

MICROCOSTING APPROACH FOR COST OF CIRCUMCISION IN HEMOPHILIA A IN ALGERIA

S. Nekkal¹; N. Mesli²; N. Cherif¹; B. Bioud³; N. Salhi⁴; F. Benmegherbi¹; H. Khedim⁵

1 Medicine Faculty, University of Algiers; 2 Medicine Faculty, University of Tlemcen; 3 Medicine Faculty, University of Setif; 4 Medicine Faculty, University of Constantine; 5 Roche Algérie s.p.a., Algeria

OBJECTIVES:

In Algeria, as in other countries in the region, the circumcision is a ritual for boys and its surgical procedure is considered as routine. For patients with haemophilia A, the pre-surgery protocol requires to administer high level of coagulation factor VIII which carries significant risk of inhibitors development. Moreover and In worst case, if patient is not diagnosed, there is a risk of haemorrhage which may lead to death.

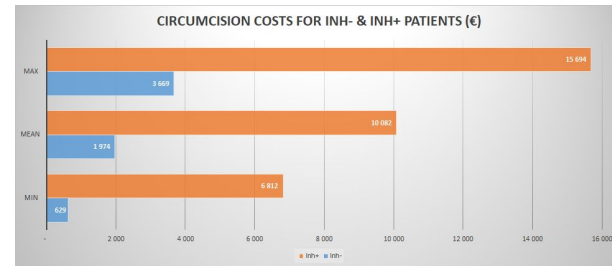
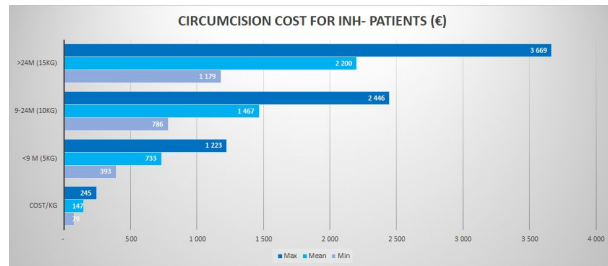
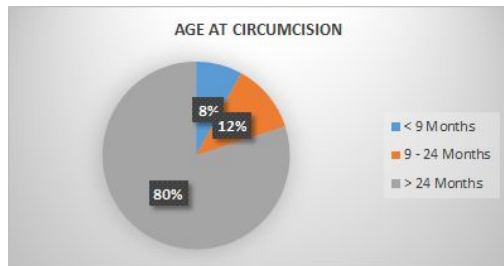
The aim of this study is to assess the economic burden of the circumcision in patients with haemophilia A in Algeria.

METHODS:

A cross-sectional, multicenter cost-of-illness study was carried out in 6 centers across Algeria including a micro-costing study to assess the cost of circumcision in patients with haemophilia A. To collect data on circumcision protocols and resource utilization in the different centers, a questionnaire was developed and direct health care costs were assessed for the whole population, compared among groups, categorized by age and taking into account inhibitor development.

RESULTS:

Across the 6 centers, 25 patients with haemophilia A were circumcised in 2020. Due to COVID, the overall number of circumcisions was low. We observed disparities of procedures and protocols for patients with haemophilia A which implies a disparity in term of cost for these patients: It appears that a procedure of circumcision costs about [733€ (393€ - 1.233€)] per patient for boys of age < 9 months compared to boys of age > 2 years [2.200€ (1.179€ - 3.669€)]. In case of patients with haemophilia A who developed inhibitors (INH+), the cost of circumcision can reach 15.690€ per patient.



CONCLUSION

The cost of circumcision in patients with haemophilia A who developed Inhibitors (INH+) is more than 7 times higher than the cost in patients without inhibitors (INH-). This represents a high burden for the hospital budget.

The circumcision protocols differ across the different centers and regions in Algeria. This leads to different patient experiences. The disparities should be harmonized through a consensual national protocol. This would result in a better patient experience and cost management.

ACKNOWLEDGEMENT

This study has been sponsored by Roche Algérie s.p.a.