

## 4CPS-001

## **ATC B02- ANTIHEMORRHAGICS**

# EMICIZUMAB IN ACQUIRED HAEMOPHILIA TYPE A: A CASE REPORT

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#### **BACKGROUND AND IMPORTANCE**

• Acquired haemophilia A is a coagulation disorder in which antibodies against factor VIII are produced, interfering with

its activity and leading to potentially severe bleeding. Among numerous causes, cancer is a prevailing one.

• First-line hemostatic treatment until inhibitor eradication consists of bypass agents, including recombinant factor VII activated (rFVIIa) or activated prothrombin complex concentrates (aPCC).

### **AIM AND OBJECTIVES**

We present the case of a 70-year-old male patient diagnosed with metastatic prostate cancer who went to the emergency department of a tertiary referral hospital due to an **acute-onset extensive hematoma** on the right thigh, with neither personal nor family history of haemophilia.

#### **MATERIAL AND METHODS**



- The patient was diagnosed with paraneoplasic acquired haemophilia and received immunosuppressive (methylprednisolone+cyclophosphamide) and hemostatic (rFVIIa at 5mg/8h) treatment.
- 9 days in, off-label use of emicizumab was requested, intended to guarantee a hemostatic level that

would allow outpatient management.

Emicizumab 3mg/kg SC4 weeks:<br/>weekly16 weeks:<br/>fortnightlyJanuary 13th – May 25th, 20224 weeks:<br/>weekly16 ortnightly

 Haemostatic was monitored daily during hospitalization and weekly after discharge through determination of inhibitor activity (Bethesda Units, UB) and FVIII activity (bovine based Chromogenic Factor VIII assay, UI) in blood samples.

#### RESULTS

The patient was successfully treated until the resolution of bleeding and normalized FVIII levels.

Hemostatic agent	Emicizumab	rFVIIa at 5mg/12h
Administrations	8 SC injections	214 IV infusions
Direct cost	€51,255.20	€618,301.64
Savings	€567,046.44	

Table I. Comparison of hemostatic agents (during 107 days of Emicizumab monotherapy).



- Other contributing factors to overheads: prolonged hospital stay, expenditure on consumables or staffing.
- Also risk of vascular access complications and quality of life must be considered.

#### **CONCLUSION AND RELEVANCE**

1. Emicizumab has been a safe and cost-effective alternative to rFVIIa in hemorrhage prophylaxis, reducing

direct costs by more than 10 times and allowed outpatient management.

- 2. Self-administration at home represents a major improvement in acquired haemophilia A quality of life.
- 3. Hospital pharmacy and hematology must collaborate to achieve a rational use of resources and an improvement in quality of life



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