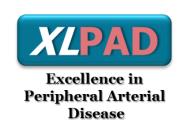
Question 2

A 27 year old man presents with left calf pain, which he first reported to his internist 16 weeks ago and has become life-style limiting in the last 2 weeks. He is an avid soccer player and skeletal X-rays of the leg were performed to exclude sports injuries (Figure 1). His physical examination was unremarkable, except for BP=158/90, presence of yellowish cutaneous papules around the neck and axillae that coalesced into a cobblestone appearance. Funduscopic occular examination revealed multiple cracks in Bruch's membrane or angioid streaks. All of the following are associated with this condition except:

- 1. Recessive inheritance of connective tissue primarily affecting the skin, retina, and cardiovascular system
- 2. Elastic fiber mineralization (extensive arterial calcification) and fragmentation
- 3. Significant association with tobacco use
- 4. The disease is strongly associated with the occurrence of mutations in the ABCC6 (ATP binding cassette family C member 6) gene, which encodes MRP6 (multidrug resistance-associated protein 6)
- 5. Systemic hypertension and gastrointestinal bleed



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