



# First Quarter 2022 Financial Results and Business Update

May 10, 2022

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.



Bemnifosbuvir

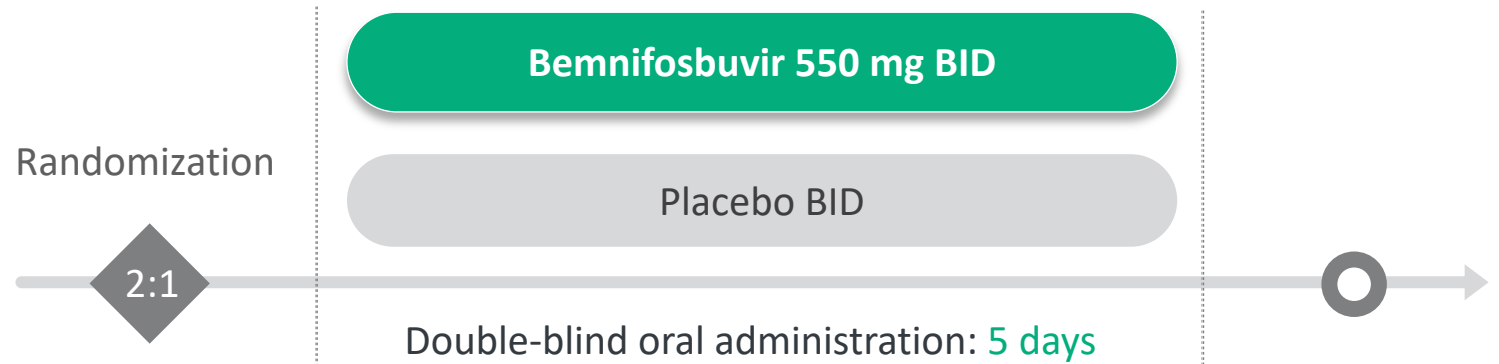
## Program Update for COVID-19

- New Data: MORNINGSKY Clinical Results
- New Data: Final Analysis from Phase 2 Hospitalized Study
- New Data: Omicron Variant Results

# Bemnifosbuvir (AT-527) Global Phase 3 MORNINGSKY Trial:

*Outpatient Setting, Mild to Moderate COVID-19 Patients With or Without Risk Factors*

**Inclusion Criteria:** Patients eligible for management in an outpatient setting,  $\leq 5$  days of symptoms  
*N*~1400 planned



## Objectives:

- Primary
- Time to alleviation or improvement of COVID-19 symptoms
- Secondary
- Hospitalization
- Death
- Virological endpoints

## Status:

- ***Study enrolled 216 patients and closed out early with 207 efficacy evaluable patients***

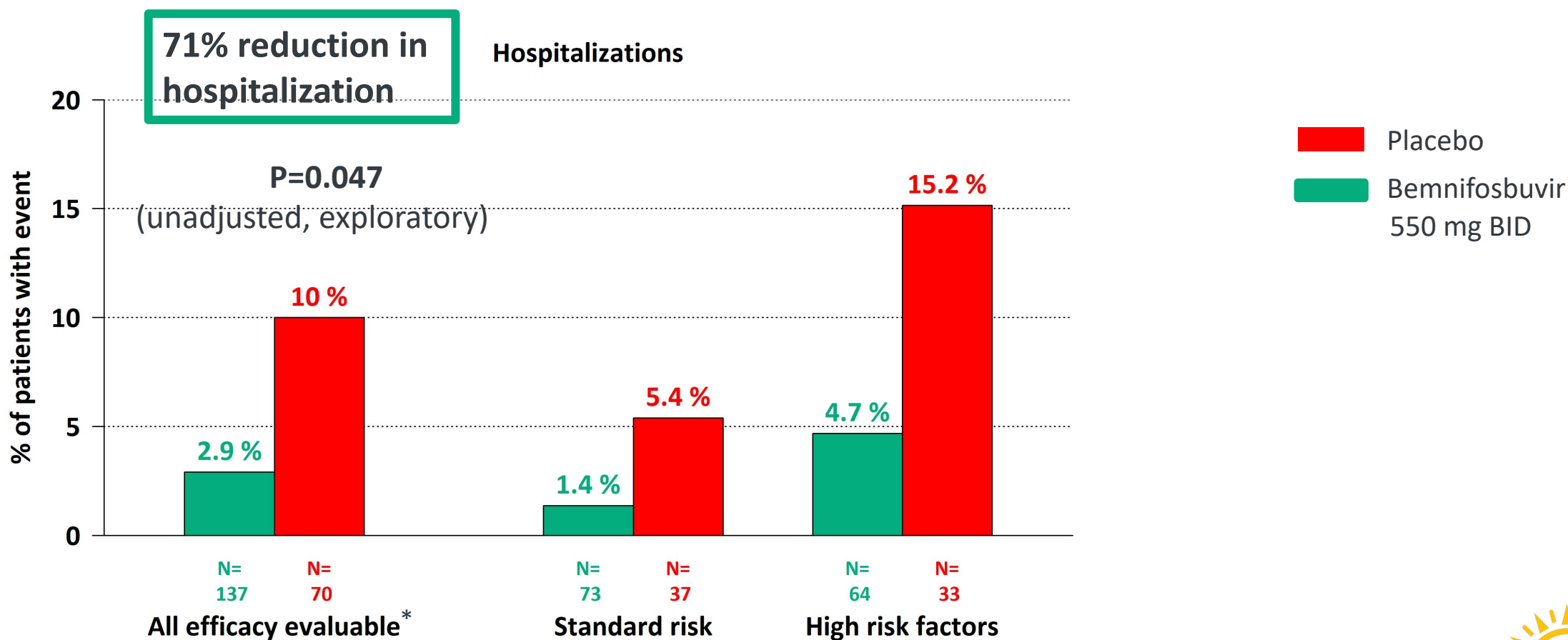
## New Data: MORNINGSKY Key Characteristics & Topline Clinical Results

- Study was closed out with 207 evaluable patients for efficacy
- Global and broad patient population studied
  - Approximately 50% high risk / 50% standard risk
  - 28% vaccinated
  - 56% seropositive at baseline
- Primary endpoint of time to alleviation/improvement of symptoms was not achieved
- **71% reduction of hospitalization** (bemnifosbuvir vs. placebo) and no deaths
  - Hospitalization and death was a secondary endpoint and is the highly favored endpoint by regulatory agencies, including FDA
- Bemnifosbuvir was generally safe and well tolerated at 550 mg BID
  - No drug related SAEs
  - AEs leading to treatment discontinuation were 3% for bemnifosbuvir vs. 7% for placebo
  - No GI-related events leading to treatment discontinuation



# New Data: MORNINGSKY Clinical Results: Hospitalization and Death (Secondary Endpoint)

- Risk of hospitalization was **71% lower** for bemnifosbuvir vs. placebo
- No deaths were observed in study



\*Included patients who were randomized, received study drug and tested positive for SARS-CoV-2

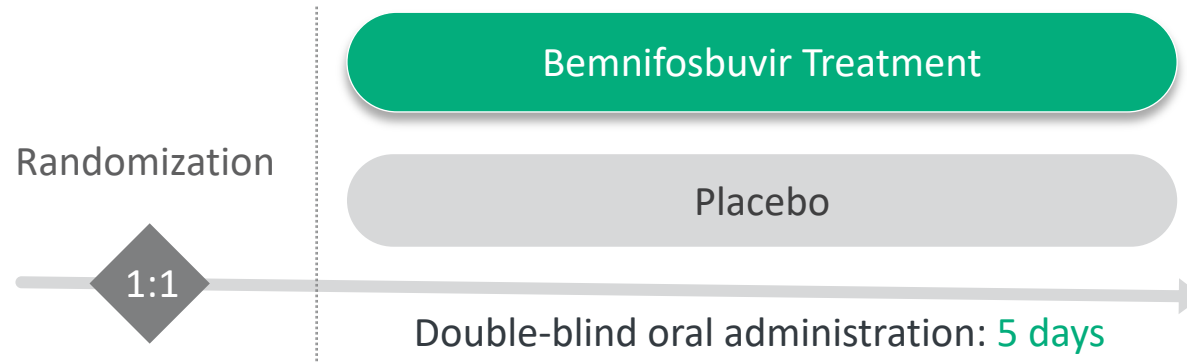


# Bemnifosbuvir Global Phase 2 Trial:

## Hospitalized Patients with Risk Factors and Moderate COVID-19

**Inclusion Criteria:** adult patients ( $\geq 18$  years old) with risk factors (obesity, diabetes, hypertension, asthma), **symptoms for  $\leq 5$  days** (hospitalized or confined)

**Countries:** Global Study



### Objectives:

#### Primary:

- Reduction in progressive respiratory insufficiency

#### Secondary:

- Mortality
- Virological endpoints
- Safety and tolerability

### Status:

- ***Study closed out early due to evolving COVID-19 management of patients***
- ***Final analysis on 83 patients***
  - ***Part A: 41 patients in 550 mg BID arm; 40 patients in placebo arm***
  - ***Part B: 0 patients in 1100 mg BID arm; 2 patients in placebo arm***

# New Data: Final Analysis from Phase 2 Hospitalized Study in High-Risk Patients

## *Potential Clinical Benefits with Bemnifosbuvir Treatment (550 mg BID)*

- Low rates of progression to respiratory insufficiency (primary endpoint)
  - 7.5% with bemnifosbuvir treatment vs. 10% on placebo
    - Respiratory events associated with progression were less severe in the bemnifosbuvir treated patients as compared to those receiving placebo
- 0 deaths with bemnifosbuvir treatment vs 3 on placebo (secondary endpoint)
- Final virology results remained consistent with previously reported interim virology data (secondary endpoint)
- Bemnifosbuvir was generally safe and well tolerated with no drug related serious adverse events and no adverse events leading to treatment discontinuation



# New Data: AT-511 (free base of Bemnifobuvir) Remains Fully Active Against Omicron Variant (BA.1)

*Bemnifosbuvir's Unique Mechanism Provides Activity Across All Variants of Concern*

	AT-511 EC <sub>90</sub> (μM)				
	#1	#2	#3	Av	SD
Original (USA-WA1)	0.23	0.41	0.76	0.47	0.27
Omicron (V3405)	0.25	0.46	0.78	0.50	0.27
Ratio (Omicron/USA-WA1)	1.1	1.1	1.0	1.1	0.06

Readout: VYR (virus yield assay)

Cells: EpiAirway (3D mucociliary tissue model consisting of normal, human-derived tracheal/bronchial epithelial cells)

## Next Steps for Bemnifosbuvir COVID-19 Clinical Development Program

- Phase 3 MORNINGSKY study (closed out early) results have potential to accelerate COVID-19 program
  - A study with 207 evaluable patients is in the range of a Phase 2 study
    - An additional Phase 2 monotherapy outpatient study is no longer planned
- Phase 2 hospitalized study final analysis are consistent with the results in MORNINGSKY trial
- Bemnifosbuvir 550 mg BID is efficacious, generally safe, well tolerated with a favorable GI tolerability profile
- Pursuing regulatory interactions to review data package and the next steps in the clinical development program

A microscopic view of several dengue virus particles. Each particle is spherical with a distinct outer shell of surface proteins and a core containing a genome of RNA and proteins. The particles are shown in various sizes and orientations against a dark background.

AT-752

# Program Update: Phase 2 Clinical Development for Dengue

# Initiated: AT-752 Phase 2 Global Proof-of-Concept Treatment for Dengue Study

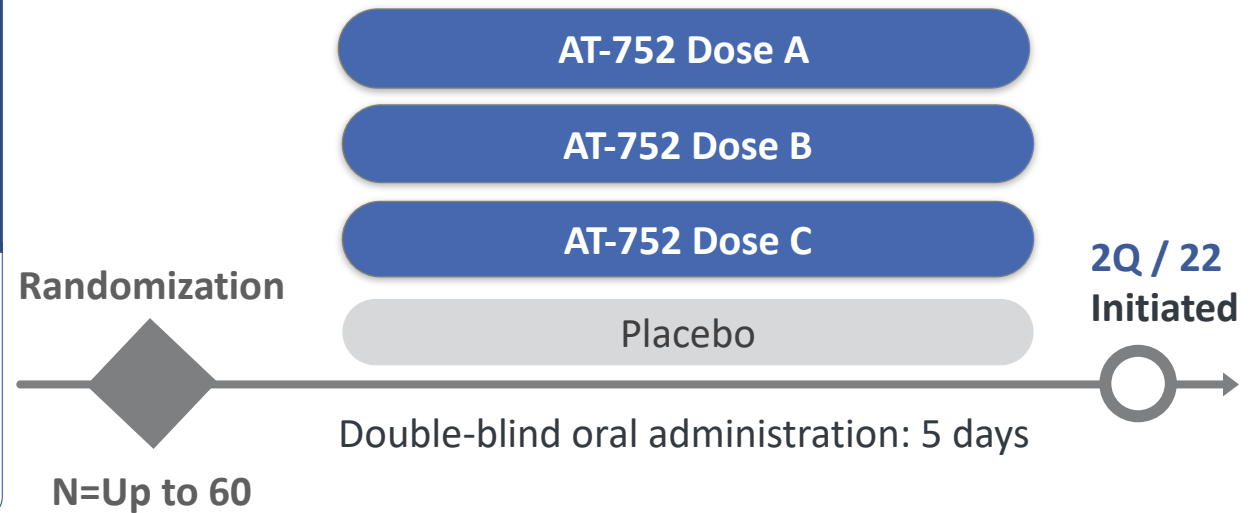
*Initial Results Expected Late 2022*

**Inclusion Criteria:** adults with fever ( $\geq 38^{\circ}\text{C}$ ) within 48 hour of probable dengue infection and positive result on NS1 antigen test or RT-PCR assay

**Location:** Endemic Countries

**Objectives:** Antiviral activity, safety, PK

**Primary endpoint:** Change in dengue virus viral load from baseline



- Randomized, double-blind, placebo-controlled trial in adult patients with dengue fever
- **Objectives:** antiviral activity, safety, and PK
  - Primary endpoint: Change in dengue virus viral load from baseline
  - Exploratory: viremia, NS1 levels, fever
- **Population:** adults with fever ( $\geq 38^{\circ}\text{C}$ ) within 48 h with probable dengue infection and positive result on NS1 antigen test or RT-PCR assay

# Initiated: AT-752 Human Challenge Infection Model

*Results Expected Q4 2022*

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## Population:

Healthy subjects, 18-55 years

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## Location: US

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## Design:

- Day 1: 12 subjects randomized 3:1 administered oral AT-752 or matching placebo
- Day 2: Challenged with 0.5 mL DENV-1-LVHC ( $6.5 \times 10^3$  PFU/mL)

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## Endpoints:

- Mean quantitative viral load (peak, duration and AUC) by qRT-PCR until 28 days post virus inoculation
  - Time to positive viral load by qRT-PCR
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Hepatitis C Program Update:  
Potential Best-in-Class  
Pan-Genotypic Regimen



# HCV Development for Bemnifosbuvir + Ruzasvir Update

## *Potential Best-in-Class Pan-genotypic Regimen*

- **Currently manufacturing ruzasvir clinical trial supplies for Phase 2**
- **Evaluating clinical trial designs for the Phase 2 combination trial, which is expected to be initiated late 2022**
- **Phase 2 combination program expected to evaluate convenient and short treatment duration**

### **Bemnifosbuvir + Ruzasvir Competitive Profile**

**Convenient and  
Short duration**

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**Potential for first  
RBV-free therapy for  
decompensated disease**

- ✓ Bemnifosbuvir is the most potent nucleotide inhibitor to-date being developed for HCV
- ✓ Ruzasvir is a highly potent Phase 2-ready drug candidate
- ✓ Potential for best-in-class pan-genotypic fixed-dose combination

# Financial Summary

# Financial Update First Quarter 2022

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

	<b>Three Months Ended March 31,</b>	
	<b>2022</b>	<b>2021</b>
Collaboration revenue.....	\$ —	\$ 65,985
Operating expenses		
Research and development .....	29,633	26,571
General and administrative .....	12,542	8,759
Total operating expenses .....	42,175	35,330
Income (loss) from operations .....	(42,175)	30,655
Interest income and other, net .....	98	58
Income (loss) before income taxes .....	(42,077)	30,713
Income tax expense .....	—	—
Net income (loss) and comprehensive income (loss) .....	\$ (42,077)	\$ 30,713
Net income (loss) per share attributable to common stockholders		
Basic .....	\$ (0.51)	\$ 0.37
Diluted .....	\$ (0.51)	\$ 0.34
Weighted-average common shares outstanding		
Basic .....	83,176,408	82,577,836
Diluted .....	83,176,408	89,099,075

# Financial Update First Quarter 2022

## Selected Condensed Consolidated Balance Sheet Data (in thousands, except share and per share amounts)

	<u>March 31, 2022</u>	<u>December 31, 2021</u>
	<b>(unaudited)</b>	
Cash and cash equivalents.....	\$ 705,545	\$ 764,375
Working capital(1).....	684,622	715,520
Total assets .....	717,189	772,892
Total liabilities .....	37,305	62,815
Total stockholders' equity .....	679,884	710,077

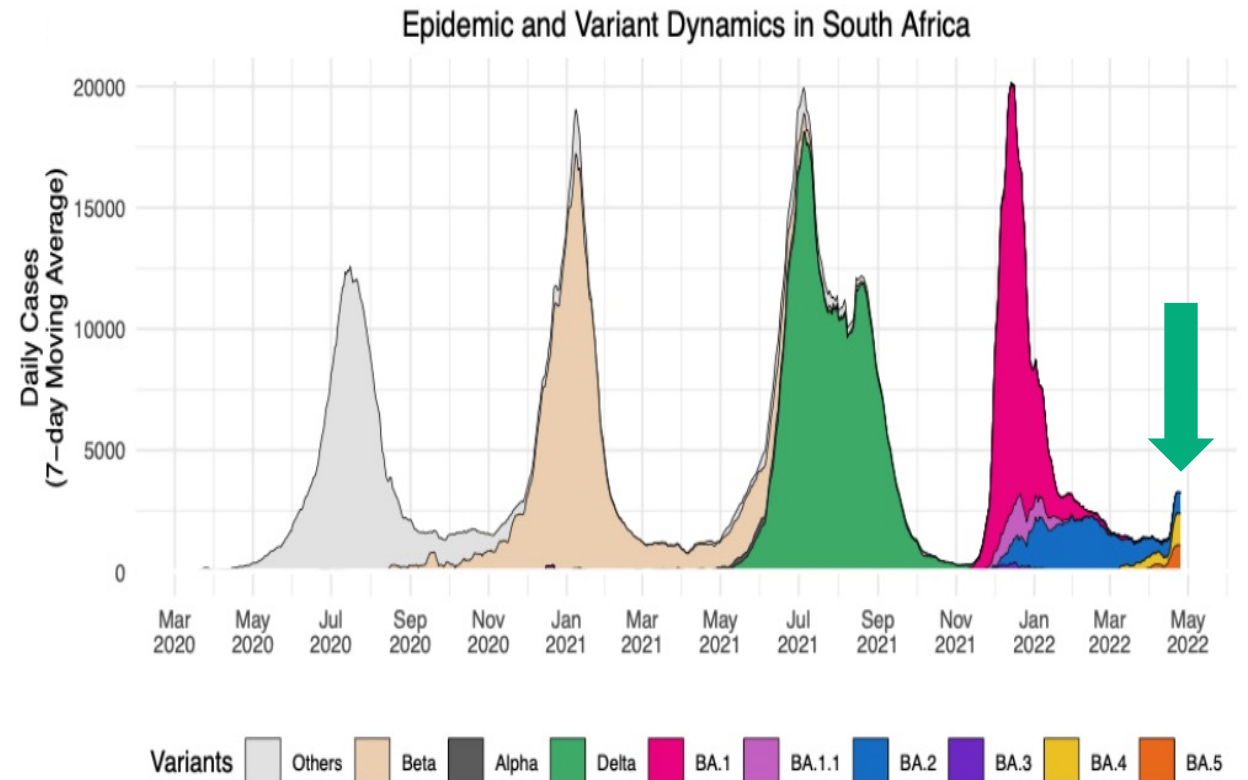
(1) The Company defines working capital as current assets less current liabilities. See the Company's condensed consolidated financial statements in its Quarterly Report on Form 10-Q for the three months ended March 31, 2022 for further detail regarding its current assets and liabilities.

# Closing Remarks

# COVID-19: Continued Emergence and Evolution of Variants

- *There remains a need for new oral antiviral treatments*
  - Relapse, drug-drug interactions, potential safety, efficacy and resistance concerns
- New variants continue to fuel surges of cases and can be life threatening to those at high risk
- BA.4 and BA.5 are expected to cause a major surge in the US during the fall / winter 2022-2023

Continued Emergence and Evolution of Omicron in South Africa, New BA.4 and BA.5 Lineage



Data in preprint in MedRxIV, *Continued Emergence and Evolution of Omicron in South Africa: New BA.4 and BA.5 Lineage*, Tulio de Oliveira et al







# Q & A Session



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