Authors: Villaca PR, Okazaki E, Sandoval EPN, Zeinad-Valim AK, Rocha, N, Ricci AMS, Oliveira V, Carneiro JDA, D'Amico EA. Hospital: Hemophilia Center of Clinics Hospital – University of Sao Paulo

INTRODUCTION AND OBJECTIVES

MEDICINA

 1×1

Primary prophylaxis is recommended as the first choice of treatment for people with severe hemophilia. It prevents bleeding and joint destruction, and can preserve normal musculoskeletal function. Delayed prophylaxis is able to decreases frequency of bleeding and may slow progression of joint disease and improve quality of life, but it does not reverse established joint damage. I We describe the experience of tertiary prophylaxis started in adults in our service.

METHODS

Adults with severe hemophilia, without inhibitors, who had bled frequently or had severe bleeding episode and thus were switched from on-demand to prophylactic treatment (for at least 45 week/y) after the age of 18 years were assessed. The period of time the patient received prophylaxis was compared to the same amount of time previous to the initiation of prophylactic treatment (~15 UI kg¹ thrice weekly). Differences in annual number of total and joint bleeds (ABR and AJBR, respectively), number of lifethreatening bleeding and factor utilization (UI/Kg/y) were assessed comparing the period before and after tertiary prophylaxis, in each patient.

RESULTS

Twenty-five patients with hemophilia A (n=23) and B (n=2) were evaluated. The median age at start of prophylaxis was 26 y (18 - 57 y) and the median duration of prophylaxis was 33 months (13 - 56 mo). Twenty-four patients (96%) had arthropathy in at least one joint before prophylaxis. Tertiary prophylaxis reduced the mean ABR and AJBR (P < 0.0001). Table 1, Fig.1. Eight episodes of life-threatening bleeds occurred in 6 patients before prophylaxis and none after. On the other hand, there was higher factor concentrate consumption during prophylaxis (P < 0.0001). Table 1 Many patients were treated with short-term prophylaxis during the period before tertiary prophylaxis.

Tertiary prophylaxis started in adult hemophiliac: an experience of a Brazilian Center









Comparison of bleeding episodes and factor usage before and on prophylaxis in 25 Table 1: patients

	Before	On-prophylaxis	P value
ean ABR* (range)	22.1	2.1	<i>P</i> < 0.0001
ean AJBR'(range)	15.3	1.2	<i>P</i> < 0.0001
tal number of life-threatening bleeding	8	0	
ean annual factor used (UI/kg/y)	1.240	3.043	<i>P</i> < 0.0001
DD exercised as we have a fitated black of (AIDD) are available as been a fising black of			

CONCLUSIONS

In our country, primary prophylaxis only started in 2011 and many of our adult patients have joint sequelae. Long-term prophylaxis starting in adulthood has been associated with a reduction of more than 90% of bleeding episodes with an increase of 2.5 times of factor consumption. Despite the challenges, tertiary prophylaxis should be considered for those adults with active bleeding patterns while receiving on-demand treatment.

REFERENCES

- 1. Hay CRM. Prophylaxis in adults with haemophilia. Haemophilia. 2007 Sep;13 Suppl 2:10-5.
- 2. Ljung R, Gretenkort Andersson N. The current status of prophylactic replacement therapy in children and adults with haemophilia. Br J Haematol. 2015 Jun;169(6):777-86.
- 3. Petrini P, Valentino LA, Gringeri A, Re WM et al. Individualizing prophylaxis in hemophilia: a review. Expert Rev Hematol. 2015 Apr;8(2):237-46.
- 4. Tagliaferri A, Di Perna C, Rivolta GF. Secondary prophylaxis in adolescent and adult haemophiliacs. Blood Transfus. 2008 Sep; 6 Suppl 2:s17-20. 5. Tagliaferri A, Franchini M, Coppola A et al. Effects of secondary prophylaxis started in adolescent and adult haemophiliacs. Haemophilia. 2008 Sep;14(5):945-51.
- 6. Valentino LA. Secondary prophylaxis therapy: what are the benefits, limitations and unknowns? Haemophilia. 2004 Mar;10(2):147-57.

CONTACT: paulavillaca@yahoo.com



Instituto Central





