



**CLASSICAL CASE OF PLUMMER VINSON SYNDROME REPORTED FROM
MAKKAH SAUDI ARABIA**

**FAHAD RAEES^{1,*}, MAHOMED FAROUK MAHOMED¹, IMRAN ALI KHAN²,
TURKI H. AL-TURAIIFI³, ABDULRAHMAN F. AL-HARBI³, EMRAN A. KHOJAH³**

¹ Department of Medical Microbiology, Faculty of Medicine, Umm Al-Qura University,
Makkah, Saudi Arabia

² Department of Gastroenterology, Al-Noor Specialist Hospital, Makkah, Saudi Arabia

³ MB BCH, Faculty of Medicine, Umm Al-Qura University, Makkah, Saudi Arabia

***Corresponding Author: E Mail: fahadraees@gmail.com**

Received 6th Sept. 2016; Revised 12th Oct. 2016; Accepted 10th Dec. 2016; Available online 1st Feb. 2017

ABSTRACT

Plummer–Vinson Syndrome (PVS) presents with postericoid dysphagia, iron deficiency anemia, and upper esophageal web. It is a very rare syndrome these days as a result of improved nutritional status of the population and public awareness.

Keywords: Plummer–Vinson Syndrome (PVS), Makkah Saudi Arabia

INTRODUCTION

We report a case of a 25 year old female patient and a brief review of literature from Saudi Arabia. On reviewing the literature we only found two reported cases in Saudi Arabia, one in 2001 and other in 2004.^{1,2}

At present there is very scarce literature about the cases of PVS. Patterson and Kelly were the first to describe Plummer-Vinson

Syndrome in the year 1919. Post menopausal women are affected more commonly. Patients may also complain of koilonychias, fissuring of the mouth. In some cases there is an association between PVS and hypo-pharyngeal, esophageal or oral cavity carcinoma.³ This is the first reported case from Makkah Saudi Arabia.

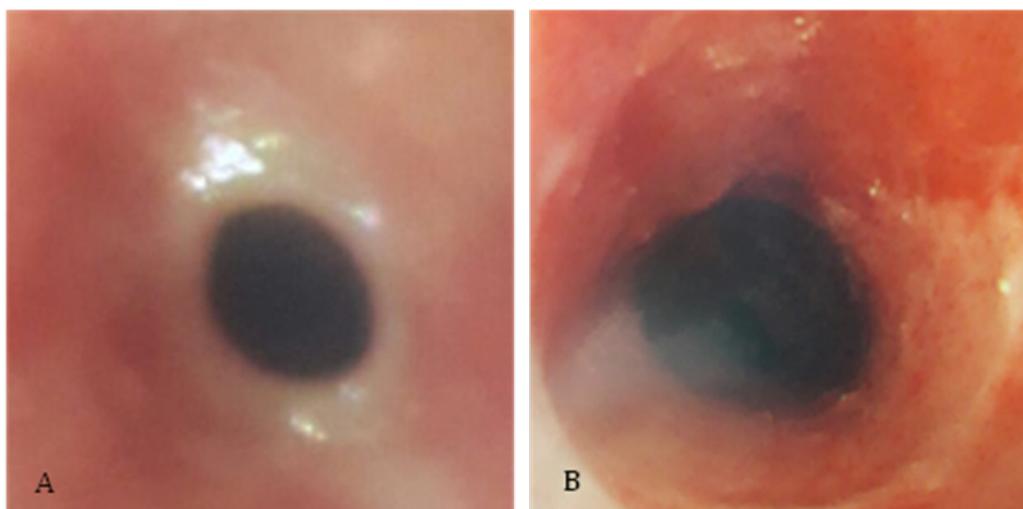


Figure 1: Endoscopic images of esophagus before and after dilation. Fig. (A) Shows post cricoids web and constriction. Fig. (B) Shows the improvement after dilation was performed.

DISCUSSION:

PVS is a disease of middle-aged females. It is considered a rare condition nowadays, as a result of improvement in the nutritional status and improved healthcare facilities.⁴ The etiology of PVS is unknown, but it is generally accepted that iron deficiency has a role to play. Moreover, iron supplementation has shown to improve the symptoms of dysphagia in PVS.⁵ Commonly the webs are found at the anterior esophageal wall in a crescent like shape. Sometimes they can be concentric. Barium swallow and upper gastrointestinal endoscopy are diagnostic tests used for identifying esophageal webs. Some patients (3% to 15%) are prone to develop esophageal or pharyngeal cancer. As a result periodic follow-up endoscopy is recommended in patients with PVS. The dysphagia associated with PVS is generally

painless and progresses over the passage of time, limited mainly to solids.⁶

ACKNOWLEDGEMENT

We would like to acknowledge Dr Naiyer Shahzad from Department of Pharmacology and Toxicology, Faculty of Medicine, Umm Al-Qura University, Makkah for all his support. We also acknowledge the Al-Noor Hospital for providing the facility to provide the case.

CONFLICT OF INTEREST

There is no conflict of interest.

REFERENCES

- [1] Sanai FM, Mohamed AE, Al Karawi MA. Dysphagia caused by Plummer-Vinson syndrome. *Endoscopy*. 2001; 33(5):470.
- [2] Yasawy MI. Treatment of Plummer-Vinson syndrome with Savary-Gilliard dilatation. *Saudi medical journal*. 2004; 25(4):524-6.

- [3] D Lawoyin, E Reid, F Sam, T Obayomi, A Bonnick. Plummer Vinson Syndrome: A Case Report and Literature Review. The Internet Journal of Dental Science. 2006 Volume 5 Number
- [4] Gultepe I, Basaranoglu M. Two cases with Plummer-Vinson syndrome in the 21st century. The Turkish journal of gastroenterology: the official journal of Turkish Society of Gastroenterology. 2016; 27(1):81-2.
- [5] Tahara T, Shibata T, Okubo M, Yoshioka D, Ishizuka T, Sumi K, et al. A case of plummer-vinson syndrome showing rapid improvement of Dysphagia and esophageal web after two weeks of iron therapy. Case reports in gastroenterology. 2014; 8(2):211-5.
- [6] Novacek G. Plummer-Vinson syndrome. Orphanet journal of rare diseases. 2006; 1:36.

CITATION OF THIS ARTICLE

Fahad Raees, Mahomed Farouk Mahomed, Imran Ali Khan, Turki H. Al-Turaifi, Abdulrehman F. Al- Harbi, Emran A. Khojah. Classical Case of Plummer Vinson Syndrome Reported from Makkah, Saudi Arabia. IJBPAS. Vol 6 [2] 2017: 305-307