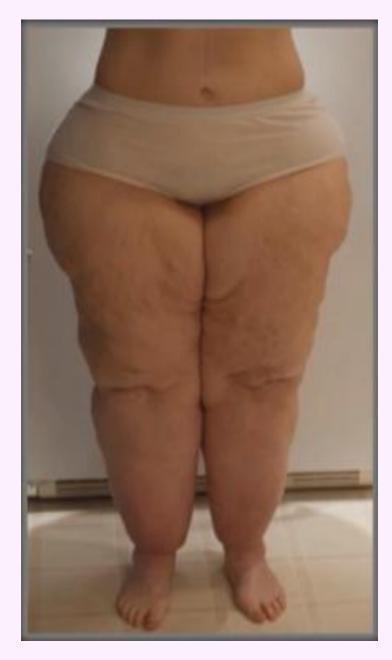
	Lipedema	Lymphedema	Venous Insufficiency	Fibromyalgia
Symmetry	Yes	Often no	Yes	Atypical
First location of discomfort	Anterior shank Thighs, Buttock	Distal or n/a	None	Anywhere, Migratory
Edema Exam	Non-specific	Stemmer's Sign	Pitting	No
Skin Changes	Easy bruising Nodules Soft/ loose skin	Discolouration Sclerosis (thick, tight)	Varicosities Hyperpigmentation Ulceration	Normal
			Consistency normal	
Effect of Limb Elevation	None	Effective early	Effective	None
Hx of Cellulitis	No	Often	Yes	No

This is NOT Obesity



Sparing of the foot

Sparing of the Trunk



Lipedema Overview & Physical Exam by Dr Dean 23 obtained from https://www.youtube.com/watch?v=3FEfVCMK0gk

This is NOT Obesity



Malleolar "Fat Pad Sign" Lateral > Medial

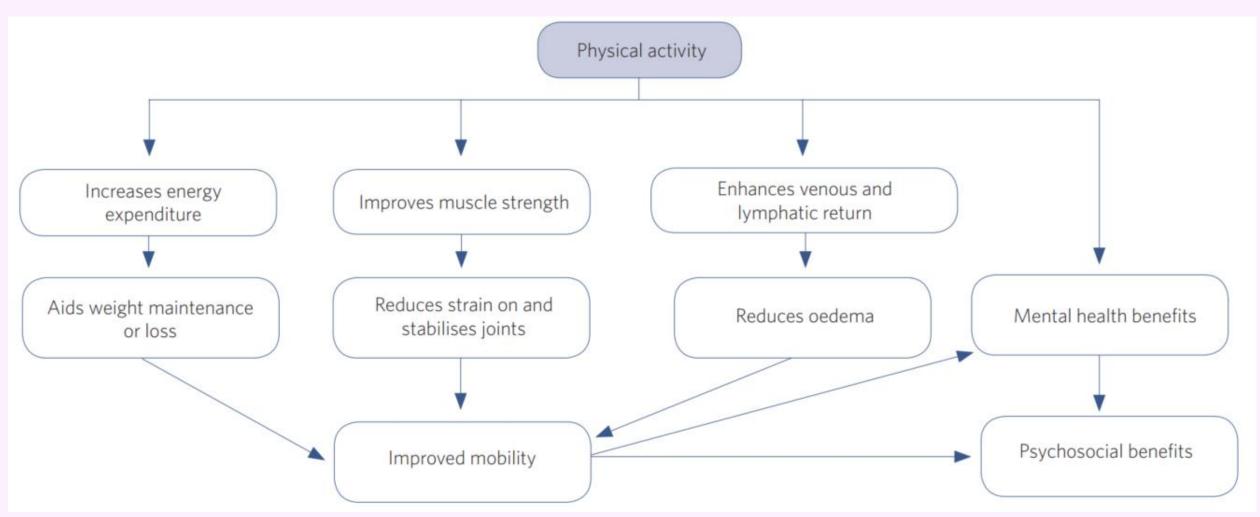
Fat filling in the retromalleolar space

Lipedema Overview & Physical Exam by Dr Dean 23 obtained from https://www.youtube.com/watch?v=3FEfVCMK0gk



- No cure.
- Education → self-management
 - Lipedema is **not** a factor of obesity, poor diet or poor fitness. It is genetically driven.
 - Lipedema is commonly comorbid with obesity, mood and eating disorders.
 - We don't know who's the chicken and who is the egg.
 - Diet: This type of fat is typically not amenable to weight loss attempts.
 - There is moderate level evidence for 'low inflammatory diets' (Keto, Mediterranean)
 - Yo-yo dieting has been found to increase pain associated with lipedema.

- Self-Management
 - Stress management
 - Online support groups, peer support.
 - Psychotherapy
 - Physical activity
 - Compress simultaneously
 - Aquatic-based
 - Consider low impact to reduce bruising risk
 - Planning/ Pacing
 - Compression
 - Desensitization progressive increases in physical demand, compression.
 - Avoiding weight gain



WoundsUK

- Workup
 - Mental Health assessment (regular), treat PRN
 - Consider workup for thyroid disease, DLD, PCOS, vitamin D level.
 - ABI and vascular studies allows for highest tolerable compression prescription.
- Avoid Complications/ secondary risks
 - Avoid medications that induce peripheral edema or weight gain.
 - Consider skin management
- Referral to Allied Health Providers
 - Compression: stockings (consider co-prescribing donning/ doffing aids)
 - Physiotherapy & Massage therapy:
 - Soft tissue mobilization, desensitization, lymphatic flow, reduce fibrotic restrictions.
 - Address gait abnormalities, weakness, return to function.
 - Pneumatic compression devices
 - Manual Lymphatic Drainage

• What else can I do to be useful?

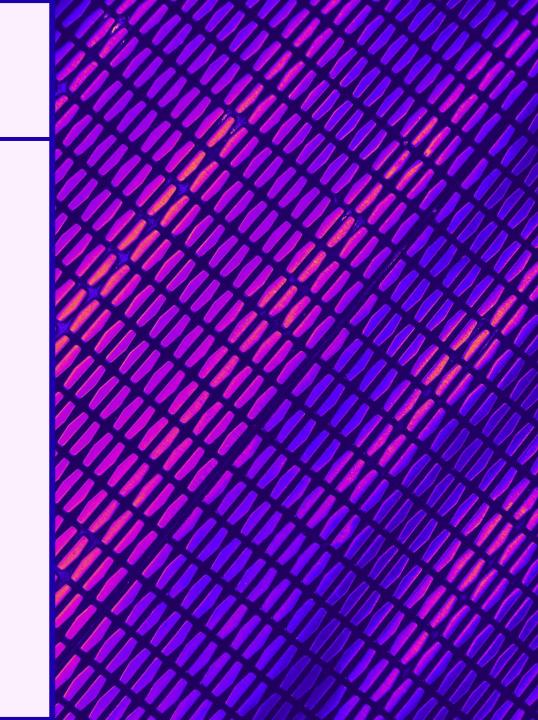
Not Helpful	Maybe?	Yes!	
Diuretics	Metformin	Liposuction* lipedemacanada.org	
	Semaglutide		
	Diosmin-Hesperidin		
	Bariatric Surgery		

Measuring Meaningful Gains

- Weight-Based
 - Waist-to-hip ratio
 - Limb circumferences (always at the same spot!)
 - Lower extremity volume (difficult)
 - These patients will have disproportionately high BMI.
- Functional
 - Visual Analogue Scale pain, pain interference
 - Lower Extremity Functional Scale (LEFS)
 - SF-36 (quality of life questionnaire)

Take Home Messages

- 1. Lipedema is very common in women.
- 2. Diagnosis is clinical helpful to rule out mimickers (PAD, PVD, hypothyroid)
- 3. Early identification and education can help mitigate secondary complications.
- 4. Management is specific and differs from strategies for neuropathy and fibromyalgia.



Resources

https://lipedemacanada.org/

- Clinician information, who to refer to!
- Patient information self management, etc...
- Can order handouts for the office

https://bclymph.org/lipidema

YouTube: Fat Disorders Resource Society

- Self-management videos (i.e. how to perform Self Manual Lymphatic Drainage, Lymphatic Yoga)
- Education (clinician level)

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Thank you!

