Case Report

Gastric Outlet Obstruction by Trichobezoar, A Case Report

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Abstract:

A trichobezoar is a bezoar (a mass found tapped in the gastrointestinal system) formed from the ingestion of hair. Trichobezoars are often associated with trichotillomania (compulsive hair pulling). Trichobezoars are rare, but can be fatal if undetected¹,². Surgical intervention is often required. Gastric outlet obstruction (G.O.O) is one of the presenting complaints of trichobezoars in the stomach. Patients with this condition often have an underlying psychiatric illness & history may not be easily forthcoming. This condition mainly occurs in young female. We are presenting a case of gastric outlet obstruction in a young female of 25 years old. After taking history, clinical examination, necessary investigation it seemed to be a case of trichobezoar. Laparatomy done under general anaesthesia, then opened the stomach and found it was a case of trichobezoar.

Conflict of Interest: None

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Key Words:
G.O.O., Trichobezoar, Trichotillomania, Trichophagia

Introduction:

A bezoar is a mass of undigested material within the gastrointestinal tract (GIT). The term bezoar derives from Arabic word Badzehar, which means antidote. Trichobezoar is from Greek word which means hair. A trichobezoar is a mass of undigested hair within the GIT.¹,² Trichobezoar is often associated with trichotillomania (hair pulling)³ & trichophagia (hair swallowing) Trichotillomania may be unconsciously or unintentionally done & is part of the DSM IV psychiatric classification of impulse control disorders. In upto 18% of patients with trichotillomania, trichophagia occurs.⁴ One third of patients with trichophagia develop trichobezoars. Trichobezoars most commonly occur in adolescent females. The site of hair pulling is most commonly from the scalp, but can occur from the eyelashes, eyebrows & pubic area.⁴

Case Report:

A 25 year old female was admitted in our hospital with complaints of a lump in the epigastric region for last four years. She is having vomiting every time after taking food for last 06 months. On query, she gave history suggestive of post partum psychosis 04 years back. Examination revealed pale looking short hair woman with features of depression in appearance with visible epigastric lump. Palpation of her abdomen revealed a large, firm, mobile non tender epigastric mass. USG of whole abdomen confirmed the presence of large gastric mass with internal air loculi involving entire stomach.

Fig.-1: Outline of Epigastric lump

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On endoscopy a trichobezoar is found almost entire capacity of stomach.

Pic 2: *Endoscopic view of trichobezoar*

Barium meal X ray revealed hugely distended stomach.

Pic 3: *Barium meal view of trichobezoar*

Considering site and potential for complications, operative removal of trichobezoar was taken successfully via gastrostomy. The patient was discharged from hospital on day 7th post operative day after consultation with psychiatrist.

Pic 4: *Specimen of trichobezoar*

**Discussion:**

Trichobezoars commonly occur in adolescent females, often with an underlying psychiatric or social problem. Clinical presentation of these patients may be confusing as often they are not forthcoming with a history of trichophagia either due to embarrassment or the unintentional nature of the problem. Although this is a rare condition, numerous case reports and series have been reported as high mortality may follow complications associated with this condition. There is a study of common occurrence of trichobezoar in paediatric group with early complications.

Trichobezoars in humans were first described from a post mortem by Swain in 1854. The postulated reason for formation in the stomach is that hair is undigestable and due to its smooth nature cannot be propelled with peristalsis and over time forms a bezoar within the stomach. This bezoar can extend distally from the stomach into the caecum. Extension of the bezoar from the stomach into the jejunum or further on is referred to as “Rapunzel syndrome,” first described by Vaughan Jr. et al. in 1968. Rapunzel was a long haired girl in a German fairy tale by Grimm brothers. Bezoars can also be found distally in the gastrointestinal tract without continuity with the stomach bezoar due to breakage and distal propulsion. Trichobezoars continue to grow in size with continued ingestion of hair and this increases the risk of severe complications. The most common of these complications that have been reported over the years include gastric mucosal erosion, ulceration, and perforation of the stomach or the small intestine, gastric outlet obstruction, intussusception, obstructive jaundice, protein-losing enteropathy, pancreatitis and death.

Presentation ranges from nonspecific abdominal or epigastric pain, to a range of complications as mentioned. Clinical examination often reveals a large mobile epigastric mass that may be indentable, the so-called Lamerton’s sign. Endoscopy is usually diagnostic. The hair appears black (despite the normal hair colour) due to denaturing of the hair protein by the acid. CT scan of the whole abdomen is now being routinely used to diagnose bezoar. Management options include endoscopic or laparoscopic removal, or via laparotomy through opening the portion of the GI tract involved in bezoar.

**Conclusion:**

Trichobezoars should be considered as a differential diagnosis in a young female patient of psychiatric disorder presenting with a mobile epigastric mass. Diagnosis can be easily made with the use of USG, endoscopy & Barium meal X-ray. Management almost always requires surgical removal. Now a days it may be emphasized that the
majority of these patients have an underlying psychiatric or social disorder. A multidisciplinary approach is essential to prevent recurrence of the problem.

References: