

IDENTIFYING PATIENTS WITH CORONARY MICROVASCULAR DYSFUNCTION (CMD)



- 40-60% of all elective patients undergoing angiography suffer from ischemia and no obstructive coronary artery disease (**INOCA**).^{1,2} Half of this patient population may have angina due to Coronary Microvascular Dysfunction (CMD).³
- Angina **post-PCI** occurs in 20-30% of patients at 1-year and may be caused by CMD.⁴
- CMD predominately affects women, having been detected in up to 50% of women presenting with chest pain. A definitive diagnosis is critical as women with this condition are at an increased risk of cardiovascular events in the future.^{5,6}



Patients suffering from CMD may include⁷:

- Patients suffering from angina whose coronary arteries appear clear under angiography
- Patients suffering from angina post-PCI
- Patients with a negative stress test but suffering from angina
- Patients presenting to the ER with chronic angina
- Female patients suffering from angina

Other symptoms of CMD^{8,9}:

- Chest pain, squeezing or discomfort (angina), which may worsen during daily activities and times of stress
- Discomfort in the left arm, jaw, neck, back or abdomen associated with chest pain
- Shortness of breath
- Tiredness and lack of energy

1. Patel M, et al. (2010). Low diagnostic yield of elective coronary angiography. *The New England Journal of Medicine*. 2010; 363; 498. 2. Maas A, et al. Microvascular angina: diagnosis, assessment, and treatment. *EMJ Int Cardiol*. 2019; 7[Suppl 1]2-17. 3. Marinescu MA, et al. Coronary microvascular dysfunction and microvascular angina: a systematic review of therapies. *JACC Cardiovasc Imaging*. 2015;8:210-220. 4. Jeremias et al. DEFINE PCI. ACC 2019. 5. Kuruvilla S, et al. (2013). Coronary microvascular dysfunction in women: an overview of diagnostic strategies. Expert review of cardiovascular therapy, 11(11), 1515-1525. 6. Garcia M, et al. (2016). Cardiovascular Disease in Women: Clinical Perspectives. *Circulation research*, 118(8), 1273-1293. 7. Kunadian V, et al. EAPCI Expert Consensus. *Eur Heart J* 2020;0:1-21. 8. Mayo Clinic. "Small vessel disease" article accessed on 4/05/2022 at: <https://www.mayoclinic.org/diseases-conditions/small-vessel-disease/symptoms-causes/syc-20352117> 9. Taqueti VR, et al. Coronary microvascular disease pathogenic mechanisms and therapeutic options: JACC state-of-the-art review. *J Am Coll Cardiol*. 2018;72:2625-2641.

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