



COVID-19 Unmasking Coronary Artery Disease

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Abstract:

We report a case of coronary artery disease unmasked by COVID-19 in a 59 year old male patient who was admitted to medical HDU via emergency department primarily with COVID-19 pneumonia; developed chest pain on the third day of admission with EKG features consistent with infero-posterior ST-segment elevation MI. Troponin were significantly raised and bedside echocardiogram exhibited severely impaired LV systolic dysfunction with hypokinetic inferior and lateral walls. CT coronary angiogram revealed diffuse severe three-vessel coronary disease with very high plaque burden (CADRAD score 4b). Subsequent Cardiac MRI confirmed mid inferolateral LV non-viable infarct and evidence of focal myocarditis (LV apical lateral wall). This case reveals thrombogenicity of COVID-19. However it is more commonly associated with myopericarditis with EKG features mimicking ST-segment elevation MI, which exhibits the importance of further investigation to establish the diagnosis.

My case is interesting as this patient with no previous cardiac presentation had type 1 MI unmasked by COVID-19 with consecutive focal myocarditis.

Biography:

My name is Azhar Ali. I am a senior Clinical Fellow in Cardiology in Northampton General hospital. I have completed my MRCP(UK) and FCPS Cardiology(Pakistan) and currently working as a cardiology registrar with NHS.



Publication of speakers:

1. Ali, Azhar & Levantini, Elena & Tenen, Daniel & Wu, Chan-Shuo & Teo, Jun & Fhu, Chee & Chin, Tan & Clohessy, John & Goggi, Julian & Chen, Leilei. (2020). Theranostics_Ali_statin_supplementary.pdf.
2. Azhar Ali, Muhammad & Yamin, Muhammad & Arslan, Chaudhry & Farid, Muhammad & Awan, Abdul. (2020). A FEASIBILITY STUDY: OFF-GRID PHOTOVOLTAIC SOLAR POWER SUPPLY TO THE REMOTE AREAS OF PAKISTAN. Pakistan Journal of Agricultural Sciences. 57. 1313-1316. 10.21162/PAKJAS/20.468.
3. Prucher, Gian Marco. (2020). Elective Cancer Surgery in COVID-19-Free Surgical Pathways During the SARS-CoV-2 Pandemic: An International, Multicenter, Comparative Cohort Study.

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