



**4<sup>TH</sup>** DAILY CARDIOLOGY  
**SYMPOSIUM**

CONCISE, PRECISE, PRACTICAL

# **A Race of Blood and Heart!**

## **The Role of Pulse Wave Velocity in Cardiovascular Risk Evaluation**

### Learning Objectives and Case



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## Learning Objectives

- Understanding the Basics of PWV
- Interpretation of PWV values
- The Role of PWV in Cardiovascular Risk Stratification
- Guideline Recommendations for the Use of PWV in Clinical Practice
- Limitations of PWV

## Case

- 47 Y/O gentleman, engineer
- PMH: Some High BP reading in the past 2 years, non-smoker
- DH: denied to use medications
- FH: unremarkable
- The patient has an active lifestyle and goes for a 1-hour quick walk every day.
- Ph/E:
  - BP: 131/88, HR: 74bpm, BMI: 22, otherwise unremarkable
- ECG: NSR

## Case

- Recent Lab:
  - FPG: 108 mg/dL, HbA1c: 5.6%, TC=220 mg/dL, LDL=135 mg/dL, HDL= 30 mg/dL, TG= 275 mg/dL
  - CBC, LFT, Cr, Electrolytes: NL
- Carotid-femoral Pulse Wave Velocity Assessment is performed for risk stratification in this patient which is found to be 13.3 m/s.

**What is the interpretation of this PWV assessment?**

**Thank you for your attention**



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