A TRICHOBEZOAR DIAGNOSED BY ULTRASOUND

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Trichobezoar is rare and its diagnosis by ultrasound even rarer It results from eating hair, a type of pica, usually found in irresolute women below thirty. Traditionally its diagnosis has been made on barium meal examination. The case under review clinically presented as a big epigastric mass for which ultrasound was advised. Trichobezoar produces a very characteristic and diagnostic appearance on ultrasound and must be considered in the diagnostic workup of such a condition.

INTRODUCTION

A bezoar is a mass of foreign material in the stomach. The The Theorem 1 and 1

We present here an interesting case which was diagnosed by ultrasound and confirmed by barium meal.

CASE

A woman aged 30 years from Balakot, district Mansehra, was admitted in surgical unit of District Headquarter Hospital, Abbottabad, presented with large mass in epigastrium and vomiting of six months' duration. She was referred for ultrasound examination of the mass. Previous ultrasound examination at Mansehra had reported a complex mass without any comment on its origin.

Ultrasound study with a 3.5 Mhz linear probe revealed a large 10 cm highly reflective area with posterior acoustic shadowing to the left of the spine, rather close to the anterior abdominal wall. Fig. 1

Examination following drinking of two glasses of water confirmed the location. Change of position of the patient showed very' little movements of the mass.

A confident diagnosis of trichobezoar was given as

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As rest of the organs were found normal morphologically. Barium meal showed typical filling defect consistent with trichobezoar. (Fig. 2)

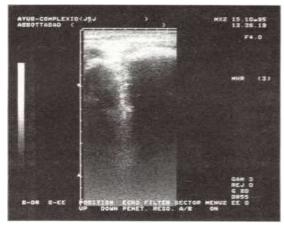


Fig. 1. Sonogram showing trichobezoar as echogenic area to the left of spine showing acoustic shadowing.

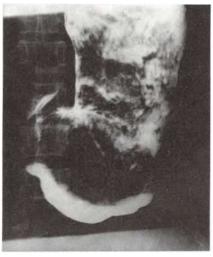


Fig. 2. Barium meal film displaying a large filling defect which showed a slight movement on change of position of the patient.

DISCUSSION

Trichobezoar results from trichophagia, almost exclusively found in females below thirty years of age. Majority of these patients have psychiatric problems.

Diagnosis of hair ball of the stomach has been fairly easy on barium meal that reveals a large, irregular, persistent filling defect. The condition rarely presents as abdominal mass³.

Ultrasound has penetrated the gut and is being used to diagnose the inflammatory and mass lesions ⁴. Trichobezoar displays a very characteristic appearance on ultrasound as a strongly echogenic area with acoustic shadowing. It may reveal slight movement on change in position. Ingestion of copious amounts of water is of much assistance in establishing the location in the stomach.

Trichobezoar is a serious surgical condition which may result in gastritis, haematemesis, perforation and peritonitis. It is also a rare cause of intestinal obstruction and inanition ⁵.

This case is of special interest because she was operated for perforation/peritonitis in February 1989 and hair ball was removed from the stomach ⁶. She again landed with epigastric mass in 1995 with a trichobezoar second time. Recurrent development of trichobezoar has also been reported by other authors^{7, 8}.

Thus basic cause needs to be rectified by psychotherapy and behavior therapy. Although surgery is mainstay in the treatment of trichobezoar, nonsurgical methods like lithotripsy have also been tried⁹.

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