

HEMOSTASIS 2.0

# Rethinking Hemophilia Management with Novel Agents and Shared Decision Making



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## **Amy D. Shapiro, MD (Moderator)**

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Indiana Hemophilia & Thrombosis Center  
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# Learning Objectives

- Assess the clinical efficacy, durability in restoring hemostasis, and safety of new approaches for the management of hemophilia
- Develop a clinical and laboratory monitoring plan of the hemostatic status in patients receiving new therapies
- Implement shared decision making (SDM) strategies to better engage patients/caregivers with hemophilia in their treatment plan



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Institute for Policy Advancement Ltd  
Washington, DC  
Assistant Professor  
Department of Health Research  
Methods, Evidence, and Impact  
McMaster University  
Hamilton, Ontario, Canada

# Transformational Care in Today's Therapeutic Landscape

*Mark W. Skinner, JD*





# Therapeutic Evolution in a Nutshell

## Factor Replacement

- Missing protein identified, purified, returned to PwH
- Viral inactivation
- Recombinant factor products
- Reduced volume
- Better storage/portability
- [FVIII, FIX concentrates]

## Non-replacement, Rebalancing Therapies

- Metabolic manipulation
- Small molecules; SC dose
- Use with or without inhibitors
- [FVIII mimetics, anti-TFPI, anti-APC, AT-siRNA]

AAV vectors

2017–2020s  
Nonfactor treatment

2010s–2020s  
Gene treatment

1990s

Recombinant FVIII/FIX

1968

Commercially available FVIII

2014

EHL factors

1985

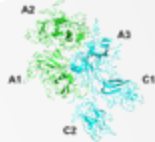
Viral inactivation

## Extended Half-life (EHL)

- Less frequent infusions
- Improved adherence
- Higher trough activity
- Better bleed protection
- [EHL rFVIII, EHL rFIX]

## Gene Therapy

- Provides functional gene or edits abnormal gene
- Potential long-term cure or remission
- [FVIII and FIX products FDA approved]



1950s–1960s

Fresh frozen plasma

1900–1940s

Whole blood

1964

Cryoprecipitate

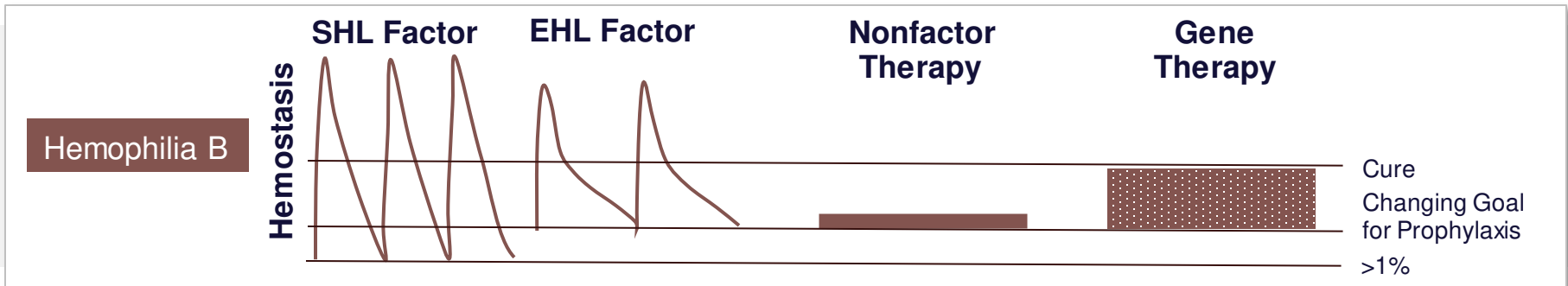
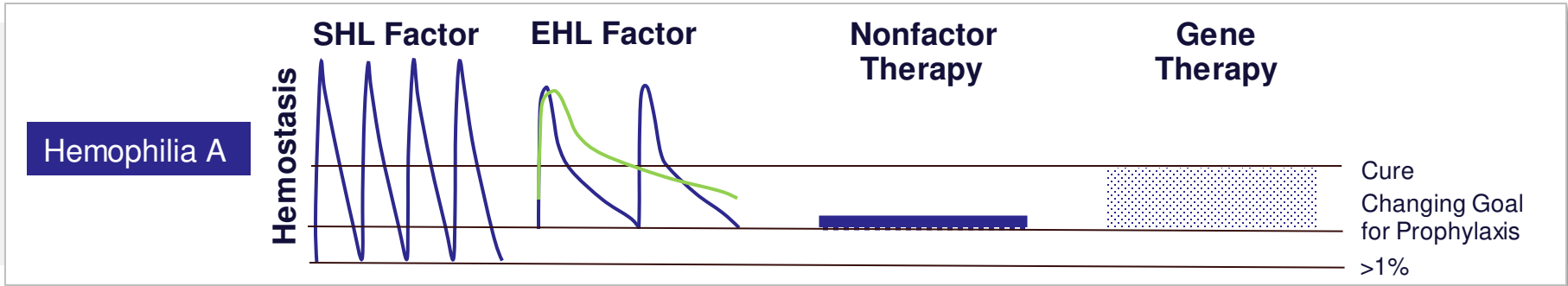
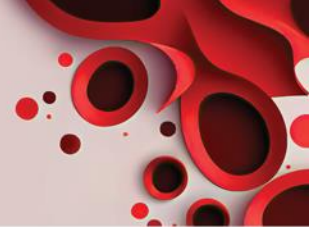


APC, activated protein C; AT, antithrombin; FIX, factor IX; FVIII, factor VIII; PwH, person with hemophilia; r, recombinant; RNA, ribonucleic acid; SC, subcutaneous; si, small interfering; TFPI, tissue factor pathway inhibitor.

Ozelo MC, Yamaguti-Hayakawa GG. *Res Pract Thromb Haemost.* 2022;6:e12695.

# Goal of Therapy

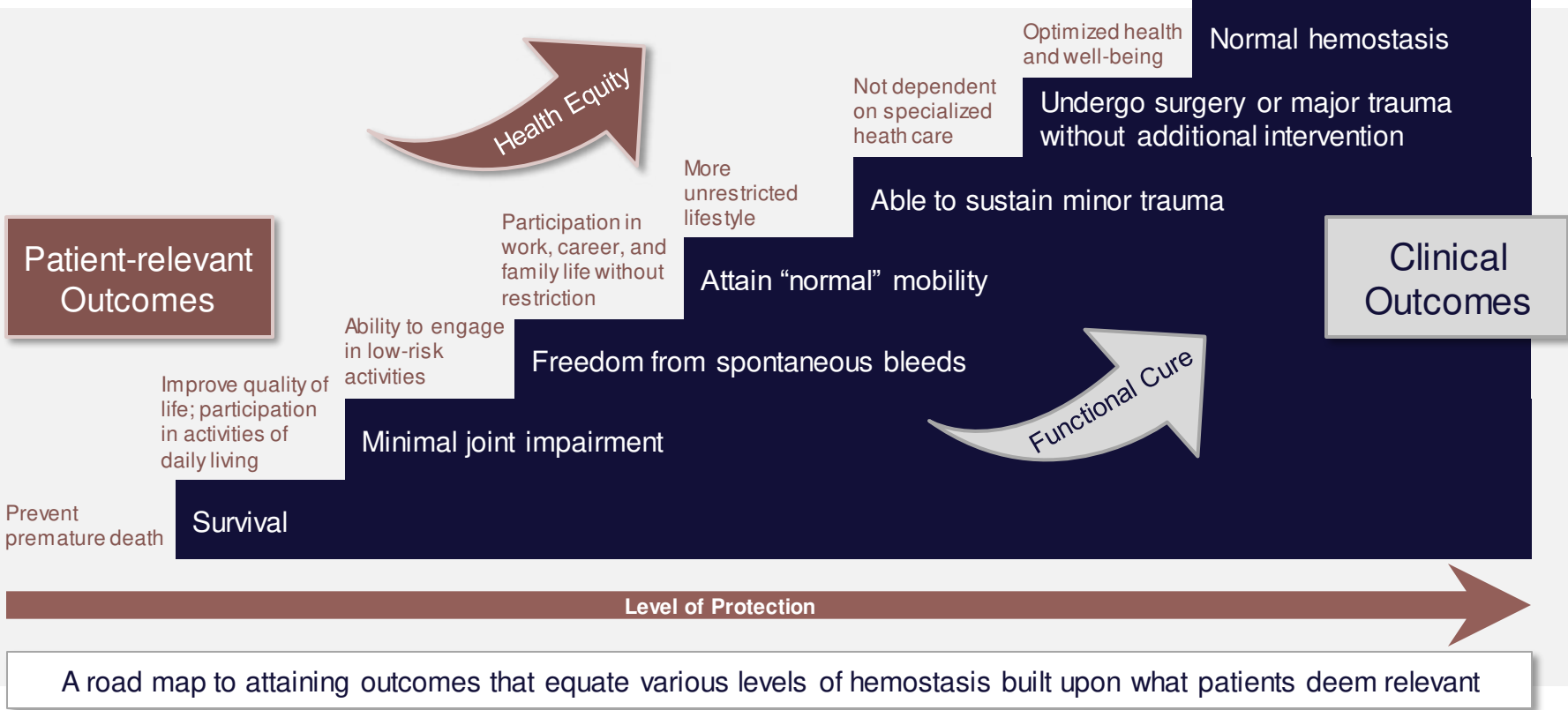
## *Stable Hemostatic Levels*



EHL, extended half-life; SHL, standard half-life.

Adapted from Arruda VR, et al. *Blood*. 2017;130:2251–2256.

# Achieving the Unimaginable Health Equity



PART 1

# Mechanism of Action and Efficacy of Novel Agents

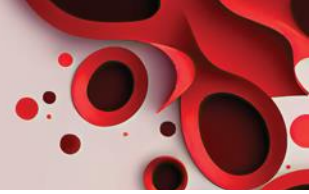
*Amy D. Shapiro, MD*



# Mechanism of Action

*Mimetics, Anti-TFPI, siRNA-AT*

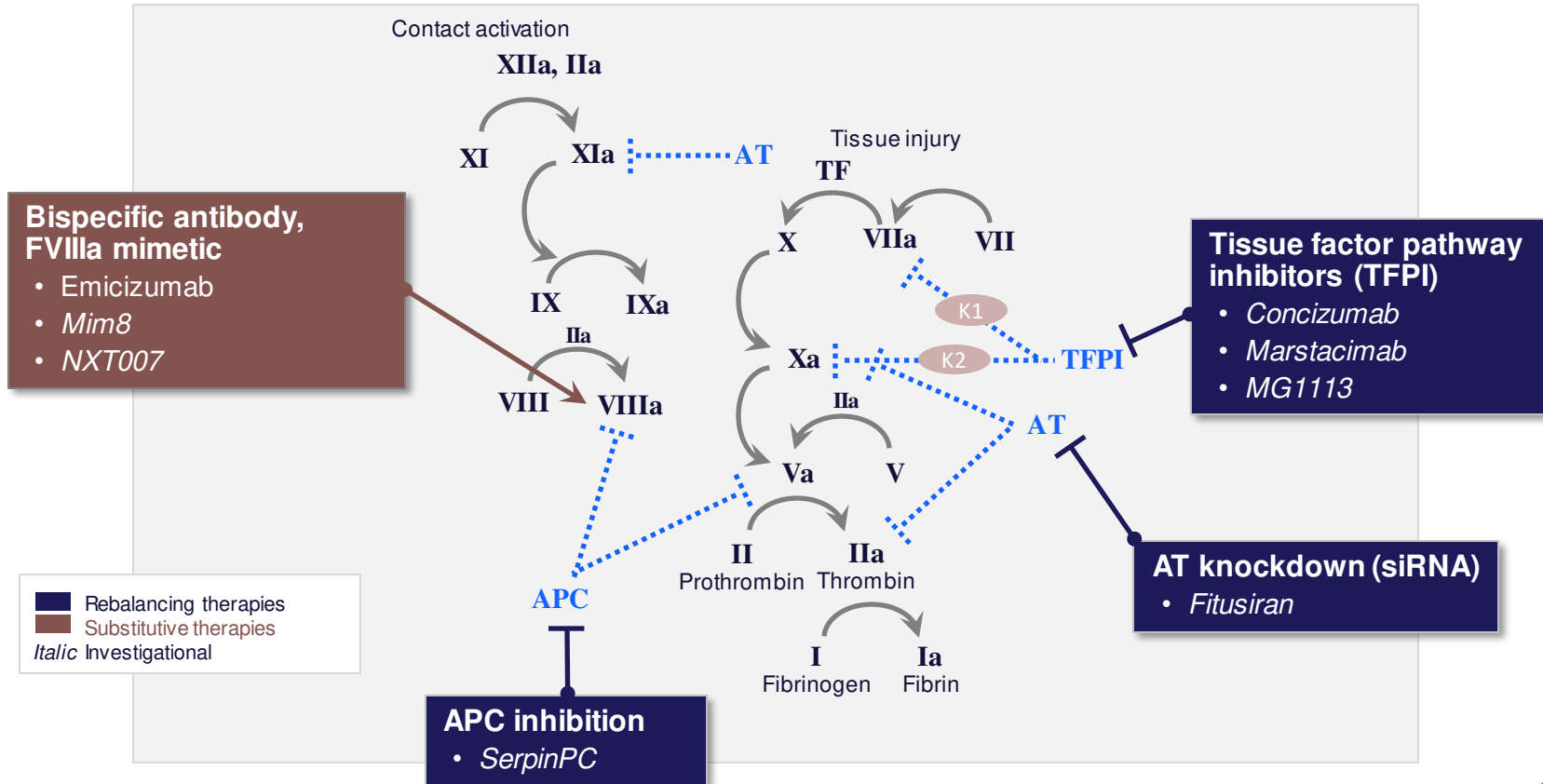




**Which of the following novel therapeutics has reported a 15-fold increased potency compared to emicizumab, which may allow for lower dosing volumes?**

- A. Concizumab
- B. Mim8
- C. Fitusiran
- D. SerpinPC
- E. I'm not sure

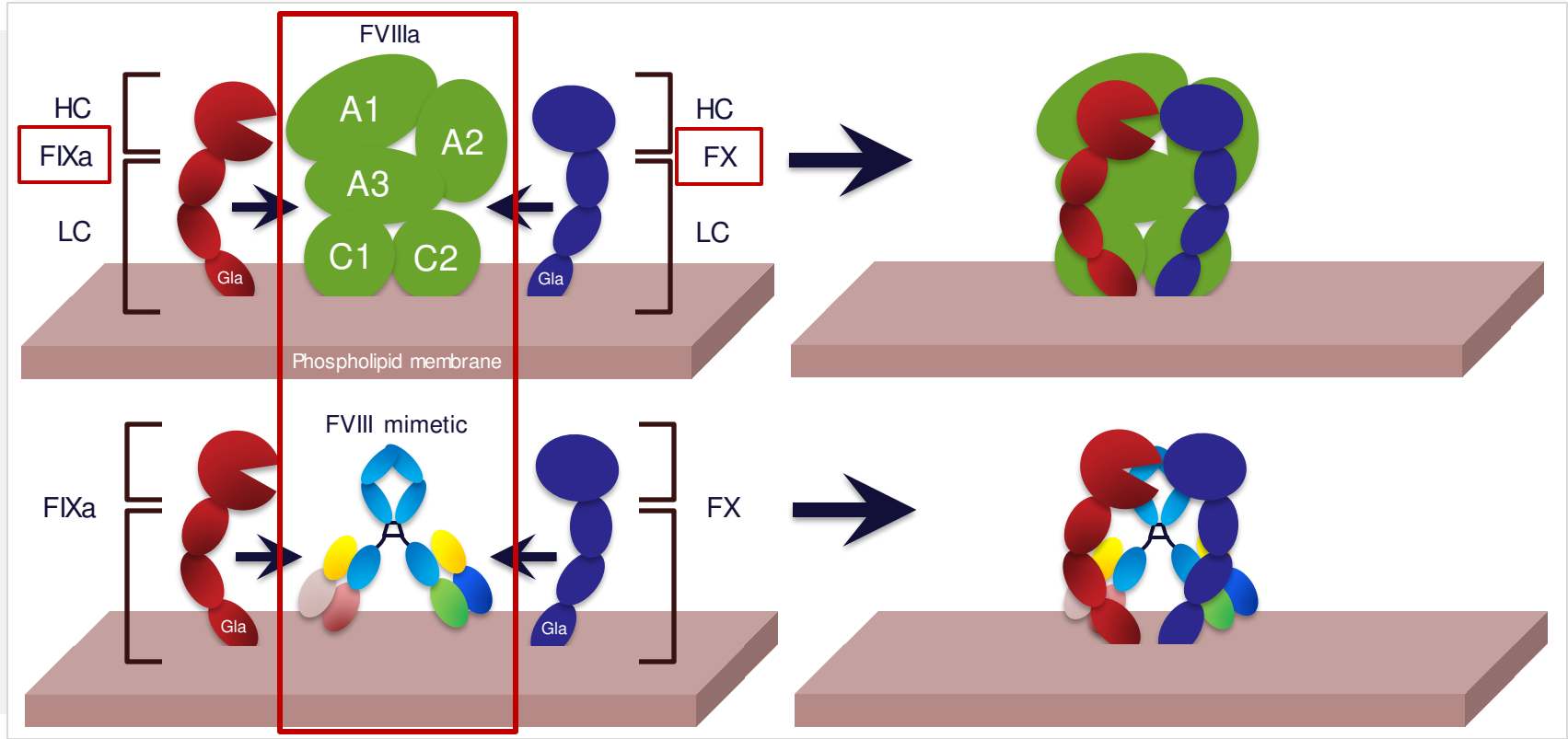
# Novel Therapeutics to Treat Hemophilia A or B ± Inhibitors



TF, tissue factor.

# Factor VIII vs FVIII Mimetics

## MOA Comparison



HC, high concentration; LC, low concentration; MOA, mechanism of action.

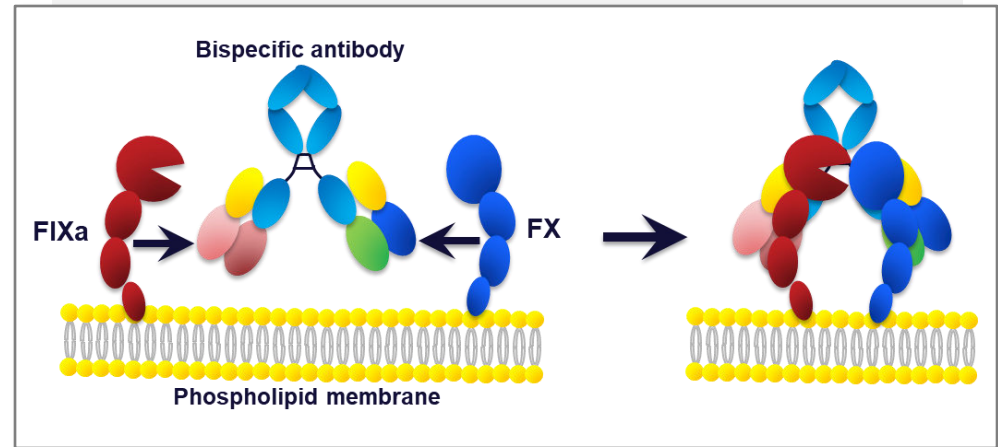
Sampei Z, et al. *PLoS One*. 2013;8(2):e57479. Lenting PJ, et al. *Blood*. 2017;130 (23):2463–2468.

# FVIIIa Mimetics

## *Bispecific Antibodies for Hemophilia A ± Inhibitors*

### Emicizumab

- FDA approved 2017–2018
- Subcutaneous (SC) administration
- Flexible dosing regimens
- Long half-life ( $26.9 \pm 9.1$  days)
- Decreased treatment burden, especially with inhibitors



Sampei Z, et al. *PLoS One*. 2013;8(2):e57479.

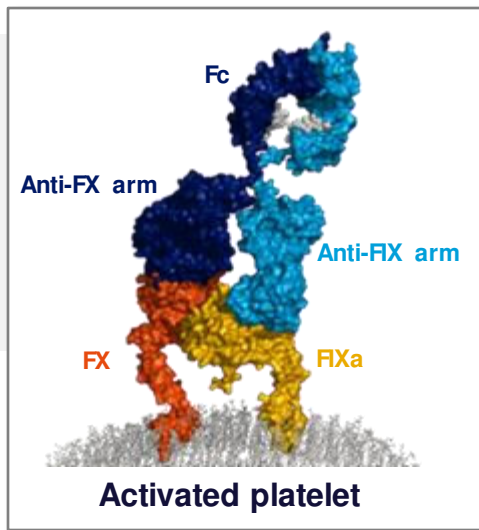
FDA-approved drug: emicizumab-kxwh. Revised January 2024. [https://www.accessdata.fda.gov/drugsatfda\\_docs/label/2024/761083s018lbl.pdf](https://www.accessdata.fda.gov/drugsatfda_docs/label/2024/761083s018lbl.pdf).

Zhou Z-Y, et al. *J Manag Care Spec Pharm*. 2020;26(9):1109–1120.

Skinner MW, et al. *Haemophilia*. 2021;27:854–865.

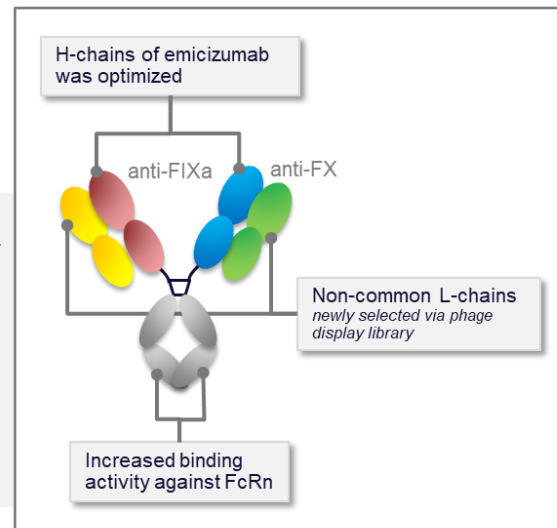
# FVIIIa Mimetics

## *Bispecific Antibodies for Hemophilia A ± Inhibitors*



- Mim8**
- Currently in phase 3 trials
  - Preclinical models: potency ~15-fold higher than emicizumab analog

- NXT007**
- Phase 1 clinical trial showed 10-week half-life
  - Engineered and optimized based on emicizumab



Fc, fragment crystallizable; FcRn, neonatal crystallizable fragment receptor.

Sampei Z, et al. *PLoS One*. 2013;8(2):e57479. Lentz SR, et al. *J Thromb Haemost*. 2024;22:990–1000.

Teranishi-Ikawa Y, et al. *J Thromb Haemost*. 2024;22:430–440.



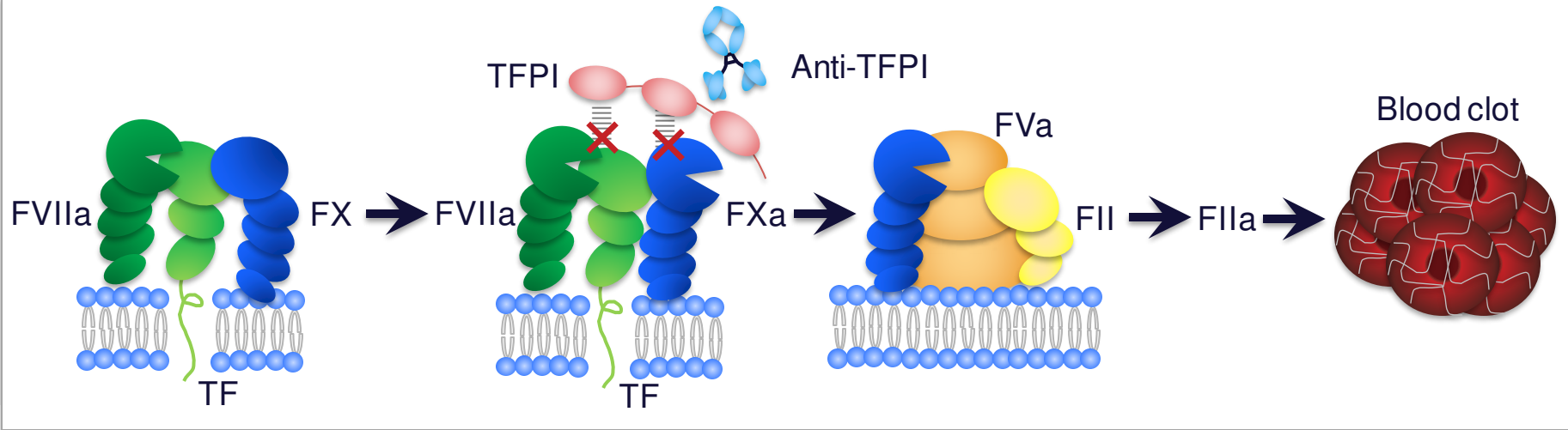
# Anti-TFPIs in Development for Hemophilia ± Inhibitors

## Concizumab

- Assessed in explorer trials
- Approved in Canada (FIX with an inhibitor)
- Approved in Japan (FVIII or FIX with inhibitors); under FDA review in the United States
- SC, once-daily, custom pen

## Marstacimab

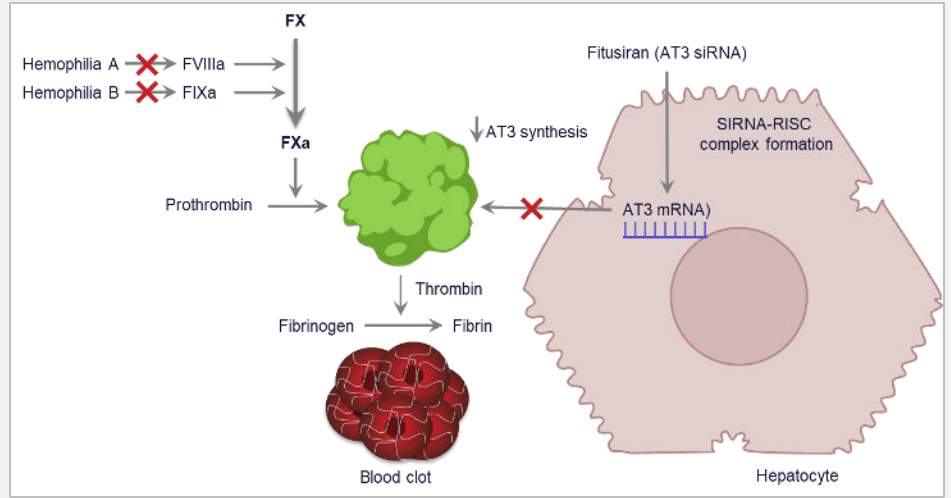
- Phase 3 BASIS trial
- Under regulatory review in the United States and the European Union (EU)
- Once weekly SC dosing



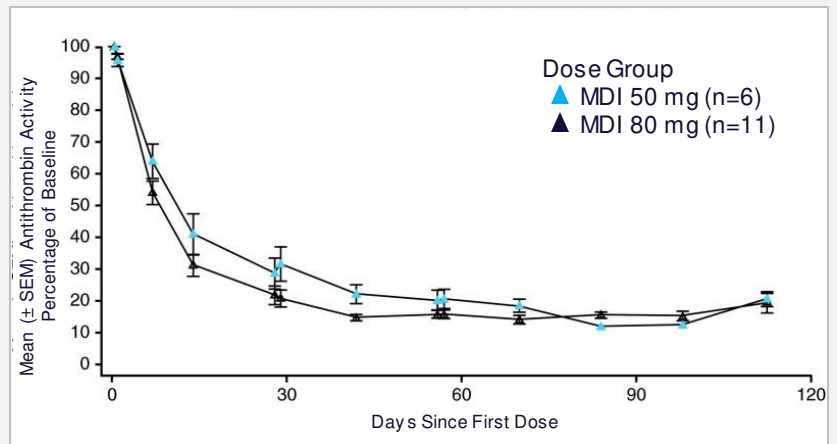
# Fitusiran

## SC siRNA Targeting Antithrombin

### MOA of Fitusiran

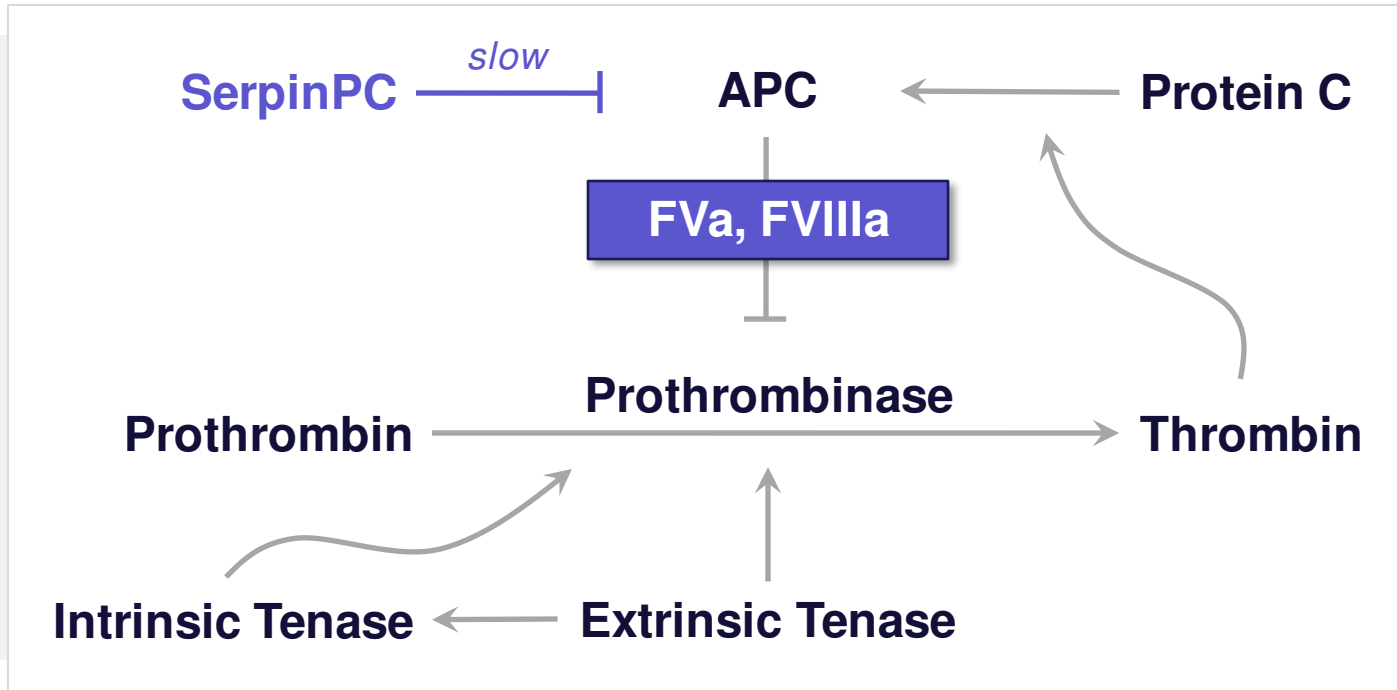


### Effect of Fitusiran on AT Activity



# SerpinPC

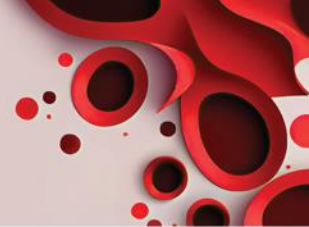
(Recombinant Serine Protease Inhibitor)



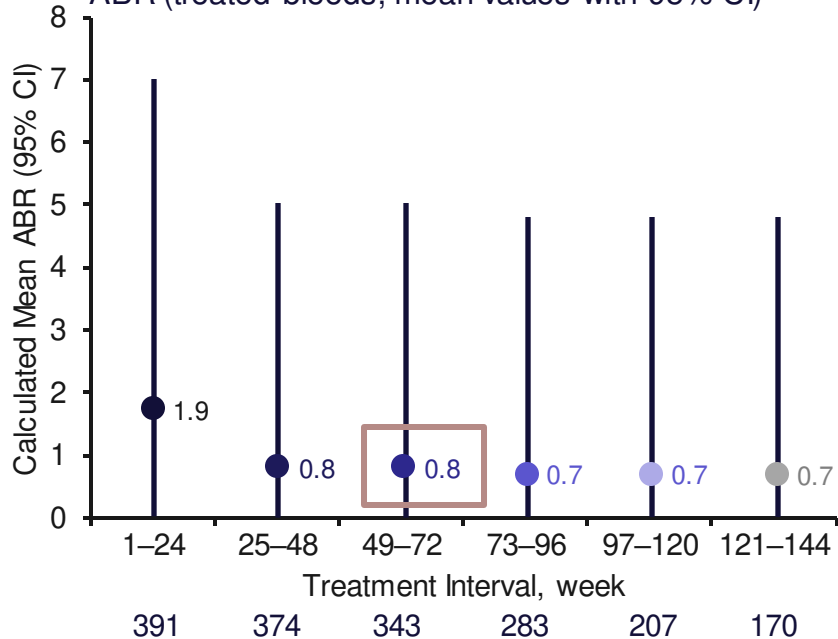
# Efficacy Summary

*Mimetics, Anti-TFPI, siRNA-AT*

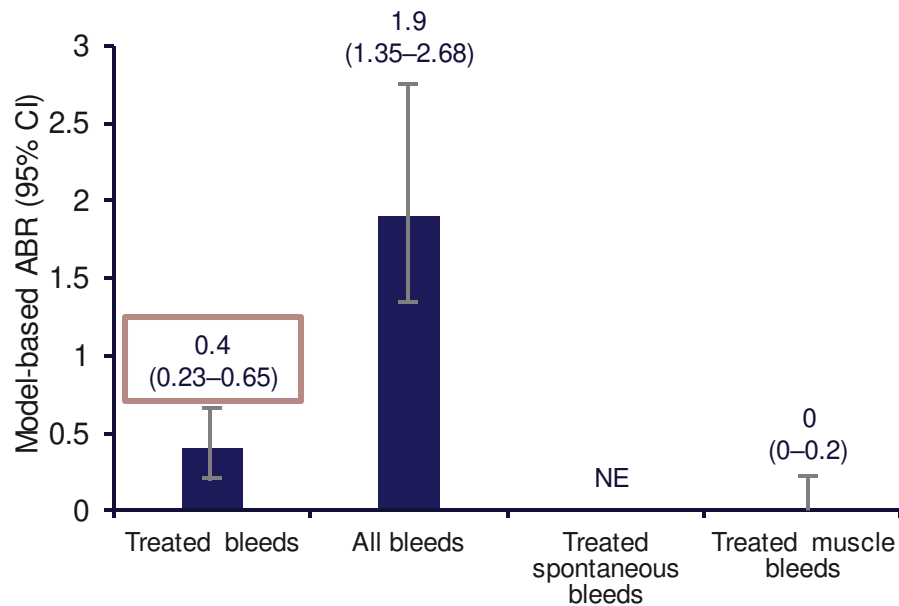
# Emicizumab Phase 3



**HAVEN 1–4<sup>1</sup>**: Pooled analysis of long-term results in PwHA with or without inhibitors  
ABR (treated bleeds; mean values with 95% CI)



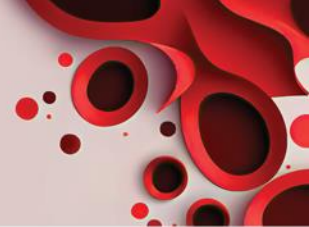
**HAVEN 7<sup>2</sup>**: Model-based ABRs across bleed categories in infants with HA  
Model-based ABRs across bleed categories



<sup>1</sup>Callaghan M, et al. *Blood*. 2021;137:2231–2242. <sup>2</sup>Pipe SW, et al. *Blood*. 2023;202321832. ABR, annualized bleeding rate; CI, confidence interval; HA, hemophilia A.



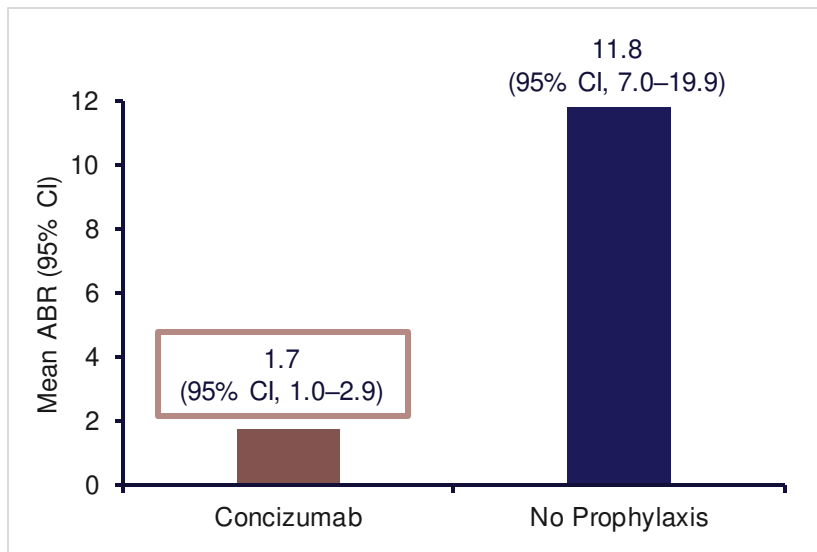
# Concizumab Phase 3



## explorer7<sup>1</sup>: Patients with HA or HB with inhibitors

Estimated mean ABR

Rate ratio, 0.14 (95% CI, 0.07–0.29);  $P < 0.001$

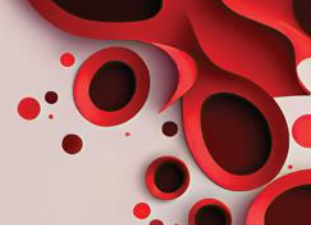


## explorer8<sup>2</sup>: Spontaneous and traumatic bleeding episodes by HA/HB at the 56-week cut-off

	Concizumab Prophylaxis (arms 1–4)		
	Hemophilia A	Hemophilia B	
N in full analysis set	80	64	
Patient years of exposure in analysis data set	111.9	71.7	
Treated spontaneous and traumatic bleeding episodes			
Number of bleeding episodes	349	302	
ABR	Median (interquartile range)	1.7 (0.0–4.5)	2.8 (0.0–6.4)
	Mean (standard deviation)	3.9 (6.6)	6.4 (14.2)
	Min; max	0.0; 37.1	0.0; 91.3

<sup>1</sup>Matsushita T, et al. *N Engl J Med.* 2023;389:783–794. <sup>2</sup>Astermark J, et al. *Blood.* 2023;142(Suppl 1):2609.

# Marstacimab Phase 3



**BASIS<sup>1</sup>:** Severe HA or moderately severe to severe HB, with or without inhibitors

Treatment Group	Factor Replacement Treatment Received during OP (n=116)	Marstacimab Prophylaxis during ATP (n=116)	Marstacimab Prophylaxis during LTE (n=87)
OD	OD	Marstacimab	Marstacimab
Mean ABR <sup>a</sup> (95% CI)	(n=33) 38.00 (31.03–46.54)	(n=33) 3.18 (2.09–4.85)	(n=29) 3.86 (2.02–7.37)
Rate estimate (95% CI), <i>P</i> -value <sup>b</sup>	0.084 (0.059, 0.119), <i>P</i> <0.0001		—
RP	RP	Marstacimab	Marstacimab
Mean ABR <sup>a</sup> (95% CI)	(n=83) 7.85 (5.09–10.61)	(n=83) 5.08 (3.40–6.77)	(n=58) 2.27 (1.40–3.67)
Rate estimate (95% CI), <i>P</i> -value <sup>c</sup>	-2.77 (-5.37, -0.16), <i>P</i> =0.0376		—

<sup>a</sup>Model-derived ABR

<sup>b</sup>*P*-values for the null hypothesis that the ratio = 1/2 for all bleed related parameters

<sup>c</sup>*P*-value if superiority met

ATP, 12-month active treatment phase; LTE, long-term extension study;  
OD, on demand; OP, 6-month observation phase; RP, routine prophylaxis.

Matino D, et al. *Blood*. 2023;142(Suppl 1):285.

# Fitusiran Phase 3

ATLAS-INH <sup>1</sup>	Bypassing Agent On-demand Group (n=19)	Fitusiran Prophylaxis Group (n=38)	P-value
<b>Primary efficacy outcome</b>			
Mean ABR estimated by negative binomial model	18.1 (10.6–30.8)	1.7 (1.0–2.7)	<i>P</i> <0.0001
Observed median ABR	16.8 (6.7–23.5)	0.0 (0.0–1.7)	NR
Participants with zero bleeds	1 (5%)	25 (66%)	NR

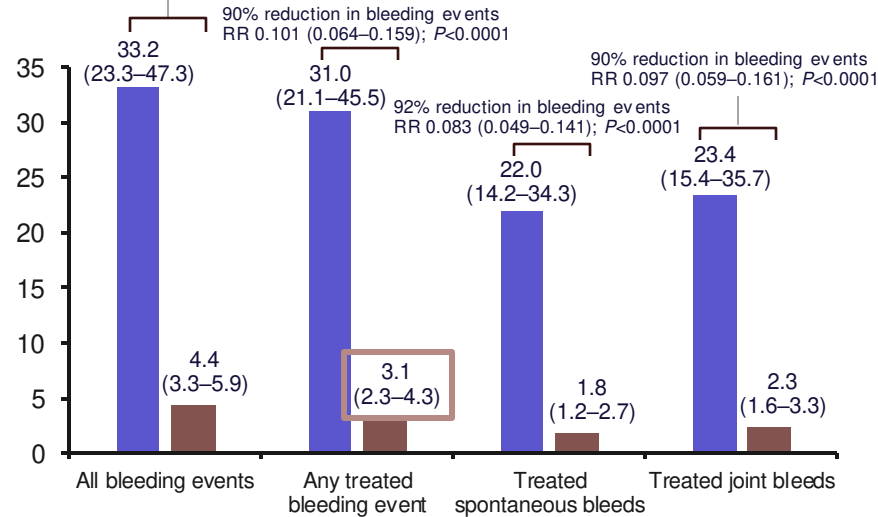
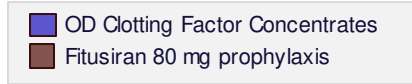
**ATLAS-INH<sup>1</sup>:** HA or HB with inhibitors

**ATLAS-A/B<sup>2</sup>:** HA or HB without inhibitors

**ATLAS-PPX<sup>3</sup>:** HA or HB with or without inhibitors who have switched from prior clotting factor concentrate (CFC) or bypassing agent (BPA) prophylaxis

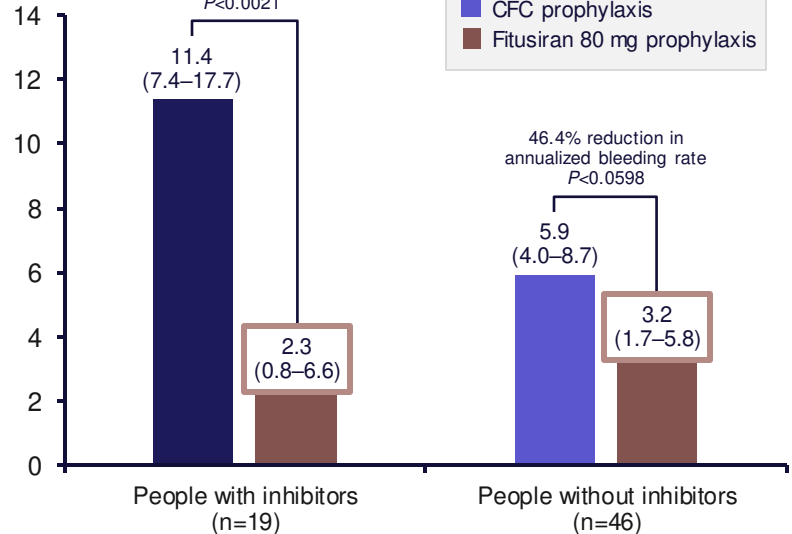
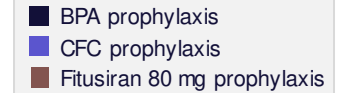
## ATLAS-A/B<sup>2</sup> Mean ABR

87% reduction in bleeding events  
RR 0.132 (0.087–0.201); *P*<0.0001



## ATLAS-PPX<sup>3</sup> Mean ABR

79.7% reduction in annualized bleeding rate  
*P*<0.0021



<sup>1</sup>Young G, et al. *Lancet*. 2023;401(10386):1427–1437.

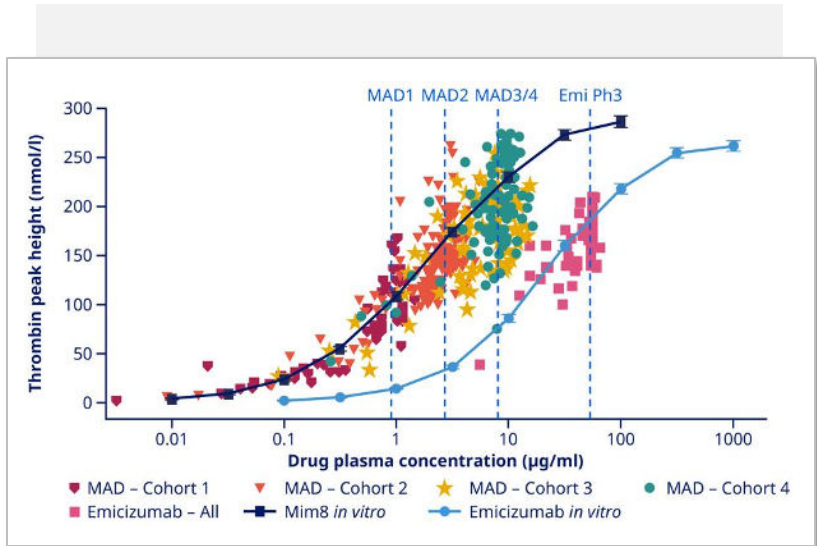
<sup>2</sup>Srivastava A, et al. *Lancet Haematol*. 2023;10(5):e322–e332. <sup>3</sup>Kenet G, et al. *HemaSphere*. 2023;7(S3):e643526e.

# Factor VIII Mimetics in Development

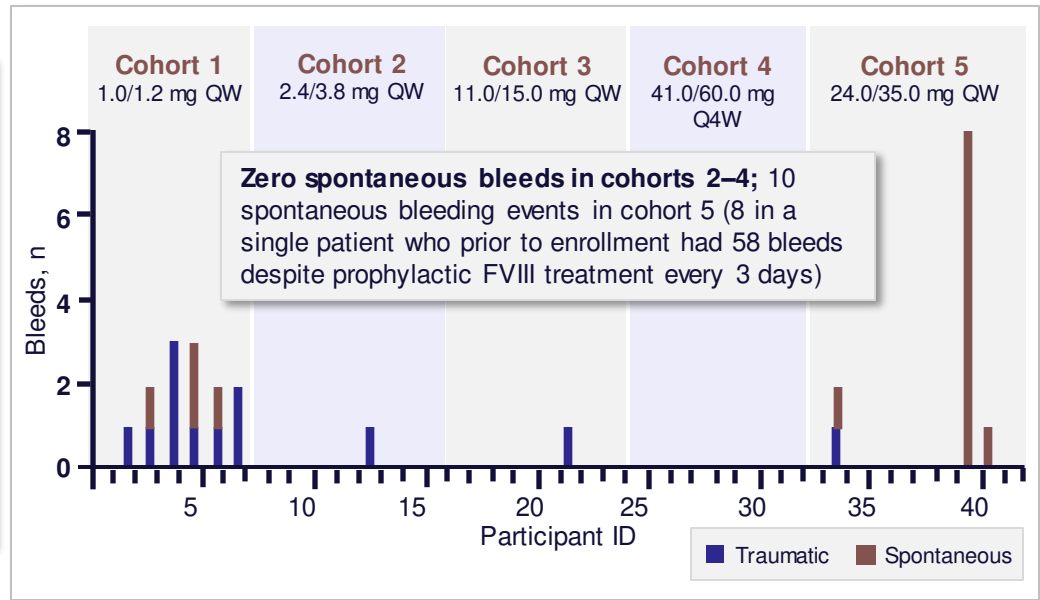
*Mim8 and NXT007*

# Mim8 (FRONTIER 1/2)

## Thrombin Peak Height vs Drug Plasma Concentration



## Observed Treated Bleeds from the Multiple Ascending Dose (MAD) Cohorts

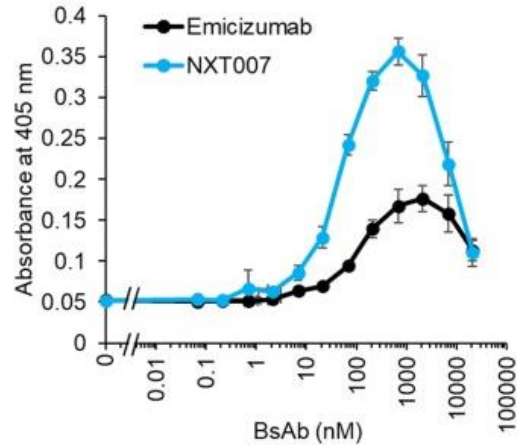
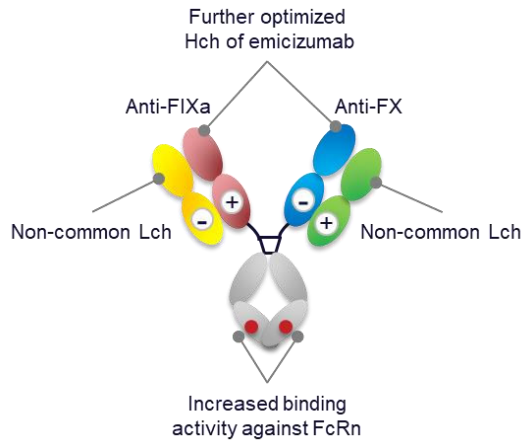


- In vitro, Mim8 was 15× more potent than emicizumab

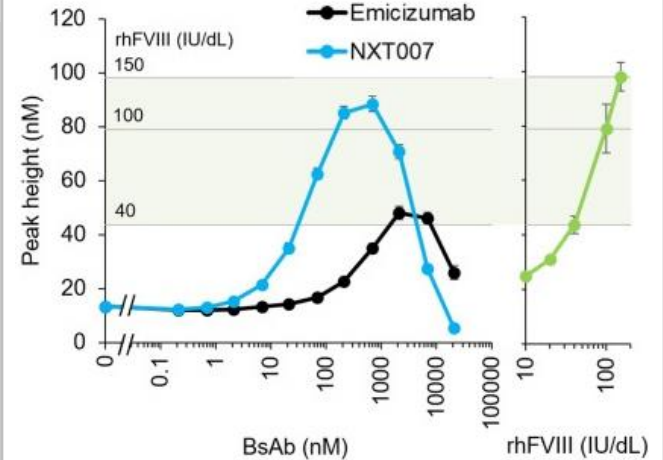
# NXT007

## A Bispecific Antibody That Mimics the Cofactor Function of FVIIIa

### Molecular Features of NXT007



Effect of NXT007 or emicizumab on FIXa-catalyzed FX activation in an enzymatic assay using purified coagulation factors



Effect of NXT007, emicizumab, or rhFVIII on the peak height of thrombin generation using FVIII-deficient patient plasma

PART 2

# Thrombotic Risk Mitigation and Coagulation Assays

*Allison D. Wheeler, MD, MSCI*



# Thrombotic Risk Mitigation



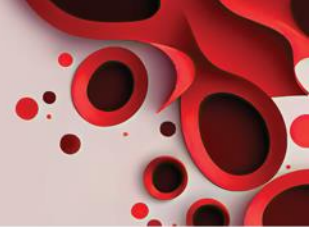
# Thromboembolic Events Reported during Trials

- Emicizumab (HAVEN)
- Concizumab (explorer)
- Fitusiran (ATLAS)

**Risk mitigation strategies put in place: dosing adjustments and guidance for management of mild/moderate bleeds**

# Concizumab

## Thrombotic Events (3) in 3 Patients Resulting in Trial Pause



PwH	Age Range (years)	Time on Concizumab	Thrombotic Event (all non-fatal)	Baseline Thrombotic Risk?*	Concomitant Hemostatic Medication on Day of or Days up to Event Onset?
HA	45–50	2 months	Acute myocardial infarction	Yes	Yes
HBwl	25–30	3 weeks	Renal infarction	Yes	Yes
HA	40–45	3 months	DVT, PE, superficial thrombosis of vein (left elbow region at site of FVIII injection)	Yes	Yes

\*One patient (in explorer7) had obesity, hypercholesterolemia, and multiple removals and replacements of a central venous access device. One patient (in explorer8) had obesity, lower leg edema, and hypertension. A second patient in explorer8 had a history of smoking, hypertension with occasional use of ACE inhibitors, increased BP at screening, chronic tooth inflammation followed by extraction, and occasional chest pain for the month preceding the thromboembolism in the other patient.

- In March 2020, study was paused for evaluation of trial data and development of mitigation strategy

DVT, deep vein thrombosis; PE, pulmonary embolism.

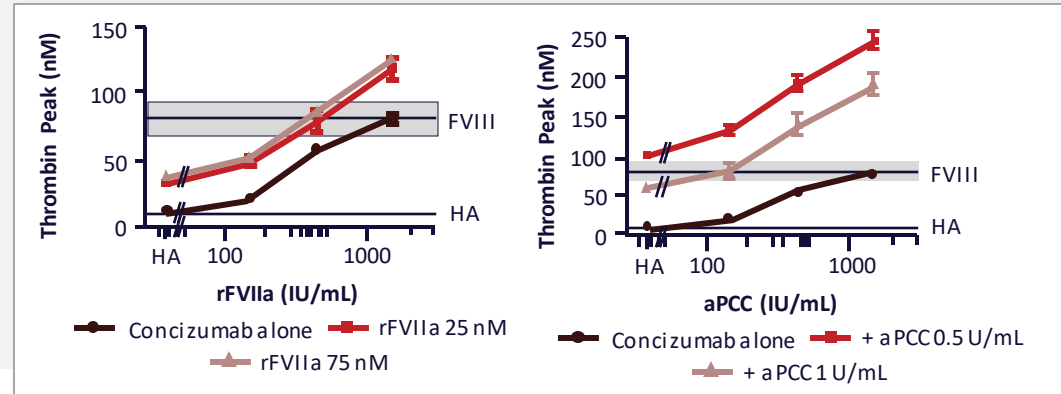
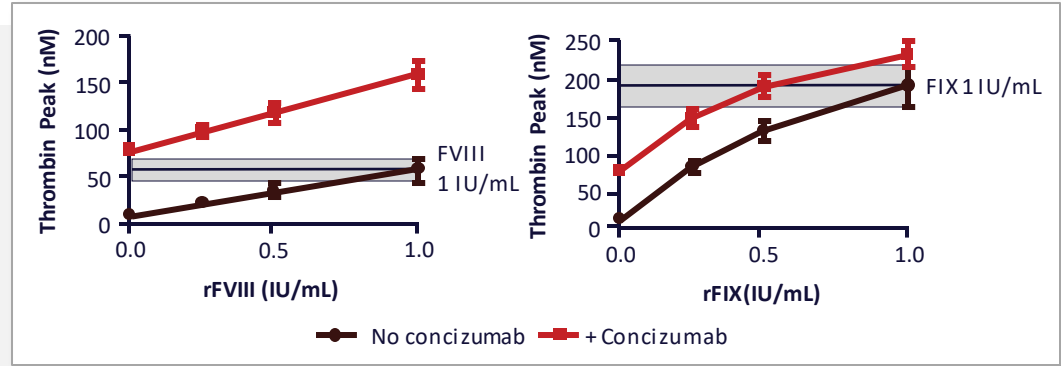
Seremetis S, et al. *Blood*. 2020;136:40. Shapiro AD, et al. *Blood Adv*. 2022;6(11)a;3422–3432.

Matsushita T, et al. *N Engl J Med*. 2023;389(9):783–794.

# Concizumab Phase 3 Trials

## Risk Mitigation

- Assessment included clinical review and nonclinical data
  - Pharmacokinetic profile of patients based on population PK modeling
  - Thrombin generation studies with concomitant FVIII, FIX, FVIIa, and aPCC
- Risk mitigation
  - ELISA-based concizumab dose adjustments
    - Therapeutic: 200–4,000 ng/mL
  - Decreased factor dosing to the lowest approved dose for each product when treating mild/moderate bleeds



aPCC, activated prothrombin complex concentrate; PK, pharmacokinetics.

# Fitusiran

## Thrombotic Events Resulting in Trial Pause

- Evaluation of thrombotic events as of October 2020 leading to trial pause and subsequent mitigation strategy

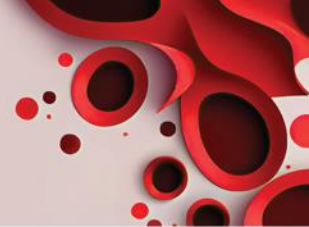
PwH	Age Range (y)	Medical History/Comments	AT Category	Thrombotic Event
HA	30–40	DVT (not identified at enrollment), T2D, obesity, HCV, tobacco use	<10%	CVA
HA	>60	Well-controlled HIV, HCV, and prostate cancer status post-radical prostatectomy (recent PSA WNL)	<10%	Cerebral infarct
HAwl	20–30	Suspected thrombosis involving a spinal injury	<10%	Spinal vascular disorder
HBwl	20–30	Concomitant use of BPA (rFVIIa) in excess of current bleed management guidelines in fitusiran studies	10%–20%	Atrial thrombosis
HA	20–30	Concomitant use of factor concentrate in excess of current bleed management guidelines (event initially misdiagnosed and treated as a subarachnoid hemorrhage resulting in fatal outcome)	10%–20%	Cerebral venous sinus thrombosis

HAwl/HBwl, hemophilia A/B with inhibitors; HCV, hepatitis C virus; HIV, human immunodeficiency virus; PSA, prostate-specific antigen; T2D, type 2 diabetes; WNL, within normal limits.

Young G, et al. *Res Pract Thromb Haemost.* 2023;7(4):100179.

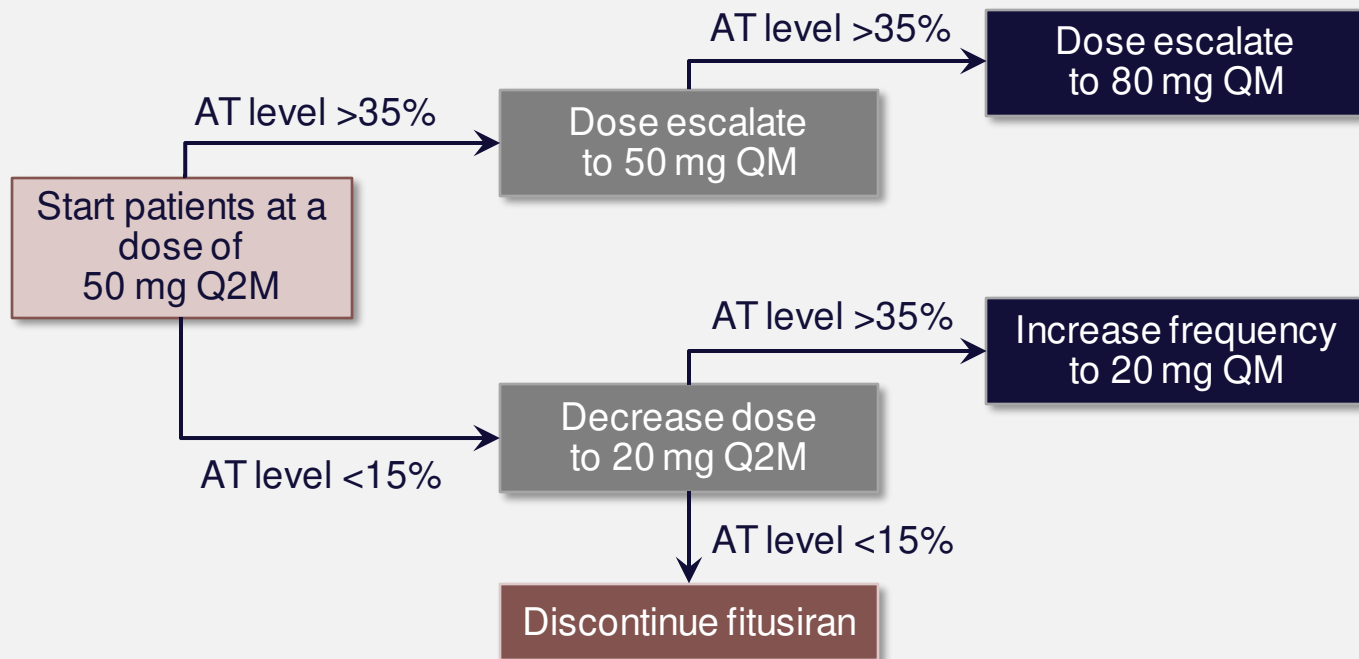
# Fitusiran Revised Dosing

## Targeting AT Range from $\geq 15\%$ to $\leq 35\%$

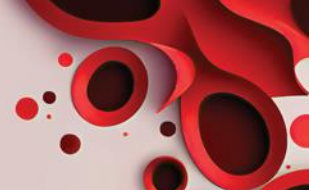


Based on fitusiran's MOA and observed AT activity  $< 10\%$  in clinical trial participants with reported vascular thrombotic events, AT activity was evaluated as a potential modifiable target for risk mitigation.

A simulation based on PK/PD modeling identified a dose and regimen targeting AT activity between 15% and 35%.



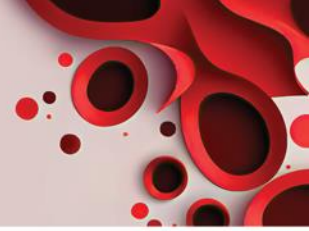
# Coagulation Assays and Non-Factor Products



**Which clinically-available, standard coagulation tests measure anti-TFPI hemostatic activity?**

- A. PTT and PT
- B. D-dimer
- C. Fibrinogen
- D. Standard tests not applicable
- E. I'm not sure

# Assays to Assess FVIII Mimetics



## Assay to Determine Drug Is Present

- aPTT normalized
  - FVIII activity is ↑↑↑
- Human chromogenic FVIII provides some measure of equivalence
- Bovine chromogenic assays used to
  - Determine level of exogenous FVIII administered
  - Measure FVIII inhibitor
- Drug level

## Evaluation of Efficacy

- Clinical monitoring of bleeding events used to assess efficacy
- aPTT prolonged determine if
  - Patient taking drug ( $t_{1/2}$  is long)
  - Drug is functional
- Human chromogenic FVIII activity and inhibitor to assess for neutralizing antibody

aPTT, activated partial thromboplastin time;  $t_{1/2}$ , half-life.

Jenkins PV, et al. *Haemophilia*. 2020;26(1):151–155.



# Assays to Assess Anti-TFPI Antibodies

## Assay to Determine Drug Is Present

- Drug levels
  - Concizumab level will be available to direct drug dosing at 1 month
  - Marstacimab level reported in the trial manuscripts

## Evaluation of Efficacy

- Clinical monitoring of bleeding events used to assess efficacy
- Assays to determine activity of agent are not standard
  - TFPI measurements
    - Concizumab: ↓ free TFPI
    - Marstacimab: ↑ total TFPI
  - ↑ Thrombin generation
  - ↑ D-dimers/PF 1.2

# Assays to Assess Fitusiran



## Assay to Determine Drug Is Present

- ↓ AT level demonstrates drug activity

## Evaluation of Efficacy

- Clinical monitoring of bleeding events used to assess efficacy
- Assays to determine activity of agent are not standard
  - ↑ Thrombin generation

# Assays to Assess SerpinPC



## Assay to Determine Drug Is Present

- No standard assay, SerpinPC concentration in clinical trial

## Evaluation of Efficacy

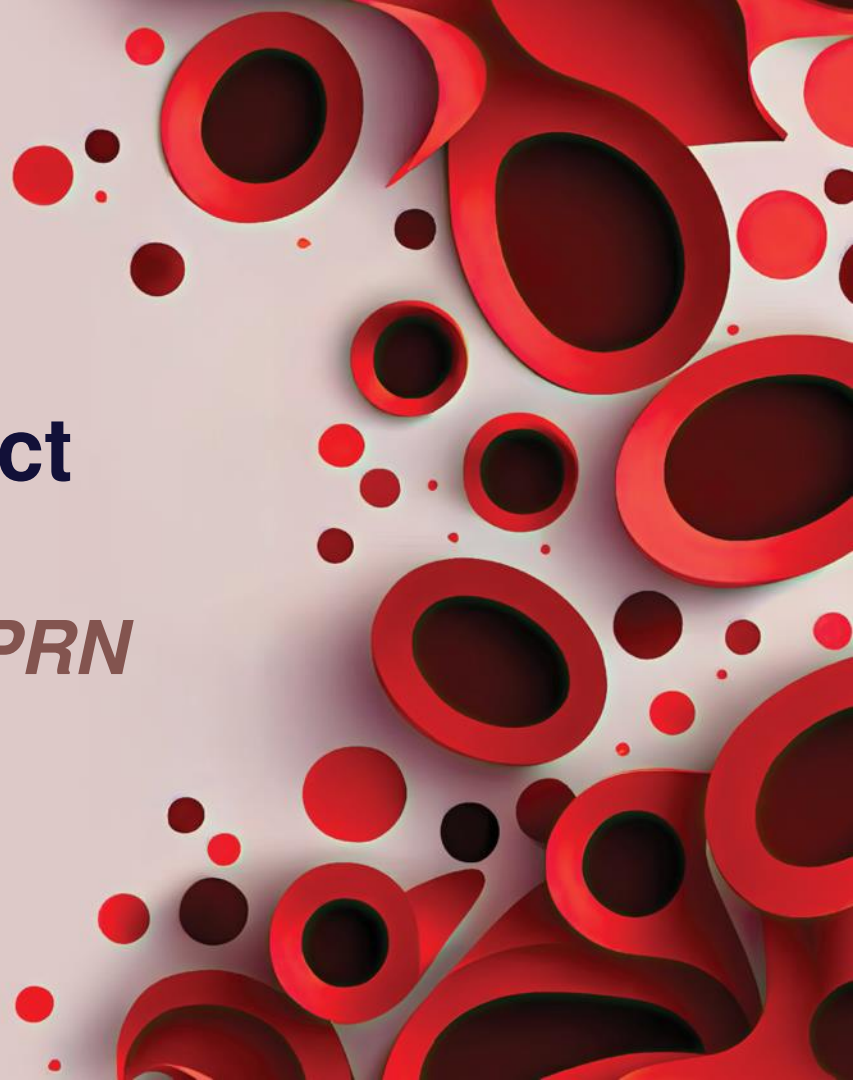
- Clinical monitoring of bleeding events used to assess efficacy
- Assays to determine activity of agent are not standard
  - ↑ Thrombin generation

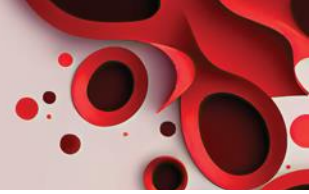
PART 3

# Choosing the Best Product For and With the Patient

*Maya C. Bloomberg, MSN, APRN*

*Mark W. Skinner, JD*

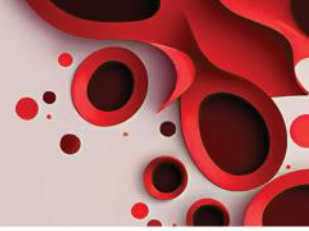




**According to the World Federation of Hemophilia (WFH) Shared Decision Making Guide, what is the recommended first step for patients?**

- A. Learn about the treatment options
- B. Have an open and meaningful conversation with the healthcare team
- C. Reflect on life goals and current treatment
- D. Assess side effects of available treatments
- E. I'm not sure

# What Is Shared Decision Making?



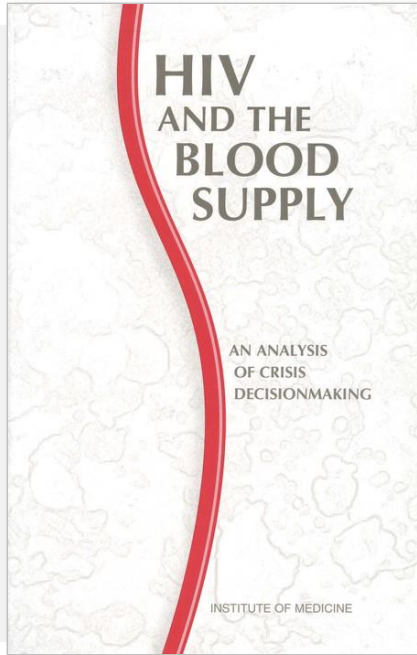
## A process wherein:

**A patient shares** with the provider all their aspirations, relevant values, preferences, and goals.

**A health care provider shares** with a patient all relevant information and best scientific evidence on the pros and cons of all potential treatment options.

With this mutual understanding, the **patient and provider decide** the best course of action.

# SDM Adopted in Hemophilia in 1980s



Blood safety is a **shared responsibility** of many diverse organizations, including manufacturers, **groups such as the NBDF** (formerly NHF), and others.

## How is medical decision-making shared? The case of haemophilia patients and doctors: the aftermath of the infected blood affair in France

Emmanuelle Fillion

Sociologist at CERMES (Centre de Recherche Médecine, Sciences, Santé et Société), Paris, France

### Abstract

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2 July 2003

**Keywords:** AIDS, clinical relationship, decision-making, haemophilia, prosecution, sociology

**Objective** This article looks at how users and doctors in France have rethought the question of shared decision-making in the clinical field of haemophilia following a major crisis – that of the infected blood affair.

**Design** We did a qualitative survey based on semi-structured interviews in three regions of France.

**Setting and participants** The interviews covered 31 clinical doctors of haemophilia and 31 users: 21 adult males with severe haemophilia (21/31), infected (14/21) or not (7/21) with HIV, the infected wife of one of the latter (1/31) and nine parents of young patients with severe haemophilia (9/31), either HIV positive (6/9) or negative (3/9).

NBDF, National Bleeding Disorders Foundation; NHF, National Hemophilia Foundation.

Institute of Medicine Committee to Study HIV Transmission through Blood and Blood Products. Leveton LB, et al, eds. HIV and the Blood Supply: An Analysis of Crisis Decisionmaking. National Academies Press (U.S.). 1995. <https://www.ncbi.nlm.nih.gov/books/NBK232417/>.

Fillion, M. *Health Expect.* 2003;6(3):228–241.

# What Is Shared Decision Making?



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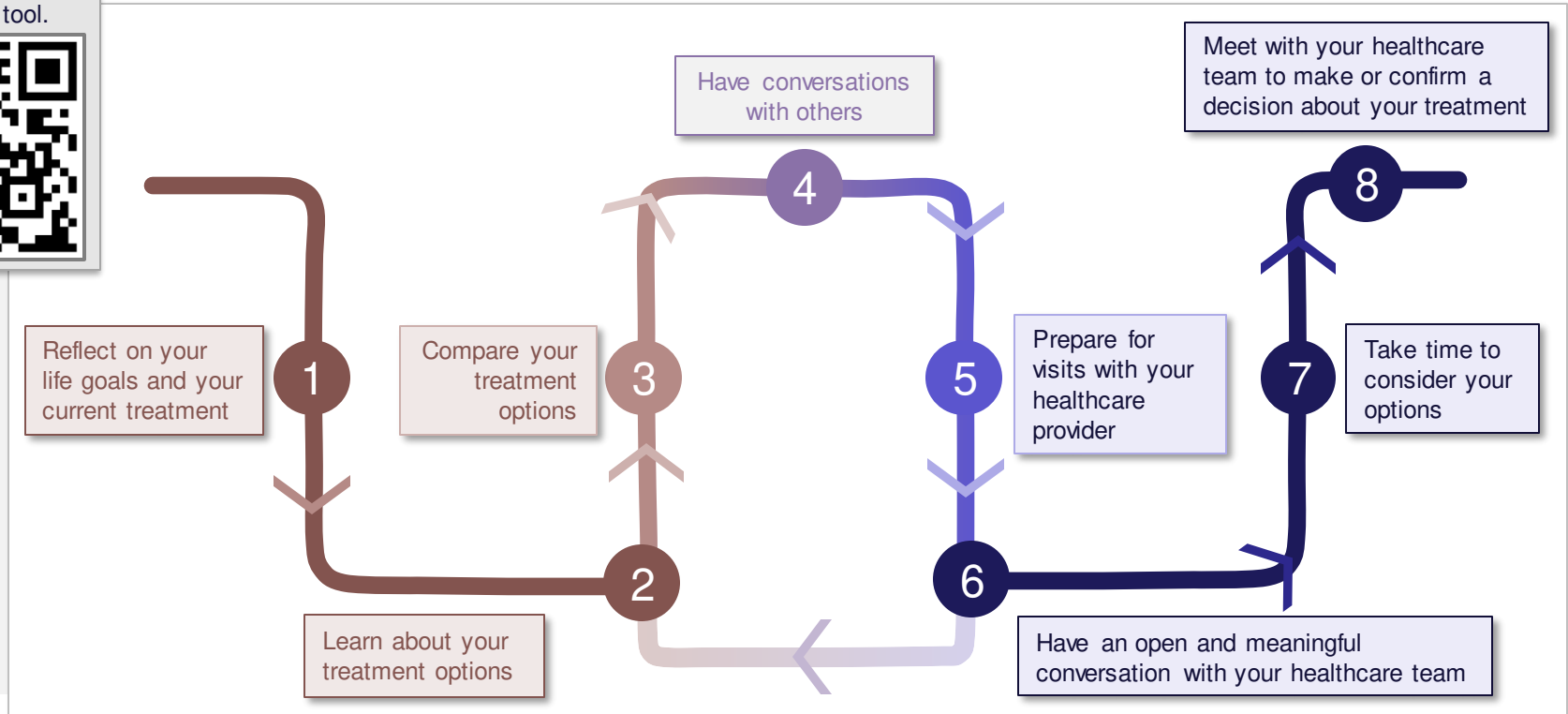
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# Step-by-Step Guide to SDM

## World Federation of Hemophilia (WFH) Decision Making Tool

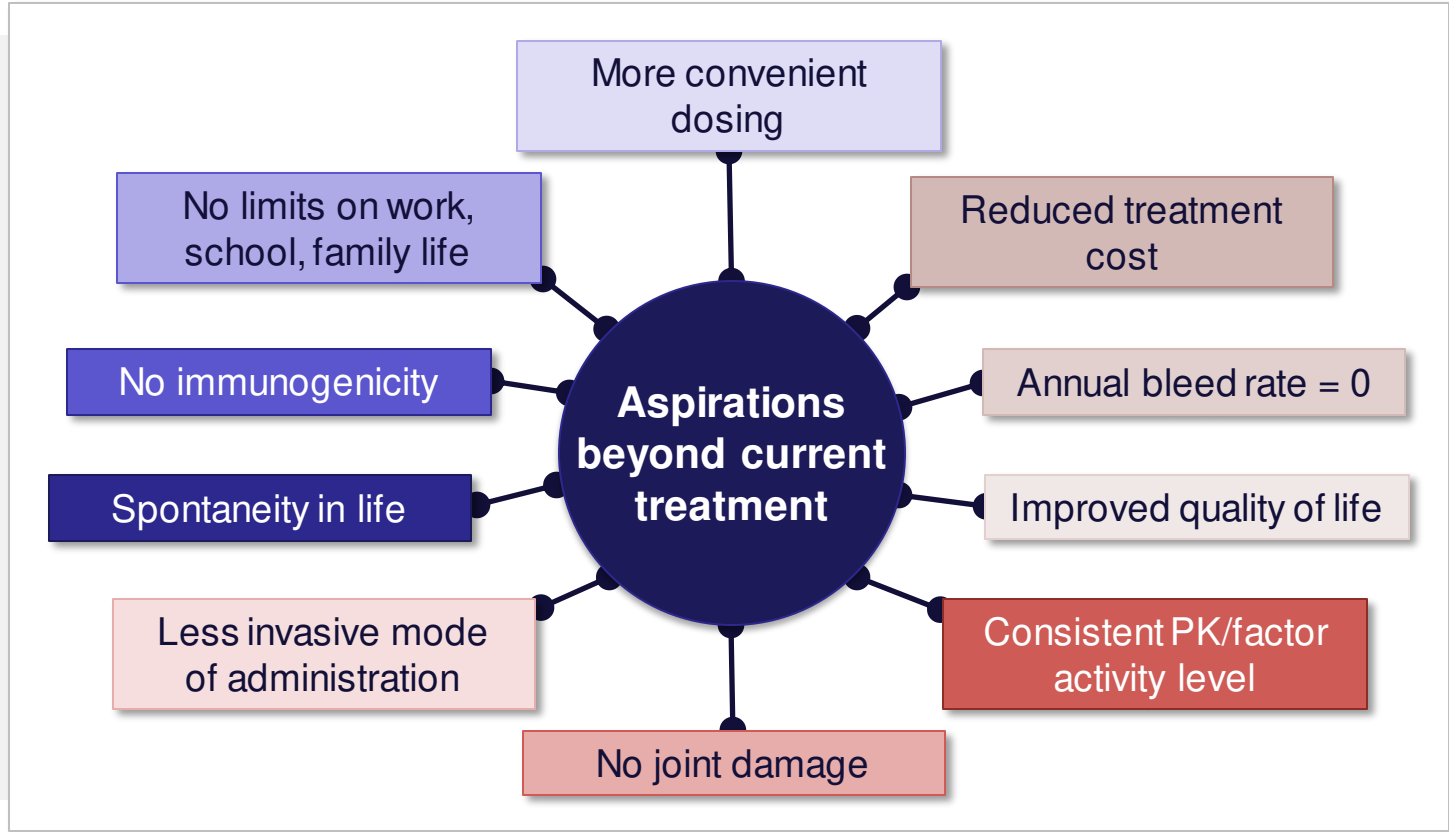
Scan QR code  
for WFH tool.



# Assess Your Goals and Aspirations

*How would you describe the impact of your hemophilia on obtaining your life goals (goals related to work, education, family, hobbies, etc.)?*

*Why are you considering a change to your therapy?*



# Reflect on Your Life with Hemophilia

*Reflect on your life with hemophilia. Your answers will be included in your personalized summary at the end of the tool for you to print and bring to your healthcare team. On a scale of 0 to 100, rate how much you agree with these statements.*

1. I feel tied to (or constrained by) my hemophilia treatment regimen. [0]
2. Managing my hemophilia takes a lot of effort. [0]
3. My hemophilia is always in the back of my mind. [0]
4. I feel adequately protected against bleeds. [0]
5. I am concerned about the potential side effects of novel therapies for hemophilia. [0]
6. I feel upset about missing significant opportunities because of my hemophilia. [0]
7. My hemophilia makes it difficult to keep up a satisfying social life. [0]
8. My hemophilia keeps me from being able to fulfill the roles I expect to be able to do. [0]

# What Is Shared Decision Making?



## A process wherein:

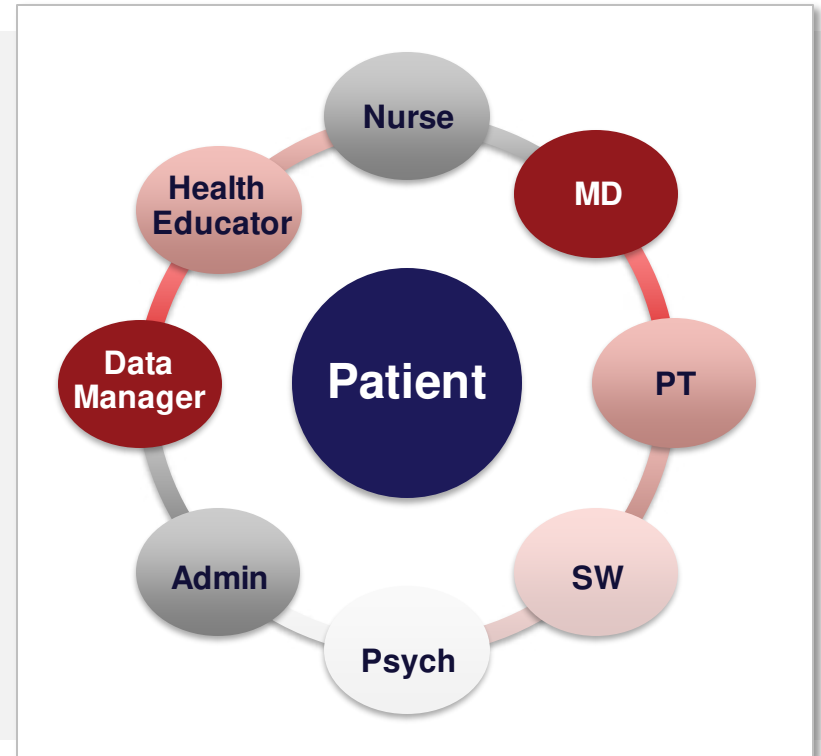
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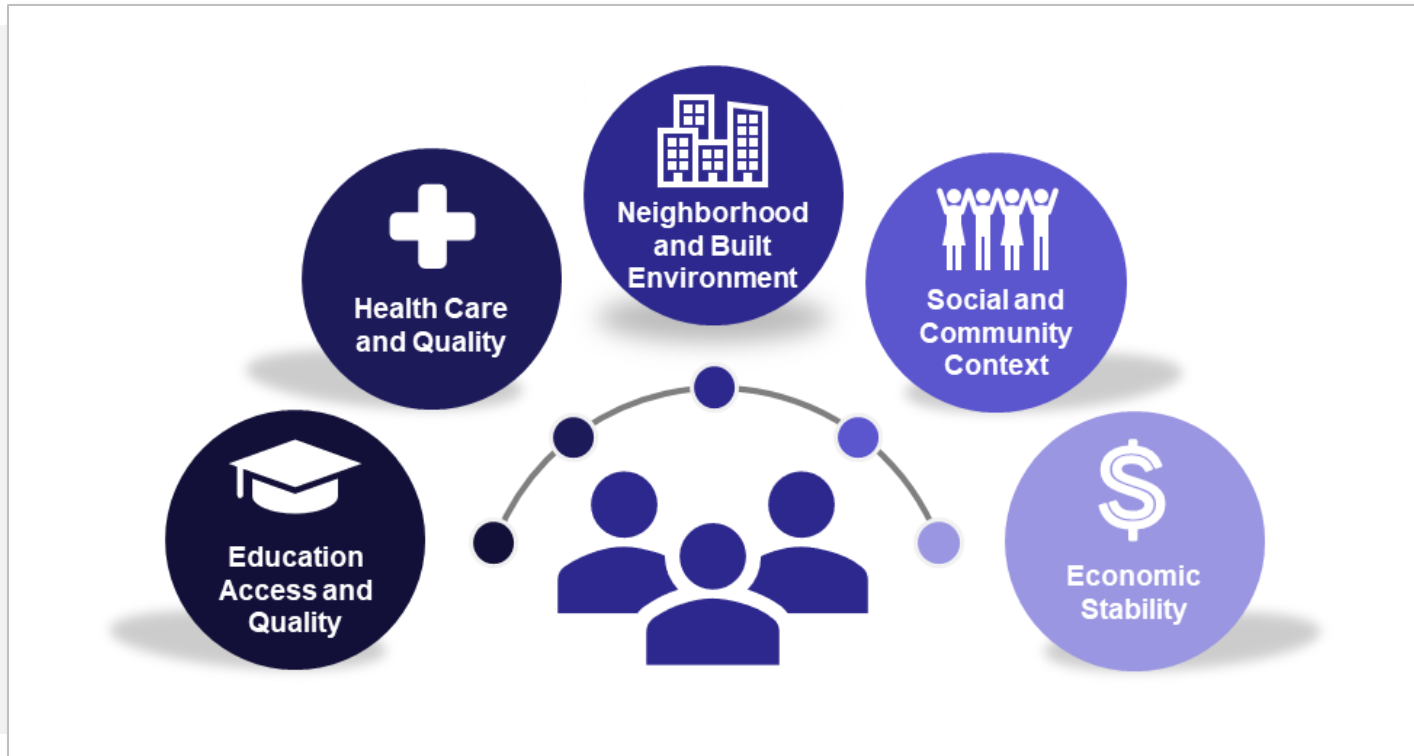
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# Importance of Patient Education

- Involve the multidisciplinary team
- Take into account patient's
  - Development stage
  - Health literacy
  - Cultural background
  - Other social determinants of health (SDoH)



# Understand Social Determinants of Health



# SDoH (...cont'd)

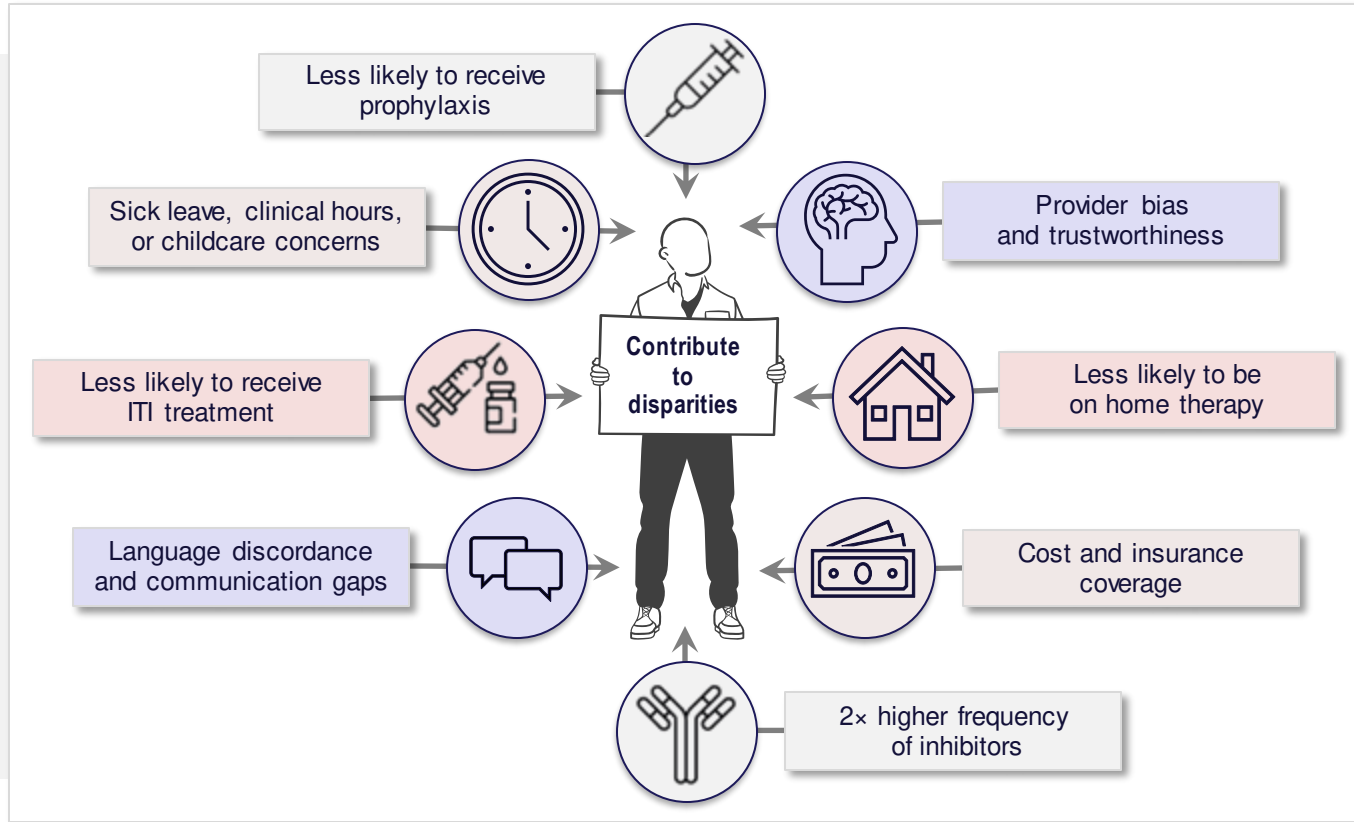


Economic Stability	Neighborhood and Physical Environment	Education	Food	Community and Social Context	Health Care System
Employment	Housing	Literacy	Hunger	Social integration	Health coverage
Income	Transportation	Language	Access to healthy options	Support systems	Provider availability
Expenses	Safety	Early childhood education		Community engagement	Provider linguistic and cultural competency
Debt	Parks	Vocational training		Discrimination	Quality of care
Medical bills	Playgrounds	Higher education		Stress	
Support	Walkability Zip code/ geography				

## Health Outcomes

Mortality, morbidity, life expectancy, health care expenditures, health status, functional limitations

# Contributors to Racial and Ethnic Disparities in Hemophilia Care and Outcomes





# What Is Shared Decision Making?



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# Questions & Answers



# Summary

- Stay current with transformational changes in hemophilia management, including FVIIIa mimetics, TFPI inhibitors, AT-siRNA, and APC inhibition
- Where applicable, follow risk mitigation strategies to ensure safe use of novel therapies
- Assess and implement emerging monitoring strategies for nonfactor therapies
- Implement shared decision making with patients to improve quality of care, adherence to therapies, and outcomes

**To receive CME/CE credit**

*Complete the post-test  
and evaluation*



HEMOSTASIS 2.0

# Rethinking Hemophilia Management with Novel Agents and Shared Decision Making



Supported by an educational grant from **Novo Nordisk, Inc.**