

International Journal of Otolaryngology Research

www.otolaryngologyjournal.in Online ISSN: 2664-6463; Print ISSN: 2664-6455 Received Date: 06-05-2019; Accepted Date: 07-06-2019; Published: 14-06-2019 Volume 1; Issue 1; 2020; Page No. 20-22

Spontaneous retropharyngeal space hematoma: How to manage

Youssef Lakhdar^{1*}, Dounia Berrada El Azizi², Malika Ben Fdil³, Mohamed elbouder kaoui⁴, Youssef Rochdi⁵, Hassan Nouri⁶, Abdelaziz Raji⁷

1-7 ENT department and head and neck surgery, Mohammed VI university hospital center, Marrakech, Morocco

DOI: https://doi.org/10.33545/26646455.2019.v1.i1a.6

Abstract

Introduction: Spontaneous Retro pharyngeal Hematoma (SRH) is a rare affection which occurs without traumatism.

Case report: A 68 years old woman brought to the emergency department with a cervico-thoracic swelling rapidly increasing in size without any previous traumatic history or anticoagulant therapy. Complicated by dysphagia and dysphonia without signs of dyspnea. The clinical examination revealed a painful anterior cervico-thoracic swelling with an ecchymotic cupboard on it. Cervico thoracic CT scan found a voluminous retro-pharyngeal collection, spontaneously hyperdense, extended to the oropharynx and anterosuperior mediastinum without further lesions. Biological assessment was without abnormalities. The diagnosis of retropharyngeal hematoma was retained and the Treatment based on corticosteroids and antibiotics with strict clinical and radiological monitoring.

With conservative treatment, the evolution was favorable, marked by progressive regression of the hematoma until its disappearance and an absence of recurrence after a retreat of one year.

Conclusion: The clinical presentation of a retropharyngeal hematoma out of an evocative context is misleading and lead to radiological investigation without delaying the treatment which varies from supervision to surgery according to respiratory status and evolution under strict control.

Keywords: hematoma: retro pharyngeal space: dyspnea

Introduction

Spontaneous Retropharyngeal Haematoma (SRH) is a rare affection which occurs without traumatism and difficult to diagnose early. It is a diagnostic and therapeutic emergency that can be life-threatening.

Objectives

We report a rare case of an elderly woman who presented a spontaneous retropharyngeal hematoma and we discuss ethiopathogeny, clinic's and therapeutic's management.

Case report

Mrs. A. F. 68 years old, diabetic, brought to the emergency department for a cervico-thoracic swelling evolving for two days rapidly increasing in size with appearance of bruise extended upon it. The patient reports compressive signs of dysphagia and dysphonia without dyspnea. There was no specific past medical history such as a trauma, upper respiratory infection, administration of anticoagulants or other drugs, or any other medical condition. The clinical examination found a patient who was conscious, hemodynamically and respiratory stable with a painful anterior cervico-thoracic swelling with an ecchymotic cupboard on it (Figure 1). The oropharynx was unremarkable without bulging or visible mass.

The naso fibroscopy of upper airways showed a slight ecchymotic oedema of the laryngopharynx with a good laryngeal stream and a minimal salivary stasis.

An urgently needed cervico-thoracic computed tomography scan (CT) revealed a voluminous spontaneously hyperdense retropharyngeal collection, extending from the oropharynx to the anterosuperior mediastinum, pushing the larynx, trachea and esophagus forward, without further lesions (Figure 2,3). Based on clinical and radiologic findings, a diagnosis of spontaneous retropharyngeal hematoma was made.

Biological samples were as follow : Prothrombin level = 96%, activated partial thromboplastin time = 30'', platelets count = $180000/\text{mm}^3$, hemoglobin level=12.9g/dl, white blood cell count = $6572/\text{mm}^3$, bleeding test = 3', normal aggregation platelet test and no deficit of coagulation factors.

Magnetic resonance imaging with angiographic sequences didn't detect any abnormality especially in the thyroid and cervico-facial vessels.

In front of the absence of threatening respiratory signs, we opted for conservative treatment with intraveinous corticosteroids and antibiotics. The patient was closely followed up with strict clinical and biological monitoring. A CT scan control, redone on the seventh day of hospitalization, showed a decrease in the size of the retpharyngeal collection. Clinical evolution was favorable, marked by the stability of the hemodynamic constants and by the progressive regression of the cervical hematoma until its total disappearance after two months. Regular monitoring and control did not report recurrence even after one year of follow up.

Discussion

The hematoma of retro-pharyngeal space is rare. It is particularly dangerous by its location, which can compress the upper airways and threaten the vital prognosis. This diagnosis remains difficult outside of an evocative context. A classic "Capp's triad" is described associating oesophago-tracheal compression, anterior International Journal of Otolaryngology Research www.otolaryngologyjournal.in/

displacement of the trachea, and anterior cervicothoracic bruise. The patient usually consults for odynophagia or cervical pain ^[1,2,3]. The examination finds a pharyngeal bulge and ecchymosis of the tracheal and pharyngeal mucosa. However, the reasons for consultation and the clinic for HRP vary. Dyspnea, the most alarming sign, is sometimes absent especially at the beginning ^[4]. In the same way the cervical bruise is not a constant sign. The diagnosis of hematoma can be made as early as a few hours after the acute event, when hyperintensity is seen on both T1- and T2-weighted MRI sequences, and this diagnosis is reinforced when changes due to magnetic susceptibility effects are demonstrated on gradient-echo sequences ^[2]. Differential diagnosis of retropharyngeal hematoma includes essentially a pre vertebral abscess complicating tuberculous spondylodiscitis.

The etiologies of HRP are numerous. The most common are cervical trauma, coagulopathies, invasive explorations and foreign body ingestion ^[5, 6]. Infectious causes have been incriminated ^[7]. In very rare cases, HRP is due to bleeding from a cervical organ such as the thyroid ^[5, 8]. Other possible etiologies are intrathoracic overpressure during cough ^[9], or Valsalva maneuver ^[5].The therapeutic management of HRP is poorly coded. In case that the hematoma is very extensive or exuberant causing sign of respiratory distress, it is imperative to perform

intubation or tracheotomy. However, if there is a clear situation, the indication of a gesture on upper airways is controversial. Some authors advocate prophylactic intubation or tracheostomy because evolution remains unpredictable ^[9]. Others report that it is necessary only in case of aggravation because on the one hand the hematoma usually resolves in one to two weeks and on the other hand, they can exacerbate the bleeding ^[9]. This attitude is only recommended if strict supervision is available. Surgical evacuation is mainly indicated if the obstruction is important and life-threatening or if the hematoma is rapidly expansive ^[10]. Surgical exploration is necessary in case of confirmed vascular lesions ^[4]. The use of steroids and antibiotics is common although their interest has not been demonstrated.

Conclusion

The clinical presentation of a retropharyngeal hematoma out of an evocative context is misleading but high clinical suspicion is warranted in patients who present with acute dysphagia, odynophagia, and dysphonia and lead to radiological investigation without delaying the treatment which varies from supervision to surgery depending on the hemodynamic and respiratory status at admission and depending on the clinical course.



Fig 1: Cervico-thoracique swelling with ecchymotic cupboard: admission appearance



Fig 2: axial cervico-thoracic CT scan showing a spontaneously hyperdense lesion of the retropharyngeal space evoking a hematoma.



Fig 3: Sagittal cervico-thoracic CT scan showing a spontaneously hyperdense lesion of the retropharyngeal space evoking a hematoma.

Funding

None

Conflict of interest

All authors declared that there is no conflict of interests.

Consent

Informed consent was obtained from the patient for publication of this case report and accompanying images.

References

- 1. Fox EC, Manchala V. Retropharyngeal Hematoma as an Unusual Presentation of Myelody splastic Syndrome: A Case Report. Am J Case Rep. 2018; 19:969-972.
- 2. Munoz A, Fischbein NJ, De Vergas J. Spontaneous retropharyngeal hematoma: Diagnosis by MR Imaging AJNR. 2001; 22:1209-11.
- Cohen JI. Spontaneous cervical hemorrhage with nearcomplete airway obstruction. Head and Neck. 1998; 20:350-53.
- Bapat VN, Brown K, Nakas A. Retropharyngeal hematomaa rare complication of anticoagulant therapy. Eur. J. Cardiothoracic Surg. 2002; 21:117-18
- 5. Vinidh P, Maroju RS, Ali MS. Spontaneous retro and parapharyngeal haematoma caused by intrathyroid bleed. J. Laryngol. Otol. 2002; 116:854-58.
- 6. Tomohiro Yamamoto MD. Martin Schmidt-Niemann PhD, med Dr. Ehrenfried Schindler, Dr. med. A Case of Acute Upper Airway Obstruction in a Pediatric Hemophilia A Patient Because of Spontaneous Retropharyngeal Hemorrhage, annemergmed. 67: (5)616-619.
- Jones TM, Owen GO, Morar P. Spontaneous retropharyngeal haematoma attributable to Ebstein-Barr virus infection. J Laryngol Otol. 1996; 110:1075-77.
- 8. Armstrong WB, Funk GF, Rice DH. Acute airway compromise secondary to traumatic thyroid hemorrhage Arch Otolaryngol Head Neck Surgery. 1994; 120:427-30.
- Bloom DC, Haegen T, Keefe MA Anticoagulation and spontaneous retropharyngeal hematoma. J. Em Med. 2003; 24:389-94

10. Senthuran S, Lim S, Gunning KE. Life-threatening airway obstruction caused by a retropharyngeal haematoma. Anaesthesia. 1999; 54:674.