

Atherosclerosis in the peripheral arteries is different from atherosclerosis in the coronary arteries: therapeutic implications

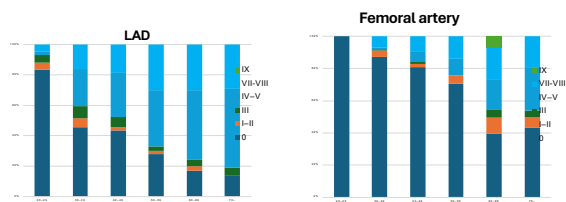
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No Disclosures

Comparison of coronary & femoral arteries by age

Atherosclerosis develops more slowly but with greater variety of lesions in femorals



Kawai et al ATVB 2024

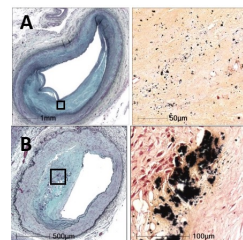
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- C More calcium content
- D More foam cells
- E more smooth muscle cells

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More fibrocalcific plaques

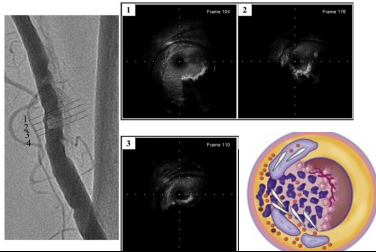


microcalcifications

sheet calcification

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Calcified nodules in the superficial femoral artery
IVUS images – the nidus for thrombosis



How common are calcified nodules
in diseased arteries?

60% femoral arteries
10% coronary arteries



Monkeberg's sclerosis – medial calcification



Lesser medial calcification below the knee



Hallmark lesion in peripheral arterial disease

Therapeutic implications of increased calcification in
peripheral atherosclerosis

Chelation therapy did not work
but
is this a scientific basis for lithotripsy?