



Fourth Quarter and Full Year 2023 Financial and Business Update

February 28, 2024

NASDAQ: AVIR

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Market data and industry information used throughout this presentation are based on management’s knowledge of the industry and the good faith estimates of management. We also relied, to the extent available, upon management’s review of independent industry surveys and publications and other publicly available information prepared by a number of third-party sources. All of the market data and industry information used in this presentation involves a number of assumptions and limitations, and you are cautioned not to give undue weight to such estimates. Although we believe that these sources are reliable, we cannot guarantee the accuracy or completeness of this information, and we have not independently verified this information. While we believe the estimated market position, market opportunity and market size information included in this presentation are generally reliable, such information, which is derived in part from management’s estimates and beliefs, is inherently uncertain and imprecise. No representations or warranties are made by the Company or any of its affiliates as to the accuracy of any such statements or projections. Projections, assumptions and estimates of our future performance and the future performance of the industry in which we operate are necessarily subject to a high degree of uncertainty and risk due to a variety of factors, including those described above. These and other factors could cause results to differ materially from those expressed in our estimates and beliefs and in the estimates prepared by independent parties.

Strong Operational Execution in 2023 Leads to Anticipated Key Clinical Milestones in 2024

COVID-19: 2023 Achievements Global Phase 3 SUNRISE-3 Program






- ✓ Achieved substantial enrollment progress
- ✓ Granted Fast Track Designation from FDA
- ✓ Expanded global footprint to target of ~300 clinical sites
- ✓ Broadened eligibility criteria of high-risk patients and increased sample size to address lower hospitalization and death rates
- ✓ *In vitro* studies confirmed bempifosbuvir remains fully active against newest Omicron subvariants
- ✓ Presented and published preclinical and clinical data supporting program

HCV: 2023 Achievements Global Phase 2 Program

- ✓ Regulatory approvals of short 8-week treatment of global Phase 2 combination trial of bempifosbuvir + ruzasvir
- ✓ Completed enrollment of lead-in cohort of 60 patients
- ✓ Demonstrated potent *in vitro* synergy and compelling profile against major HCV resistant mutations
- ✓ Advanced fixed dose combination tablet program for Phase 3 program
- ✓ Presented and published preclinical and clinical data supporting program

Focused Antiviral Pipeline, Fully Funded Through Key Inflection Points

Key Clinical Data Expected in 2024: Phase 3 SUNRISE-3 Results and Final Phase 2 HCV Results

PROGRAM	THERAPEUTIC INDICATION		PRECLINICAL	PHASE 1	PHASE 2	PHASE 3	MAJOR MILESTONES 2024
 Sunrise-3	COVID-19	Bemnifosbuvir (AT-527) Nucleotide*					New : >1,400 patients enrolled <ul style="list-style-type: none"> 1st interim analysis (DSMB) March'24 2nd interim analysis (DSMB) Q2'24 Topline results 2H'24 NDA submission target YE'24
		Protease Inhibitor					Protease inhibitor <ul style="list-style-type: none"> Program update Mid'24
Bemnifosbuvir + Ruzasvir Combination Program	Hepatitis C	Bemnifosbuvir Nucleotide¹					New data: lead-in cohort <ul style="list-style-type: none"> Lead-in cohort SVR4 final results Final Phase 2 SVR12 results 2H'24 Phase 3 initiation target 2H'24
		Ruzasvir** NS5A Inhibitor¹					

Cash, cash equivalents & marketable securities: \$578.1M at 12/31/23 -- Cash runway anticipated through 2026

*Bemnifosbuvir (generic name for AT-527) is a double prodrug nucleotide analog. ** Worldwide exclusive license for all uses from Merck.

1. Bemnifosbuvir and ruzasvir have each separately generated clinical results and are being developed as a combination for HCV.





HEPATITIS C

Program Update: Potential Best-in-Class Pan-Genotypic Regimen

- Phase 2 Open Label Study of Bepirovir + Ruzasvir
- Final SVR4 Results From Lead-in Cohort

HCV

Continues to be a health crisis in US

Recognized ongoing unmet needs by US healthcare providers

UNMET MEDICAL NEED in US:

~ **2.4M** estimated to have HCV

New and reinfection rates exceed cures

Best-in-Class Target Profile - Bemnifosbuvir + Ruzasvir

- Potential short 8-week treatment with lower daily pill burden
- Potential for fewer side effects, low risk for drug-drug interactions and no food effect
- Protease inhibitor-free treatment

Global Market Opportunity:

>\$3B
net sales in
2023

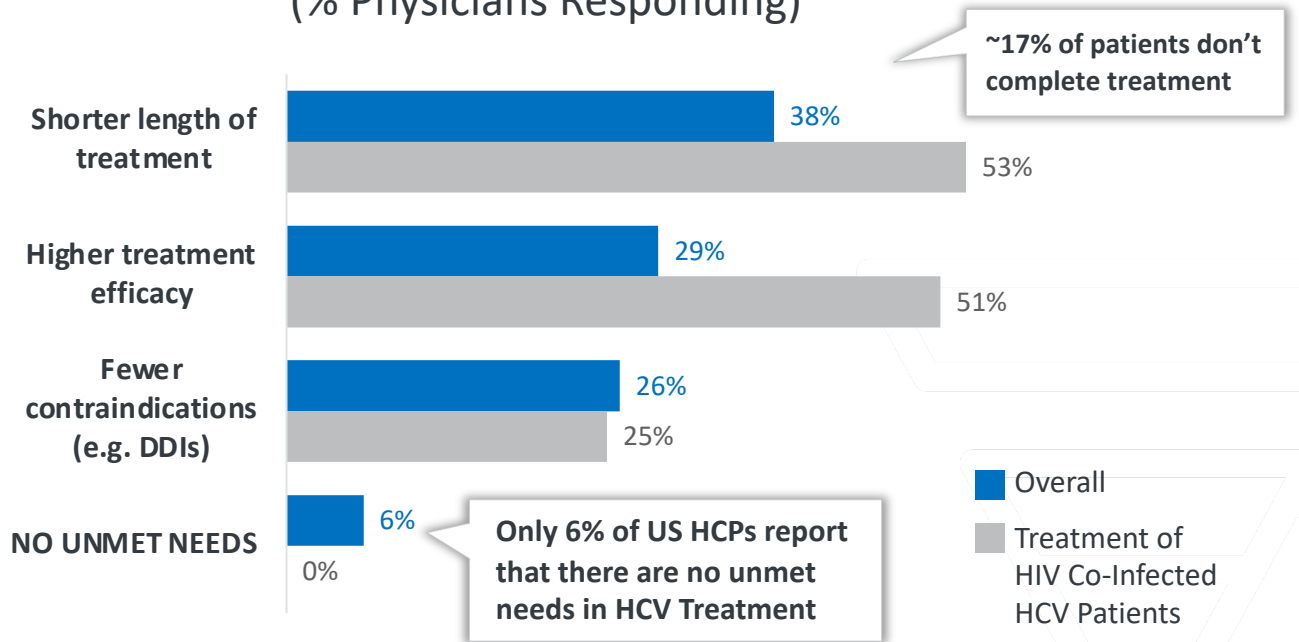
Primarily
2
product
market

No
competitors
in clinical
development

Market Research Shows Substantial Unmet Needs in HCV Treatments

Only 6% of US Healthcare Providers Satisfied with Current Treatments

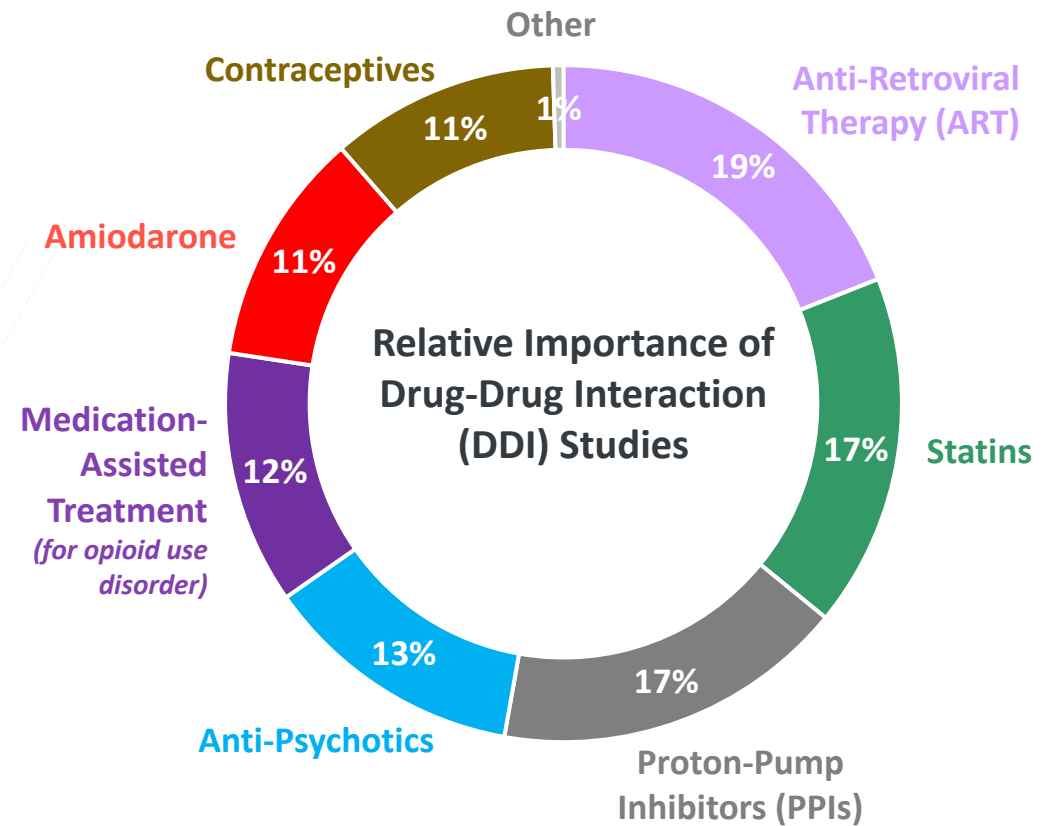
HCV TREATMENT UNMET NEEDS (% Physicians Responding)



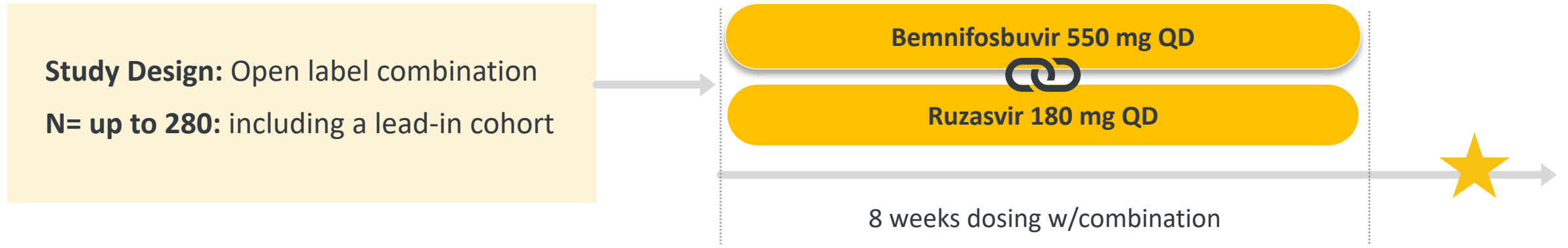
N = 157 US Healthcare Providers (Hepatologists, IDs, Gastros and PCPs)

- Treated at least 25 HCV patients in previous 12 months
- Initiated 15+ HCV Patients on DAA Treatment in the previous 12 months
- Prescribed Epclusa or Mavyret to at least 50% of their eligible patients in the previous 12 months

Drug-Drug Interactions are an Important Issue Across Physician Specialties



Phase 2 Open Label Study of Bemnifosbuvir + Ruzasvir in HCV Patients



Patient Population:

- HCV-infected patients, including compensated cirrhosis
- Direct-acting antiviral naïve
- All genotypes

60 Patient Lead-in Cohort:

- Safety and tolerability
- Sustained virologic response (SVR) at Week 4 post-treatment (SVR4)

Primary Endpoints:

- SVR at Week 12 post-treatment (SVR12)
- Safety

Other Endpoints:

- Virologic failure
- SVR at Week 24 post-treatment (SVR24)
- Resistance

Patient Demographics and Baseline Characteristics

Phase 2 Open Label Study of Bemnifosbuvir + Ruzasvir Lead-in Cohort

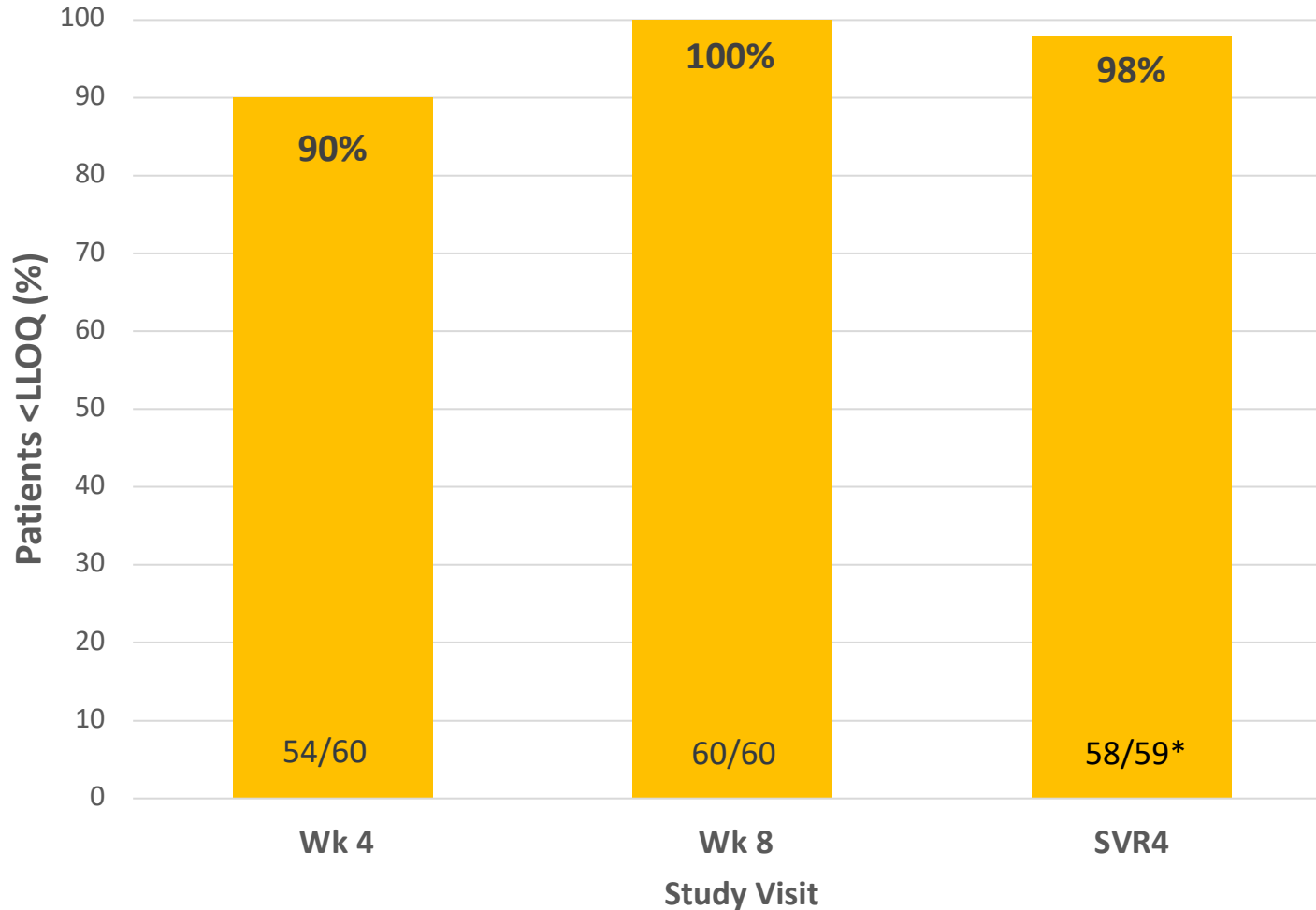
Patient Profile		Total (N=60)
Median age, yrs (range)		47 (25-79)
Median BMI, kg/m ² (range)		26.3 (18.9-47.1)
Male/Female, n (%) / n (%)		34 (56.7) / 26 (43.3)
Race, n (%)	White	57 (95)
	Black	1 (1.7)
	Other	2 (3.3)
DAA-naïve, n (%)		60 (100)
HCV genotype, n (%)	1a	6 (10)
	1b	38 (63.3)
	1*	1 (1.7)
	2	2 (3.3)
	3	13 (21.7)
Fibrosis Stage, n (%)	F0	9 (15)
	F1	26 (43.3)
	F2	15 (25)
	F3	10 (16.7)

- Lead-in cohort comprised of non-cirrhotic patients only
- Compensated cirrhotic patients will be enrolled in second part of Phase 2 study

*unspecified subtype

New Data: Final Results 98% SVR4 Post-Treatment

Phase 2 Open Label Study of Bemnifosbuvir + Ruzasvir Lead-in Cohort



Bemnifosbuvir + ruzasvir with short 8-week treatment

New data: 98% SVR4 final results

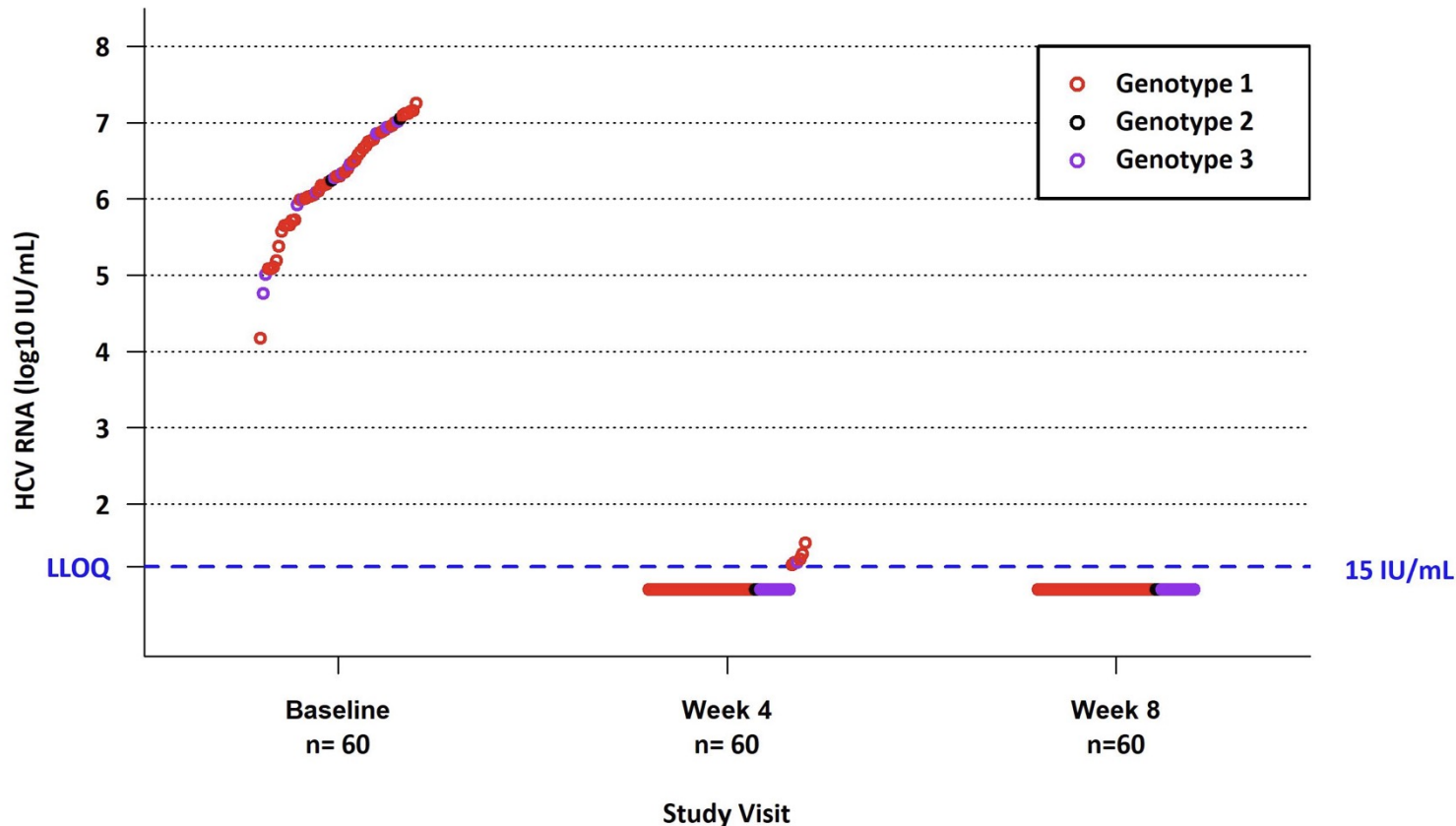
- 1 genotype 2 subject with poor adherence did not achieve SVR4 (lower pill consumption and inadequate PK drug levels)

LLOQ=Lower limit of quantification

*As available data does not include 1 subject who did not attend the SVR4 visit

On-Treatment Viral Kinetics – Individual Patient Data

Phase 2 Open Label Study of Bemnifosbuvir + Ruzasvir Lead-in Cohort



- All patients (n=60) near or below LLOQ by Week 4
- Bemnifosbuvir + ruzasvir kinetics compare favorably to Mavyret¹, the only approved 8-week treatment for HCV
- Very rapid kinetics across genotypes support an 8-week regimen

LLOQ=Lower limit of quantification

1. Sarrazin et.al; Presented at ID Week 2018

Safety Summary

Phase 2 Open Label Study of Bemnifosbuvir + Ruzasvir Lead-in Cohort

- All patients (n=60) completed the 8-week treatment period
- Bemnifosbuvir + ruzasvir was generally safe and well tolerated
- No drug-related serious adverse events or premature treatment discontinuations
- No trends observed in adverse events (mostly mild) and safety laboratory parameters

Global Phase 2 Open Label Trial Update

Bemnifosbuvir + Ruzasvir: Potential Best-in-Class Pan-genotypic Regimen

Re-initiated patient enrollment in January 2024 to complete Phase 2 study (n= up to 280)

Activating ~50 clinical sites in ~15 countries for completion of Phase 2 study

- **Preparing for Phase 3 study**, initiation anticipated 2H'24
- Fixed dose combination tablet clinical selection study ongoing in US

- ✓ **Bemnifosbuvir** is being developed as the most potent nucleotide inhibitor for HCV¹
- ✓ **Ruzasvir**, an NS5A inhibitor, is a highly potent drug candidate²

COVID-19

Bemnifosbuvir Phase 3 Program



- COVID-19 Unmet Medical Need
- 2nd Major Milestone Achieved for Global Phase 3 SUNRISE-3 Trial

COVID-19

Continuing Threat,
Particularly for Those
Vulnerable to Severe Disease

*New, Safe and Well-Tolerated
Oral Therapies Needed*

UNMET MEDICAL NEED:

- Drug-drug interactions
- Safety concerns
- Tolerability issues

Bemnifosbuvir Target Profile:

- Low risk of drug-drug interactions
- Generally safe and well-tolerated
- Distinct mechanism of action with high barrier to resistance

Oral Antiviral Global Market Opportunity:

~\$4-5B⁺

2
product
market

Opportunity to
expand market
with improved
product profile

COVID-19: Unmet Medical Need Remains in High-Risk Population

SUNRISE-3 Only Phase 3 Program in High-Risk Patients with Hospitalization as Primary Endpoint

- **SUNRISE 3: Second Milestone Achieved:** >1,400 patients enrolled in monotherapy arm
 - 1st interim analysis (DSMB) planned **March'24**
 - 2nd interim analysis (DSMB) planned **Q2'24**
- **~75%** of patients from US clinical sites
- **Ongoing unmet medical need due to safety concerns, tolerability and drug-drug interactions associated with current oral antiviral options**
 - CDC: high infection rates for winter respiratory season 2023/2024¹
 - COVID-19 remains a major cause of respiratory virus-associated hospitalizations¹
 - Low booster uptake: currently ~20% of US adults
 - Unmet medical need particularly important in most vulnerable patients including the elderly, immunocompromised and those with underlying risk factors

1. <https://www.cdc.gov/respiratory-viruses/whats-new/index.html>



SUNRISE-3: Global Phase 3 Trial in High-Risk COVID-19 Outpatients

Bemnifosbuvir – U.S. Fast Track Designation for COVID-19

Inclusion Criteria: High-risk outpatients with mild or moderate COVID-19, regardless of vaccination status; symptom onset ≤5 days before randomization

Geography: US, Europe, Japan and ROW

Randomization

1:1

Bemnifosbuvir 550 mg BID + SOC

Placebo BID + SOC

5 days of dosing with BEM or placebo

Enrollment Ongoing



Phase 3 Study Design:

- Randomized, double-blind, placebo-controlled
- Bemnifosbuvir or placebo initiated same time as locally available standard of care (SOC)
- Two study populations:
 - *supportive care monotherapy* (primary analysis)
 - *combination therapy* (secondary analysis, local SOC includes treatment with other antiviral drugs against COVID-19)
- Two interim analyses for DSMB review (safety, futility)

High-risk outpatients: ≥70, ≥55 w/ one+ risk factors, ≥50 with two+ risk factors, ≥18 immunocompromised conditions

Primary Endpoint:

All-cause hospitalization or death through Day 29 in monotherapy population (n≈approximately 2,200 patients)

Secondary Endpoints:

- COVID-19 related hospitalizations and deaths
- Medically attended visits
- Symptom rebound / relapse
- Viral load rebound

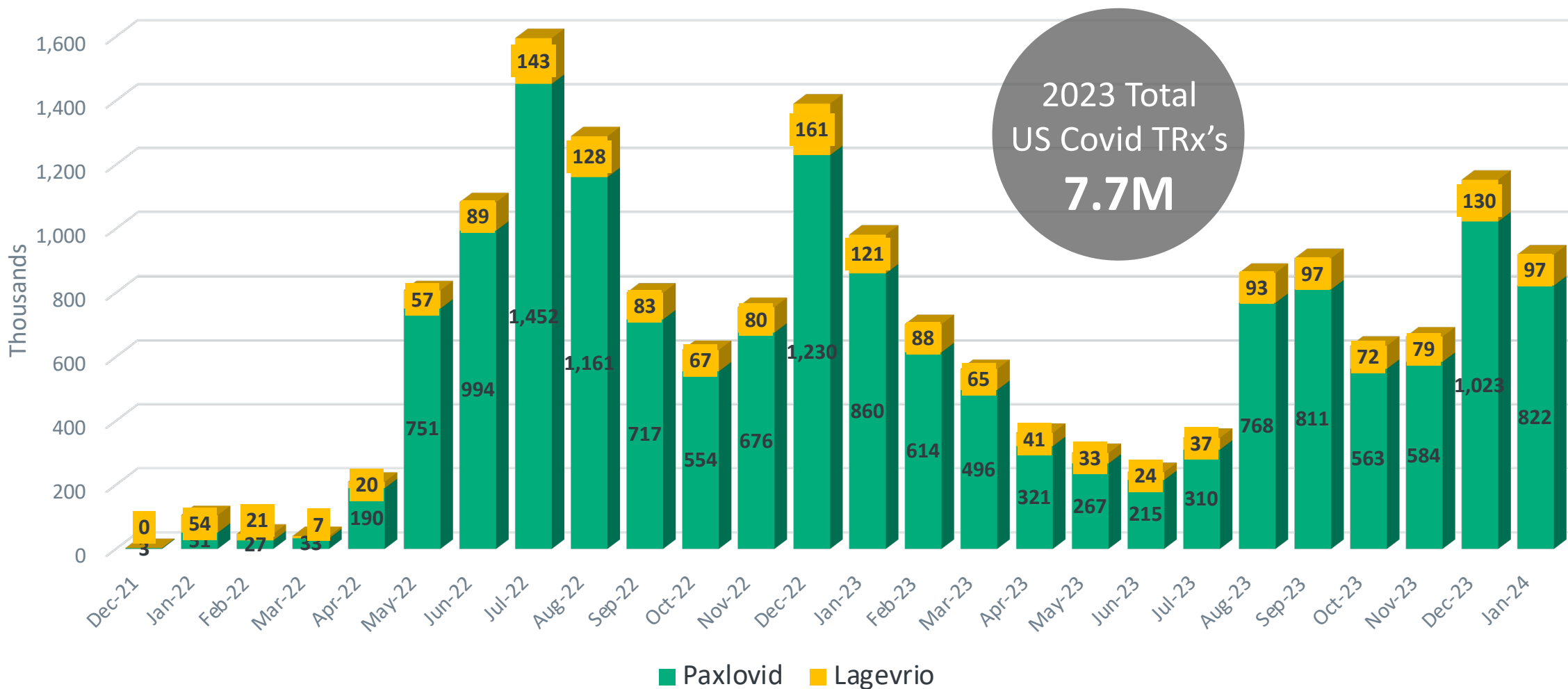


COVID-19

US Oral Antiviral Market Opportunity for COVID-19

Robust US TRx Scripts of COVID-19 Oral Antivirals Reflects Demand

US Demand: Monthly COVID-19 Oral Antiviral Prescriptions Dispensed (*thousands*)



US Market Expected to Remain a Long-Term Multi-Billion Dollar Opportunity

Projected Annual US COVID-19 Oral Antiviral (OAV) Retail Demand¹



7.7M+
Annual US Retail Rx's
Annualized COVID-19 OAV Rx's¹



Cost of Treatment²
(Paxlovid: \$1,390
Lagevrio: \$950)



~\$4-5B+

Expanded Market Opportunities

Paxlovid™ Drug-Drug Interactions are a Concern

590M

Annual US retail prescriptions (2023)³ for commonly used drug classes where Paxlovid DDI is a concern

seizure medications, anti-arrhythmics, statins, oral corticosteroids, cancer therapies, etc.



Better safety and tolerability profile could lead to broader use



Increased promotion & awareness



No testing needed for prescription

(1) IQVIA TRxs for Paxlovid and Lagevrio from Jan'23–Sep'23 annualized for full year

(2) Cost of Treatment per Rx

(3) IQVIA TRxs for 2023

Financial Summary

Financial Update Fourth Quarter and Full Year 2023

Condensed Consolidated Statement of Operations and Comprehensive Loss (in thousands, except share and per share amounts) (unaudited)

	Three Months Ended December 31,		Year Ended December 31,	
	2023	2022	2023	2022
Operating expenses				
Research and development	\$ 35,045	\$ 27,540	\$ 114,243	\$ 81,936
General and administrative	11,528	12,359	49,919	48,714
Total operating expenses	<u>46,573</u>	<u>39,899</u>	<u>164,162</u>	<u>130,650</u>
Loss from operations	(46,573)	(39,899)	(164,162)	(130,650)
Interest income and other, net	7,758	5,591	29,224	11,151
Loss before income taxes	(38,815)	(34,308)	(134,938)	(119,499)
Income tax benefit (expense)	(349)	(123)	(1,018)	3,590
Net loss	<u>\$ (39,164)</u>	<u>\$ (34,431)</u>	<u>\$ (135,956)</u>	<u>\$ (115,909)</u>
Other comprehensive income (loss):				
Unrealized gain (loss) on available- for- sale investments	<u>469</u>	<u>171</u>	<u>891</u>	<u>(684)</u>
Comprehensive loss	<u>\$ (38,695)</u>	<u>\$ (34,260)</u>	<u>\$ (135,065)</u>	<u>\$ (116,593)</u>
Net loss per share – basic and diluted ...	<u>\$ (0.47)</u>	<u>\$ (0.41)</u>	<u>\$ (1.63)</u>	<u>\$ (1.39)</u>
Weighted-average number of common shares – basic and diluted	<u>83,435,513</u>	<u>83,287,639</u>	<u>83,389,750</u>	<u>83,245,385</u>

Financial Update Fourth Quarter and Full Year 2023

Selected Condensed Consolidated Balance Sheet Data (in thousands) (unaudited)

	<u>December 31, 2023</u>	<u>December 31, 2022</u>
Cash, cash equivalents and marketable securities	\$ 578,106	\$ 646,709
Working capital(1).....	558,079	642,444
Total assets	594,968	666,708
Total liabilities	39,776	26,136
Total stockholders' equity	555,192	640,572

(1) The Company defines working capital as current assets less current liabilities. See the Company's consolidated financial statements in its Annual Report on Form 10-K for the year ended December 31, 2023 for further detail regarding its current assets and liabilities.



Closing Remarks



NASDAQ: AVIR

Significant Near-term Clinical Milestones in 2024

Fully funded Through Key Inflection Points



COVID-19 – Global Phase 3 SUNRISE-3 Trial

1st interim analysis planned
March'24

2nd interim analysis planned
Q2'24

Topline results
2H'2024

NDA submission target
YE'24

2024

2025

Resumed enrollment
Jan'24

Fixed dose tablet selection
Mid-2024

Final Ph 2 SVR12 results
2H'24

Ph 3 Initiation target
2H'24

HCV – Global Phase 2 Study

\$578.1 M

Cash, cash equivalents & marketable securities at 12/31/23
Cash runway anticipated through 2026





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