# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

#### FORM 8-K

CURRENT REPORT
Pursuant to Section 13 or 15(d)
of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): May 22, 2024

# X4 PHARMACEUTICALS, INC.

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation)

Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

001-38295 (Commission File Number 27-3181608 (IRS Employer Identification No

61 North Beacon Street, 4th Floor Boston, Massachusetts (Address of principal executive offices)

02134 (Zip Code)

(857) 529-8300 (Registrant's telephone number, including area code)

Not applicable

(Former name or former address, if changed since last report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)							
Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))							
Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))							
Securities registered pursuant to Section 12(b) of the Act:							
Title of each class	Trading Symbol(s)	Name of each exchange on which registered					
Common Stock, par value \$0.001 per share	XFOR	The Nasdaq Stock Market LLC					

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 ( $\S230.405$  of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 ( $\S240.12b-2$  of this chapter). Emerging growth company  $\square$ 

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.  $\Box$ 

#### Item 7.01 Regulation FD Disclosure

Attached as Exhibit 99.1 and furnished for purposes of Regulation FD is a presentation that X4 Pharmaceuticals, Inc. (the "Company") may use from time to time in presentations or discussions with investors, analysts, and other

The information furnished under this Item 7.01 (including Exhibit 99.1) shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise subject to the liabilities of that section, nor shall such information be deemed incorporated by reference in any filing under the Securities Act of 1933, as amended, or the Exchange Act, except as expressly set forth by specific reference in such a filing.

Exhibit No. Financial Statements and Exhibits.

Description

Cover Page Interactive Data File (embedded within the Inline XBRL document).

#### SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934 the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

## X4 PHARMACEUTICALS, INC.

Date: May 22, 2024 By: /s/ Adam Mc

/s/ Adam Mostafa Adam Mostafa Chief Financial Officer



#### Forward-Looking Statements

This presentation including any printed or electronic copy of these slides, the talks given by the presenters, the information communicated during any delivery of the presentation and any question and answer session and any documents or materials distributed at or in connection with the presentation, contains forward-looking statements within the meaning of applicable securities laws, including the Private Securities Litigation Reform Act of 1995, as amended. These statements may be identified by the words "may," "will," "could," "would," "should," "expect," "plan," "anticipate," "intend," "believe," "setimate," "predict," "project," "projec

Any forward-looking statements in this presentation are based on management's current expectations and beliefs. These forward-looking statements are neither promises nor guarantees of future performance, and are subject to a variety of risks and uncertainties, many of which are beyond X4's control, which could cause actual results to differ materially from those contemplated in these forward-looking statements, including the risks that: X4's launch and commercialization efforts in the U.S. with respect to XCIREMDI may not be successful, and X4' may be unable to generate revenues at the levels or on the timing necessary to support our goals; the number of patients with WHIM syndrome, the unmen need for additional treatment options, and the potential market for XCIREMDI may not achieve the clinical benefit, clinical use, or market acceptance we expect or may encounter reimbursement-related or other market-related issues that impact the success of our commercialization efforts; we may encounter adverse events for XCIREMDI at any stage that negatively impact commercialization; X4 may have difficulty establishing and maintaining an effective sales and marketing organization or suitable third-party alternatives for any approved products; X4 may not be able to obtain regulatory approval for, or successfully commercialize, mavorixator or any other potential indication; the expected availability, content, and timing of clinical data from X4's ongoing clinical trials of mavorixator may be delayed or unavailable; the design and rate of enrollment for clinical trials, including the current design of a potential Phase 3 clinical trial evaluating mavorixator in certain chronic neutropenic disorders may be delayed or unavailable; the design and clinical trials with under preferred to the substantial doubter francial results, including its financial runway; X4 may be unable to obtain and maintain regulatory approvals; uncertainties inherent in the initiation and completion of preclinical studic series in clinical studies or ea

Certain information contained in this presentation relates to or is based on studies, publications, surveys and other data obtained from third-party sources and X4's own internal estimates and research. While X4 believes these third-party sources to be reliable as of the date of this presentation, it has not independently verified, and makes no representation as to the adequacy, fairness, accuracy, or completeness of, any information obtained from third-party sources. Finally, while X4 believes its own internal research is reliable, such research has not been verified or validated by any independent source. X4 is the owner of various trademarks, trade names and service marks. Certain other trademarks, trade names and service marks. Certain other trademarks, trade names and service marks. Presentation are the property of third parties. Solely for convenience, the trademarks and trade names in this presentation are referred to without the @ and TM symbols, but such references should not be construed as any indicator that their respective owners will not assert, to the fullest extent under applicable law, their rights thereto.



#### X4 Pharmaceuticals Overview

Fully integrated company delivering innovation for patients with rare immune disorders



Approved by FDA in April 2024!

First drug indicated for patients with WHIM syndrome<sup>1</sup>

Launch underway targeting key immunologists and hematologists

EU submission expected in late 2024 / early 2025

Exploring additional global commercialization opportunities

#### ADVANCING MAVORIXAFOR IN ADDITIONAL INDICATIONS

Clinical data from ongoing Phase 2 trial in chronic neutropenia (CN) expected in June 2024

Global, pivotal Phase 3 clinical trial in CN initiation anticipated in 2Q 2024

Exploring additional potential rare disease indications

#### STRONG BALANCE SHEET SUPPORTS CONTINUED GROWTH

Pro forma funds of \$207 million<sup>2</sup>

Balance sheet expected to fund operations into late 20253

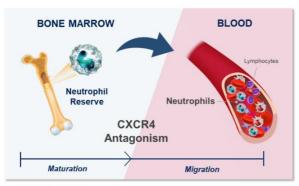


1. WHIM (Warts, Hypogammaglobulinemia, Infections, Myelokathexis); 2. Current funds include \$82 million in cash and equivalents as of March 31, 2024 + \$105 million in proceeds from PRV sale (May 2024) + \$20 million from debt draw down from loan facility with Hercules Capital, Inc. (May 2024); 3. Projected runway excludes any potential U.S. sales of XOLREMDI.

# Mavorixafor: Pipeline in a Product via CXCR4 Antagonism

Validated mechanism shown to alleviate neutropenia and lymphopenia





Modified figure from reference 2

## Targeted Mechanism

- CXCR4 regulates movement of white blood cells throughout the body<sup>2</sup>
- CXCR4 antagonism has been shown to increase the migration of cells from the bone marrow, increasing circulating levels of neutrophils and lymphocytes<sup>3,4</sup>

#### Orally active CXCR4 Antagonist

- Mavorixafor has been shown to raise circulating blood levels of neutrophils and lymphocytes<sup>4,5,6</sup>
- Clinical potential across multiple rare immunodeficiencies
- U.S. patent protection expected through 2038

**X4** 

Bainton DF (1980) The Cell Biology of Inflammation, vol 2, pp 1–25. Amsterdam: Elsevier/North-Holland 2. Furze RC, et al, Immunology. 2008. 3. Mosi, RM, et al, Biochem harmacol, 2012. 4. Stone ND et al, Antimicrob Agents Chemother. 2007; 5. Badolato R, et al. Blood. Published online April 21, 2024;blood. 2023022658; 6. Warren, JT et al, Oral respectation of results from Phase 1 hrisial of mayorization; in agings with chronic neutronenic discorders at the 2022 annual meeting of the American Society of Hematology of the American Society of Hematology and Phase 1 hrisial of the American Society of Hematology and Phase 1 hrisial of the American Society of Hematology and Phase 1 hrisial of the American Society of Hematology and Phase 1 hrisial of the American Society of Hematology and Phase 1 hrisial of the American Society of Hematology and Phase 1 hrisial of the American Society of Hematology and Phase 1 hrisial of the American Society of Hematology and Phase 1 hrisial of the Phase 2 hrisial of the

# Advancing Mavorixafor in Chronic Neutropenic Disorders and WHIM Syndrome

# Only oral candidate marketed / in clinical development across these indications

	Indication	Preclinical	Phase 1	Phase 2	Phase 3	FDA Approved	EXPECTED MILESTONES
XOLREMDI <sup>TM</sup> (mavorixafor) WHIM Syndrome (Warts, Hypogammaglobulinemia, Infections and Myelokathexis)						U.S. launch underway	
	Warts, Hypogammaglobulinemia,		FDA Approved in April 2024				EU submission in late 2024 / early 2025
Chronic Neutropenia (Congenital, Autoimmune, or Idiopathic)	Fatering Phone 2		Interim Ph 2 data (n>15) in June 2024				
	Entering Phase 3				Pivotal Phase 3 initiation 2Q 2024		
X4P-003	TBD						



# WHIM Syndrome: a Combined Primary Immunodeficiency and Chronic Neutropenic Disorder<sup>1</sup>

Heterogeneous presentation of symptoms caused by CXCR4 dysfunction<sup>2</sup>

Most frequently characterized by:



Neutropenia (98%)



Hypogammaglobulinemia (65%)



Recurrent infections (92%)



Warts (40%)

Fewer than 1 in 4 patients present with all 4 manifestations in the WHIM acronym (warts, hypogammaglobulinemia, infections, and myelokathexis)

Based on an international cohort of 66 patients with WHIM syndrome, which included pediatric (65%) and adult (35%) patients.

#### Lifelong impact<sup>2</sup>

Chronic, congenital disorder

Commonly presents in childhood, with median age of diagnosis of 5.5 years of age

Lower life expectancy vs. the general population<sup>3,4</sup> due to sepsis, irreversible organ damage, recurrent pneumonia, and certain cancers

#### Ultra-rare population<sup>5</sup>

Estimated to be at least 1,000 people in the U.S.

Based on X4 market research 2019, 2020.

**X4** 

References: 1. Dale DC, Firkin F, Bolyard AA, et al., Blood. 2020;136(26):2994-3003. 2. Geier CB, Ellison M, Cruz R, et al., J Clin Immunol. 2022;42(8):1748-1765; 3. Dotta L, Notarangelo L, Moratto D, et al. J Allergy Clin Immunol. 2019;7(5):1568-1577; 4. Beaussant Cohen S, Fenneteau O, Plouvier E, et al. Orphanet J Rare Dis. 2012;7:71; 5. Data on file. X4 Pharmaceuticals, Inc., 2024.

# Until Now, WHIM Syndrome Managed with Treatments Not Addressing Underlying Cause

## **Symptomatic Treatments**



- · Not specifically indicated for WHIM syndrome
- No adequate and well controlled trials evaluating safety and efficacy in patients with WHIM syndrome<sup>1,2</sup>
- · G-CSF and IVIg associated with burdensome administration
- Long-term use of antibiotics associated with risk of developing antimicrobial resistance (AMR) and cumulative risk of adverse events<sup>3</sup>
  - 73% of surveyed HCPs (n=74) are concerned about antibiotic resistance in WHIM syndrome patients<sup>4</sup>

G-CSF: granulocyte colony-stimulating factor; IVIg: intravenous immunoglobulin.



References: 1. Dale DC, Firkin F, Bolyard AA, et al, Blood. 2020;136(26):2994-3003; 2. Geier CB, Ellison M, Cruz R, et al, J Clin Immunol. 2022;42(8):1748-1765; 3. Kiss C, Connoley D, Connelly K, et al, Antibiotics, 2022 Jan 11(1): 62; 4. X4 March 2024 Research; 74 HCPs (44 Immunologists and 30 HEM/ONCs).

# Now FDA approved!

For use in patients 12 years of age and older with WHIM syndrome (warts, hypogammaglobulinemia, infections and myelokathexis) to increase the number of circulating mature neutrophils and lymphocytes.

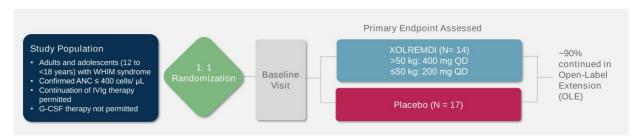


(zōl-RĔM-dee)

See full prescribing information at xolremdi.com

# 4WHIM: the Largest Phase 3 Clinical Trial to Date in WHIM Syndrome

XOLREMDI was studied in a global, randomized, double-blind, placebo-controlled, Phase 3 trial conducted in 31 patients with WHIM syndrome



#### Primary endpoint

 Improvement in absolute neutrophil count (ANC) as measured by the mean time above ANC threshold of 500 cells/µL at 13, 26, 39, and 52 weeks

## Secondary endpoints

- Improvement in absolute lymphocyte count (ALC) as measured by the mean time above ALC threshold of 1000 cells/µL at 13, 26, 39, and 52 weeks
- Composite endpoint: Analysis of total infection score (rate, severity) and total wart change score

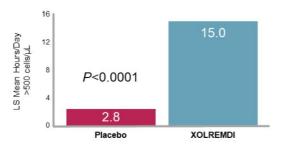


1. Badolato R, et al. Blood. Published online April 21, 2024;blood.2023022658

# 4WHIM: XOLREMDI Significantly Increased Time Patients Stayed Above Key Immune Cell Count Thresholds over 52 Weeks versus Placebo

#### Primary endpoint

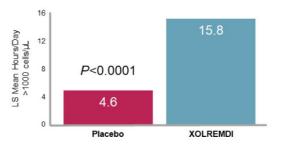
Significantly increased mean hours per day above the threshold for neutrophils



Severe neutropenia threshold = 500 cells/  $\mu$ L

## Key secondary endpoint

Significantly increased mean hours per day above the threshold for lymphocytes



Severe lymphopenia threshold = 1000 cells/  $\mu L$ 



Reference: XOLREMDI package insert. Please see Important Safety Information and full Prescribing Information at <u>www.xolremdi.com</u>.

# 4WHIM: Patients Treated with XOLREMDI Experienced Improvements Across Infection Assessments over 52 Weeks versus Placebo<sup>1</sup>

20

10

#### Total infection score 40% lower for patients on XOLREMDI versus those on placebo On average, infection duration Fewer patients with ~60% reduction in was 5 weeks shorter severe infection annualized infection rate 50 29.4% Percent of Patients with Grade ≥3 Infections 40 4.2 Duration of Infection (LS Mean Days) 49.1 20 30

XOLREMDI

10

Placebo

No difference in wart change scores between XOLREMDI and placebo arms

Placebo

**X4** 

LS Mean Annualized Infections

3

Placebo

1. Badolato R, et al. Blood. Published online April 21, 2024;blood.2023022658.

XOLREMDI

XOLREMDI

# 4WHIM: Treatment Generally Well Tolerated; Majority of Adverse Reactions Mild to Moderate in Severity

Adverse Reactions Section of Product Label  $^1$  ( $\geq 10\%$  and at a frequency higher than placebo in 4WHIM)

Adverse Reaction	XOLREMDI (n=14)	Placebo (n=17)
Thrombocytopenia	3^	0
Pityriasis	2	0
Rash	2	0
Rhinitis	2	0
Epistaxis	2	1
Vomiting	2	1
Dizziness	2	1

^Serious adverse reactions of thrombocytopenia occurred in 3 of the 14 patients who received XOLREMDI, two of which occurred in the setting of infection or febrile neutropenia.

Warnings and Precautions: Embryo-fetal toxicity and QTc

interval prolongation.

Published Phase 3 trial data results<sup>2</sup> showed:

- XOLREMDI (mavorixafor) was generally well tolerated in participants with WHIM syndrome
- No discontinuations occurred due to treatment-emergent adverse events (TEAEs), and none were deemed related to treatment
- No treatment-related serious TEAEs were observed



XOLREMDI package insert. Please see Important Safety Information and full Prescribing Information at <a href="https://www.xolremdi.com">www.xolremdi.com</a>.
 Badolato R, et al. Blood. Published online April 21, 2024;blood.2023022658.

# Commercial Strategy Overview: Targeted Education, Engagement, and Access

#### Support Patient Diagnosis

- Educate on WHIM syndrome
- Provide diagnostic support
- Engage at key medical conferences



#### Establish XOLREMDI as Standard of Care in WHIM syndrome

- Target key hematologists & immunologists
- Communicate targeted MOA and clinical profile
- Drive adoption and uptake in appropriate patients



#### Gain Broad Access

- Mitigate access barriers
- Provide full suite of patient support services
- Help patients throughout their treatment journey



Leveraging an agile commercial team to execute X4's first product launch



# Targeted Approach to Covering the U.S. WHIM Market

Field team recruited from well known rare and ultrarare organizations

Collectively more than 250 years of demonstrated success in commercial launches

Mission-driven, patientcentric: bringing a novel therapy to a historically underserved population

# Refined Target List of ~3,500 HCPs (primarily immunologists and hematologists) Range: 250 to 300 Range: 150 to 200 Range: 25 to 50 Range: 10 to 25

- Focused engagement with ~20 top thought leaders
- Partnering with patient advocacy organizations





Range: 1 to 10



# XOLREMDI Addressing High Unmet Need with Targeted Innovation



Targeted Breakthrough therapy for ultra-rare patient population



First and only FDA-approved therapy indicated for WHIM syndrome



Demonstrated efficacy & safety profile



Potential to address high burden of disease and strengthen relevant aspects of patients' immune function



#### Annual Price\* Reflects Value

- Patients >50 kg = 400 mg daily = \$496,400 annually
- Patients ≤50 kg = 300 mg daily = \$372,300 annually

#### Committed to Providing Innovative Solutions

Dedicated support and education available through X4Connect and PANTHERx Rare for all eligible patients

Helping unite the WHIM syndrome community through collaborations, targeted education, and support of earlier diagnosis



\* Wholesale acquisition cost (WAC); assumes full compliance

# Chronic Neutropenia: No Innovation in More Than 30 Years





Injectable Granulocyte Colony-Stimulating Factor (G-CSF)

- Inconvenient daily injections
- Frequent treatment-related/treatment-limiting bone pain and other adverse events

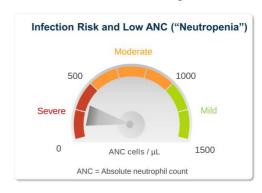
Clear Need for Increased Options for Patients: Efficacious, Oral, Well Tolerated Treatments



1. X4 Market Research, July 2023 – data on file; ICD-10 Code Research (2017-2023)

# Living With Chronic Neutropenia (CN): Risk of Serious, Life-Threatening Infections

NIH Classification <sup>1</sup>	ANC Levels (cells/μL)	Infection Risk with Immunodeficiency <sup>2</sup>		
Severe (Grade 4)	<500	Moderate to severe		
Moderate (Grade 3)	500-1,000	Moderate to severe		
Mild (Grade 2)	1,000-1,500	Minimal to severe		
Non-clinical (Grade 1)	1,500 - LLN	No clinical impact		



- Frequent and/or severe infections are the primary clinical consequence of chronic neutropenic disorders<sup>3</sup>
- Infection frequency, severity, and duration are correlated with magnitude and duration of decreased ANC levels<sup>4</sup>
- Infections may lead to frequent hospitalizations or result in life-threatening complications, including death<sup>5,6</sup>



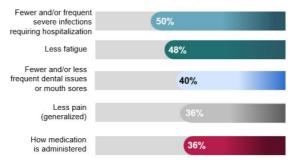
1. https://ctep.cancer.gov/protocoldevelopment/electronic\_applications/docs/ctace\_v5\_quick\_reference\_8.5x11.pdf; 2. Jan Palmblad, Carlo Dufour, Helen A. Papadaki, Haematologica, Vol. 99 No. 7 (2014); July, 2014; 3. Sicre de Fontbrune F, et al. Blood, 2015;126(14):1643-1650; 4.Bodey, GP, et al, Ann Intern Med, 1966. 5. Donadieu J, et Carlo Dufour, 100:141(14):1015;126(14):1643-1650; 4.Bodey, GP, et al, Ann Intern Med, 1966. 5. Donadieu J, et Carlo Dufour, 100:141(14):1015;126(14):1643-1650; 4.Bodey, GP, et al, Ann Intern Med, 1966. 5. Donadieu J, et Carlo Dufour, 100:141(14):1015;126(14):1643-1650; 4.Bodey, GP, et al, Ann Intern Med, 1966. 5. Donadieu J, et Carlo Dufour, 100:141(14):1015;126(14):1643-1650; 4.Bodey, GP, et al, Ann Intern Med, 1966. 5. Donadieu J, et Carlo Dufour, 100:141(14):1015;126(14):1643-1650; 4.Bodey, GP, et al, Ann Intern Med, 1966. 5. Donadieu J, et Carlo Dufour, 100:141(14):1015;126(14):1643-1650; 4.Bodey, GP, et al, Ann Intern Med, 1966. 5. Donadieu J, et Carlo Dufour, 100:141(14):1015;126(14):1643-1650; 4.Bodey, GP, et al, Ann Intern Med, 1966. 5. Donadieu J, et Carlo Dufour, 100:141(14):1015;126(14):1643-1650; 4.Bodey, GP, et al, Ann Intern Med, 1966. 5. Donadieu J

# What Makes a Difference to Chronic Neutropenia Patients and Their Physicians?

#### Expanded treatment options, ideally:

- · Reduced infection rates
- · Oral formulation
- · Good safety profile
- · Alternate therapy to injectable G-CSF and/or
- · Reduced G-CSF-dose & related toxicities

#### Patients/Caregivers (n=100)1,2









1. Ellis A, et al. poster presented at ASH Annual Meeting December 2022; 2. Other improvements included lower cost, fewer and/or less frequent short-term side effects from medication, fewer and/or less frequent gastrointestinal symptoms, fewer and/or less frequent long-term side effects from medication, and easier storage; respondents were allowed to select ≥1 options - total percentages may not add up to 100.

TC

## Assessing Mavorixafor in Six-Month CN Phase 2 Clinical Trial

Chronic daily dosing of mavorixafor +/- G-CSF



#### Primary Study Objectives:

Mavorixafor Monotherapy: Assess if mavorixafor raises ANC levels in neutropenic patients as a monotherapy

Mavorixafor + Stable-dose G-CSF: Assess safety in combination with G-CSF, increase and durability of ANC

Mavorixafor + G-CSF With Dose-Adjustments<sup>1</sup>: Assess safety in combination with G-CSF, increase and durability of ANC, and potential for G-CSF dose-reductions in selected patients



## Mavorixafor: Potential to Deliver First Innovation in CN in 30+ Years

Successful WHIM Phase 3 Clinical Trial Results Guide Success Factors in CN

Significant Increase in ANC Over 52 Weeks = ~60% Reduction in Annualized Infection Rate Moderate 500 1000 Mild 0 1500 ANC cells / μL ANC = Absolute neutrophil count

Positive Phase 1 & 2 CN Data to Date Support Advancement to Phase 3

#### CN Phase 1b Results

 ANC increased by >500 cells/µL in 100% (n=25) after single dose

- Early CN Phase 2 Results
   Durable increases in ANC¹ in all subjects reported to date (n=3).
  - Clinically meaningful (Δ ANC >500 cells/μL)
- Infection rates

  - No infections in all patients after month 2
    No increase in infections despite reduction/withdrawal of G-CSF (n=2)



1. All subjects increased absolute neutrophil count (ANC) over first 3 months of dosing (when G-CSF maintained at fixed, baseline dose)

# CN Clinical Data to Date Support Advancing Mavorixafor into Phase 3 Trial

#### Overall learnings

- ✓ First supporting evidence that mavorixafor treatment durably increases ANC
- ✓ Levels of observed ANC increase (Δ ANC ≥ 500) correlate with infection risk reduction
- Safety profile to date supports chronic treatment with mavorixafor
- ✓ Preliminary data support responder criteria used as primary endpoint in planned CN Phase 3

# Mavorixafor delivered on patient needs

- ✓ Neutropenic participants achieved normalized ANCs
- ✓ G-CSF could be reduced meaningfully (50% or more)
- ✓ No additional adverse effects seen to date in combination with G-CSF



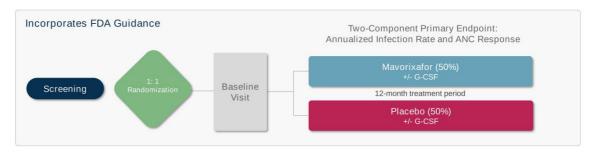
#### Phase 2 CN Trial Ongoing

- >20 participants enrolled in trial 40% on mavorixafor monotherapy
- Interim Phase 2 data expected in late June 2024 (n>15)
- Full data set expected in late 2024

Data Across Multiple Studies to Date + Input from FDA Informed Pivotal, Global Phase 3 Trial Design



# CN Pivotal, Global Phase 3 Trial Expected to Initiate in 2Q 2024



Key Inclusion Criteria:

- · Diagnosis: congenital, autoimmune, or idiopathic neutropenia
- Absolute Neutrophil Count (ANC): <1500 cells/μL</li>
- Infection history: 2 infections requiring intervention within last 12 months

Design: double-blinded, randomized, placebo-controlled on top of standard of care (+/- G-CSF1); same mavorixafor dosing as 4WHIM trial

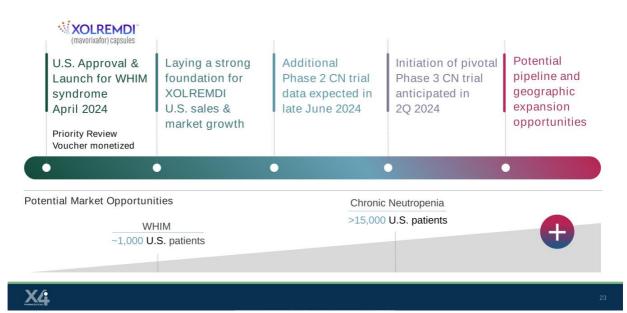
Secondary Endpoints Include: severity and duration of infection, antibiotic use, fatigue, QoL, and safety

Endpoint and Power: 150 subjects, ≥90% on primary endpoints of annualized infection rate and ANC response



1. For those treated with G-CSF at baseline, G-CSF dose and frequency are required to remain constant throughout the trial unless adjustment is needed for safety reasons.

# Continuing to Deliver Progress for Patients



U.S. Headquarters 61 North Beacon Street, 4th Floor Boston, MA 02134

NASDAQ: XFOR





Research Center of Excellence Helmut-Qualtinger-Gasse 2 A-1030 Vienna, Austria

www.x4pharma.com

# Seasoned Executive Leadership Team

Experienced in research, development, & commercialization of first-in-class, innovative therapies





Strong Balance Sheet Supports Expected Upcoming Milestones

# ~\$207 million<sup>1</sup>

Funds expected to support operations into late 2025<sup>2</sup>

Top-tier Life Science-Focused Institutional Shareholder Base

Analyst Coverage

B RILEY BER

BROOKLINE CAPITAL MARKETS CANTOR Fitzgerald

PIPER | SANDLER

STIFEL





1. Current funds include \$82 million in cash and equivalents as of March 31, 2024 + \$105 million in proceeds from PRV sale (May 2024) + \$20 million from debt draw down from loan facility with Hercules Capital, Inc. (May 2024); 2. Projected runway excludes any potential U.S. sales of XOLREMDI.