

Transthyretin amyloid cardiomyopathy (ATTR-CM)



DO YOU HAVE THESE PATIENTS IN YOUR PRACTICE



SUSPECTING ATTR-CM IS IMPORTANT BECAUSE:

- ⚠ The diagnosis of ATTR-CM is often delayed or missed^{1,2}
- ⚠ It is a rare condition that is a potentially fatal cause of heart failure and other cardiovascular manifestations¹
- ⚠ Patients with ATTR-CM have 2-6 years of life expectancy post-diagnosis²

**WHAT ARE THE “RED FLAGS”
FOR ATTR-CM?**

**LEARN MORE ABOUT
HOW TO SUSPECT ATTR-CM**

LEARN TO RECOGNIZE THE “RED FLAG” SYMPTOMS OF **ATTR-CM**



NEW ONSET HEART FAILURE + ≥ 1 OF THE FOLLOWING:^{1,3}



Unexplained increase in LV wall thickness
Low-flow, low-gradient aortic stenosis with
preserved LVEF (in patients >60 years old)



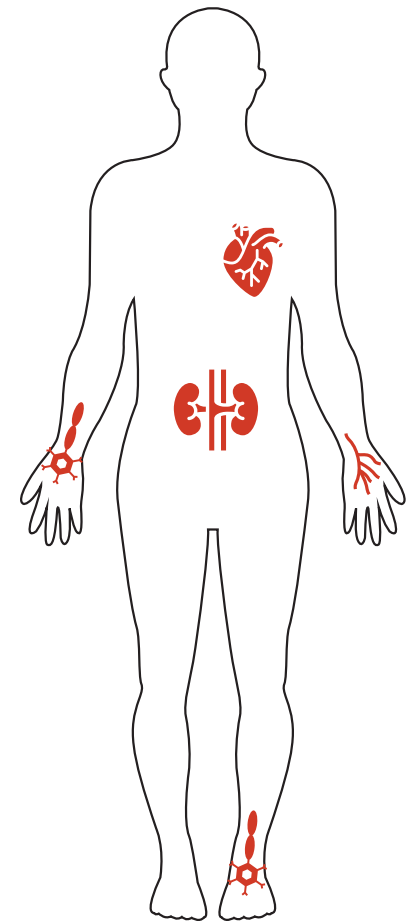
Carpal tunnel syndrome (bilateral)



Established AL or ATTR in non-cardiac organ/system



Peripheral sensorimotor neuropathy and/or dysautonomia





DOES JIM REMIND YOU OF ANYONE IN YOUR PRACTICE?

JIM, 63 YEARS OLD



**AT WHAT POINT IN JIM'S
JOURNEY WOULD YOU HAVE
ENCOUNTERED HIM?**

3 YEARS AGO

- Presented at the emergency room with dyspnea at rest and diagnosed with symmetric hypertrophic cardiomyopathy
- Chest x-ray shows discrete increase in left atrium and left ventricle
- History of mild hypertension and bilateral carpal tunnel release
- BNP 800 pg/mL



**Have you seen patients with
bilateral carpal tunnel
syndrome in your practice?**



**Would you have explored the
results of the chest x-ray further?**

2 YEARS AGO

- ECG shows low voltage in limb leads and repolarization changes
- Echo shows thickened LV septum and posterior wall and enlarged left atrium
- HFpEF



**Does the discordance
between QRS voltage and
left ventricle wall thickness
lead you to suspect
anything with Jim?**

1 YEAR AGO

Cardiac magnetic resonance shows diffuse circumferential global sub-endocardial and transmural late gadolinium enhancement and LV increase

TODAY

Serial echocardiography demonstrates:

- Progressive LV wall thickening
- Systolic dysfunction
- Left atrial enlargement
- Pulmonary hypertension

BNP = brain natriuretic peptide; ECG = electrocardiogram;
HFpEF = heart failure with preserved ejection fraction; LV = left ventricular





DOES BOB REMIND YOU OF ANYONE IN YOUR PRACTICE?

BOB, 68 YEARS OLD



**AT WHAT POINT IN BOB'S
JOURNEY WOULD YOU HAVE
ENCOUNTERED HIM?**

15 YEARS AGO

- Classic angina symptoms
- Stress test indicated ischemia
- Coronary angiography showed high-grade left anterior descending coronary artery stenosis
- Stent implantation
- Diagnosed with HF

3 YEARS AGO

- Presented to emergency room with worsening HF symptoms and had urgent coronary angiography due to elevated troponin
- Coronary angiography, patent stent; no significant stenosis of other arteries
- Gradually progressing HFpEF
- Normal renal function



Because of Bob's medical history and heart failure symptoms, is there anything you suspect?

OVER THE LAST 3 YEARS

- Creatinine levels have started to rise and troponin levels persistently elevated
- Despite treatment, his HFpEF has continued to worsen



What would you consider to be the appropriate number of adjustments to Bob's HF medication before you suspect something else?

6 MONTHS AGO

- ECG shows first-degree atrioventricular block, non-specific ST-T changes and delayed precordial R wave progression
- Echo shows mild LV hypertrophy with interventricular septal end diastole wall thickness of 13 mm, moderate diastolic dysfunction and left atrial enlargement





DOES LILLIAN REMIND YOU OF ANYONE IN YOUR PRACTICE?

LILLIAN, 84 YEARS OLD



AT WHAT POINT IN LILLIAN'S JOURNEY WOULD YOU HAVE ENCOUNTERED HER?

5 YEARS AGO

- Biceps tendon rupture



How often do you encounter patients with this in your clinical practice?

3 YEARS AGO

- Complains of relatively frequent diarrhea and weight loss
- Has developed numbness in her lower limbs



Would you do any investigations at this point?

6 MONTHS AGO

- Multiple hospitalizations in the past 6 months due to recurrent cardiac decompensations
- New York Heart Association (NYHA) Class III HF
- Atrial fibrillation
- Referred for aortic stenosis assessment; no significant coronary artery stenosis found

TODAY

- Increased troponin T, BNP and NT-proBNP
- Cardiac magnetic resonance shows diffuse sub-endocardial late gadolinium enhancement pattern and increased LV wall thickness



Do the results from today's exam raise any red flags issues for you?



ATTR-CM

SUSPECT & DETECT

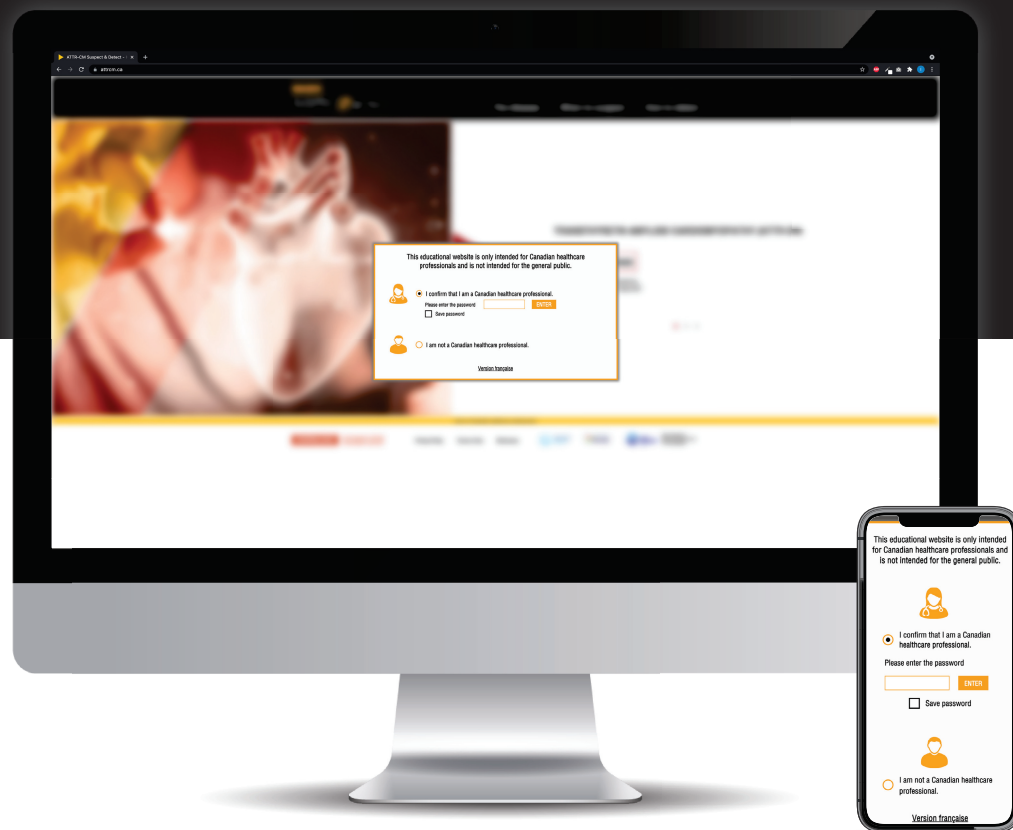
Key investigational steps

BE READY TO SUSPECT ATTR-CM

VISIT ►

WWW.ATTRCM.CA

PASSWORD: ATTRCM



References:

1. Fine NM *et al.* Canadian Cardiovascular Society/Canadian Heart Failure Society joint position statement on the evaluation and management of patients with cardiac amyloidosis. *Can J Cardiol* 2020;36:322-34.
2. Maurer MS *et al.* Expert consensus recommendations for the suspicion and diagnosis of transthyretin cardiac amyloidosis. *Circ Heart Fail* 2019;12:e006075.
3. Canadian Cardiovascular Society. Cardiac amyloidosis infographic. Accessed May 21, 2021.



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