Case Report

Appendicular abscess: as a masquerader and pheochromocytoma as an incidentaloma in a 12 year old male child

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ABSTRACT

A 12 year old boy presented initially with symptoms suggestive of urinary tract infection (UTI). Later, it turned out to be acute appendicitis with appendicular abscess. Pre-operative investigations revealed co-presentation of pheochromocytoma. Although this child was having no symptoms of pheochromocytoma, the presentation of pheochromocytoma with appendicular abscess needs to be dealt with extreme vigil as pheochromocytoma can result in severe sympathetic outburst storm. Laparoscopic appendicectomy was done and the child was discharged after complete recovery.

Keywords: Appendicitis, Appendicular abscess, Pheochromocytoma, Incidentaloma

INTRODUCTION

Appendicitis is a common surgical emergency in children. With a wide range of underlying causes and various clinical presentations, timely diagnosis can sometimes be a diagnostic challenge unless the child presents with classical symptoms of appendicitis. Appendicular abscess and appendicular perforation are likely complications of appendicitis.¹ Ultrasound abdomen is an important diagnostic tool in the diagnosis of appendicitis.² There are many instances for a diagnostic delay of appendicitis in children as there can be variegate and vague presentations and there are many instances of functional abdominal pain. Hence abdominal pain in children should be viewed with caution by the paediatrician and repeated physical examinations should be done and a surgical opinion should be taken when there is a diagnostic dilemma.³

Pheochromocytoma is a rare tumor of adrenal medulla, which is classified as a catecholamine producing neuroendocrine tumor. They can also be present anywhere in the abdomen, including pancreas. They can lead to a catastrophic presentation due to increased stimulation of the sympathetic system.⁴

There have been few instances where pheochromocytoma was found as an incidentaloma in children with pheochromocytoma, although such incidences are very rare. Such presentations can cause severe complications during intra-op including anaesthetic complications.⁵ There have been also instances where appendicectomy surgery was cancelled and the patient was managed conservatively with antibiotics and antihypertensive medications when a presentation of appendicitis with undiagnosed pheochromocytoma was detected.⁶

CASE REPORT

A 12 year old boy presented to pediatrics OPD with symptoms suggestive of pain during micturition, fever, and vague abdominal pain. Urine microscopy showed plenty of pus cells and urine culture was sent. He was asked to follow up after two days. He was given a course of antibiotics but symptoms persisted. The child developed...
right inguinal pain and on examination right iliac fossa tenderness, guarding and rigidity were found. Hence acute appendicitis was suspected. Pre-operative investigations were done. The ultrasonography (USG) of abdomen showed appendicular abscess and incidental pheochromocytoma. The child did not have any symptoms of pheochromocytoma. Pheochromocytoma can cause severe intra operative complications like hypertensive crisis and uncontrolled tachycardia. Hence contrast enhanced computed tomography (CECT) of abdomen was done for a better picture (Figure 1). Diagnosis of appendicular abscess with fecalith and incidental pheochromocytoma on the head of pancreas was confirmed. As it was a surgical emergency and the child was sick, laparoscopic appendicectomy was done (Figure 2). Purulent cavity with gangrenous sloughed out appendix and fecalith were seen. Hemostasis secured. Right flank drain placed in the abscess cavity. There was no intraoperative sympathetic crisis. The child was put on vancomycin and meropenam antibiotics for 10 days. In due course of hospital stay, the child symptomatically improved and hence discharged.

CONCLUSION

Pheochromocytoma can present as an incidentaloma in a surgical emergency in an asymptomatic child. Preparedness for a clinical challenge should occur when a previously undiagnosed, not treated, pheochromocytoma presents in a surgical emergency. A multidisciplinary team involving anaesthetists, experienced surgical team, and intensive paediatric unit is mandatory before taking up a case of acute appendicitis with incidental detection of pheochromocytoma.

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