PP40 UNTIMELY DEMISE: A CASE REPORT OF ACUTE ST ELEVATION MYOCARDIAL INFARCTION IN 7 -YEAR-OLD CHILD

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INTRODUCTION

ST elevation myocardial Acute infarction (STEMI) paediatric in populations especially without identifiable comorbid is rare, associated as time sensitive disease carrying high mortality rate. This poses a great challenge for clinicians especially in secondary hospital. Hereby illustrated a case of a previously healthy boy who presented with typical angina symptoms.

CASE DESCRIPTION

Mr AAR, 7 year old boy with no known comorbidity was rushed to emergency department (ED) after awoken up from sleep due to excruciating crushing type of chest pain. He denied any recent influenza like illness. Upon arrival, his vital signs are, blood pressure: 92/52, heart rate :120, temperature: 36.2, oxvgen saturation:99%. Cardiovascular examination shows normal heart sounds without displacement of apex beat. His are clear. Electrocardiograph lungs shows ST segment elevation over inferior leads (II, III and aVF) with reciprocal changes. Point of care ultrasound shows that patient has hypokinesia inferior wall with moderately depressed left ventricular function consistent with regional myocardial infarction. An urgent referral to National Heart Institute was made. Unfortunately, patient developed cardiopulmonary arrest and succumbed to death after 40 minutes of resuscitation. Postmortem findings show giant right coronary artery aneurysm with intraluminal thrombus.

DISCUSSION

Restoration of coronary blood flow to preserve myocardial function is critical in the management for this case. The two leading causes of STEMI in this population are congenital coronary abnormality and Kawasaki disease. The clinical dilemma of this case is that whether we should start the patient on recombinant tissues plasminogen activator (rtPA) without knowing the cause of such presentation. Lack of cardiac expertise in imaging or percutaneous coronary intervention (PCI)in our setting create an enormous challenge to make timely decision. There are guideline suggesting the use of rTPA if exceeding 90 minutes from PCI for those with established Kawasaki disease. The tradeoffs of bleeding vs coronary occlusion must be weighed in the choice of approach.

CONCLUSION

STEMI in paediatric resulted from diverse causes requiring different management approaches. The supporting evidence for undifferentiated cases remains limited and should be look into the future

KEYWORDS: STEMI, pediatrics, thrombolysis