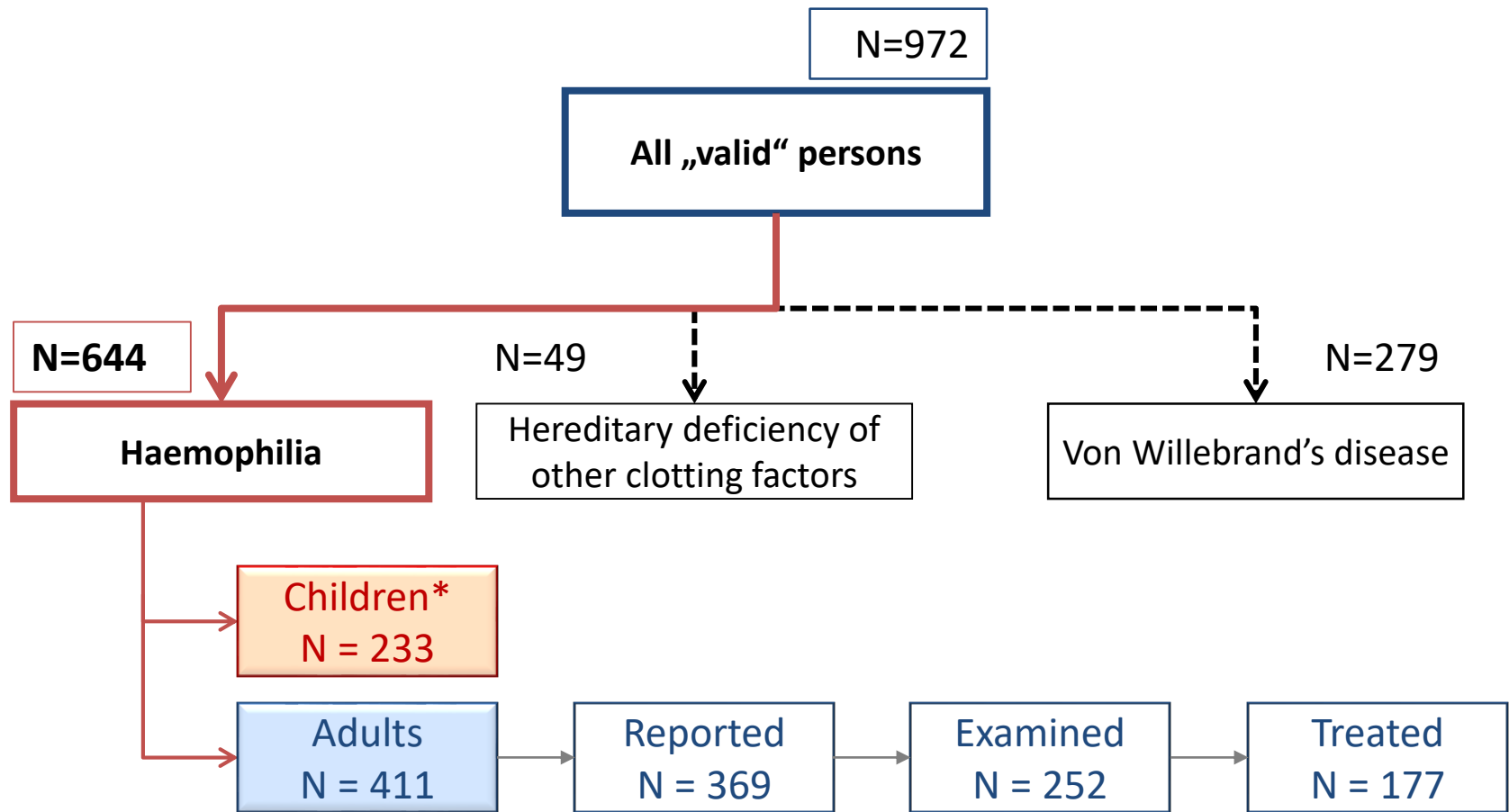


Terciární profylaxe u dospělých pacientů v ČR - výsledky registru ČNHP

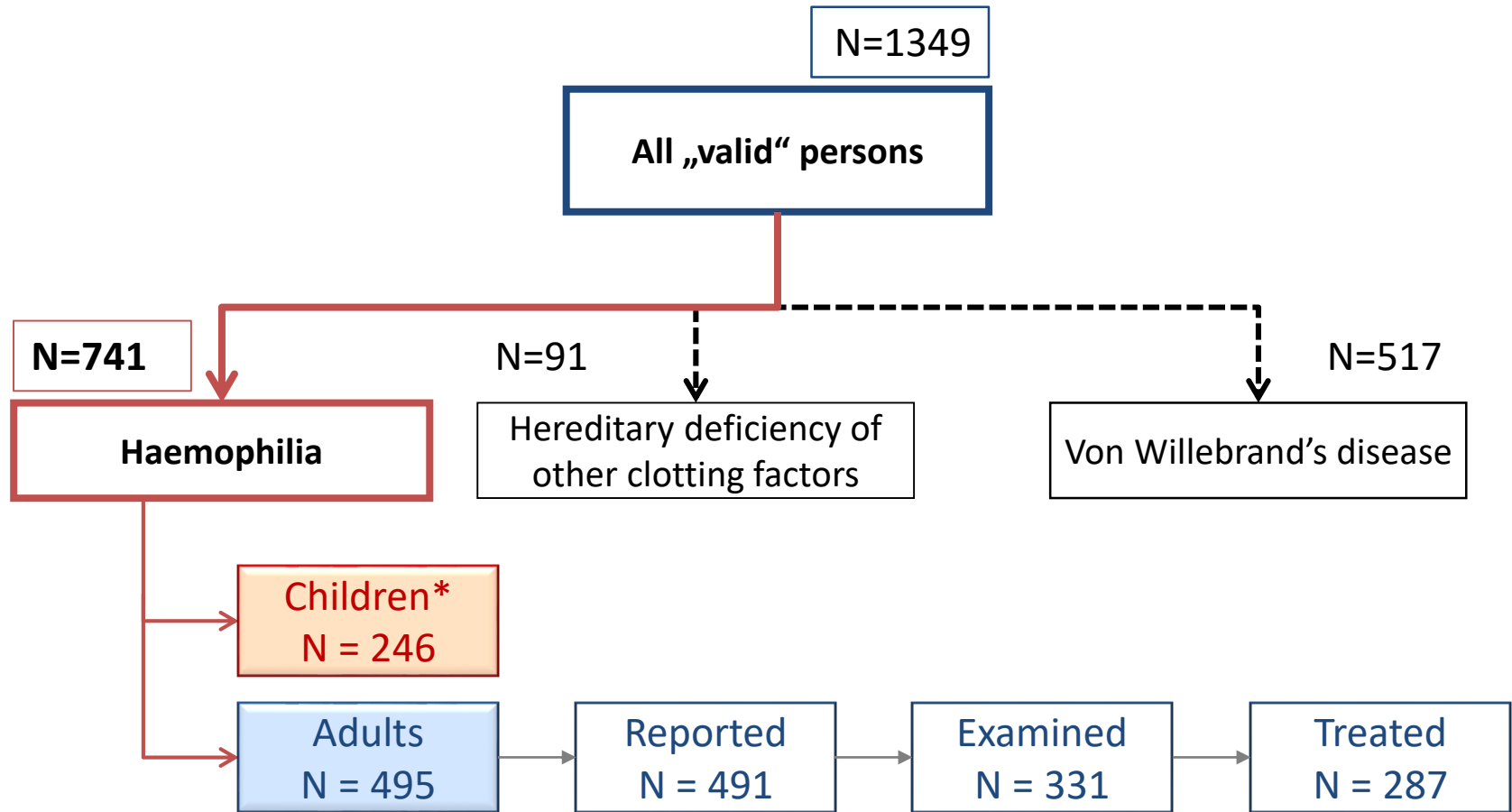
Petr Smejkal, Petra Ovesná

Sample size 2012



* Persons under 19 years old in 2012

Sample size 2015



* Persons under 19 years old in 2015

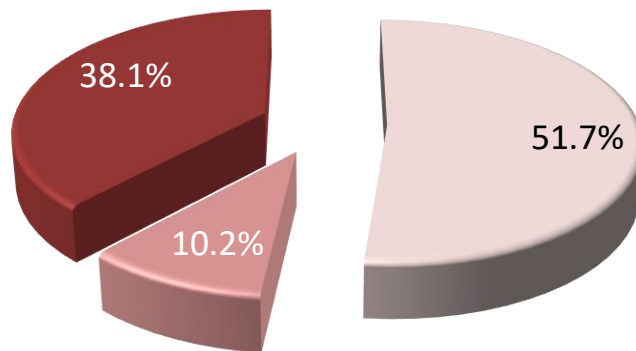
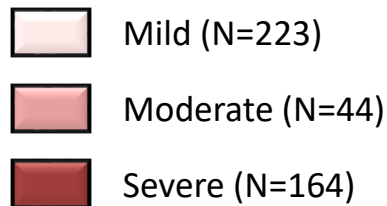
Participating centres in CNHP

Paediatric centres	Valid persons	
	N	%
FN Motol – Dpt. of Pediatric Haematology and Oncology	90	12.1
FN Brno – DN – Dpt. of Pediatric Haematology	51	6.9
FNHK – Dpt. of Pediatric Medicine	29	3.9
UnL – Pediatric Dpt. – Haematology	28	3.8
FN Ostrava – Dpt. of Pediatric Medicine	25	3.4
FN Plzen – Pediatric Dpt.	14	1.9
CB – Pediatric Dpt.	13	1.8
FN Olomouc – Dpt. of Pediatric Medicine	12	1.6

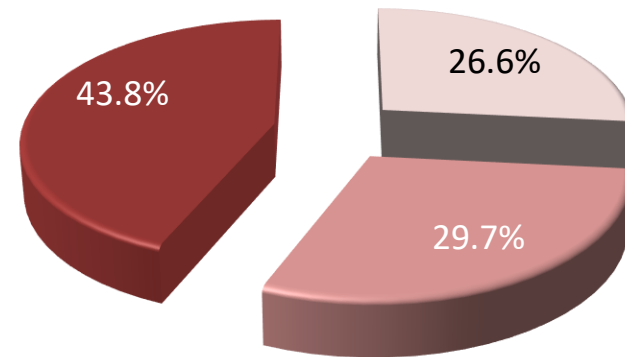
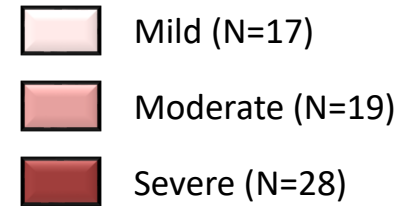
Adult centres	Valid persons	
	N	%
FN Brno – OKH	143	19.3
FN Ostrava – Blood centre	72	9.7
FN Olomouc – Haemato-Oncology Dpt.	62	8.4
FN Plzen – UKBH	49	6.6
FN a LF HK – IV. IHK	47	6.3
KN Liberec – OKH	43	5.8
CB – OKH	28	3.8
UnL – OKH	26	3.5
Plzen - hemacentrum	9	1.2

Type and severity of haemophilia II

Haemophilia A (N=431)

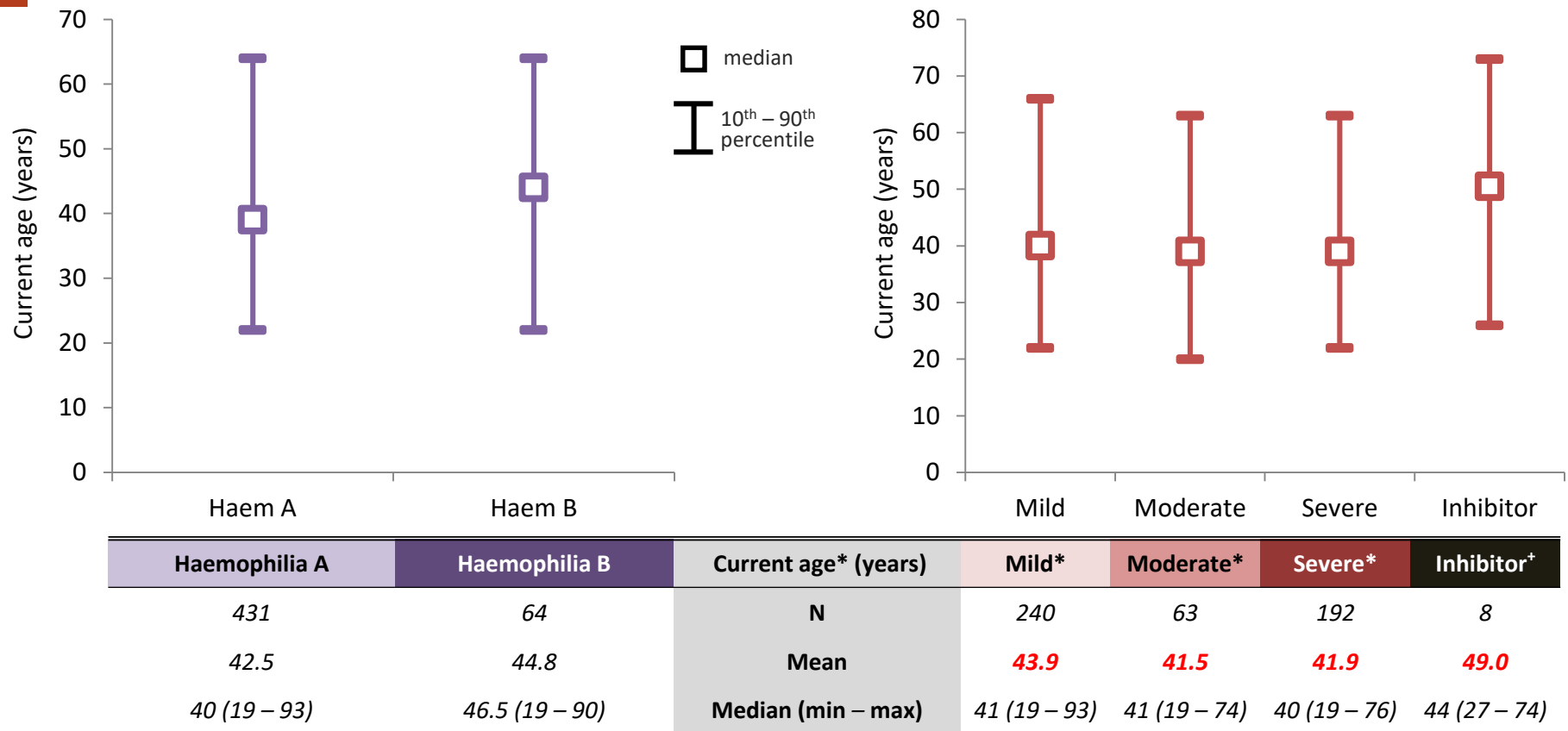


Haemophilia B (N=64)



Actual age according to type and severity of haemophilia

Adults
N=495

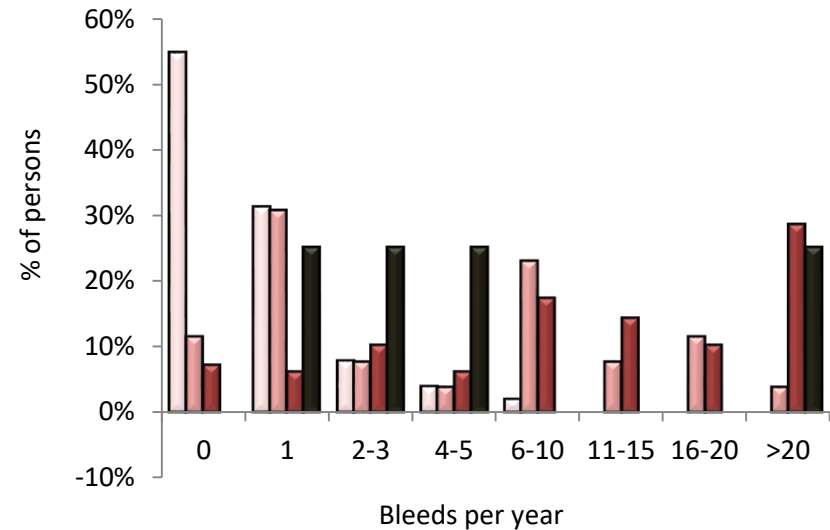
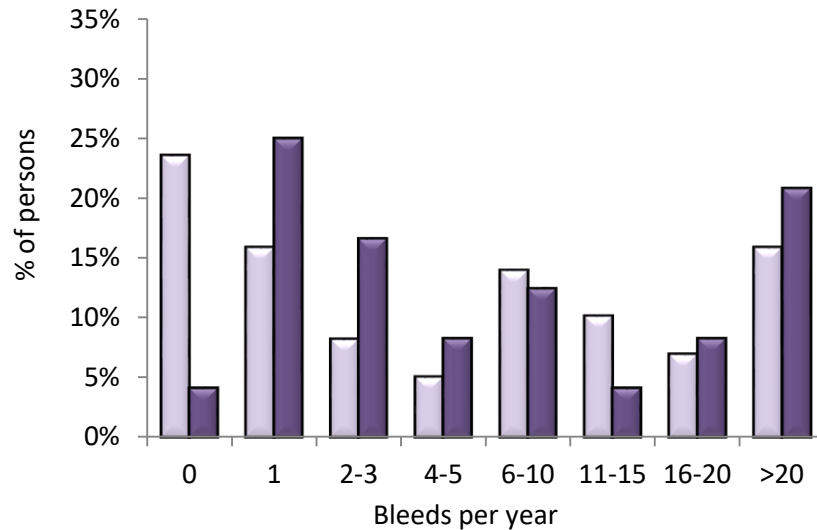


*Current age = age reached in year 2015

* including persons with inhibitor
+ in 2015

Frequency of bleeding requiring treatment in 2012

Adults
N=252
(examined)



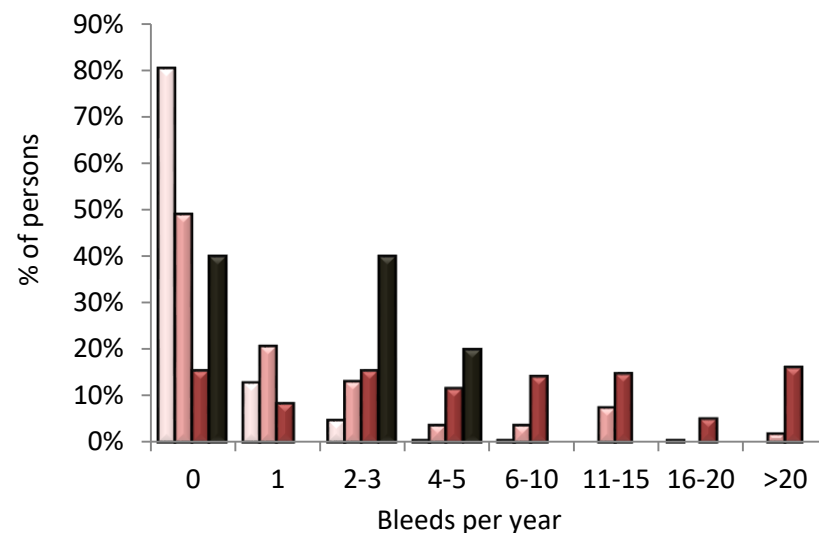
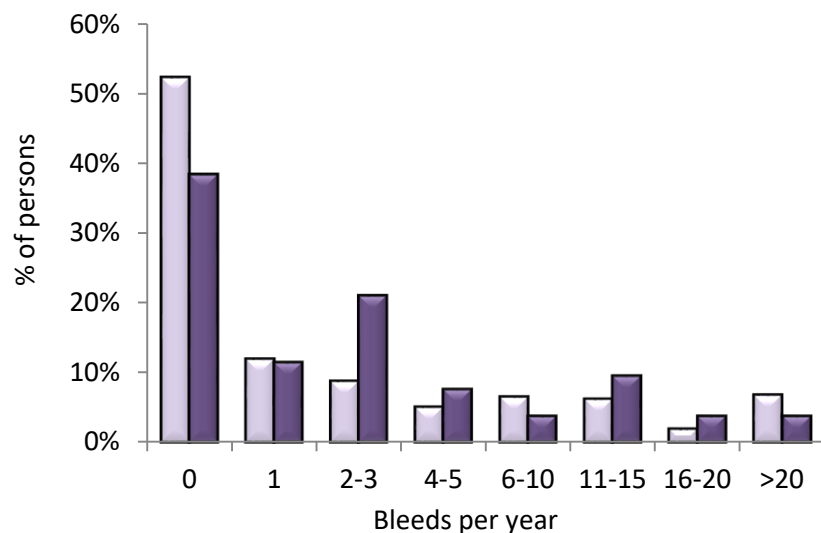
Haemophilia A	Haemophilia B	Frequency of bleeding	Mild*	Moderate*	Severe*	Inhibitor
211	41	N total	64	36	144	4
157	24	N valid	51	26	98	4
10.5	15.3	Mean	0.8	6.5	17.7 / 6.3[†]	8.5
5 (0 – 144)	5 (0 – 132)	Median (min – max)	0 (0 – 7)	3.5 (0 – 31)	12.5/ 4 (0 – 144)	3.5 (1 – 26)

Frequency of bleeding is missing in 188 adults.

* without inhibitor

[†] mean and median of frequency of bleeding in adults with severe haemophilia without inhibitor on permanent prophylaxis

Frequency of bleeding requiring treatment in 2013



Haemophilia A	Haemophilia B	Frequency of bleeding	Mild*	Moderate*	Severe*	Inhibitor
352	53	N total	185	54	159	5
350	52	N valid	185	53	157	5
4.9	4.8	Mean	0.4	2.5	11.2 / 6.3 [†]	1.8
0 (0 – 124)	1.5 (0 – 53)	Median (min – max)	0 (0 – 17)	1 (0 – 30)	5 / 3 (0 – 124)	2 (0 – 5)

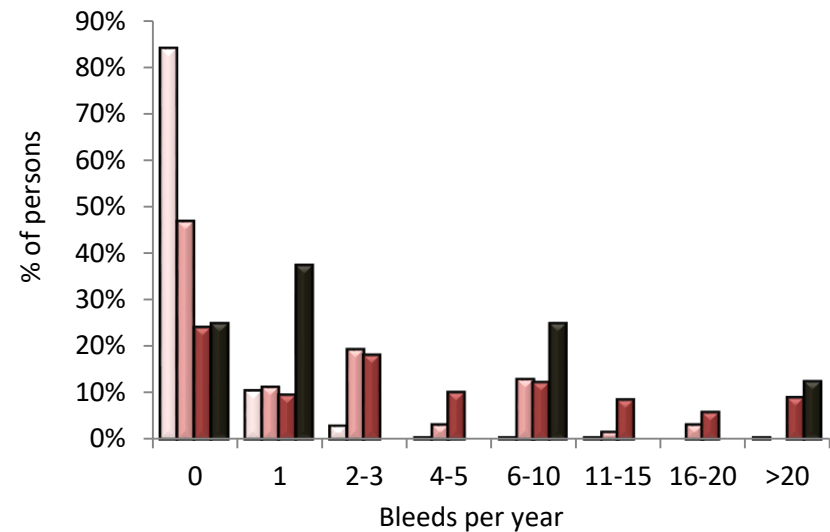
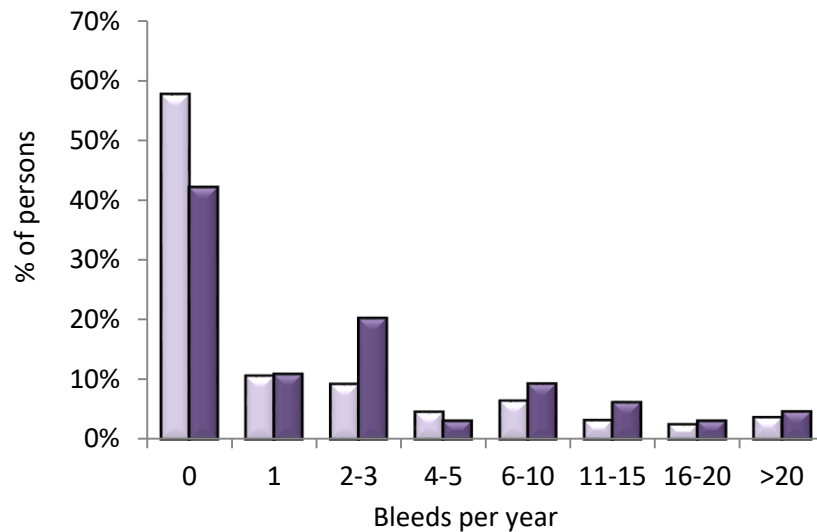
Frequency of bleeding is missing in 188 adults.

* without inhibitor

[†] mean and median of frequency of bleeding in adults with severe haemophilia without inhibitor on permanent prophylaxis

Frequency of bleeding requiring treatment in 2015

Adults
N=488
(reported)



Haemophilia A	Haemophilia B	Frequency of bleeding	Mild*	Moderate*	Severe*	Inhibitor
424	64	N valid	236	61	183	8
3.3	4.0	Mean	0.4	2.7	7.4	5.6
0 (0 – 59)	1 (0 – 24)	Median (min – max)	0 (0 – 27)	1 (0 – 20)	3 (0 – 59)	1 (0 – 22)

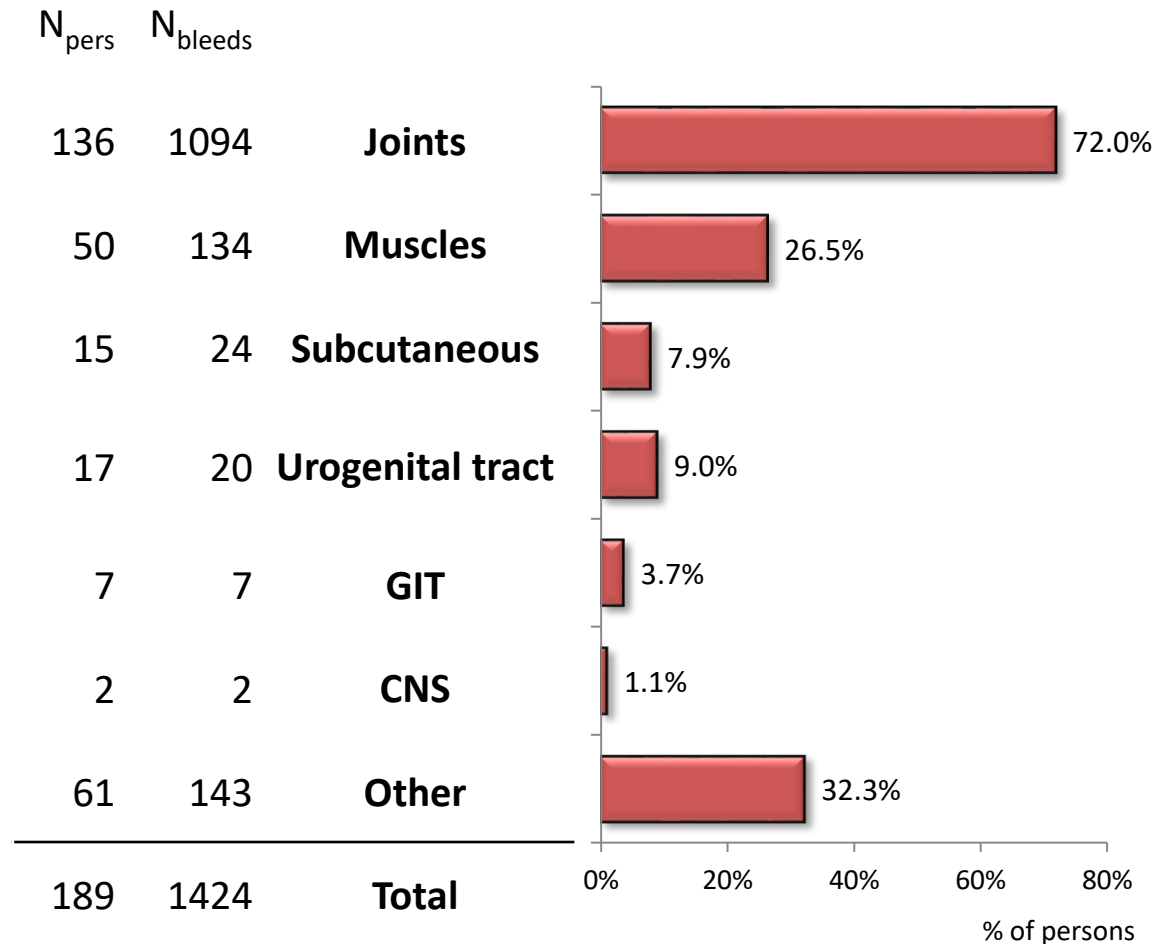
¹Frequency of bleeding is missing in 3 adults.

* without inhibitor

Location of bleeds in 2015

212 (43.4%) adults experienced bleeding requiring treatment at least once in year; 1663 bleeds were recorded in total, 61 bleeds required hospitalization.

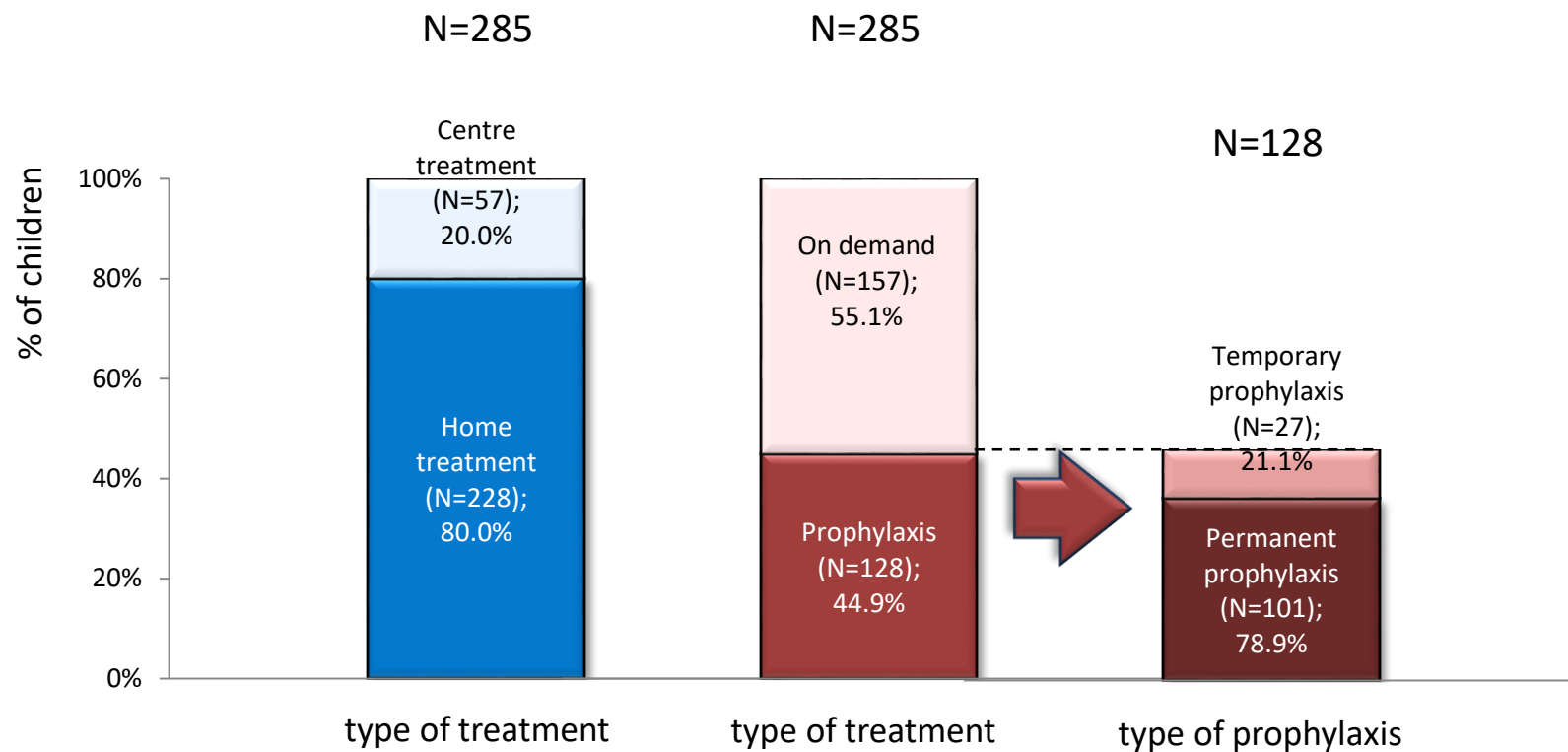
189 of these 212 adults have recorded location of their bleeds. Localization is not known in 23 adults. 276 (56.6%) adults have recorded no bleed during year 2015.



¹Frequency of bleeding is missing in 3 adults.

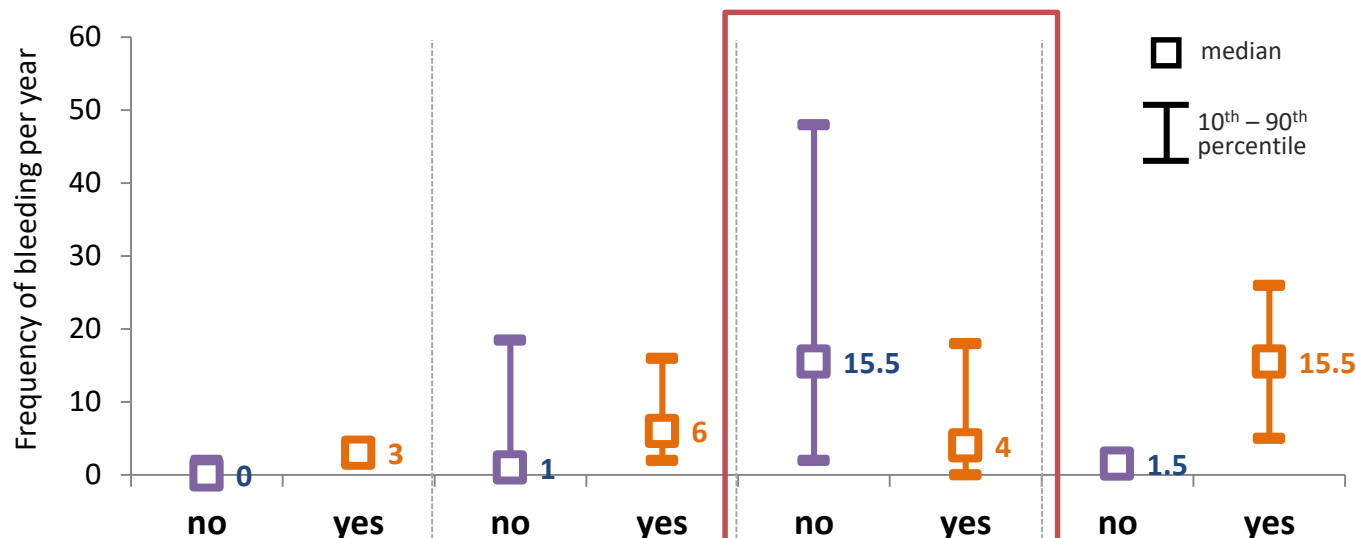
Type of treatment 2015

Adults
N=285
(treated)



Bleeding requiring treatment according to prophylaxis 2012

Adults
N=179
(examined)



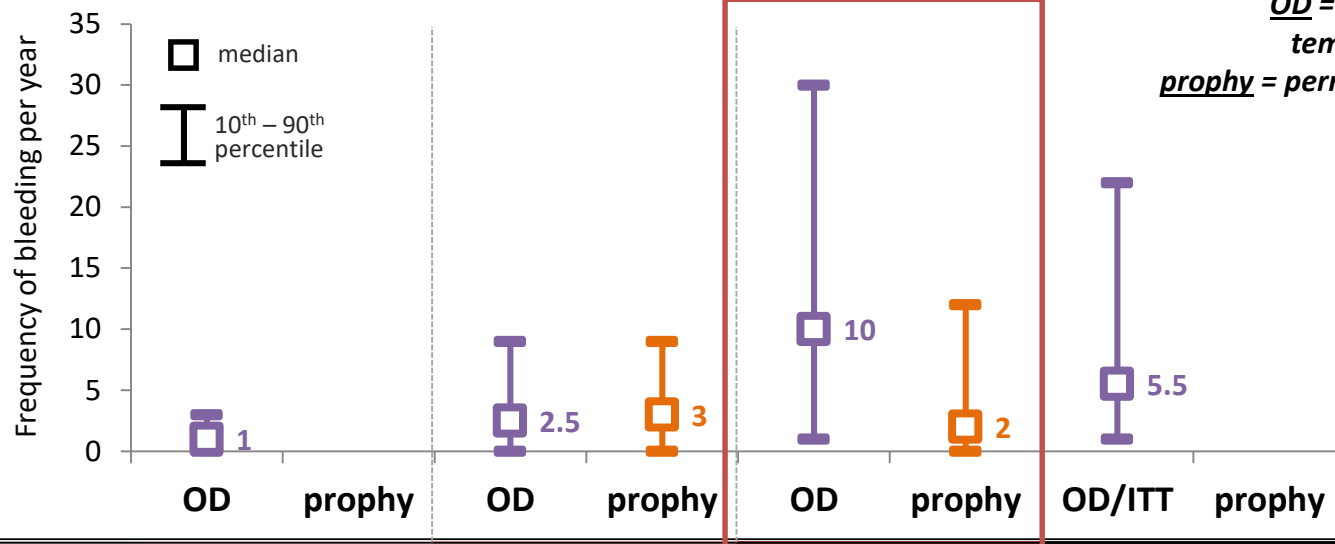
permanent prophylaxis

Frequency of bleeding	Mild*		Moderate*		Severe*		Inhibitor	
N	50	1	20	6	68	30	2	2
Mean	0.8	3.0	6.3	7.5	22.8	6.3	1.5	15.5
Median (min – max)	0 (0 – 7)	3	1 (0 – 31)	6 (2 – 16)	15.5 (0 – 144)	4 (0 – 31)	1.5 (1 – 2)	15.5 (5 – 26)
adults on permanent prophylaxis	1 (1.7%)		8 (22.9%)		38 (27%)		2 (50%)	
% of drugs (FVIII and FIX) consumed by adults on permanent prophylaxis	1.4 %		6.5 %		42.8 %		0.9 %	

* without inhibitor

Adults
N=285
(treated)

Annual bleeding rate according to treatment regimen 2015



Treatment regimen:
OD = on demand and/or temporary prophylaxis
prophy = permanent prophylaxis

Frequency of bleeding	Mild*		Moderate*		Severe*		Inhibitor	
N total	69	0	33 ¹	9	76 ¹	92	6	0
Mean	1.4		4.3	3.3	12.5	4.6	7.5	
Median (min – max)	1 (0 – 27)		2.5 (0 – 20)	3 (0 – 9)	10 (0 – 59)	2 (0 – 53)	5.5 (1 – 22)	
Total no of recorded bleeds	94		137	30	934	423	45	
adults on permanent prophylaxis	0 (0%)		9 (21.4%)		92 (54.8%)		0 (0%)	
% of drugs (FVIII and FIX) consumed by adults on permanent prophylaxis	0.0%		58.4%		79.9%		0.0%	

* without inhibitor

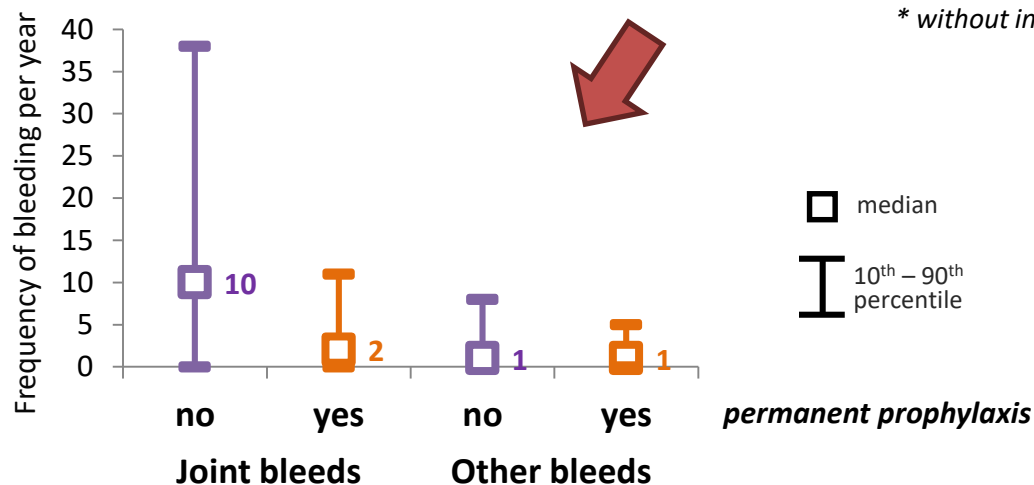
¹ Frequency of bleeding is missing in 1 adult.

Joint and other bleeds according to prophylaxis 2013

Adults
N=315
(examined)

Frequency of bleeding	Mild*		Moderate*		Severe*		Inhibitor	
N total	122	0	34	7	90	57	5	0
N valid	107	0	25	6	60	35	3	0
JOINT BLEEDS								
Mean	0.1		1.6	3.7	15.2	3.8	0	
Median (range)	0 (0 – 5)		0 (0 – 17)	1 (0 – 12)	10 (0–124)	2 (0 – 30)	0	
Total bleeding rate	10		41	22	909	133	0	
OTHER BLEEDS								
Mean	0.2		1.1	0.0	2.6	1.6	0.7	
Median (range)	0 (0 – 3)		0 (0 – 13)	0	1 (0–24)	1 (0 – 8)	0 (0 – 2)	
Total bleeding rate	19		27	0	154	55	2	

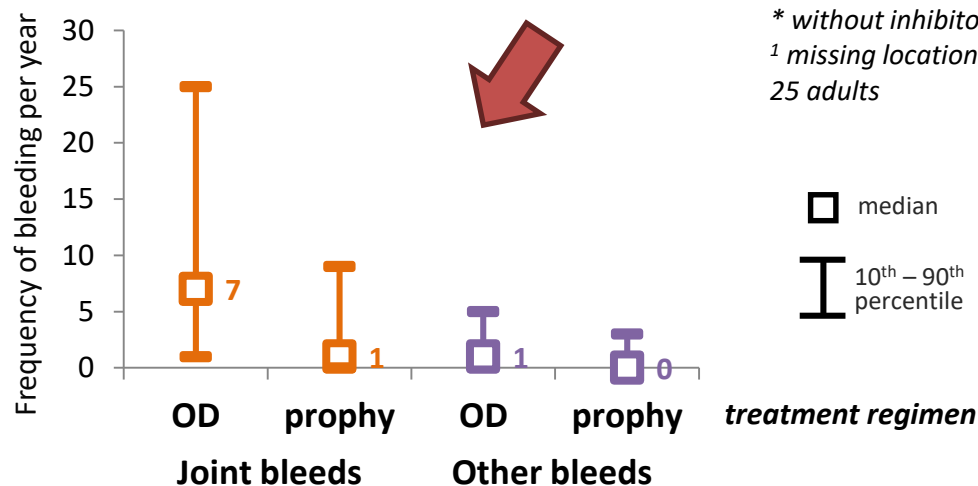
* without inhibitor



Joint and other bleeds according to treatment regimen 2015

Adults
N=260¹
(treated)

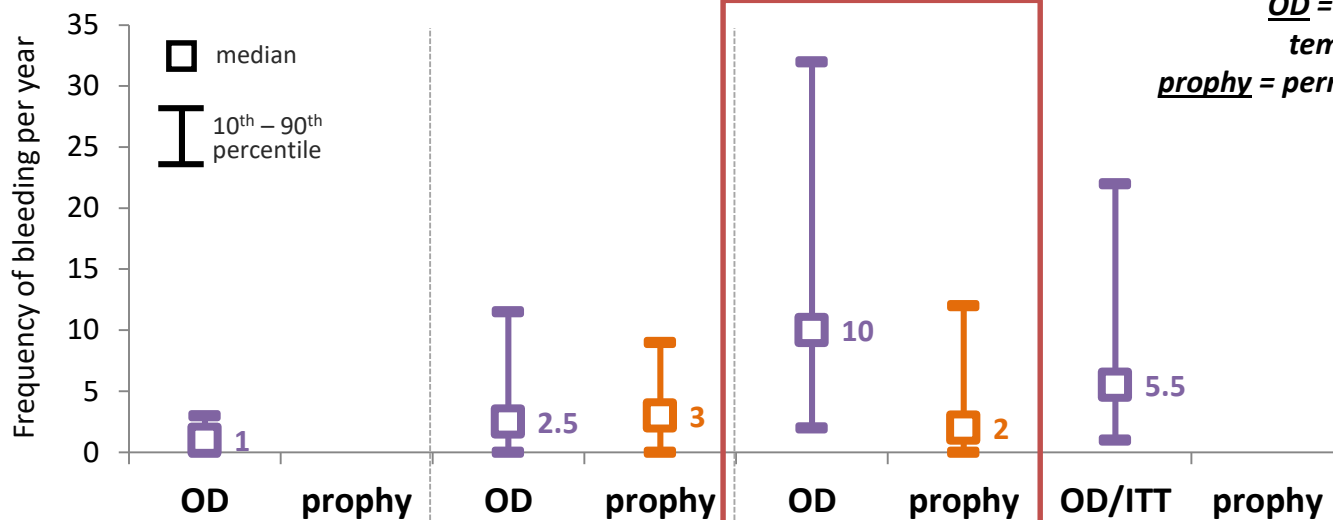
Frequency of bleeding	Mild*		Moderate*		Severe*		Inhibitor	
Treatment regimen	OD	prophy	OD	prophy	OD	prophy	OD	prophy
N valid	67	0	30	9	63	86	5	0
JOINT BLEEDS								
Mean	0.4		3.0	2.8	10.7	3.0	4	
Median (range)	0 (0 – 9)		0 (0 – 19)	3 (0 – 9)	7 (0 – 59)	1 (0 – 35)	1 (0 – 18)	
Total no of recorded bleeds	30		89	25	676	254	20	
OTHER BLEEDS								
Mean	0.9		1.4	0.6	2.0	1.0	3	
Median (range)	0 (0 – 18)		1 (0 – 8)	0 (0 – 5)	1 (0 – 17)	0 (0 – 15)	1 (0 – 10)	
Total no of recorded bleeds	58		41	5	124	87	15	



Treatment regimen:
OD = on demand and/or temporary
prophylaxis
prophy = permanent prophylaxis

Adults
(haem A)
N=238

Annual bleeding rate according to treatment regimen 2015



Treatment regimen:
OD = on demand and/or temporary prophylaxis
prophy = permanent prophylaxis

Frequency of bleeding	Mild*		Moderate*		Severe*		Inhibitor	
N total	62	0	21 ¹	8	60 ¹	81	6	0
Mean	1.3		4.3	3.5	13.4	4.7	7.5	
Median (min – max)	1 (0 – 27)		2.5 (0 – 20)	3 (0 – 9)	10 (0 – 59)	2 (0 – 53)	5.5 (1 – 22)	
Total no of recorded bleeds	80		86	28	791	379	45	
adults on permanent prophylaxis	0 (0%)		8 (27.6%)		81 (57.4%)		0 (0%)	
% of drugs (FVIII and FIX) consumed by adults on permanent prophylaxis	0.0%		73.8%		82.6%		0.0%	

treatment regimen

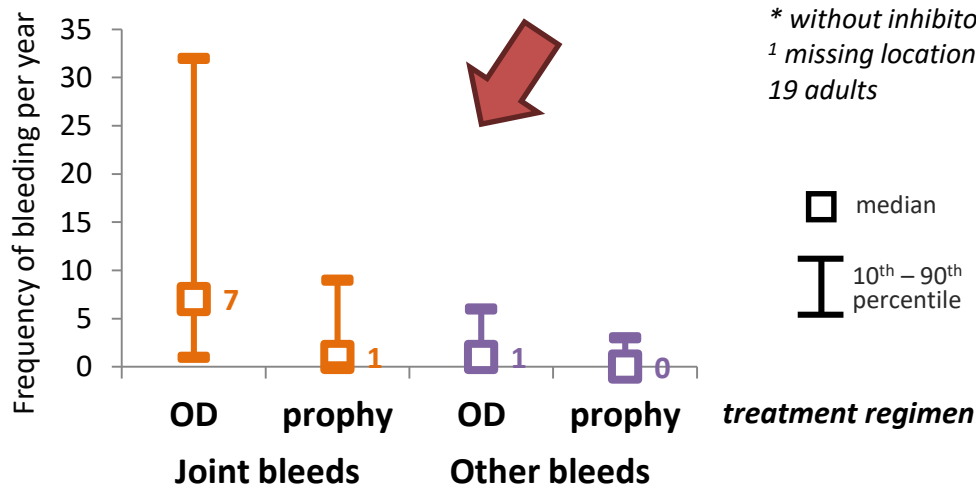
* without inhibitor

¹ Frequency of bleeding is missing in 1 adult.

Joint and other bleeds according to treatment regimen 2015

Adults
(haem A)
N=219¹

Frequency of bleeding	Mild*		Moderate*		Severe*		Inhibitor	
Treatment regimen	OD	prophy	OD	prophy	OD	prophy	OD	prophy
N valid	61	0	20	8	48	77	5	0
JOINT BLEEDS								
Mean	0.4		3.2	2.9	11.7	2.9	4	
Median (range)	0 (0 – 9)		0.5 (0 – 19)	3 (0 – 9)	7 (0 – 59)	1 (0 – 35)	1 (0 – 18)	
Total no of recorded bleeds	24		64	23	561	225	20	
OTHER BLEEDS								
Mean	0.9		1.1	0.6	2.2	1.0	3	
Median (range)	0 (0 – 18)		1 (0 – 4)	0 (0 – 5)	1 (0 – 17)	0 (0 – 15)	1 (0 – 10)	
Total no of recorded bleeds	53		21	5	101	78	15	



Treatment regimen:
OD = on demand and/or temporary
prophylaxis
prophy = permanent prophylaxis

ABR according to treatment regimen and age 2015

Adults
(haem A)
N=231

Frequency of bleeding	Mild*		Moderate*		Severe*		Inhibitor		Adults (haem A) born before 1990 N=189
Treatment regimen	OD	Prophy	OD	Prophy	OD	Prophy	OD/ITT	Prophy	
N total	50	0	15	4	56	58	6	0	
Mean	1.2		5.1	3.8	13.9	5.3	7.5		
Median (min – max)	0 (0 – 27)		2.5 (0 – 20)	3 (0 – 9)	10 (0 – 59)	2 (0 – 53)	5.5 (1 – 22)		
Total no of recorded bleeds	59		72	15	764	307	45		
adults on permanent prophylaxis	0 (0%)		4 (21.1%)		58 (50.9%)		0 (0%)		
% of drugs (FVIII and FIX) consumed by adults on permanent prophylaxis	0.0%		61.9%		78.8%		0.0%		
Frequency of bleeding	Mild*		Moderate*		Severe*		Inhibitor		Adults (haem A) born in 1990 or later N=42
Treatment regimen	OD	Prophy	OD	Prophy	OD	Prophy	OD/ITT	Prophy	
N total	12	0	6	2	4	18	0	0	
Mean	1.8		2.3	0.5	6.8	2.1			
Median (min – max)	1 (0 – 11)		2.5 (1 – 3)	0.5 (0 – 1)	4.5 (1 – 17)	1 (0 – 7)			
Total no of recorded bleeds	21		14	1	27	37			
adults on permanent prophylaxis	0 (0%)		2 (25%)		18 (81.8%)		-		
% of drugs (FVIII and FIX) consumed by adults on permanent prophylaxis	0.0%		83.5%		92.9%		-		

Joint and other bleeds according to treatment regimen and age 2015

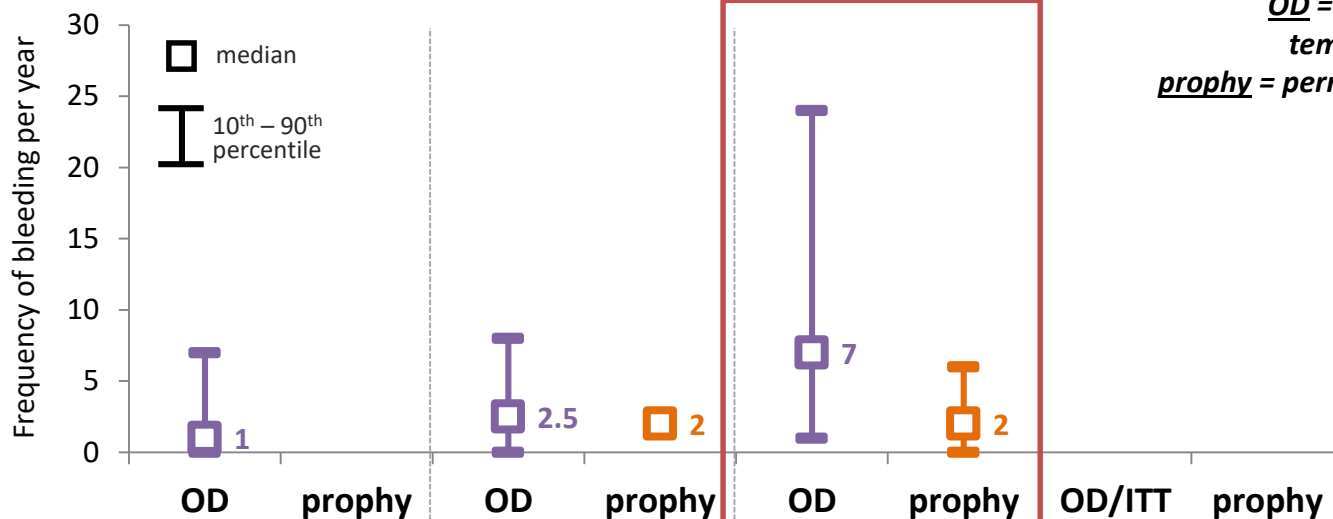
Adults
(haem A)
N=212

Frequency of bleeding	Mild*		Moderate*		Severe*		Inhibitor		Adults (haem A) born before 1990 N=170
Treatment regimen	OD	prophy	OD	prophy	OD	prophy	OD	prophy	
N valid	49	0	14	4	44	54	5	0	
JOINT BLEEDS									
Mean	0.4		4.2	2.5	12.3	3.2	4		
Median (range)	0 (0 – 9)		0.5 (0 – 19)	3 (0 – 4)	7.5 (0 – 59)	1.5 (0 – 35)	1 (0 – 18)		
Total no of recorded bleeds	20		59	10	540	173	20		
OTHER BLEEDS									
Mean	0.7		0.9	1.3	2.3	1.1	3		
Median (range)	0 (0 – 18)		0.5 (0 – 4)	0 (0 – 5)	1 (0 – 17)	0 (0 – 15)	1 (0 – 10)		
Total no of recorded bleeds	36		12	5	97	58	15		

Frequency of bleeding	Mild*		Moderate*		Severe*		Inhibitor		Adults (haem A) born in 1990 or later N=42
Treatment regimen	OD	prophy	OD	prophy	OD	prophy	OD	prophy	
N valid	12	0	6	2	4	18	0	0	
JOINT BLEEDS									
Mean	0.3		0.8	0.5	5.3	1.2			
Median (range)	0 (0 – 3)		0.5 (0 – 2)	0.5 (0 – 1)	3 (0 – 15)	0.5 (0 – 7)			
Total no of recorded bleeds	4		5	1	21	21			
OTHER BLEEDS									
Mean	1.4		1.5	0.0	1.3	0.9			
Median (range)	1 (0 – 8)		1 (1 – 3)	0 (0 – 0)	1 (0 – 3)	0.5 (0 – 5)			
Total no of recorded bleeds	17		9	0	4	16			

Annual bleeding rate according to treatment regimen 2015

Treatment regimen:
OD = on demand and/or temporary prophylaxis
prophy = permanent prophylaxis



Frequency of bleeding	Mild*		Moderate*		Severe*		Inhibitor	
N total	7	0	12	1	16	11	0	0
Mean	2.0		4.3	2.0	8.9	4.0		
Median (min – max)	1 (0 – 7)		2.5 (0 – 20)	2	7 (0 – 24)	2 (0 – 24)		
Total no of recorded bleeds	14		51	2	143	44		
adults on permanent prophylaxis	0 (0%)		1 (7.7%)		11 (40.7%)		-	
% of drugs (FVIII and FIX) consumed by adults on permanent prophylaxis	0.0%		5.2%		61.2%		-	

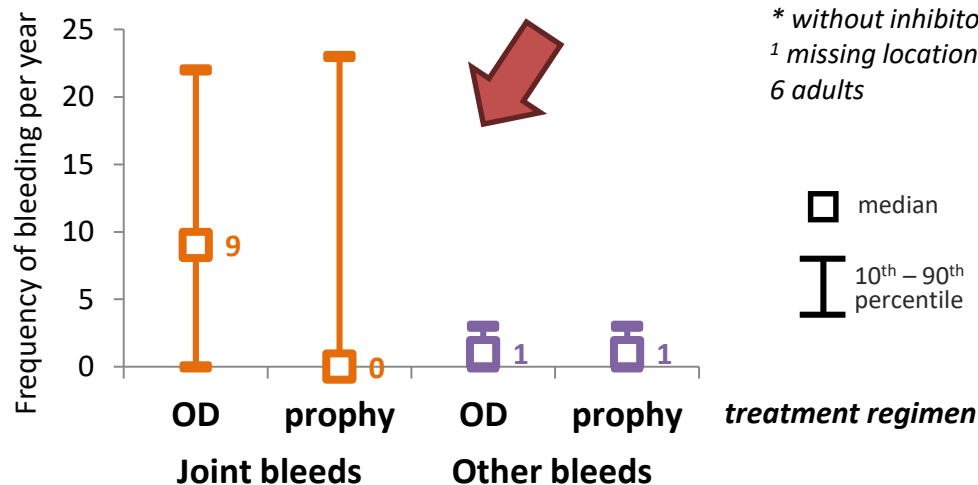
* without inhibitor

¹ Frequency of bleeding is missing in 1 adult.

Joint and other bleeds according to treatment regimen 2015

Adults
(haem B)
N=41¹

Frequency of bleeding	Mild*		Moderate*		Severe*		Inhibitor	
Treatment regimen	OD	prophy	OD	prophy	OD	prophy	OD	prophy
N valid	6	0	10	1	15	9	0	0
JOINT BLEEDS								
Mean	1.0		2.5	2.0	7.7	3.2		
Median (range)	0 (0 – 4)		0 (0 – 18)	2	9 (0 – 24)	0 (0 – 23)		
Total no of recorded bleeds	6		25	2	115	29		
OTHER BLEEDS								
Mean	0.8		2.0	0.0	1.5	1.0		
Median (range)	0.5 (0 – 3)		1 (0 – 8)	0	1 (0 – 7)	1 (0 – 3)		
Total no of recorded bleeds	5		20	0	23	9		

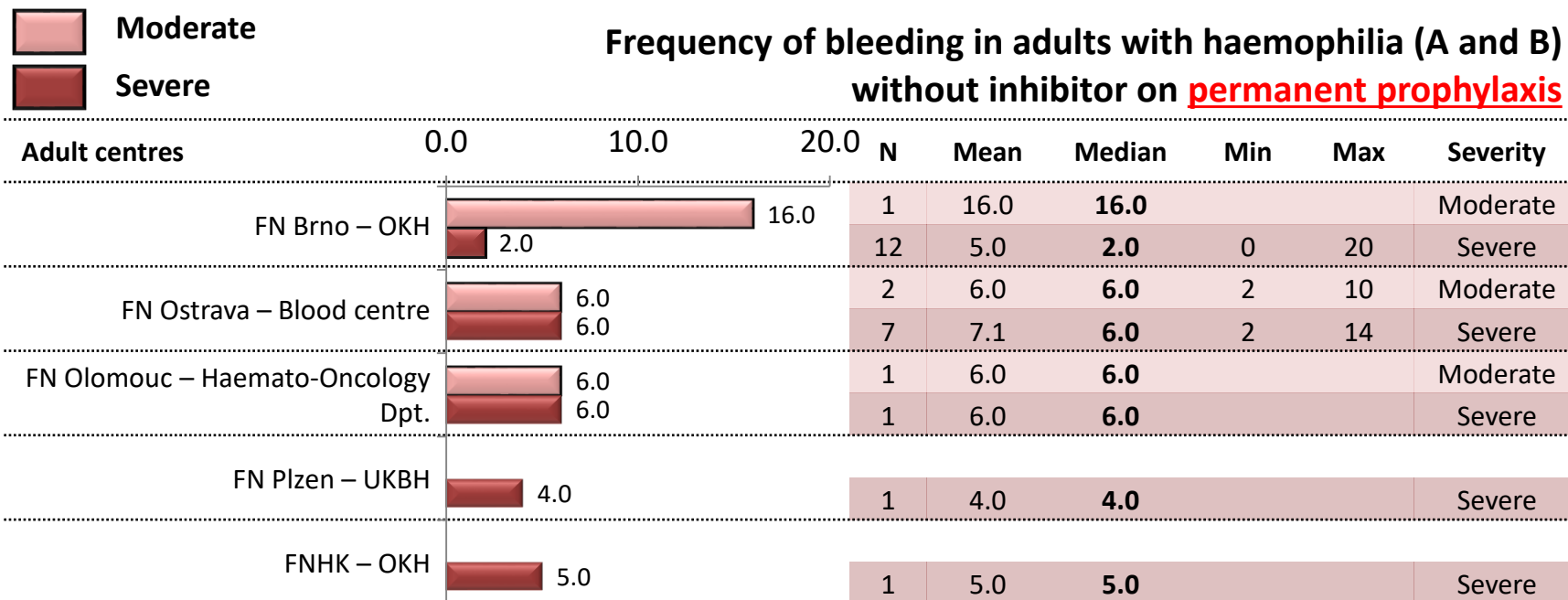


Treatment regimen:

**OD = on demand and/or temporary
prophylaxis**

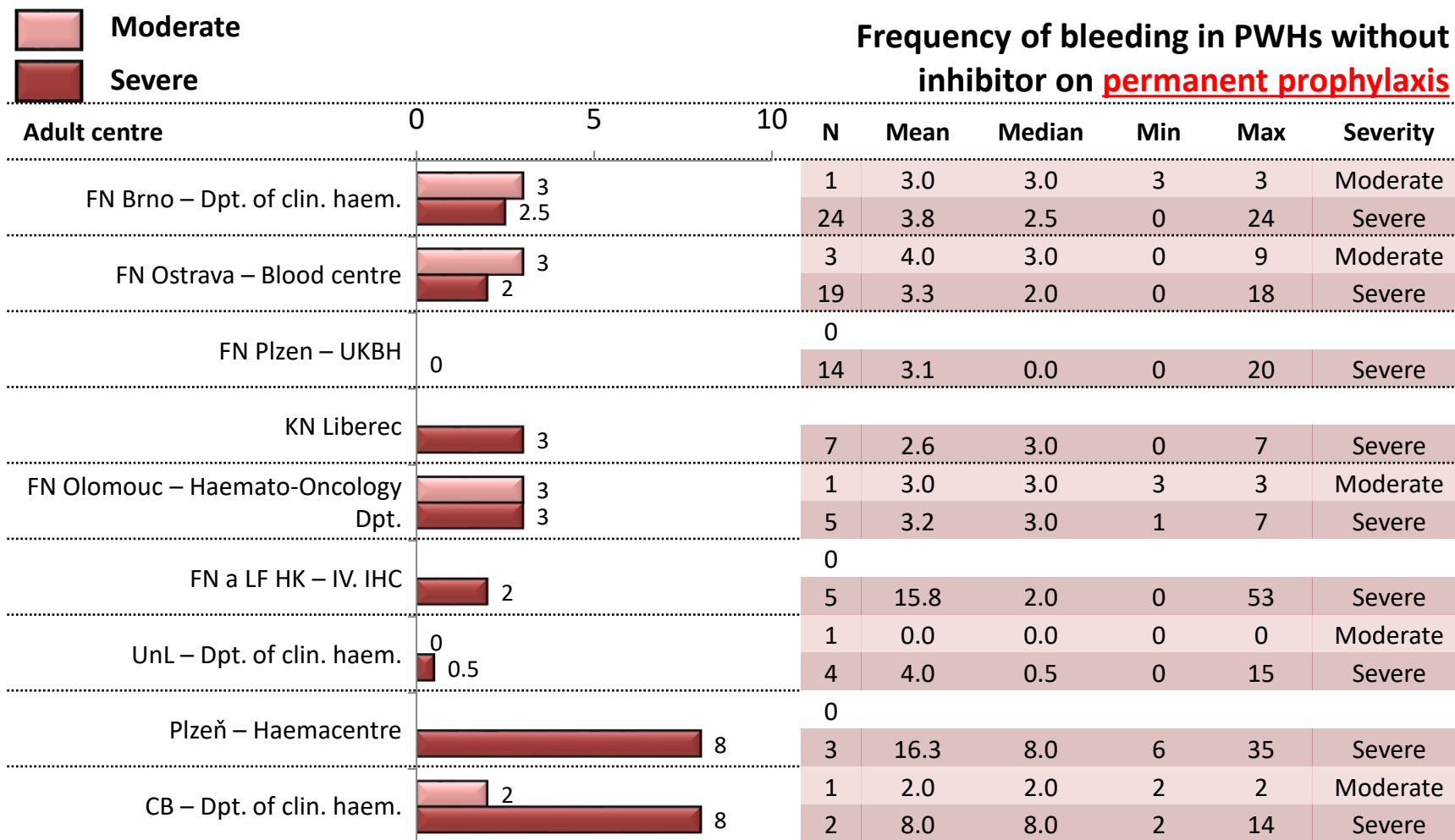
prophy = permanent prophylaxis

Bleeding requiring treatment according to centres 2012



Annual bleeding rate on permanent prophylaxis in adult centres 2015

PWHs on prophylaxis
in adult centres
N=90



Bleeding requiring treatment according to centres 2012



Frequency of bleeding in adults with haemophilia (A and B) without inhibitor regardless of prophylaxis

Adult centres	0.0	50.0	N	Mean	Median	Min	Max	% on premanent prophylaxis
FN Brno – OKH	1.0	7.0	11	4.2	1.0	0	16	9.1
			35	9.0	7.0	0	28	34.3
FN Ostrava – Blood centre	15.0	12.5	7	14.4	15.0	2	31	28.6
			24	16.5	12.5	2	64	29.2
FN Olomouc – Haemato-Oncology Dpt.	1.0	36.0	5	2.2	1.0	1	6	20.0
			9	29.2	36.0	1	64	11.1
FN Plzen – UKBH	20.0		8	17.0	20.0	4	25	12.5
FNHK – OKH	1.0	34.0	1	1.0	1.0			0.0
			6	59.8	34.0	5	144	16.7
UnL – OKH	44.0		4	39.5	44.0	20	50	0.0

Annual bleeding rate regardless prophylaxis in adult centres 2015

PWHs in
adult centres
N=229



Frequency of bleeding in PWHs without
inhibitor **regardless of prophylaxis**

Adult centre	0	5	10	15	N	Mean	Median	Min	Max	% on permanent prophylaxis
FN Brno – Dpt. of clin. haem.	0.0				20	2.4	0.0	0	20	5.0%
		3.0			43	5.4	3.0	0	32	55.8%
FN Ostrava – Blood centre	3.0				10	4.3	3.0	0	9	30.0%
		3.5			30	5.7	3.5	0	24	63.3%
FN Plzen – UKBH	0.0				5	1.2	0.0	0	3	0.0%
		3.0			26	6.8	3.0	0	25	53.8%
KN Liberec	0.0				2	0.0	0.0	0	0	0.0%
		3.0			12	3.3	3.0	0	9	53.8%
FN Olomouc – Haemato-Oncology Dpt.	1.0				8	2.3	1.0	0	7	12.5%
			11.5		22	12.2	11.5	0	39	20.8%
FN a LF HK – IV. IHC	0.0				3	0.7	0.0	0	2	0.0%
		4.0			13	10.3	4.0	0	53	38.5%
UnL – Dpt. of clin. haem.	0.5				4	3.8	0.5	0	14	25.0%
		4.0			10	17.2	4.0	0	59	40.0%
Plzeň – Haemacentre					0					
			13.0		5	18.8	13.0	6	35	60.0%
CB – Dpt. of clin. haem.	0.0				4	0.5	0.0	0	2	25.0%
		2.0			12	2.7	2.0	0	14	16.7%

Prophylaxis according to centres 2013

Frequency of bleeding
(median, 10th and 90th percentile)

0 20 40 60

■ permanent prophylaxis
● without prophylaxis

Adult centres	Severity of haemophilia	N	% with/without prophylaxis		Dosing of prophylaxis: IU/kg per week					
					N	Mean	Median	Min	Max	
FN Brno – OKH	Moderate	N=21	95.2		0					
	Severe	N=39	53.8	46.2	21	51.3	48.4	26.9	105.3	
FN Ostrava – Blood centre	Moderate	N=7	14.3	86	0					
	Severe	N=31	41.9	58.1	0					
FN Olomouc – HOK	Moderate	N=8	12.5	87.5	1	11.8	11.8			
	Severe	N=23	8.7	91.3	2	28.9	28.5	14.9	42.9	
FN Plzeň – UKBH	Moderate	N=5		100						
	Severe	N=19	31.6	68.4	0					
FN a LF HK – IV. IHK	Moderate	N=1		100						
	Severe	N=10	40.0	60.0	3	23.7	21.7	0.9	48.4	

Prophylactic regimens and treatment outcomes in adult centres 2015

PWHs in
adult centres
N=232

Adult centre	Severity	Total N	% on perm prophylaxis	% w/o perm prophylaxis	Dosing of prophylaxis (IU/kg per week)					Annual bleeding rate ON permanent prophylaxis		ON perm prophylaxis	Annual bleeding rate WITHOUT perm prophylaxis		W/O perm prophylaxis
					N	Mean	Median	Min	Max	Mean	Median	Median age	Mean	Median	Median age
FN Brno – DCH	Moderate	20	5.0%	95.0%	1	42.9	42.9	42.9	42.9	3.0	3.0	26	2.4	0.0	44
	Severe	43	55.8%	44.2%	22	51.1	36.8	12.1	175.0	3.8	2.5	30	7.5	5.0	52
FN Ostrava – Blood centre	Moderate	10	30.0%	70.0%	3	45.9	50.0	24.4	63.2	4.0	3.0	63	4.4	3.0	62
	Severe	30	63.3%	36.7%	19	41.4	39.5	14.3	72.3	3.3	2.0	36	9.8	11.0	58
FN Plzeň – UKBH	Moderate	5	0.0%	100.0%	0								1.2	0.0	39
	Severe	26	53.8%	46.2%	8	11.3	11.4	5.7	20.0	3.1	0.0	46	11.1	10.0	46
KN Liberec	Moderate	2	0.0%	100.0%	0								0.0	0.0	38
	Severe	13	53.8%	46.2%	7	41.2	40.3	21.4	62.7	2.6	3.0	37	4.2	3.0	47
FN Olomouc – HOC	Moderate	8	12.5%	87.5%	1	34.9	34.9	34.9	34.9	3.0	3.0	25	2.1	1.0	42
	Severe	24	20.8%	79.2%	5	34.4	42.9	14.1	52.0	3.2	3.0	25	14.8	13.0	51
FN a LF HK – IV. IHC	Moderate	3	0.0%	100.0%	0								0.7	0.0	20
	Severe	13	38.5%	61.5%	4	40.8	44.4	21.7	52.6	15.8	2.0	35	6.9	4.0	39
UnL – DCH	Moderate	4	25.0%	75.0%	1	75.0	75.0	75.0	75.0	0.0	0.0	23	5.0	1.0	23
	Severe	10	40.0%	60.0%	3	56.3	51.4	32.3	85.2	4.0	0.5	28	26.0	22.0	40
Plzeň - Haemacentre	Moderate	1	0.0%	100.0%	0								na		46
	Severe	5	60.0%	40.0%	1	25.0	25.0	25.0	25.0	16.3	8.0	42	22.5	22.5	34
CB – DCH	Moderate	4	25.0%	75.0%	0	na				2.0	2.0	49	0.0	0.0	62
	Severe	12	16.7%	83.3%	0	na				8.0	8.0	49	1.6	1.0	49

Consumption of drugs 2012

Drug	Total annual consumption	Number of <u>treated</u> persons	Average annual consumption per <u>treated</u> person	Number of <u>examined</u> adults	Average annual consumption per <u>examined</u> adult
<i>Immunate</i>	4 503 500 IU	63	71 484.1 IU	211	21 343.6 IU
<i>Fanhdi</i>	4 657 250 IU	53	87 872.6 IU		22 072.3 IU
<i>Octanate</i>	335 500 IU	6	55 916.7 IU		1 590.0 IU
<i>Haemoctin</i>	191 000 IU	2	95 500.0 IU		905.2 IU
FVIII <i>Advate</i>	1 087 657 IU	8	135 957.1 IU		5 154.8 IU
<i>Kogenate</i>	870 500 IU	7	124 357.1 IU		4 125.6 IU
<i>Recombinate</i>	1 525 500 IU	15	101 700.0 IU		7 229.9 IU
<i>Other recombinant</i>					
FVIII celkem	13 170 907 IU	148	88 992.6 IU		62 421.4 IU
<i>Immunine</i>	984 000 IU	23	42 782.6 IU	41	24 000.0 IU
<i>Octanine</i>	473 100 IU	5	94 620.0 IU		11 539.0 IU
<i>Other plasma-derived</i>	77 400 IU	1	77 400.0 IU		1 887.8 IU
<i>Other recombinant</i>	379 916 IU	2	189 958.0 IU		9 266.2 IU
FIX celkem	1 914 416 IU	28	68 372.0 IU		46 693.1 IU
aPCC Feiba					
rFVIIa NovoSeven	176 mg	1	176 mg		
Plasma-derived factors - TOTAL*	12 171 750 IU	160	76 073.4 IU	252	48 300.6 IU
Recombinant factors - TOTAL*	3 863 573 IU	32	120 736.7 IU		15 331.6 IU
TOTAL CONSUMPTION *	16 035 323 IU	187	85 750.4 IU		63 632.2 IU

•plasma-derived factors = Immunate, Fanhdi, Octanate, Immunine, Octanine, Other plasma-derived

•recombinant factors = Advate, Kogenate, Recombinate, BAX 326, Other recombinant

*TOTAL CONSUMPTION = all mentioned drugs excluding Feiba and NovoSeven

Consumption of drugs – adults 2015

	Drug (IU)	Total annual consumption	Number of <u>treated</u> persons	Average annual consumption per <u>treated</u> person	Number of <u>valid</u> persons	Average annual consumption per <u>valid</u> person
FVIII	<i>Immunate</i>	7 764 000	100	77 640.0	431	18 013.9
	<i>Fanhdi</i>	3 954 510	62	63 782.4		9 175.2
	<i>Octanate</i>	534 000	11	48 545.5		1 239.0
	<i>Other plasma-derived</i>	341 500	3	113 833.3		792.3
	<i>Advate</i>	2 879 500	24	119 979.2		6 681.0
	<i>Kogenate</i>	3 101 000	17	182 411.8		7 194.9
	<i>Recombinate</i>	2 192 500	16	137 031.3		5 087.0
	<i>Other recombinant</i>	1 508 938	8	188 617.3		3 501.0
	FVIII total (IU)	22 275 948	235	94 791.3		51 684.3
FIX	<i>Immunine</i>	1 321 600	27	48 948.1	64	20 650.0
	<i>Octanine</i>	2 008 000	20	100 400.0		31 375.0
	<i>Other plasma-derived</i>	61 000	2	30 500.0		953.1
	<i>Other recombinant</i>	0	0			
	FIX total (IU)	3 390 600	46	73 708.7		52 978.1
aPCC	<i>Feiba</i>	27 500	2	13 750.0		
rFVIIa	<i>NovoSeven (mg)</i>	1 327	3	442.3		
	Plasma-derived factors - TOTAL *	15 984 610	221	72 328.6	495	32 292.1
	Recombinant factors - TOTAL *	9 681 938	63	153 681.6		19 559.5
	TOTAL CONSUMPTION (IU)*	25 666 548	281	91 340.0		51 851.6

•plasma-derived factors = Immunate, Fanhdi, Octanate, Immunine, Octanine, Other plasma-derived

•recombinant factors = Advate, Kogenate, Recombinate, Other recombinant

*TOTAL CONSUMPTION = all mentioned drugs excluding Feiba and NovoSeven

Poděkování všem centrům přispívajícím do registru !

Fakultní nemocnice Brno (Dětská nemocnice): Oddělení dětské hematologie

Fakultní nemocnice Brno (Bohunice): Oddělení klinické hematologie

Nemocnice České Budějovice: Oddělení klinické hematologie

Nemocnice České Budějovice: Dětské oddělení

Fakultní nemocnice Hradec Králové: IV. interní hematologická klinika

Fakultní nemocnice Hradec Králové: Dětská klinika

Krajská nemocnice Liberec: Oddělení klinické hematologie

Fakultní nemocnice Olomouc: Hemato-onkologická klinika

Fakultní nemocnice Olomouc: Dětská klinika

Fakultní nemocnice Ostrava: Krevní centrum

Fakultní nemocnice Ostrava: Klinika dětského lékařství

Fakultní nemocnice Plzeň: Ústav klinické biochemie a hematologie

Fakultní nemocnice Plzeň: Dětská klinika

Fakultní nemocnice v Motole: Klinika dětské hematologie a onkologie

Krajská zdravotní a.s., Masarykova nemocnice v Ústí nad Labem: Oddělení klinické hematologie

Krajská zdravotní a.s., Masarykova nemocnice v Ústí nad Labem: Dětská klinika