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Retrospective Analysis: Subcutaneous C1-Inhibitor Prophylaxis for Hereditary Angioedema and Associated Patient Outcomes

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HIGHLIGHTS

This qualitative study assessed the clinical and disease burden outcomes using a hybrid method involving medical chart data retrieval supplemented with patient interviews

LTP implementation with C1-INH (SC) resulted in lower HAE attack frequency, markedly lessened severity of breakthrough attacks, reduced on-demand medication use, and improved OoL

INTRODUCTION

Hereditary angioedema (HAE) can have a significant impact on OoL for patients and their families, with treatment goals aimed at disease control and improved OoL



Routine C1-INH (SC) use as long-term prophylaxis (LTP) in HAE and on-demand medication use patterns while on prophylaxis were evaluated to determine the clinical and OoL impact

attacks

of HAE

number

Annualized 40

100

80

60

20

STUDY CHARACTERISTICS

Objective

Assess the clinical and OoL impact of C1-INH (SC) as LTP in HAE patients

Study design

Hybrid; combined semi-structured, qualitative patient interviews and retrospective medical record review

Patient population

36 patients, ≥18 years of age with HAE type 1 or 2; biweekly* LTP with C1-INH (SC)

*Dosing frequency was reported as biweekly (24 patients) or every 3-4 days (11 patients), and it was not reported for 1 patient

RESULTS

Figure 1. Patient distribution histogram by annualized HAE attack frequency, pre- and post-index

> Patients with ages ranging from 24 to 77 years (mean age, 47.9) were included



20 patients had ≤1 annualized attacks. and 12 of these reported no attacks. post-LTP with C1-INH (SC)



Pre-index (n=35) Post-index (n=36)

Index refers to the initiation of LTP with CI-INH (SC).

al outlier patient with particularly burdensome disease with pre-index annualized frequency of ~198 attacks per year (15-18 attacks per month) Post-index, annualized rate decreased to 78 attacks per year (6-7 per month).

Figure 2. Individual annualized HAE attack frequencies, pre- and post-index (n=35)



Post-LTP initiation with C1-INH (SC). 57% (20/35) reported ≤1 attack per year, and 34% (12/35) reported no attacks

^a Patient reported ~42 severe attacks per year pre-index; post-index attack frequency of 1 attack per month was noted.

	Pre-index	Post-index	% reduction
Mean (SD) no. of attacks	38.8 (38.8)	7.0 (15.3)*	82%
Median no. of attacks	30	1	96.7%

*P<0.00005, pre-index vs post-index

attack rate, from 30 to 1 attack per year

RESULTS



Figure 5. Proportion of patient-reported subjective improvements related to quality-of-life domains while using C1-INH (SC)



Abbreviations

C1-INH: C1-esterase inhibitor; HAE: hereditary angioedema; LTP: long-term prophylaxis; PPPY: per patient per year; QoL: quality of life; SC: subcutaneous.

Reference

Lumry W, Craig T, Anderson J, et al. Allergy Asthma Clin Immunol. 2023;19(1):105.



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Figure 4. Mean rescue medication use per patient per year (PPPY) pre-index