

2024 EHA Management Call

Clinical Data Updates:

Bitopertin, DISC-0974, and DISC-3405

June 14, 2024



Disclaimer and FLS

This presentation includes “forward-looking statements” within the meaning of the Private Securities Litigation Reform Act of 1995, as amended. These forward-looking statements include express or implied statements relating to Disc’s management team’s expectations, hopes, beliefs, intentions or strategies regarding Disc’s expectations with respect to its AURORA Phase 2 and BEACON Phase 2 clinical studies of bitopertin and the results thereof, its Phase 1b/2 clinical studies of DISC-0974 in patients with MF and NDD-CKD patients with anemia, its Phase 1 clinical study of DISC-3405 in healthy volunteers; projected timelines for the initiation and completion of its clinical trials, anticipated timing of release of data, and other clinical activities; Disc’s business plans and objectives; Disc’s analysis of market potential for patients with EPP; and Disc’s beliefs about operating expenses and that it will have capital to fund Disc well into 2026. In addition, any statements that refer to projections, forecasts or other characterizations of future events or circumstances, including any underlying assumptions, are forward-looking statements. The words “anticipate,” “believe,” “contemplate,” “continue,” “could,” “estimate,” “expect,” “intends,” “may,” “might,” “plan,” “possible,” “potential,” “predict,” “project,” “should,” “suggest,” “will,” “would” and similar expressions may identify forward-looking statements, but the absence of these words does not mean that a statement is not forward-looking. Forward-looking statements are neither historical facts nor assurances of future performance. Instead, they are based on Disc’s current beliefs, expectations and assumptions regarding the future of Disc’s business, future plans and strategies, clinical results and other future conditions. New risks and uncertainties may emerge from time to time, and it is not possible to predict all risks and uncertainties. No representations or warranties (expressed or implied) are made about the accuracy of any such forward-looking statements. Disc may not actually achieve the plans, intentions or expectations disclosed in these forward-looking statements, and investors should not place undue reliance on these forward-looking statements. These forward-looking statements involve a number of risks, uncertainties (some of which are beyond Disc’s control) or other assumptions that may cause actual results or performance to be materially different from those expressed or implied by these forward-looking statements. These risks and uncertainties include, but are not limited to: the adequacy of Disc’s capital to support its future operations and its ability to successfully initiate and complete clinical trials; the nature, strategy and focus of Disc; the difficulty in predicting the time and cost of development of Disc’s product candidates; Disc’s plans to research, develop and commercialize its current and future product candidates; the timing of initiation of Disc’s planned preclinical studies and clinical trials; the timing of the availability of data from Disc’s clinical trials; Disc’s ability to identify additional product candidates with significant commercial potential and to expand its pipeline in hematological diseases; the timing and anticipated results of Disc’s preclinical studies and clinical trials and the risk that the results of Disc’s preclinical studies and clinical trials may not be predictive of future results in connection with future studies or clinical trials and may not support further development and marketing approval; the other risks and uncertainties described in our Annual Report on Form 10-K for the year ended December 31, 2022, Quarterly Reports on Form 10-Q for the quarters ended March 31, 2023, June 30, 2023 and September 30, 2023, and other documents filed by Disc from time to time with the Securities and Exchange Commission. Any forward-looking statement speaks only as of the date on which it was made. None of Disc, nor its affiliates, advisors or representatives, undertake any obligation to publicly update or revise any forward-looking statement, whether as result of new information, future events or otherwise, except as required by law.



Bitopertin, DISC-0974, and DISC-3405 are investigational agents and are not approved for use as therapies in any jurisdiction worldwide

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Bitopertin in EPP

- Updated AURORA Data

Will Savage, MD, PhD, Chief Medical Officer

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- Updated Data in Anemia of Myelofibrosis

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Q&A Session

Bitopertin: Summary of Phase 2 AURORA and BEACON Data Updates

Additional analysis of AURORA data confirmed bitopertin drug activity and meaningful impact on multiple aspects of EPP. Key findings:



Confirmed drug activity with significant reduction in PPIX, phototoxic reactions, and improved QoL



Time course of phototoxic reactions and sunlight exposure showed **greater treatment effect** after **PPIX nadir established**



Greater **PPIX reductions** associated with **improvements in multiple light-tolerance measures**



Generally well tolerated with stable mean hemoglobin levels

DISC-0974: Summary of Updated Data from Phase 1b Study in MF

Updated data from Phase 1b study in MF continued to demonstrate positive impacts on anemia with high response rates. Key findings:



Substantial **reduction in hepcidin levels and increase in iron levels**



Positive impact on **hemoglobin and transfusion burden** across a broad range of participants



Durable response in the majority of participants



Generally well tolerated at all evaluated dose levels

DISC-3405: Summary of Healthy Volunteer SAD Data

Single-ascending dose portion of the healthy volunteer study of DISC-3405 demonstrated proof of mechanism. Key findings:



Substantial
**increase in
hepcidin levels**



**Sustained
reductions in iron
levels; >50% at the
highest dose levels,**
supportive of SC
monthly dosing



Positive impact on
**hematologic
parameters** at the
highest dose



**Generally well
tolerated** at all
evaluated dose
levels

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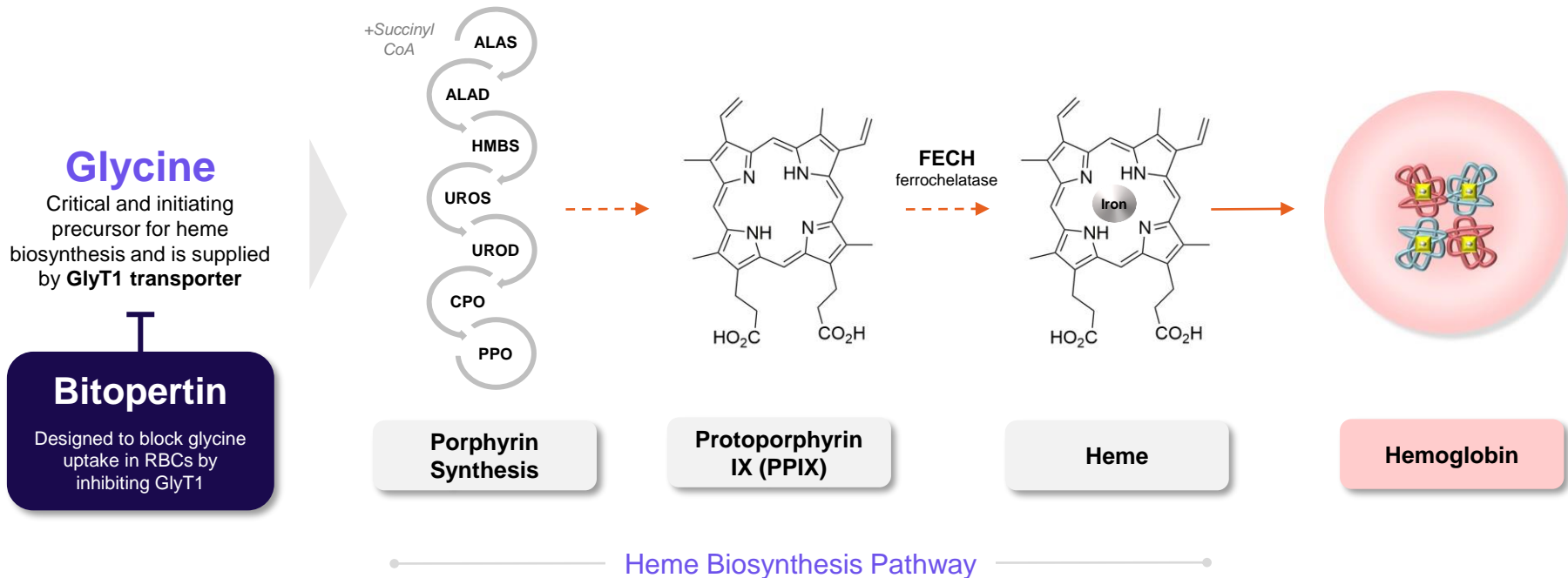
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Q&A Session

Bitopertin: Investigational Oral, Selective GlyT1 Inhibitor

In multiple clinical studies by Roche, bitopertin was observed to modulate heme biosynthesis by blocking uptake of glycine in erythrocytes



Erythropoietic Protoporphyrria (EPP)

Rare, debilitating, and lifelong condition characterized by extreme pain and damage to skin caused by light

Genetic condition caused by defective heme biosynthesis – deficient enzyme ferrochelatase

- Lifelong and presents in early childhood
- Caused by accumulation of toxic metabolite PPIX
- XLP, mechanistically similar disease, also PPIX-related

Debilitating and potentially life-threatening

- Skin: severe, disabling phototoxic reactions (days), edema, burning
- Hepatobiliary disease: gallstones, liver dysfunction or failure
- Psychosocial well-being (fear, anxiety) and development

No cure or disease-modifying treatment

- Avoid sun/light, protective clothing, window tinting, Zn/Ti Oxide
- One FDA-approved agent, afamelanotide, a surgically implanted tanning agent



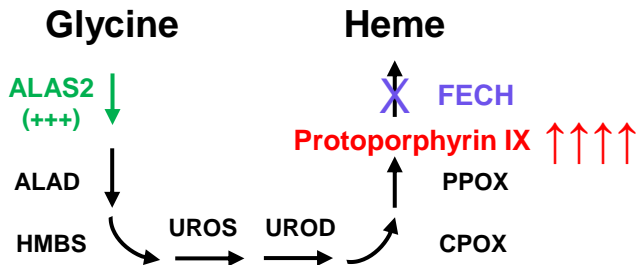
Image sources: Daily Mail Australia (2019); FDA Scientific Workshop on EPP (2016); Buonomo et al. (2014) Arch Dis Child

Bitopertin: Potential Disease-Modifying Treatment

Designed to reduce disease-causing PPIX by limiting uptake of glycine into developing erythrocytes

EPP and XLP Patients

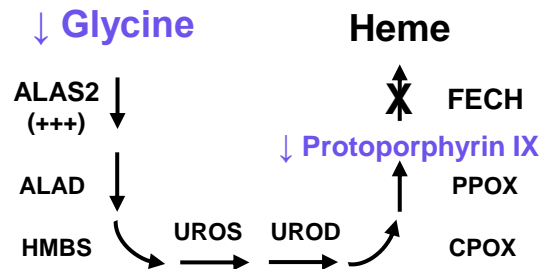
High PPIX Levels



Mutations result in reservoir of pathologically high levels of PPIX

Bitopertin Treatment

Designed to Reduce PPIX Levels

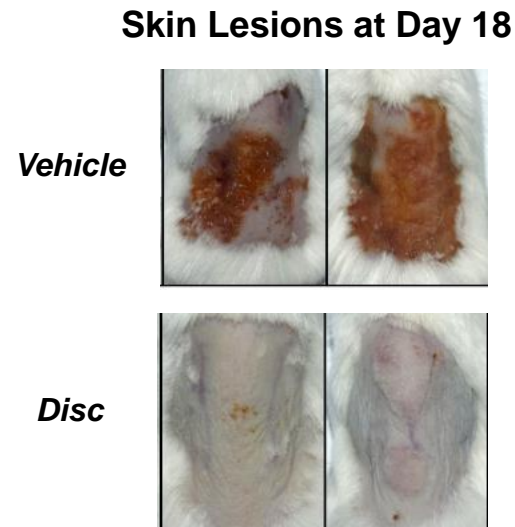
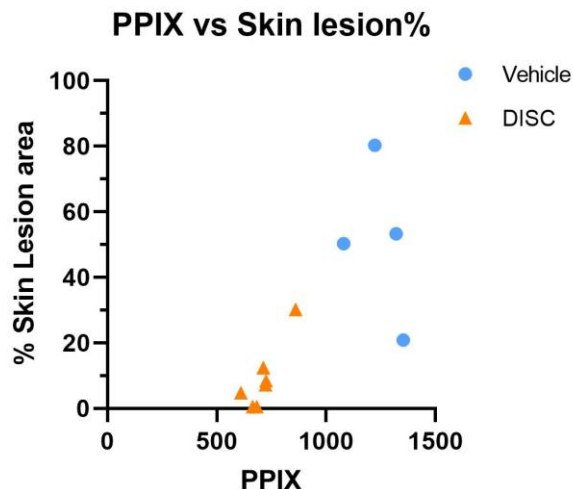
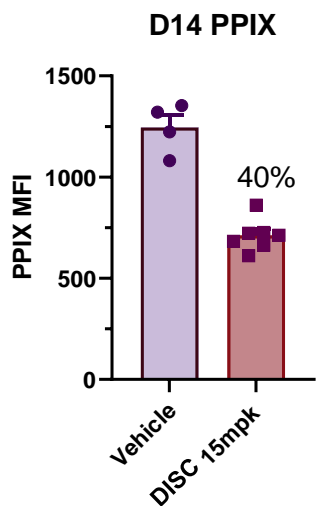


Potential first disease-modifying treatment for EPP and XLP

Reductions in PPIX levels of $\geq 30\%$ reported in literature to have a major impact on photosensitivity in patients

PPIX in EPP: Phototoxicity in Mice

GlyT1 inhibition significantly ameliorated skin lesions after UV exposure and degree of skin lesion correlated with PPIX levels



EPP Phase 2 Development Program

BEACON and AURORA Studies



BEACON

- > **EPP and XLP**; N = >22
- > **Australia** (study opened July '22)
- > **Open-Label, randomized, 24-week study**



AURORA

- > **EPP**; N = 75 (fully enrolled)
- > **US** (study opened October '22)
- > **Double-blind, placebo-controlled, 17-week study**

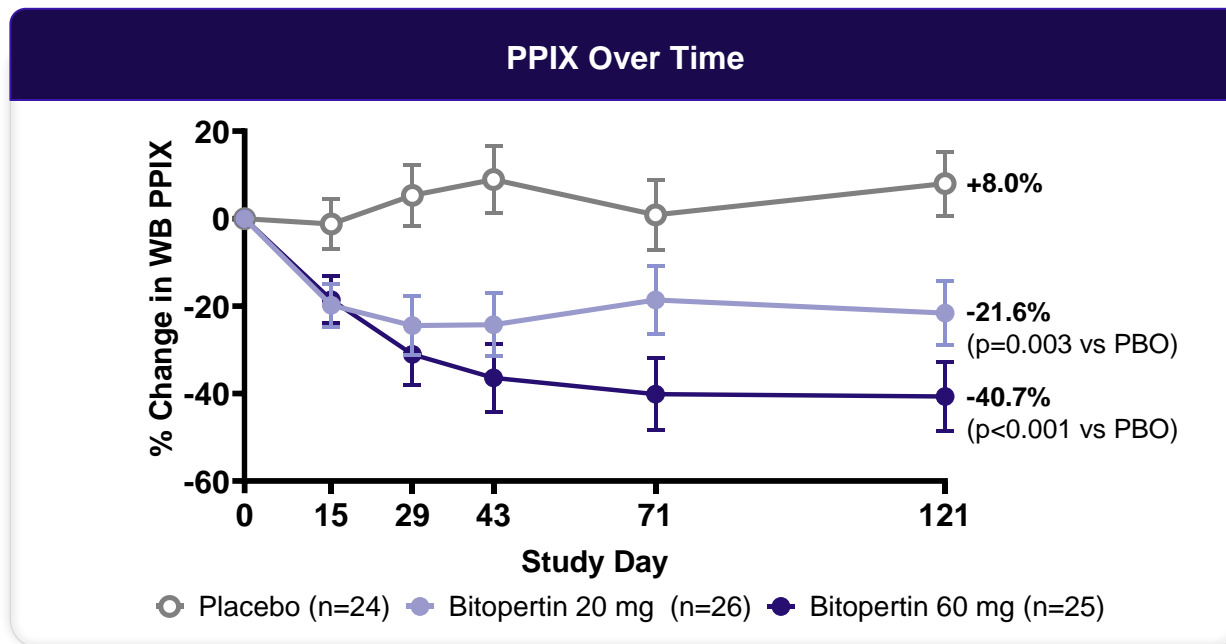
AURORA Study: Disposition and Baseline Characteristics

	Placebo (n=24)	Bitopertin 20 mg (n=26)	Bitopertin 60 mg (n=25)
Randomized	24	26	25
Completed Study	24	26	22
Discontinued Prior to Day 121	0	0	3
Characteristic			
Mean Age, years	42.3	45.0	47.8
Female, n (%)	12 (50%)	14 (54%)	12 (48%)
White, n (%)	24 (100%)	24 (92%)	24 (96%)
Baseline PPIX, Mean ± SE (ng/mL)	8,691 ± 903	8,155 ± 1,337	10,597 ± 983
Daily Sunlight Exposure (hr), Mean (range)	1.29 (0.18, 3.31)	1.17 (0.26, 4.03)	1.07 (0.04, 2.78)
Time to Prodrome, n (%)			
< 30 min	9 (38%)	9 (35%)	8 (32%)
≥ 30 min	15 (63%)	17 (65%)	17 (68%)

AURORA Met Primary Endpoint

Statistically significant reductions in whole-blood (WB) metal-free PPIX

- Bitopertin reduced PPIX levels consistent with BEACON, taking ~6-8 weeks to reach max reduction
- Significant reductions observed in both 20 mg and 60 mg doses

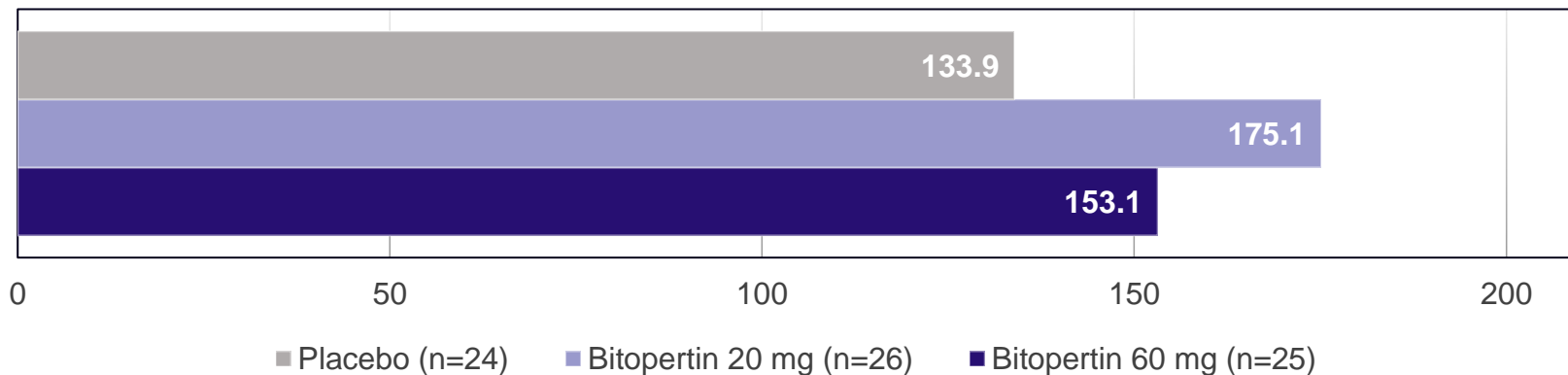


Updated AURORA Data: Key Secondary Endpoint

Cumulative time in light without pain

- ⦿ Bitopertin treatment effect similar to BEACON results
- ⦿ Did not meet statistical significance due to strong performance of placebo arm

Mean Cumulative 4-month Total Time in Light Without Pain (hr)

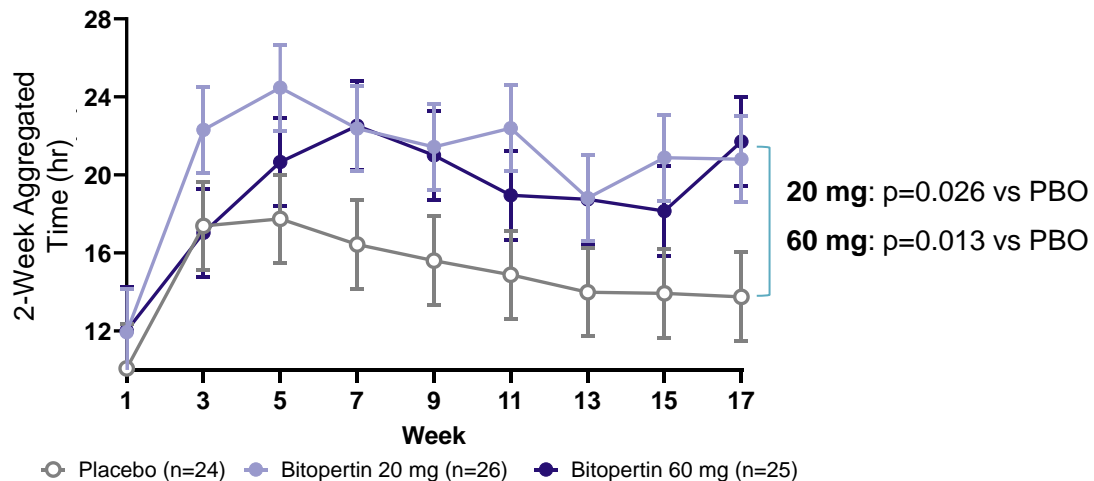


Updated AURORA Data: Time in Light Without Pain

Post-hoc longitudinal analysis adjusted for baseline

- ⦿ Statistically significant improvements in daily time in light compared to placebo
- ⦿ Meaningful changes in daily time in light relative to baseline

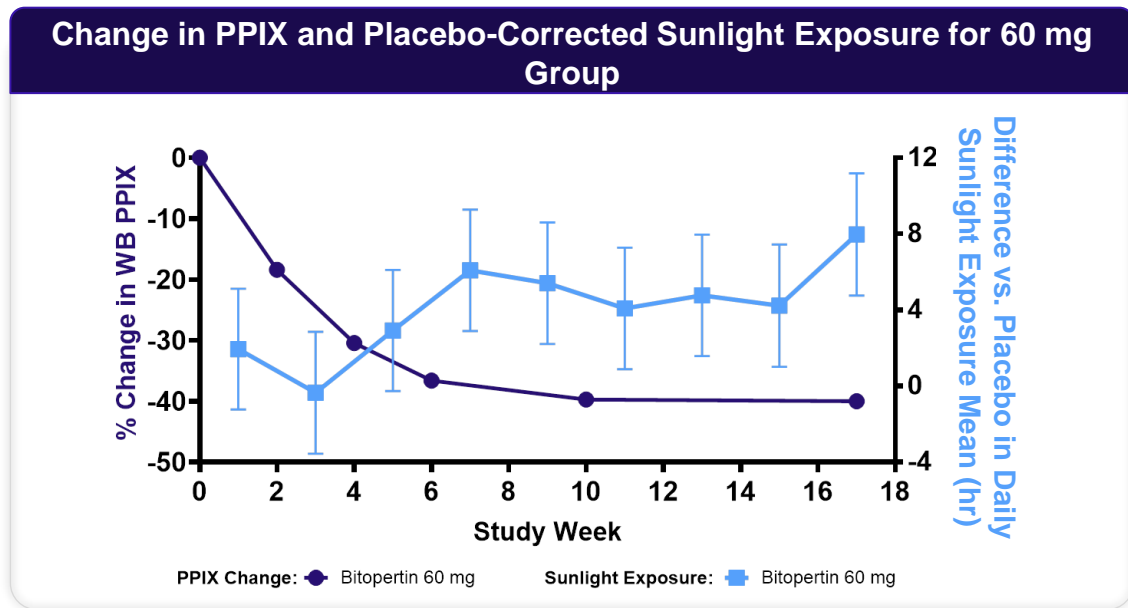
Sunlight Exposure Over 2-Week Intervals



Change from Baseline	
Bitopertin 60 mg (n=25)	2.0x
Bitopertin 20 mg (n=26)	1.9x
Placebo (n=24)	1.1x

Updated AURORA Data: Light Tolerance

- ⊙ Timing of PPIX reduction aligns with the time course of increases in sunlight tolerance



Updated AURORA Data: Phototoxic Reactions with Pain

- ⊗ Dose-dependent reduction in rate of phototoxic reactions with pain, reaching statistical significance in the 60 mg dose group
- ⊗ Max pain score reduced with bitopertin

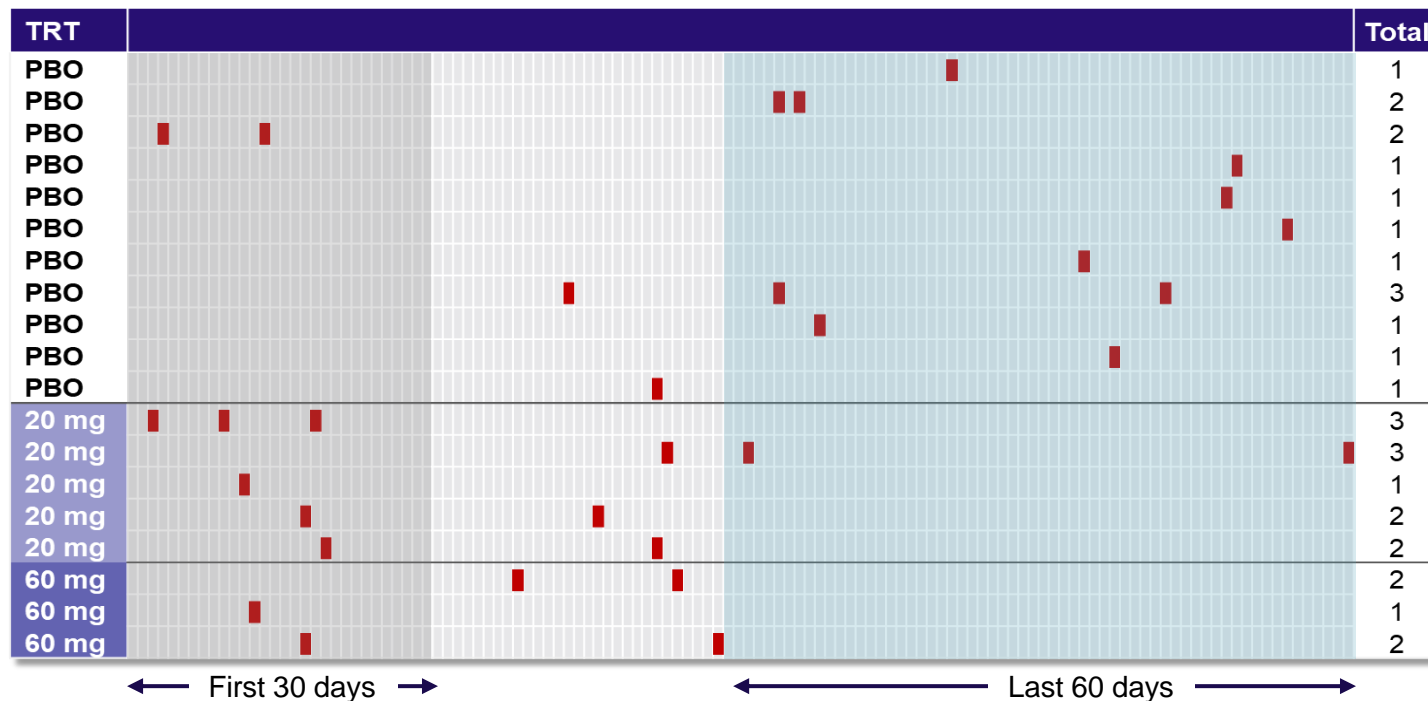
Incidence Rate Ratio of New Phototoxic Reactions with Pain vs. Placebo



	Screening (2-4 weeks)		Double-Blind Period (17 weeks)		
	# of New Reactions	# of Participants	# of New Reactions	# of Participants	Median Max Pain Score
Placebo (n=24)	4	2 (8%)	15	11 (46%)	5.0
Bitopertin 20 mg (n=26)	11	8 (31%)	11	5 (19%)	4.0
Bitopertin 60 mg (n=25)	8	6 (24%)	5	3 (12%)	3.5

Updated AURORA Data: Phototoxic Reactions with Pain

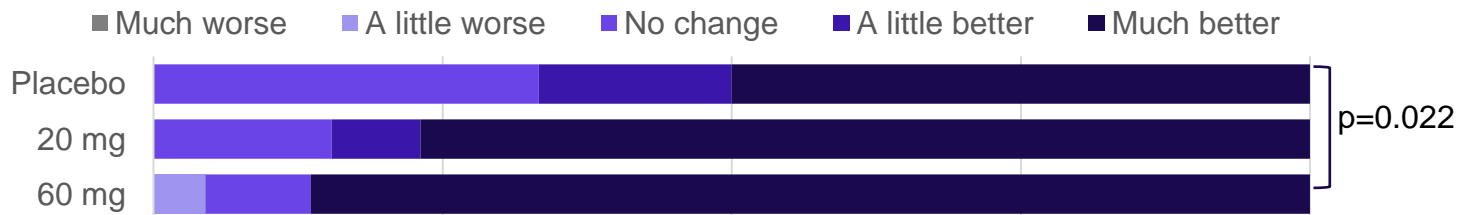
- Consistent with profile for PPIX reductions reaching a nadir, time course of phototoxic reactions showed greater bitopertin treatment effect during the last 60 days of study



Updated AURORA Data: Patient-Reported Outcomes

- ⊙ Dose-dependent improvements in Patient Global Impression of Change (PGIC), reaching statistical significance in the 60 mg dose group at end of study
- ⊙ Improved PGIC responses are associated with greater reductions in PPIX

PGIC: “Since the start of the study, how would you rate the change in your EPP?”



% PPIX Change	PGIC Response				
	Much worse	A little worse	No change	A little better	Much better
N	0	1	14	6	48
Mean (SD)	-	43.8	6.7 (64.9)	-0.4 (15.2)	-25.9 (31.7)

Updated AURORA Data: PPIX Change and Light Tolerance

- Greater PPIX reductions in bitopertin participants reporting no phototoxic reactions (-36.5%) vs phototoxic reactions (-4.0%)
- PPIX reductions associated with improvements in multiple measures of light tolerance

Tertiles of PPIX Change



Light Tolerance Measure (Mean ± SD)	Tertile 1 (-88% to -38%)	Tertile 2 (-38% to -7%)	Tertile 3 (-7% to 190%)
Cumulative total time in sunlight without pain (hr)	161.1 ± 142.6	124.5 ± 68.3	117.5 ± 83.2
Average time in sunlight without pain (hr)	1.61 ± 1.32	1.20 ± 0.72	1.16 ± 0.83
Change from baseline in time to prodrome (min)	117.4 ± 148.6	109.4 ± 121.1	64.1 ± 123.8

Safety and Tolerability

- No serious adverse events reported with bitopertin
- Stable hemoglobin levels
- Favorable safety profile consistent with prior studies enrolling >4000 participants

	Placebo (n=24)	Bitopertin 20 mg (n=26)	Bitopertin 60 mg (n=25)
Participants with any TEAE, n (%)	18 (75%)	20 (77%)	22 (88%)
TEAEs leading to discontinuation, n (%)	0	0	2 (8%)
SAEs, n (%)	1 (4%)	0	0
Common TEAEs			
Dizziness, n (%)	4 (17%)	4 (15%)	11 (44%)
Median Duration (days)	2.0	4.5	5.0
Nausea, n (%)	2 (8%)	1 (4%)	4 (16%)
Alanine aminotransferase increased, n (%)	3 (13%)	1 (4%)	2 (8%)

Summary of EPP Bitopertin Data

BEACON and AURORA Studies

AURORA

- Significant reductions in PPIX
40% vs placebo
- Time-dependent, 2x improvements
in pain-free time in sunlight
- Significant 75% reduction in rate
of phototoxic reactions vs placebo
- Significant improvement in PGIC
vs placebo

◆-----◆
**Targets underlying
pathophysiology of EPP**
-----◆

◆-----◆
**Significant improvement
in sunlight tolerance**
-----◆

◆-----◆
**Functional benefit by reducing
debilitating phototoxic reactions**
-----◆

◆-----◆
**Significantly improved
how patients feel**
-----◆

BEACON

- Significant reductions in PPIX
>40% vs baseline
- Significant 3x increase in sunlight
tolerance (time to prodrome)
- 92% reduction in number of
phototoxic reactions vs baseline
- Nearly all (95%) participants reported
improvements in PGIC

Summary of Updated Bitopertin Data

Bitopertin demonstrated meaningful impact on key aspects of EPP



➤ Next Steps

- End of Phase 2 meeting in second half of 2024; initiation of a pivotal study in 1H 2025
- Range of available endpoints to bring to regulators that address the placebo effect
 - *Options include:* longitudinal analysis of time in sunlight, phototoxic pain reactions, PPIX, composites of multiple endpoints, and others

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Closing Remarks

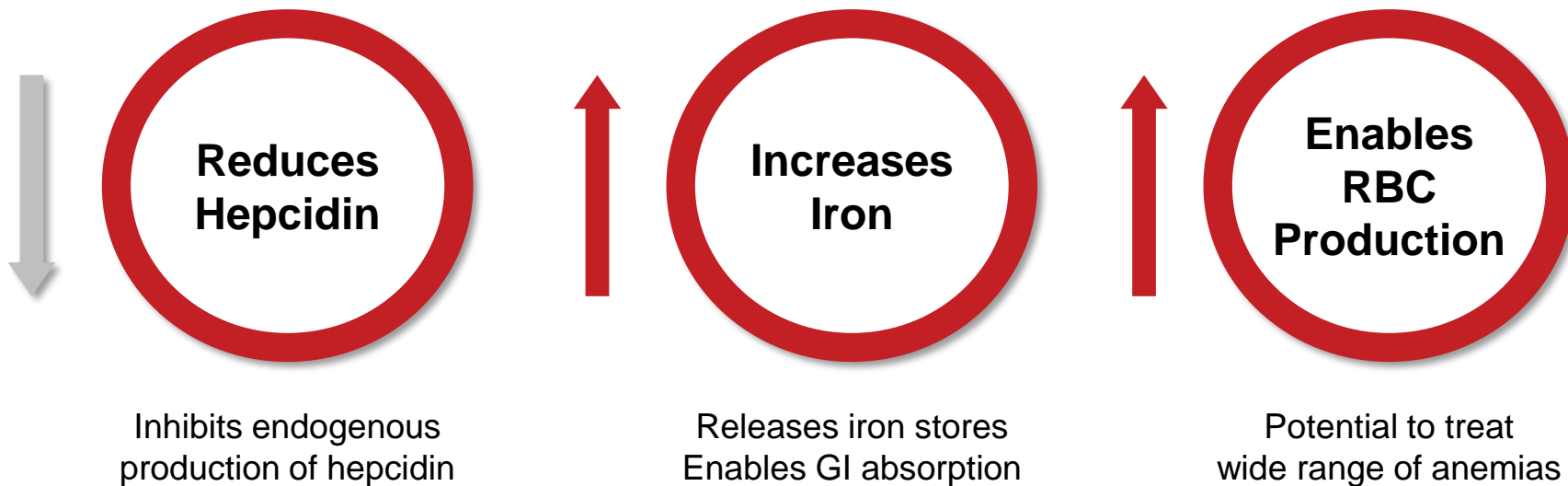
John Quisel, JD, PhD, Chief Executive Officer

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Q&A Session

DISC-0974: Novel Anti-HJV mAb to Suppress Hepcidin

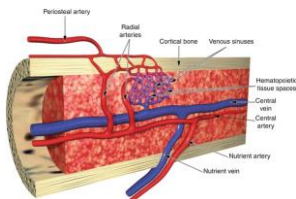
Designed to enhance iron availability to address a wide range of hematologic disorders



Hepcidin is a Key Driver of Myelofibrosis (MF) Anemia

Anemia is severe and prevalent in MF and can limit treatment

Anemia of MF



> Est. # Patients

- 25,000 patients (US)
- ~87% are anemic; severe and require transfusion

> Etiology of Anemia

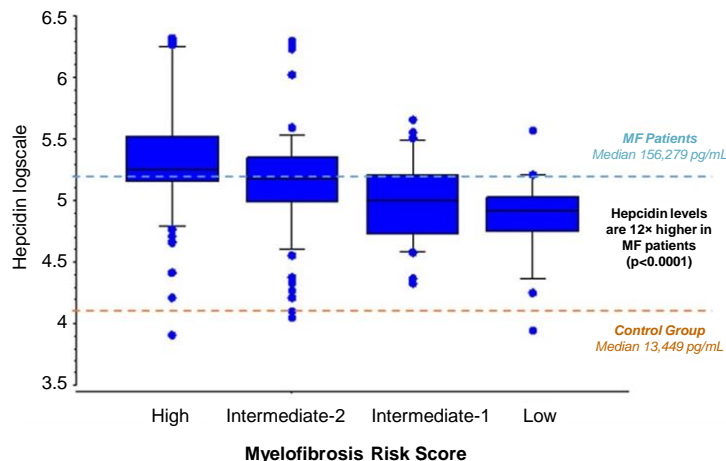
- High hepcidin from inflammation
- JAK inhibitors worsen anemia; loss of marrow function

> Unmet Medical Needs

- Severe and difficult to treat; high transfusion burden
- No approved or effective anemia therapy
- Anemia limits optimal JAK inhibitor treatment

Hepcidin Levels are Elevated in MF

~ 12× higher than control and associated with severity of anemia and transfusion burden



Updated DISC-0974 MF Data: Baseline and Demographics

Data as of April 29, 2024

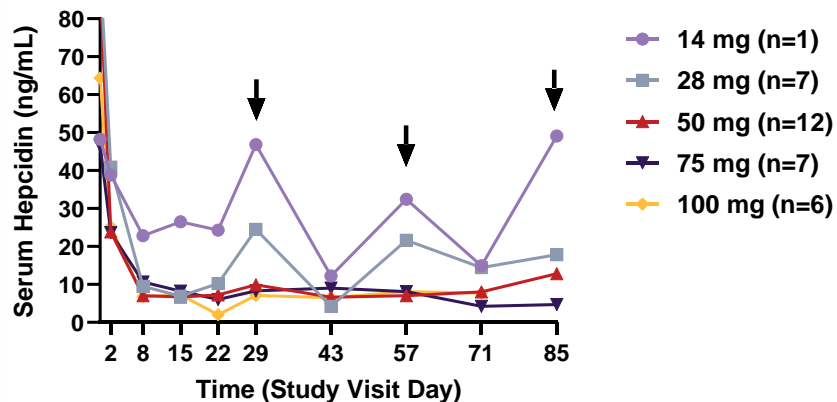
	DISC-0974 14 mg (N=1)	DISC-0974 28 mg (N=7)	DISC-0974 50 mg (N=12)	DISC-0974 75 mg (N=8)	DISC-0974 100 mg (N=6)
Age, median (range), years	70	71 (57, 89)	70.5 (31, 83)	74 (58, 84)	67.5 (53, 79)
Time since MF diagnosis, median (range), years	1	6 (0,18)	2.5 (0,14)	4 (0, 12)	1 (0,2)
Concomitant medication, n (%)					
JAK inhibitor	0	4 (57.1)	5 (41.7)	1 (12.5)	0
Hydroxyurea	1 (100)	0	0	1 (12.5)	0
Transfusion dependent, n (%)*	0	2 (28.6)	1 (8.3)	0	1 (16.7)
Baseline hepcidin, median (range), ng/mL	48.2	93.3 (21.4, 171.1)	90.2 (8.7, 155.7)	46.6 (23.7, 188.2)	64.4 (11.5, 374.7)
Baseline hemoglobin, median (range), g/dL	8.2	8.4 (6.8, 9.3)	8.6 (6.1, 10.3)	8.9 (6.7, 9.9)	8.2 (5.5, 9.4)

Defined as an RBC transfusion frequency of ≥6 units PRBC over the 84 days immediately prior to Screening. There must not be any consecutive 42-day period without an RBC transfusion in the 84-day period, and the last transfusion must be within 28 days prior to Screening. One participant treated with 28 mg discontinued DISC-0974 early due to physician decision. JAK = Janus kinase. Baseline is defined as: (1) Participants transfused within 84 days of screening; (1.a) transfusion dependent then use lowest hemoglobin level recorded in the 84 days before screening initiation (one reading). (1.b) Non-transfusion dependent then {1.b.i} participants transfused within 30 days before screening use the lowest pre-transfusion hemoglobin level (one reading). {1.b.ii} participants transfused within 84 days but not within the month before screening use average of the pre-transfusion hemoglobin level, screening hemoglobin level, and Day -1 level (3 readings); (2) Participants not transfused within 84 days of Screening use Screening and Day -1 average

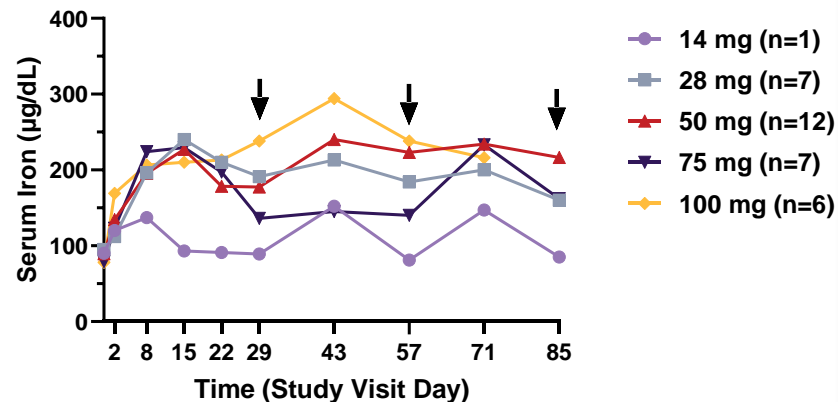
Updated DISC-0974 Anemia of MF Data: Hepcidin and Iron

- DISC-0974 demonstrated decreases in hepcidin and increases in serum iron
- Impact was consistent across all treated participants

Median Serum Hepcidin



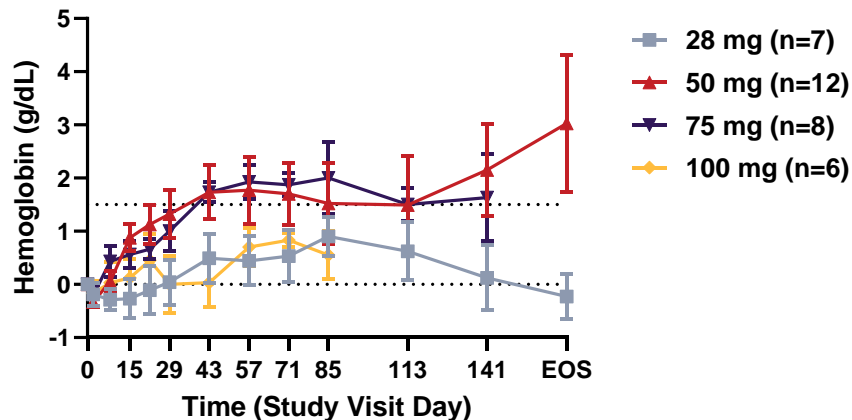
Median Serum Iron



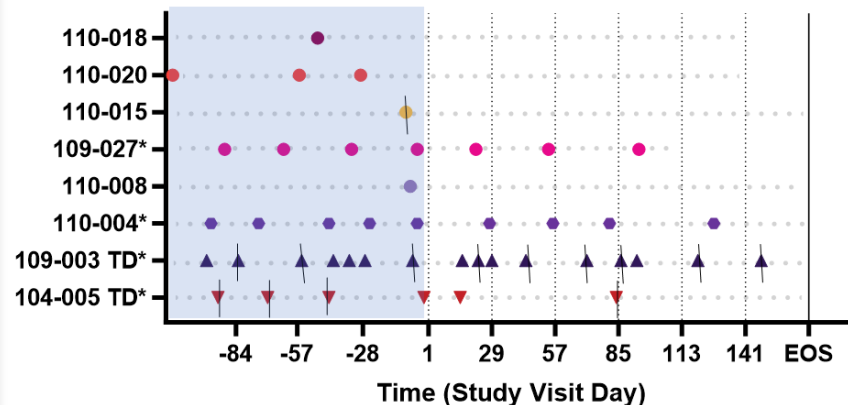
Updated DISC-0974 Anemia of MF Data: Hematologic Response

- DISC-0974 demonstrated sustained increases in hemoglobin across dose groups
- All evaluable participants with baseline transfusion requirement had at least a 50% reduction in transfusions over a rolling 8-week window on study compared to baseline

Hemoglobin Increase from Baseline in All Patients



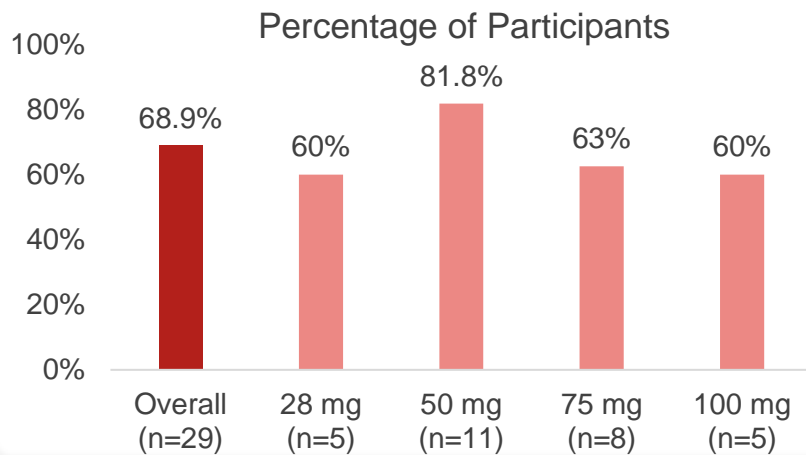
Transfusion Frequency Over Time¹



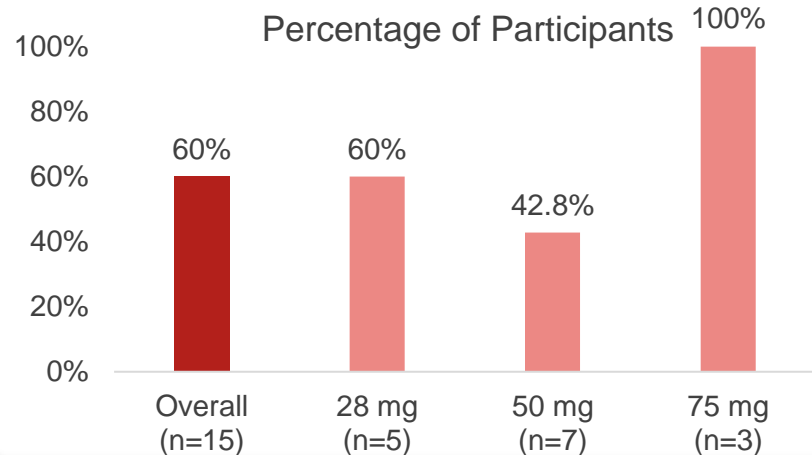
Updated DISC-0974 Anemia of MF Data: Hemoglobin Response in NTD Participants

- ⊗ Hemoglobin responses of ≥ 1.5 g/dL increase were achieved in 68.9% of NTD participants
- ⊗ For participants who have completed at least 16 weeks of the study, 60% of NTD had a mean hemoglobin response of 1.5 g/dL above baseline sustained for at least 12-weeks

NTD Participants with Hgb $\Delta \geq 1.5$ g/dL



NTD Participants with Hgb $\Delta \geq 1.5$ g/dL for ≥ 12 Weeks¹



Updated DISC-0974 Anemia of MF Data: Safety

⊗ Generally well tolerated at all evaluated dose levels

Adverse events at least possibly related to DISC-0974	14 mg (N=1)	28 mg (N=7)	50 mg (N=12)	75 mg (N=8)	100 mg (N=6)
Participants with event (n)	0	3	5	1	1
Diarrhea	0	1	2	1	0
Injection site bruising	0	1*	0	0	0
Pyrexia	0	1*	0	0	0
Blood bilirubin increased	0	0	0	0	1
Platelet count decreased	0	0	1*	0	0
Anemia	0	0	1*	0	0
Urinary tract infection	0	1*	0	0	0
Headache	0	0	1	0	0
Hot flush	0	0	1	0	0

AE = adverse event; JAKi = Janus kinase inhibitor

Grade 3 AEs include headache reported in 1 participant treated at 28 mg (unlikely related to DISC-0974) and Grade 3 anemia reported in 2 participants treated at 28 mg and 4 participants treated at 50 mg (one at 50 mg was deemed related to DISC-0974; all others were deemed not related). Serious AE: Grade 2 arthralgia was reported in 1 participant treated at 28 mg (not related to DISC-0974). There were no ≥ Grade 4 AEs reported. Liver iron concentration was obtained at baseline and end of study; for available participants (n=10), median change from baseline was 0.3 mg/g dry weight, range (-0.5 to 16.2). * indicates AE in a participant receiving concomitant JAKi therapy.

Summary of Updated DISC-0974 MF Data

**Decreased
hepcidin &
increased
iron**

68.9%
of NTD pts had
Hgb response
 $\geq 1.5\text{g/dL}$

60%
of NTD pts had
Hgb response
sustained for
 ≥ 12 weeks*

100%
of pts with
baseline
transfusions had
 $\geq 50\%$
reduction

1 of 2
TD pts
reached TI

**Generally
well
tolerated**

Summary of DISC-0974 in MF Anemia

DISC-0974 demonstrated improved hemoglobin response and transfusion burden in MF



➤ Next Steps

- End of Phase 1b meeting with regulators in H2 2024
- Initiation of Phase 2 study by the end of 2024

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Q&A Session

Anti-TMPRSS6 mAb Induces Hepcidin

Designed to limit iron levels with potential to address a wide range of hematologic disorders



DISC-3405 Development Plans

Phase 1 in healthy volunteers ongoing; aim to advance program into POC studies with focus on polycythemia vera

Phase 1 SAD/MAD in HV
Initiated October 2023

Demonstrate proof-of-mechanism
(hepcidin, iron, hematologic parameters)

**Phase 2 Proof-of-Concept Study
in Polycythemia Vera**

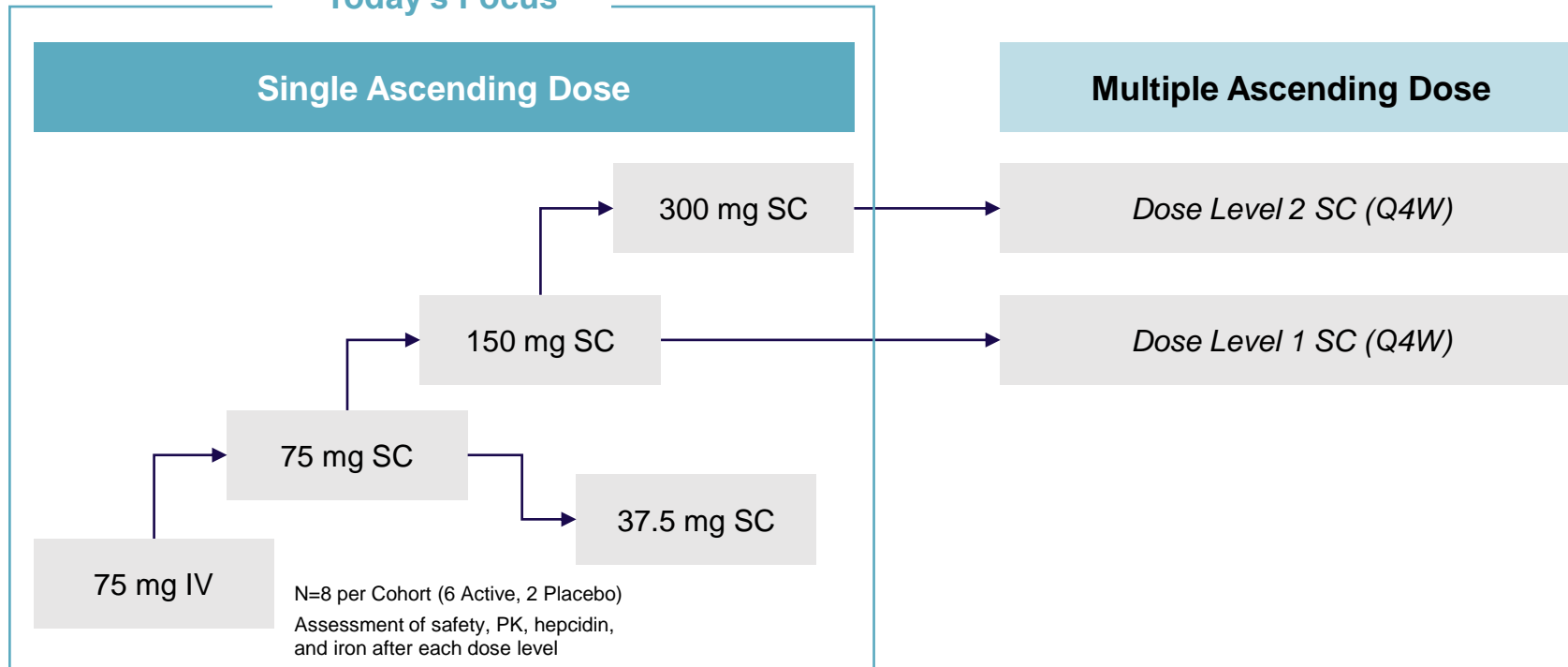
- Strong proof of therapeutic hypothesis; clarity on regulatory development path
- Assess safety, PK, hepcidin, iron, hematologic parameters; % Hct and requirement for phlebotomy

Additional POC Studies in a Range of Indications

- Hereditary Hemochromatosis
- Beta-Thalassemia
- Myelodysplastic Syndromes

DISC-3405 Phase 1 Healthy Volunteers Study Overview

Today's Focus



Key Endpoints/Measures: Iron, hepcidin, and other hematologic parameters, safety/tolerability

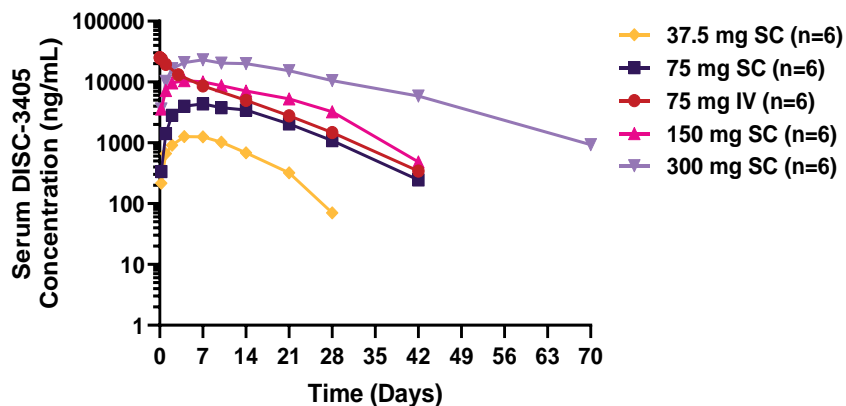
DISC-3405 Phase 1 Healthy Volunteer SAD: Baseline and Demographics

Characteristic	Placebo n = 10	37.5 mg SC n = 6	75 mg IV n = 6	75 mg SC n = 6	150 mg SC n = 6	300 mg SC n = 6
Age, years	48.6 (39-62)	52.7 (42-64)	36.8 (23, 49)	57.3 (49, 61)	44.0 (25, 57)	34.0 (22, 38)
Gender, Female, n (%)	2 (20)	5 (83.3)	3 (50.0)	4 (66.7)	2 (33.3)	0 (0)
Hepcidin, ng/mL	14.1 (5.2, 28.8)	41.7 (6.1, 177.2)	19.4 (2.0, 36.6)	32.6 (7.2, 69.8)	15.2 (8.7, 20.2)	18.7 (8.6, 45.0)
Serum Iron, ug/dL	97.2 (50, 180)	88.7 (43, 127)	99.2 (74, 127)	95.7 (67, 137)	85.7 (43, 138)	106.2 (54, 135)
Hemoglobin, g/dL	14.9 (13.1, 16.0)	13.2 (10.7, 17.7)	13.8 (12.1, 15.6)	13.8 (12.7, 16.0)	14.2 (13.0, 14.9)	15.4 (14.4, 16.7)
Hematocrit, %	43.6 (38.9, 47.1)	39.7 (34.3, 50.2)	41.5 (37.1, 45.5)	41.0 (38.7, 45.0)	42.3 (39.4, 46.2)	45.2 (42.3, 48.2)
RBC, 10 ¹² /L	4.9 (4.2, 5.8)	4.5 (3.9, 5.7)	4.6 (3.8, 5.2)	4.5 (4.2, 5.0)	4.7 (3.9, 5.1)	5.1 (4.8, 5.8)

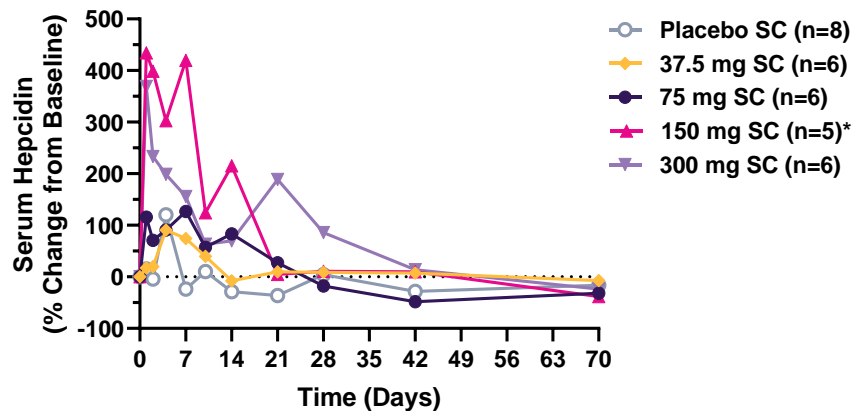
Initial DISC-3405 HV Data: PK and Hepcidin

- ⊗ Dose-dependent PK profiles
- ⊗ DISC-3405 demonstrated dose-related hepcidin increases

Pharmacokinetics



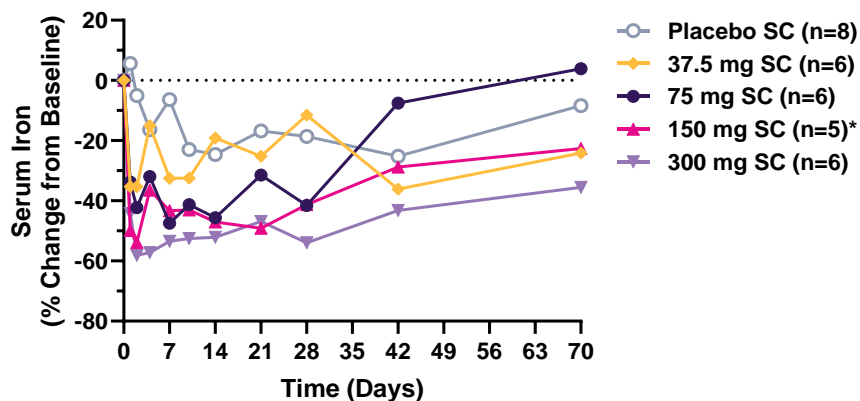
Mean Change from Baseline in Serum Hepcidin



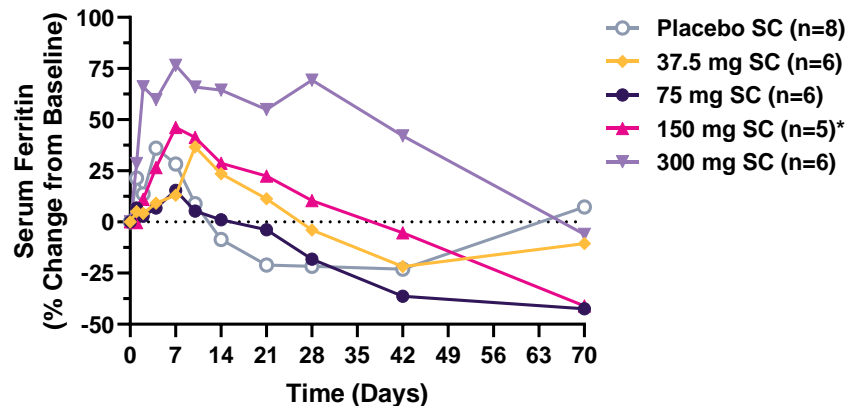
Initial DISC-3405 HV Data: Iron Parameters

- Mean serum iron reduction of more than 50% from baseline was achieved for both 150- and 300-mg doses
- Serum iron reductions were sustained for at least 4 weeks, supportive of monthly SC dosing

Mean Change from Baseline in Serum Iron

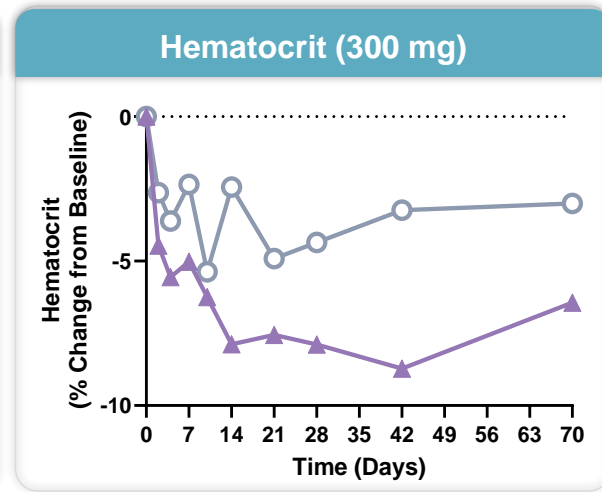
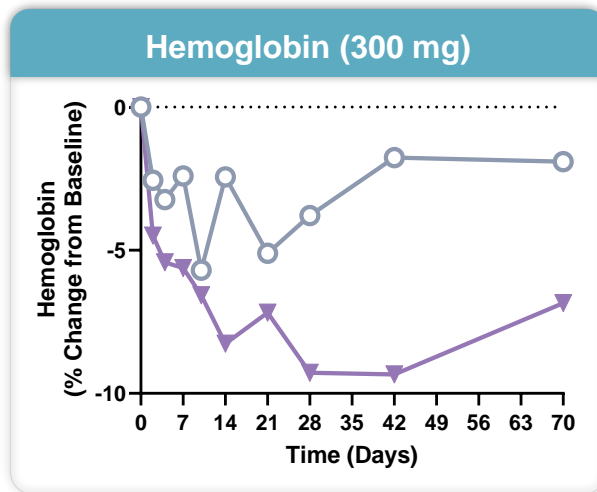
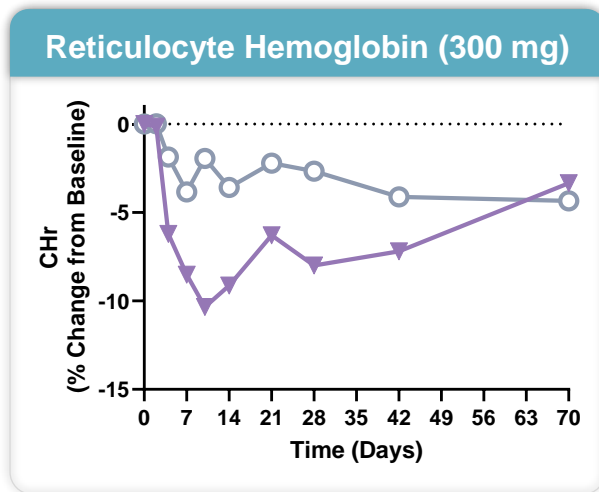


Mean Change from Baseline in Serum Ferritin



Initial DISC-3405 HV Data: Hematologic Response

- A single 300-mg dose of DISC-3405 demonstrated meaningful reductions in hematologic parameters (reticulocyte hemoglobin, hemoglobin, and hematocrit)



➤ 300 mg SC (n=6) ○ Placebo SC (n=8)

Initial DISC-3405 HV Data: Safety

- Generally well tolerated at all evaluated dose levels; no serious AEs, > Grade 2 AEs, or AEs leading to study withdrawal were reported

Adverse Event	Placebo n = 10	37.5 mg SC n = 6	75 mg IV n = 6	75 mg SC n = 6	150 mg SC n = 6	300 mg SC n = 6
Sore Throat	0	0	1	0	0	0
Nausea	0	1	0	1	0	0
Headache	1	1*	0	0	0	0
Cough	0	0	0	0	1	0
Rhinorrhea	0	0	0	0	1	0
Lightheadedness	0	0	0	1	0	0
Increased ALT	0	0	0	0	1*	0
Increased AST	0	0	0	0	1*	0

Summary of Phase 1 Healthy Volunteer SAD Data

- Single-dose SC administration of DISC-3405 demonstrated dose-dependent increases in hepcidin and corresponding reductions in serum iron levels across all dose levels
- >50% reductions in mean serum iron were observed in patients that received 150 mg and 300 mg doses
- PK/PD profile is supportive of monthly subcutaneous dosing in polycythemia vera and iron overload conditions
- DISC-3405 was well tolerated
- **Next Steps:** Phase 1 multiple-ascending dose (MAD) data expected by EOY; initiation of a Phase 2 study in PV expected in 1H 2025

Agenda

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Introduction and Data Summary

John Quisel, JD, PhD, Chief Executive Officer

02

Bitopertin in EPP

- Updated AURORA Data

Will Savage, MD, PhD, Chief Medical Officer

03

DISC-0974

- Updated Data in Anemia of Myelofibrosis

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DISC-3405

- Healthy Volunteer SAD Data

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Closing Remarks

John Quisel, JD, PhD, Chief Executive Officer

06

Q&A Session

Summary of EHA Data

Bitopertin

Heme Synthesis Modulator

- Meaningful improvements on key aspects of EPP consistent across studies
 - Significant reduction in PPIX
 - 2x improvement in light tolerance
 - Significant reduction in phototoxic reactions and improvement in QoL
- Range of viable endpoints that could be brought to regulators

DISC-0974

Hepcidin Suppression

- Decreased hepcidin and increased iron sustained for several weeks
- Durably increased hemoglobin
- Reduced transfusion burden
- Generally well tolerated




DISC-3405

Hepcidin Induction

- Increased hepcidin and reduced serum iron across all dose levels
- Serum iron reduction of more than 50% from baseline at top doses
- Supportive of SC monthly dosing
- Generally well tolerated

Projected Upcoming Milestones and Events

Multiple additional data catalysts anticipated through the rest of the year

Program	Indication	H1 2024	H2 2024	2025
 <p>Bitopertin Heme Synthesis Modulator</p>	Erythropoietic Porphyrias (EPP and XLP)	<ul style="list-style-type: none"> Phase 2 AURORA Data (March-April) 	<ul style="list-style-type: none"> End of Ph 2 Meeting / Other Regulatory Interaction 	<ul style="list-style-type: none"> Phase 3 Initiation Pending Regulatory Feedback
	Diamond-Blackfan Anemia (DBA)		<ul style="list-style-type: none"> Initial Phase 2 Data 	
 <p>DISC-0974 Hepcidin Suppression</p>	Anemia of Myelofibrosis (MF)	<ul style="list-style-type: none"> Updated Phase 1b Data 	<ul style="list-style-type: none"> Final Phase 1b Data Initiate Phase 2 Study 	<ul style="list-style-type: none"> Phase 2 Topline Data
	Anemia of Chronic Kidney Disease (CKD)		<ul style="list-style-type: none"> Phase 1b Data (hemoglobin) 	<ul style="list-style-type: none"> Phase 2a Topline Data
 <p>DISC-3405 Hepcidin Induction</p>	Polycythemia Vera and Diseases of Iron Overload/ Ineffective Erythropoiesis	<ul style="list-style-type: none"> Phase 1 SAD Data 	<ul style="list-style-type: none"> Phase 1 SAD/MAD Data 	<ul style="list-style-type: none"> Phase 2 in PV Initiation

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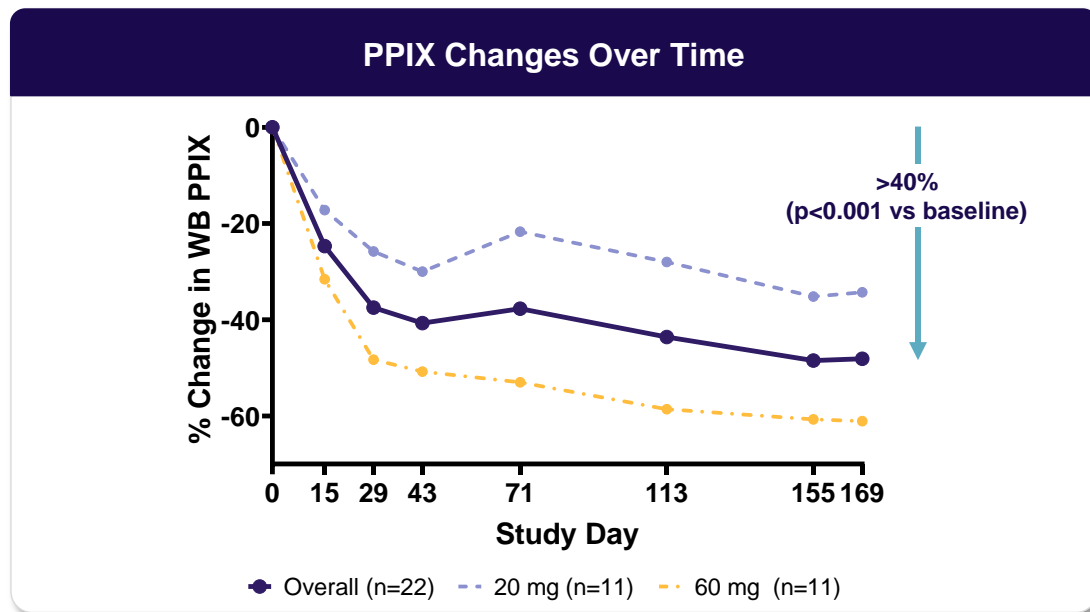


Q&A



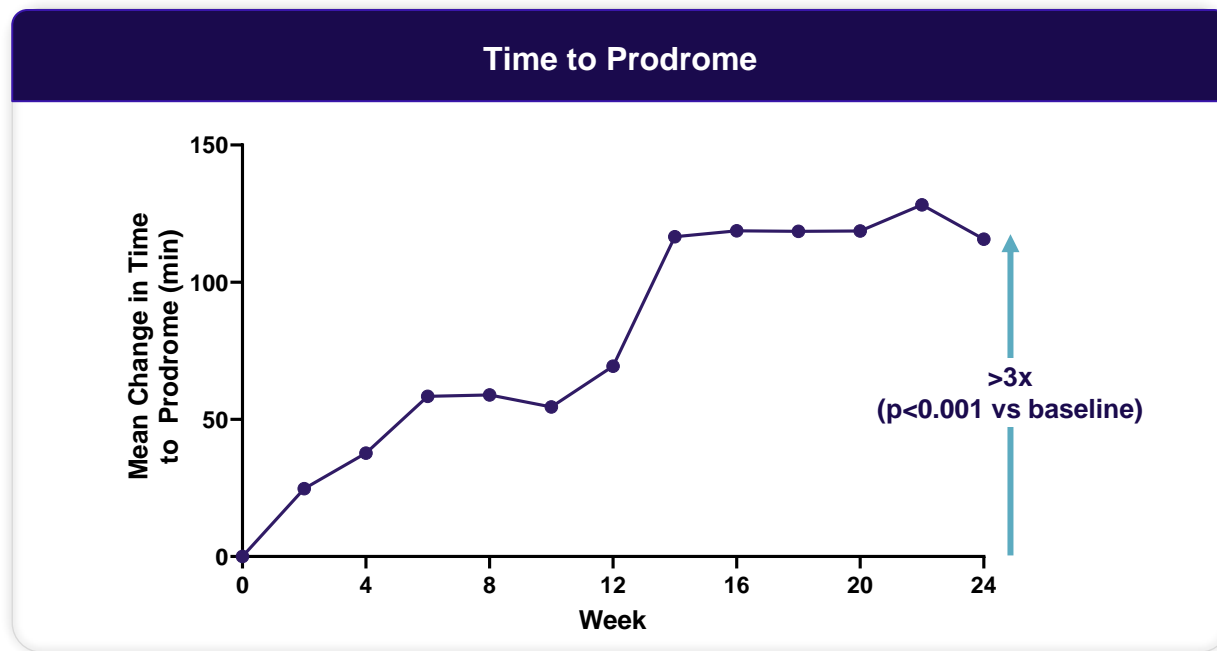
Updated BEACON Data: % Change in Whole-Blood PPIX

- ⊗ Bitopertin significantly reduced WB metal-free PPIX levels by >40%
- ⊗ Dose-dependent reductions were observed across broad range of baseline whole-blood PPIX levels (140-3075 µg/dL)



Updated BEACON Data: Time to Prodrome

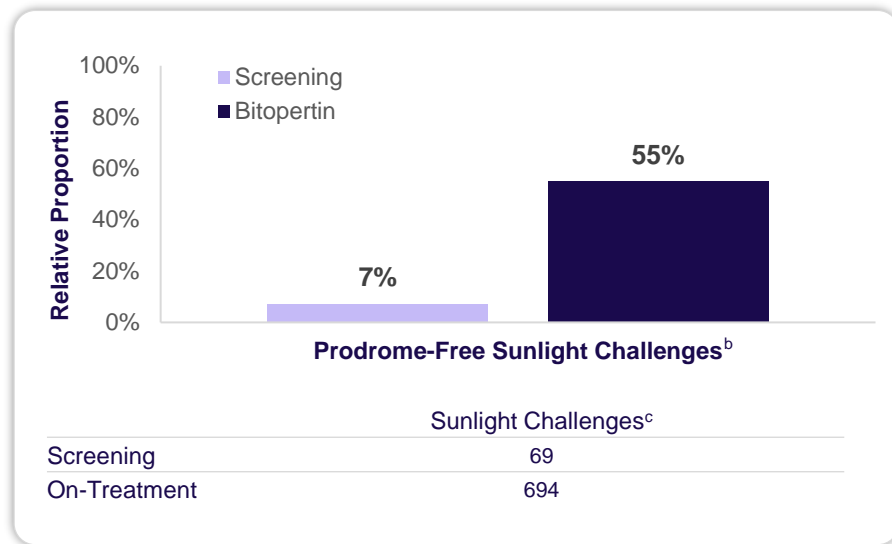
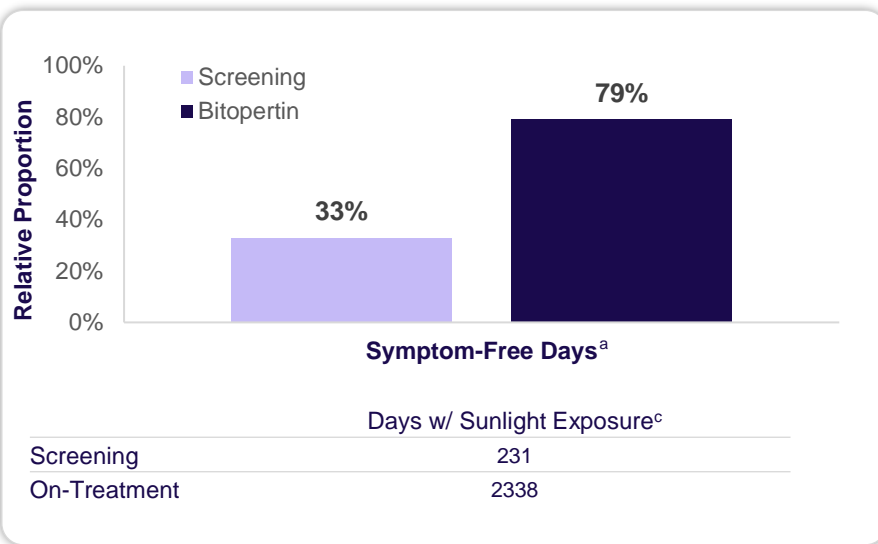
- Significant, time-dependent improvements in light tolerance during weekly sun exposure challenges



Updated BEACON Data: Light Tolerance

Days without Symptoms or Prodromes

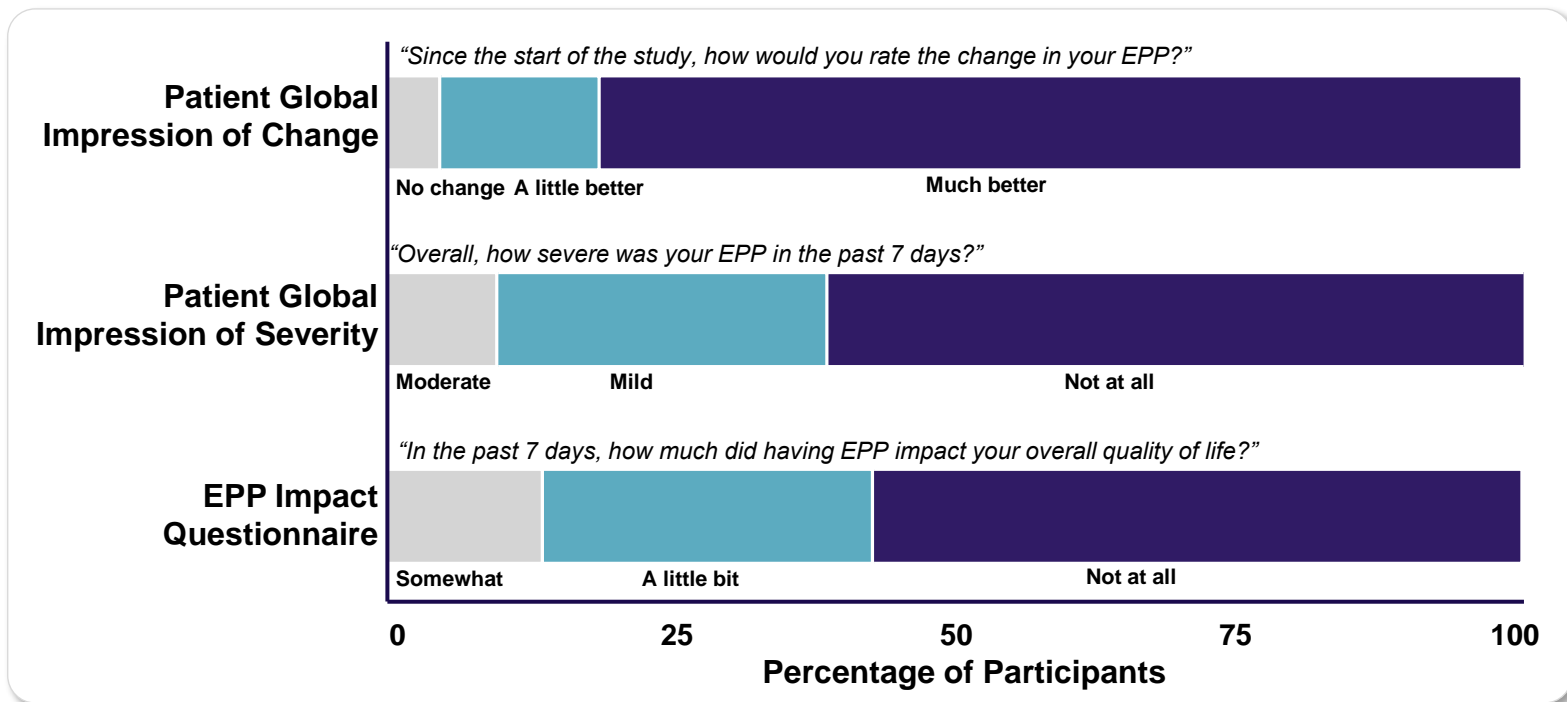
- 92% reduction in patient-reported full phototoxic reactions^a
- An increase in the proportion of total symptom-free days (no prodrome/early warning symptoms or full phototoxic reactions) with sunlight exposure was observed



^a As assessed with a daily diary; ^b As assessed with a weekly sunlight challenge; ^c Summed across all participants. Percentages calculated relative to total number of days with sunlight exposure (left) or total number of weekly sunlight exposure challenges (right) from all study participants (n=22) during screening or while receiving bitopertin (20 mg and 60 mg dose groups combined).

Updated BEACON Data: Measures of Quality of Life

- Nearly all participants reported improvements in multiple quality-of-life measures at end of study

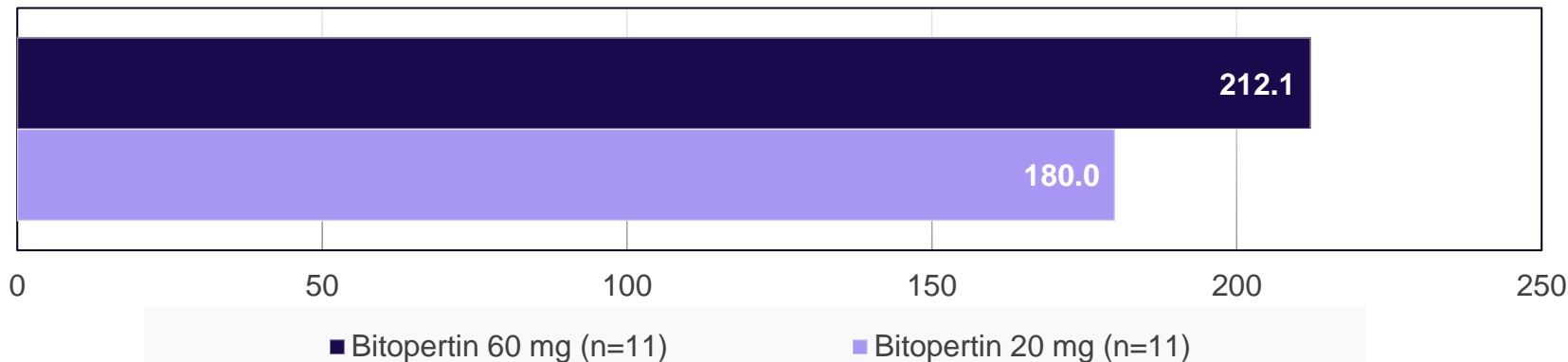


Updated BEACON Data: Precedented Pivotal Endpoint

Cumulative Time in Light on Days without Pain

- ⊗ Cumulative total time in light observed over 6-month treatment period with bitopertin represents >3x increase relative to historical control
- ⊗ Improvements in average daily light tolerance with bitopertin increased with time

Mean Cumulative 6-month Total Time in Light Without Pain (hr)



Updated BEACON Data: Safety and Tolerability

- No serious adverse events
- Stable mean Hgb levels; no anemia AEs reported
- Favorable safety profile consistent with prior studies enrolling >4000 participants

	Bitopertin 20 mg (n=11)	Bitopertin 60 mg (n=11)	Total (n=22)
Participants with any TEAE	9 (82%)	11 (100%)	20 (91%)
TEAEs leading to discontinuation	1 (9%) ^a	0	1 (5%)
TEAEs reported in >2 participants			
Dizziness	6 (55%)	7 (64%)	13 (59%)
Headache	3 (27%)	1 (9%)	4 (18%)
Nausea	1 (9%)	2 (18%)	3 (14%)