

IMPACT ON PAIN AND ACTIVITIES OF DAILY LIVING AFTER SWITCHING TO EMICIZUMAB: INSIGHTS FROM PROBE

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INTRODUCTION

Emicizumab for treatment of people with severe hemophilia A (SHA) was recently approved by Health Canada. A prospective observational study was initiated to evaluate the efficacy of emicizumab and assess health-related quality of life (HRQoL) utilizing the PROBE questionnaire.

RESULTS

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The number of individual participants reporting any acute pain, chronic pain, and ADL impairment was reduced post switch (7 [87.5%] to 4 [50.0%], 5[62.5%] to 4 [50%], 8 [100%] to 3 [37.5%], respectively). (Data not shown)

METHODS

HRQoL outcomes were collected using the Patient Reported Outcomes Burdens and Experiences (PROBE) questionnaire.

- Eight male SHA (median age 22.5, range 17-55 years) completed PROBE pre- and \geq 10 months post-switching to emicizumab.
- Acute and chronic pain occurrence (recall: 12 months) were assessed during 8 activities (walking, stair climbing, nighttime, resting, weight bearing, playing, after falling/trauma, other).
- Pain interference was assessed for 11 aspects of life (general activity, walking ability, normal work, attending school, relations with others, sleep, enjoyment of life, playing/participating in sports/exercising, lifting, other).
- PROBE includes a 24-item activities of daily living (ADL) list; current difficulty is reported. Descriptive statistics present results for pain outcomes and difficulty with ADLs.

- Overall switching demonstrated a positive effect on self-reported acute and chronic pain occurrence. Post-switch, those reporting acute pain indicated "yes" to the occurrence of pain in 8 scenarios across 8 activities, compared with 22 across the activities pre-switch. (Table 1) Chronic pain was similarly reduced from 20 to 7. (Table 2)
- Acute pain was eliminated during idle activities of "nighttime" and "resting" (3 and 2 participants reported occurrence pre-switch, respectively, 0 reported post-switch). (Table 1)
- Overall reports of acute pain interference were also reduced: there were more affirmative reports of acute and chronic pain interfering pre-switch compared to post (42 compared to 12 and 28 compared to 15, respectively). (Tables 3 & 4)
- The four most improved ADLs after switching were: getting up from sitting, playing games or participating in sport, sleeping/resting, doing heavy domestic tasks. (Data not shown)

Table 1.

Instances of Acute Pain Occurrence										
	Walking	Stair- climbing	Nighttime	Resting	Weight bearing	Play Sport Exercise	After fall trauma	Other	Total	
Pre-switch (n,%)	3 (37.5)	2 (25)	3 (37.5)	2 (25)	4 (50)	3 (37.5)	3 (37.5)	2 (25)	22	
Post-switch (n,%)	3 (37.5)	2 (25)	0	0	1 (12.5)	1 (12.5)	0	1 (12.5)	8	

Table 2.

			Instance	es of Chron	ic Pain Occ	urrence				
	Walking	Stair- climbing	Nighttime	Resting	Weight bearing	Play Sport Exercise	After fall trauma	Other	Total	
Pre-switch (n,%)	4 (50)	4 (50)	2 (25)	1 (12.5)	3 (37.5)	4 (50)	2 (25)	0	20	
Post-switch (n,%)	2 (25)	1 (12.5)	0	0	2 (25)	1 (12.5)	0	1 (12.5)	7	

CONCLUSIONS

PROBE demonstrated that the introduction of emicizumab was associated with a decrease in self-reported acute and chronic pain occurrence and interference, as well as reduced interference with activities of daily living.

DISCLOSURE OF INTEREST

App for Android

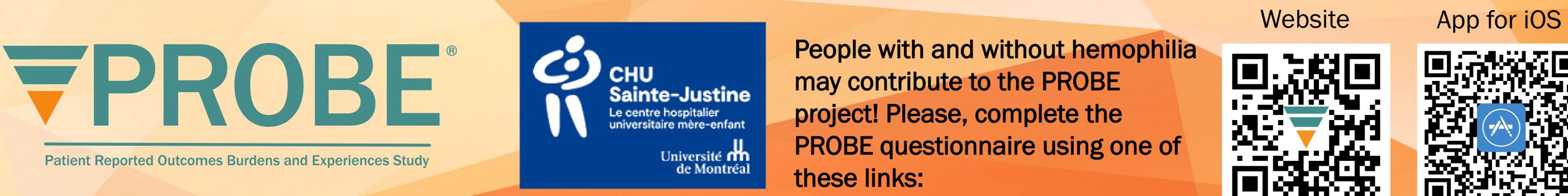
PROBE is an independent investigator led research project.

Table 3.

	Instances of Acute Pain Interference												
	Activity	Mood	Walking	Work	School	Relationships	Sleep	Enjoyment	Playing	Lifting	Other	Total	
Pre-switch (n,%)	6 (75)	5 (62.5)	4 (50)	5 (62.5)	3 (37.5)	2 (25)	4 (50)	4 (50)	5 (62.5)	4 (50)	0	42	
Post-switch (n,%)	2 (25)	2 (25)	2 (25)	0	0	1 (12.5)	1 (12.5)	0	2 (25)	2 (25)	0	12	



	Instances of Chronic Pain Interference											
	Activity	Mood	Walking	Work	School	Relationships	Sleep	Enjoyment	Playing	Lifting	Other	Total
Pre-switch (n,%)	4 (50)	1 (12.5)	3 (37.5)	4 (50)	1 (12.5)	1 (12.5)	2 (25)	3 (37.5)	4 (50)	3 (37.5)	1 (12.5)	28
Post-switch (n,%)	1 (12.5)	3 (37.5)	0	3 (37.5)	0	1 (12.5)	1 (12.5)	1 (12.5)	1 (12.5)	3 (37.5)	0	15



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