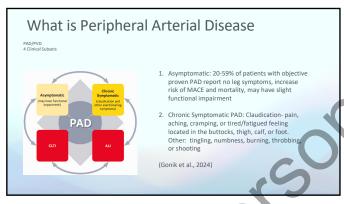
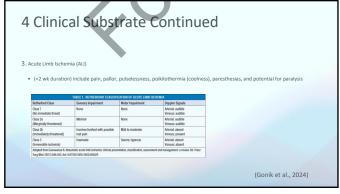
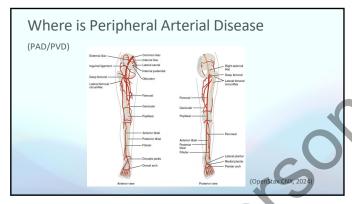
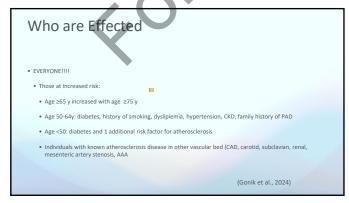
Peripheral Arterial Disease An Epidemic of Poverty and Race	
Tiffany Staab MSN-FNP	





4 Clinic	cal Substrate Conf	tinued			
Chronic Lir	mb Threatening Ischemia				
pres • Res • Esti	ifests as ischemic rest pain, nonhea- eent for >2 wk ponsible for most major and minor a mated 1-year mortality rate of 25-35 aduced risk of above when CLTI pai	amputations related 3% and 1-year amp tients undergo reva	to PAD utation rate scularizatio	up to 30% n	otoms
Toble 1	Table 3 Fontaine classification of peripheral acterial disease arounity, asserting asserting the peripheral acterial disease arounity, asserting the asserting asserti				
Grade	Patient presentation	Same	Major amoutation risk at	Revascularisation	
1	Asamptometic		1 year (estimated %)	benefit score	
a a	Intermittent claudication	1	2-1	Very low	
lla lla	Fain with walking more than 200 m	2	8-9	Low	
IIb	Pain with walking less than 200 m	3	25	Moderate	
a a	Rest/noctumal pain	4	50	High	
IV.	Necrosis and gangrene		hows the clinical stages calculated from the		
	(Gonik	et al., 2024)			



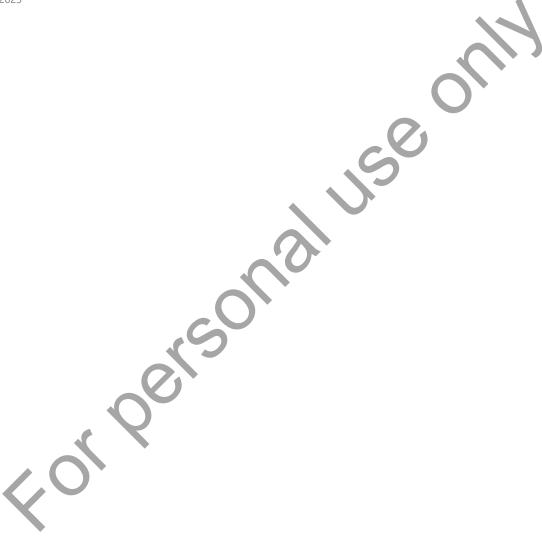


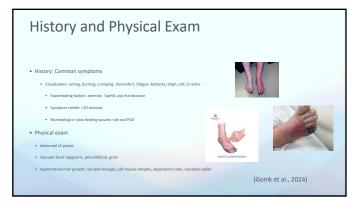
TS1 Diabetes is associated with a greater risk of lower extremity amputation.

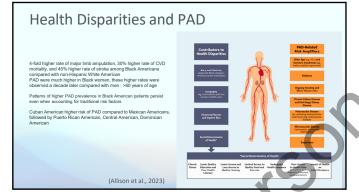
The 5-y mortality rate with active smoking and chronic symptomatic PAD is 40%–50%.

80-90% revascularized for severe limb symptoms are current smokers.

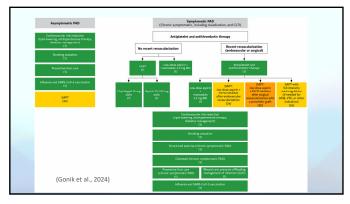
Tiffany Staab, 1/24/2025

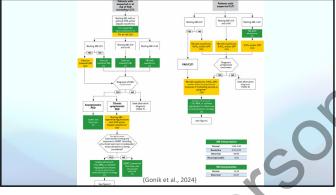


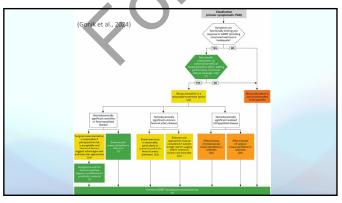


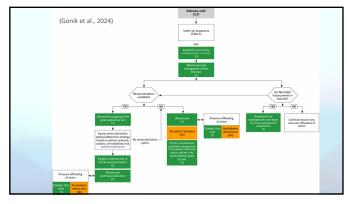


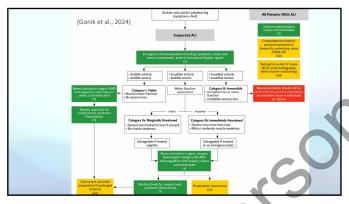










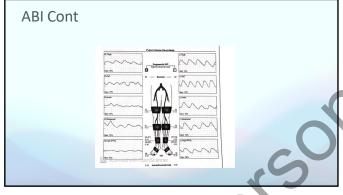


14

Case Study

- 65 year old white male, with history of Type II DM, Hypertension, Hyperlipidemia. Smoking history: 40
 pack year quit 2020. Notes sharp pain in bilateral lower extremities R>L with burning on a 45 minute
 walk, noting he has to stop 200 yards for <5 min to recover, then continues to walk.
- $\bullet \ \ \mathsf{PE: no \ wounds, limited \ hair \ growth \ in \ bilateral \ ankles, posterior \ tibial \ pulses + 1 \ bilaterally}$
- VS: BP: 145/80, HR 67. Lipid panel: TC 200, TG 180, LDL: 90, HDL: 56, Hgb A1c 8.0, BUN: 20 Creatinine: 0.8
- Medication: Rosuvastatin 10mg, metformin 1000mg BID, Losartan 25mg daily

ABI	
	clusions
1	Resting ABI of the right lower extremity 0.54 (moderate PAD) and the right lower extremity 0.82 (mild
2	PAD). Post walking ABI dropped to 0.16 and 0.36 suggest significant arterial occlusive disease worse on the right.
3.	. Abnormal TBI bilaterally.
4.	Patient complained of left calf tightness at 1 minute and 10 seconds 43 yd maximum walking distance 124 yd.
5.	Pulse wave and pressure gradient suggest significant arterial occlusive disease bilaterally worse on the right.
Find	ings
Right:	Resting Index: ABI (PT)- 0.54 ABI (DP)- 0.46 TBI- 0.61
	exercise ABI: 0.16
	Resting Index: ABI (PT)- 0.82 ABI (DP)- 0.63 TBI- 0.78
uart a	WORKER AND 11 JE





PAD walking program

- Similar to cardiac rehab, specific to walking and PAD management.
- Intermittent walking to mild-moderate pain, required to improve inflammation, improved muscle strength, increased calf blood flow.
- 30-45 min, interval training and walking. 2-3x week for 12-16 weeks.
- Goal is 30-45 min of uninterrupted movement.
- Covered by medicare and most commercial insurances



(Gonik et al., 2024)

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ART Assist Device

- Arterial intermittent pneumatic compression device
- Chronic PAD individuals whom revascularization is not an option
- Assist with wound healing and relieve ischemic rest pain





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Citations

- ACI Medical LLC. (2025). ArtAssist Arterial Pump Technology. https://acimedical.wordpress.com/artassist/
- Allison, M.A., Armstrong, D.G., Goodney, P.P., Hamburg, N.M., Kirksey, L., Lancaster, K.J., ... Solaru, K. (2023). Health disparities in peripheral artery disease: A scientific statement from the American heart association. APA/ASA Journal, 148(3). https://doi.org/10.116/JCR.0000000000001153
- Gornik, H.L., Aronow, H.D., Goodney, P.P., Arya, S., Brewster, L.P., Chandra, V., ... Wilkins, L.R. (2024). 2024
 ACC/AHA/AACVPR/APMA/ABC/SCA/I/SVM/SVM/SIR/VESS guideline for management of lower extremity
 peripheral artery dosease. A report of the American college of cardiology? American heart association joint
 committee on dirical practice guidelines. *Journal of the American College of Cardiology*, 83(24), 2497-2604.
 https://doi.org/10.1016/j.icar.2026.02.033
- OpenStax CNX. (2024) Circulatory pathways. Anatomy and Physiology. http://cnx.org/contents/14fb4ad7-39a1-4eee-ab6e-3ef2482e3e22@8.25

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