Supplementary Table 1. Survey questions and response options for adults with hemophilia B

Survey Question	Response Options							
Bleeding history								
Number of bleeds in the last year	Continuous ^a							
Number of joint bleeds in the last year	Continuous ^a							
Having a specific joint that bleeds more	0="No"							
	1="Yes"							
Impact on work								
Not working (vs working full- or part-time)	0="Never worked" 1="Part-time employment" 2="Full-time employment"							
Not working due to complications from hemophilia	0="No" 1="Yes"							
Current treatment allows me to work	0="No" 1="Yes"							
Increasing negative experiences with work/career	1="Large negative impact" 2="Moderate negative impact" 3="Small negative impact" 4="No negative impact"							
Increasing satisfaction with support from employer or manager	1="Very satisfied" 2="Quite satisfied" 3="Not satisfied"							
Negative experience with telling employer or manager	0="No" 1="Yes"							
Impact on functional and recreational activities								
Increasing limitation in functional abilities and engagement in activities	1="Unrestricted activities" 2="Full school/work with limited recreational activity" 3="Limited school/work and recreational activity" 4="Limited all activities and self-care or worse"							
Sometimes/always used cane/crutches/walker in the past 6 months	1="Never" 2="Sometimes or always"							
Sometimes/always used wheelchair in the past 6 months	1="Never" 2="Sometimes or always"							
Increasing negative impact of hemophilia on ability to engage in activities	1="Large negative impact" 2="Moderate negative impact" 3="Small negative impact" 4="No negative impact"							
Increasing treatment adjustment to accommodate participation in activities	1="Significant change" 2="Moderate change" 3="Small change" 4="No change"							
Impact on family and relationships								
Hemophilia affected relationship with (prospective) partners	0="No" 1="Yes"							
Increasing satisfaction with support from partner regarding hemophilia	1="Very satisfied" 2="Less than very satisfied"							
Increasing satisfaction with support from friends	1="Very satisfied" 2="Less than very satisfied"							
Negative experiences with telling friends about hemophilia	0="No" 1="Yes"							
Bullied by peers because of hemophilia	0="No" 1="Yes"							
Negative experiences with telling colleagues at work/school about hemophilia	0="No" 1="Yes"							
Bullied by colleagues at work/school because of hemophilia	0="No" 1="Yes"							
Hemophilia affected the quality of sex life	0="No" 1="Yes"							
Psychological/stress								

Experienced stressful events: loss of job	0="No" 1="Yes"								
Received psychological treatment in the past 5 years	0="No" 1="Yes"								
Psychological treatment related to hemophilia	0="No" 1="Yes"								
Access to and responsibility for factor/treatment									
Self-responsibility for your hemophilia care (vs somebody else)	1="I have the main responsibility" 2="Someone else has the main responsibility"								
Routine factor treatment (vs on-demand)	1="Mostly on-demand" 2="Routine infusion"								
Difficulty obtaining or concerns about factor products' availability or affordability									
Last 5 years	0="No" 1="Yes"								
Next 5 years	0="No" 1="Yes"								
Lack of control	Scale of 0 to 10; 0="not at all," 10="extremely well"								
Access to HTC									
Fewer visits to HTC in the past year	Continuous ^a (≥70 removed since outlier-based frequency analysis; 18 is the next highest value)								

Notes: ^aContinuous responses were not predefined and could be any value. Negative attributes are shown in red. **Abbreviation:** HTC, hemophilia treatment center.

Supplementary Table 2. Survey question and response options for caregivers of children with hemophilia B

Survey Question	Response Options									
Impact on work due to caring for a child with hemophilia	service a process									
	0="No"									
CG or SP had to leave job	1="Yes"									
	0="No"									
CG or SP overlooked for promotion	1="Yes"									
	0="No"									
CG or SP not hired for a job	1="Yes"									
CG or SP not able to work because of child's specific treatment	0="No"									
regimen	1="Yes"									
CG or SP not able to restrict number of hours	0="No"									
	1="'Yes"									
CG or SP not able to work flexible hours	0="No"									
	1="Yes"									
Impact on functional and recreational activities										
	1= "Unrestricted activities"									
Increasing limitation in child's functional abilities and	2= "Full school/work with limited recreational activity"									
engagement in activities	3= "Limited school/work and recreational activity"									
	4= "Limited all activities and self-care or worse"									
Increasing number of days child missed school/work because	Continuousª									
of upper extremity problems in prior 6 months										
In an active impact on your shild an action in	1="Large negative impact"									
Increasing negative impact on your child engaging in recreational activities	2="Moderate negative impact"									
recreational activities	3="Small negative impact" 4="No negative impact"									
Increasing treatment adjustment to allow for represtional	1="Significant change" 2="Moderate change"									
Increasing treatment adjustment to allow for recreational activities	2= Moderate change 3="Small change"									
activities	4="No change"									
Impact on family and relationships										
	1="Negative impact"									
Negative impact of hemophilia on your other children	2="No impact"									
	3="Positive impact"									
CG negative experiences telling someone that your child	0="No"									
has hemophilia	1="Yes"									
Child had a negative reaction telling someone he/she	0="No"									
has hemophilia	1="Yes"									
	0="No"									
Child bullied as a result of having hemophilia	1="Yes"									
Psychological/stress	·									
	0="No"									
Received psychological treatment in the past 5 years	1="Yes"									
Device a logical transforment valated (s. b. sussers bills	0="No"									
Psychological treatment related to hemophilia	1="Yes"									
Experienced stressful events										
Loss of job	0="No"									
	1="Yes"									
Financial problems	0="No"									
	1="Yes"									
Any other stressful event	0="No" 1="Yes"									
Access to factor/treatment	1- 100									
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Difficulty obtaining or concerns about factor products' availability or affordability	
Last 5 years	0="No" 1="Yes"
Next 5 years	0="No" 1="Yes"
Access to HTC	
Fewer visits to HTC in the past year	Continuous ^a (≥70 removed since outlier-based frequency analysis; 18 is the next highest value)
Increasing difficulty for child to visit the HTC	1="Very easy" 2="Quite easy" 3="Quite difficult or worse"

Notes: ^aContinuous responses were not predefined and could be any value. **Abbreviations:** CG, caregiver; HTC, hemophilia treatment center; SP, spouse/partner.

Supplementary Table 3. Pearson correlation assessment between history of bleeds and PRO scores in adults with hemophilia B

	EQ-5D-5L	EQ-5D-5L	EQ-5D-5L Usual	EQ-5D-5L Pain/	EQ-5D-5L Anxiety/	EQ-5D-5L Index	EQ-5D-5L Overall Health	BPI Worst	BPI Least	BPI Average	BPI Current	BPI Pain	BPI Pain	HAL Upper	HAL Basic Lower	HAL Complex Lower	HAL Overall	PHQ-9 Total
Survey Question	Mobility	Self-care	Activities	Discomfort	Depression	Score ^a	VAS Score	Pain⁵	Pain⁵	Pain ^b	Pain ^b	Severity ^c	Interference ^d	Extremitye	Extremitye	Extremitye	Score ^e	Score
Number of bleeds in the last year	0.064 ^g	0.026 ^g	0.015 ⁹	0.154	0.044 ⁹	-0.035 ^g	0.108 ^g	0.17	-0.047 ⁹	0.034 ^g	0.000 ^g	0.032 ^g	0.018 ^g	0.082 ^g	-0.052 ^g	-0.228	-0.049	0.344
Number of joint bleeds in the last year	0.182	0.034 ⁹	0.025 ^g	0.164	0.088 ^g	-0.130 ^g	0.059 ^g	0.211	-0.056 ⁹	0.019 ^g	0.071 ⁹	0.053 ⁹	0.055 ⁹	-0.032 ^g	-0.2	-0.323	-0.162	0.272
Having a specific joint that bleeds more	0.236	0.117 ^g	0.086 ^g	0.079 ^g	0.010 ^g	-0.100 ^g	0.155	0.153	-0.124 ^g	-0.059g	-0.027 ^g	-0.031 ^g	0.060g	-0.096 ^g	-0.213	-0.269	-0.186	0.109 ^g

Notes: ^aRange, -0.011 to 1.0 (higher scores indicate better quality of life of functional status). ^bRange, 0 to 10 (higher scores indicate greater pain severity or pain interference). ^cPain severity score is the average of 4 severity scores (worst, least, average, current). ^aPain interference score is the average of 7 interference scores. ^aRange, 0 to 100 (higher scores indicate better quality of life or functional status). ^bRange, 0 to 27 (higher scores indicate more severe depression). ^aNot significant. **Abbreviations:** BPI, Brief Pain Inventory v2 Short Form; HAL, Hemophilia Activities List; PHQ-9, Patient Health Questionnaire; VAS, visual analog scale.