



ANATOMIC TESTS FOR ATHEROSCLEROSIS

Low-radiation, gated CT scan Non-contrast Measures coronary Ca content Score = plaque area x density	What	Gated CT scan With IV contrast Characterizes degree of stenosis and plaque morphology
Asymptomatic Intermediate risk (5-20% ASCVD risk) Low risk + inflammatory conditions or FHx of premature CVD Uncertain about benefit of statins	Who	Symptoms of possible coronary ischemia Low to intermediate risk angina Low to intermediate risk ACS In place of or complementary to functional tests in stable CAD
$CAC = 0 \implies "Power of zero": no statins, repeat in 3-7 years$ $CAC < 100 \implies Low risk: lifestyle modificati$ $CAC = 100-400 \implies Intermediate risk: lifestyle + statins + aspirin$ $CAC > 400 \implies High risk: secondary preventioned = 100 + 100 + 100 + 1000$		Intermediate-risk lesions (<70% stenosis, <50% in left main) Prevention with lifestyle modifications & statins High-risk lesions (>70% stenosis) Catheterization, lifestyle modifications, & rehab
 Low radiation exposure Measures sub-clinical disease burder Independently predicts CVD events a 		Identifies patients with non- obstructive CAD Quantifies percent stenosis Information about vulnerable plaques and morphology

Cons

improves traditional risk prediction models

No information on non-calcified soft plaque or vulnerability of lesions

Identifies non-atherosclerotic coronary processes (i.e. anomalous coronaries, myocardial bridges, coronary aneurysms)

> Lower yield if older, obese, – prior stenting

Not performed if in arrhythmias –

Exposure to radiation and IV contrast -

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- Lower yield if older

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