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): June 5, 2024

Arbutus Biopharma Corporation (Exact name of registrant as specified in its charter)

British Columbia, Canada (State or Other Jurisdiction of Incorporation)

001-34949 (Commission File Number) 98-0597776 (I.R.S. Employer Identification No.)

701 Veterans Circle Warminster, Pennsylvania 18974 (Address of Principal Executive Offices) (Zip Code)

(267) 469-0914

(Registrant's telephone number, including area code)

(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:

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

□ 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 Shares, without par value	ABUS	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 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

Emerging growth company \Box

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 8.01. Other Events.

On June 5, 2024, Arbutus Biopharma Corporation (the "Company") issued a press release announcing new data from its Phase 2a clinical trial IM-PROVE I (AB-729-201) showing that imdusiran, the Company's RNAi therapeutic, and 24 weeks of pegylated interferon alfa- 2α (IFN), a standard-of-care immunomodulator, added to ongoing nucleos(t)ide analogue (NA) therapy, reduced HBsAg levels and led to sustained HBsAg loss in some patients with cHBV during and after treatment. These data were presented today in the Viral Hepatitis B and D: New therapies, unapproved therapies or strategies poster session, and will be featured during a poster tour on Thursday, June 6, 2024, at the European Association for the Study of the Liver (EASL) Congress. A copy of the press release is filed herewith as Exhibit 99.1 and is incorporated by reference herein.

On June 5, 2024, the Company posted an updated corporate presentation on its website at www.arbutusbio.com. A copy of the presentation is filed herewith as Exhibit 99.2 and is incorporated by reference herein.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits.

<u>Exhibit Number</u>	Description
<u>99.1</u>	<u>Press Release dated June 5, 2024</u>
<u>99.1</u>	<u>Presentation dated June 5, 2024</u>
104	Cover Page Interactive Data File (formatted as Inline XBRL)

SIGNATURE

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.

Arbutus Biopharma Corporation

Date: June 5, 2024

By: <u>/s/ David C. Hastings</u> David C. Hastings Chief Financial Officer

Arbutus' Imdusiran with Short Course Interferon Achieves Sustained Undetectable HBsAg, a Necessity for HBV Functional Cure

At the end of treatment, 33.3% of patients receiving imdusiran for 48 weeks, interferon (IFN) for 24 weeks and ongoing nucleoside analogue (NA) therapy achieved undetectable levels of HBsAg that were maintained in 100% of these patients 24 weeks after completing imdusiran and IFN treatment

Of the patients who have stopped all therapy, six still have undetectable levels of HBsAg and HBV DNA, with two of these patients reaching 12 weeks off all therapy

All six patients have seroconverted and have high titers of anti-HBsAg antibodies

These new Phase 2a data were presented at the European Association for the Study of the Liver (EASL) Congress 2024

WARMINSTER, Pa., June 05, 2024 (GLOBE NEWSWIRE) -- Arbutus Biopharma Corporation (Nasdaq: ABUS) ("Arbutus" or the "Company"), a clinical-stage biopharmaceutical company leveraging its extensive virology expertise to develop a functional cure for people with chronic hepatitis B virus (cHBV) infection, today announced new data from its Phase 2a clinical trial IM-PROVE I (AB-729-201) showing that imdusiran, the Company's RNAi therapeutic, and 24 weeks of pegylated interferon alfa-2 α (IFN), a standard-of-care immunomodulator, added to ongoing nucleos(t)ide analogue (NA) therapy, reduced HBsAg levels and led to sustained HBsAg loss in some patients with cHBV during and after treatment. These data were presented today in the Viral Hepatitis B and D: New therapies, unapproved therapies or strategies poster session, and will be featured during a poster tour on Thursday, June 6, 2024, at the European Association for the Study of the Liver (EASL) Congress.

Select key data from this Phase 2a clinical trial include:

- Some patients who received either 48 or 24 weeks of imdusiran and 24 weeks of IFN with their ongoing NA therapy achieved undetectable HBsAg at the end-of-treatment (EOT) (33.3%, n=4/12; and 23.1%, n=3/13, respectively) that was sustained 24 weeks after completing imdusiran and IFN treatment (33.3%, n=4/12 and 15.4%, n=2/13, respectively). All six patients with sustained HBsAg loss have seroconverted with high anti-HBsAg antibody levels (43.8 to >1,000 mIU/mL suggestive of immune control) and are being followed for maintenance of both undetectable levels of HBsAg and HBV DNA for 24 weeks while off all therapy to assess for a functional cure.
- Two of the six patients have reached 12 weeks off all therapy while maintaining both undetectable levels of HBsAg and HBV DNA. The remaining four patients are at various timepoints less than 12 weeks off therapy with undetectable levels of HBsAg and HBV DNA.
- A total of 21 patients from across the four treatment cohorts have discontinued all therapy and are in the follow-up period. One patient that
 received 12 weeks of IFN treatment with imdusiran and NA therapy has maintained undetectable levels of HBsAg and HBV DNA while off
 all therapy for six months, thereby achieving a functional cure.

"These data are impressive with robust HBsAg response rates that are sustained after end-of-treatment in patients receiving imdusiran and IFN," commented Professor Man-Fung Yuen, D.Sc., M.D., Ph.D., Chief of the Division of Gastroenterology and Hepatology, the University of Hong Kong, who presented the data at the Congress. "Unlike other RNAi candidates in development that have been evaluated in combination with IFN, in this trial, imdusiran was administered less frequently, at a lower dose, and when combined with a shorter 24-week course of IFN, achieved undetectable HBsAg that is sustained after end of treatment and into early off-treatment follow-up. This trial evaluated small groups of patients, yet there is reason to believe that the combination of imdusiran and IFN could potentially lead to a functional cure in those patients that remain off all therapy. These data are extremely important for the HBV community, and I look forward to continuing to follow the patients who have discontinued all treatment."

To confirm undetectable HBsAg measured by the trial assay (lower limit of quantitation of 0.05 IU/mL), the Abbott HBsAg Next Qualitative assay, an ultrasensitive, research use only assay with a detection limit of 0.005 IU/mL, was utilized. The Next Assay confirmed HBsAg loss in six of the seven patients at EOT, and those six maintained HBsAg loss for 24 weeks after completing indusiran and IFN treatment.

These data from the IM-PROVE I trial suggest that the combination of indusiran and 24 weeks of IFN was generally safe and well-tolerated. There were no serious adverse events (SAEs) related to imdusiran or IFN, and no adverse events (AEs) leading to discontinuation. The most common imdusiran-related treatment emergent adverse events (TEAEs) were transient ALT elevations and injection site bruising. The IFN-related TEAEs were consistent with the known safety profile of IFN.

"There is a significant need for a functional cure for the more than 250 million patients chronically infected with HBV worldwide," commented Dr. Karen Sims, Chief Medical Officer of Arbutus Biopharma. "These data further support our belief that lowering surface antigen with imdusiran and incorporating an immunomodulator in the treatment regimen has the potential to provide a functional cure for patients with cHBV. We look forward to following the progress of these patients as well as those in our other Phase 2a trials evaluating imdusiran with other immunomodulators."

The poster that was presented at EASL Congress 2024 can be accessed through the Arbutus website under Publications.

IM-PROVE I Trial Details

The IM-PROVE I Phase 2a clinical trial (AB-729-201; NCT04980482) enrolled 43 HBeAg-negative, NA-suppressed patients with cHBV infection. After a 24-week lead-in with imdusiran (60 mg every 8 weeks) added to ongoing NA therapy, patients were randomized into one of the following four cohorts:

- A1: Imdusiran + NA + IFN weekly for 24 weeks (n=12)
- A2: NA + IFN weekly for 24 weeks (n=13)
- B1: Imdusiran + NA + IFN weekly for 12 weeks (n=8)
- B2: NA + IFN weekly for 12 weeks (n=10)

After completion of the IFN treatment period (Week 52 for cohorts A1 and A2 and Week 40 for cohorts B1 and B2), patients underwent a 24-week follow-up period on NA therapy alone and were then assessed for discontinuation of NA therapy. Patients with ALT levels less than two times the upper limit of normal, undetectable HBV DNA, and HBsAg <100 IU/mL at two consecutive visits at least 24 weeks after the last dose of imdusiran, qualified to discontinue all therapy and will be followed for at least 48 weeks. Safety, antiviral and immunologic assessments were obtained throughout the treatment and follow-up periods. HBsAg was assessed via Roche Cobas Elecsys HBsAg II assay (lower limit of quantitation [LLOQ] = 0.05 IU/mL) and results <LLOQ were analyzed by Abbott HBsAg Next Qualitative assay (detection limit = 0.005 IU/mL).

About Imdusiran (AB-729)

Imdusiran is an RNA interference (RNAi) therapeutic specifically designed to reduce all HBV viral proteins and antigens including hepatitis B surface antigen, which is thought to be a key prerequisite to enable reawakening of a patient's immune system to respond to the virus. Imdusiran targets hepatocytes using Arbutus' novel covalently conjugated N-Acetylgalactosamine (GalNAc) delivery technology enabling subcutaneous delivery. Clinical data generated thus far has shown single and multiple doses of imdusiran to be generally safe and well-tolerated, while also providing meaningful reductions in hepatitis B surface antigen and hepatitis B DNA. Imdusiran is currently in multiple Phase 2a clinical trials.

About HBV

Hepatitis B is a potentially life-threatening liver infection caused by the hepatitis B virus (HBV). HBV can cause chronic infection which leads to a higher risk of death from cirrhosis and liver cancer. Chronic HBV infection represents a significant unmet medical need. The World Health Organization estimates that over 250 million people worldwide suffer from chronic HBV infection, while other estimates indicate that approximately 2.4 million people in the United States suffer from chronic HBV infection. Approximately 820,000 people die every year from complications related to chronic HBV infection despite the availability of effective vaccines and current treatment options.

About Arbutus

Arbutus Biopharma Corporation (Nasdaq: ABUS) is a clinical-stage biopharmaceutical company leveraging its extensive virology expertise to identify and develop novel therapeutics with distinct mechanisms of action, which can be combined to provide a functional cure for patients with chronic hepatitis B virus (cHBV). We believe the key to success in developing a functional cure involves suppressing HBV DNA, reducing surface antigen, and boosting HBV-specific immune responses. Our pipeline of internally developed, proprietary compounds includes an RNAi therapeutic, imdusiran (AB-729), and an oral PD-L1 inhibitor, AB-101. Imdusiran has generated meaningful clinical data demonstrating an impact on both surface antigen reduction and reawakening of the HBV-specific immune response. Imdusiran is currently in three Phase 2a combination clinical trials. AB-101 is currently being evaluated in a Phase 1a/1b clinical trial. For more information, visit www.arbutusbio.com.

Forward-Looking Statements and Information

This press release contains forward-looking statements within the meaning of the Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934, and forward-looking information within the meaning of Canadian securities laws (collectively, forward-looking statements). Forward-looking statements in this press release include statements about the potential to lead to a functional cure for HBV, our future development plans for our product candidates; the expected results of our clinical development plans and clinical trials with respect to our product candidates; our expectations with respect to the release of data from our clinical trials and the expected timing thereof; and the potential for our product candidates to achieve success in clinical trials.

With respect to the forward-looking statements contained in this press release, Arbutus has made numerous assumptions regarding, among other things: the effectiveness and timeliness of preclinical studies and clinical trials, and the usefulness of the data; the timeliness of regulatory approvals; the continued demand for Arbutus' assets; and the stability of economic and market conditions. While Arbutus considers these assumptions to be reasonable, these assumptions are inherently subject to significant business, economic, competitive, market and social uncertainties and contingencies.

Additionally, there are known and unknown risk factors which could cause Arbutus' actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements contained herein. Known risk factors include, among others: anticipated pre-clinical studies and clinical trials may be more costly or take longer to complete than anticipated, and may never be initiated or completed, or may not generate results that warrant future development of the tested product candidate; Arbutus may elect to change its strategy regarding its product candidates and clinical development activities; Arbutus may not receive the necessary regulatory approvals for the clinical development of Arbutus' products; economic and market conditions may worsen; market shifts may require a change in strategic focus.

A more complete discussion of the risks and uncertainties facing Arbutus appears in Arbutus' Annual Report on Form 10-K, Arbutus' Quarterly Reports on Form 10-Q and Arbutus' continuous and periodic disclosure filings, which are available at www.sedar.com and at www.sec.gov. All forward-looking statements herein are qualified in their entirety by this cautionary statement, and Arbutus disclaims any obligation to revise or update any such forward-looking statements or to publicly announce the result of any revisions to any of the forward-looking statements contained herein to reflect future results, events or developments, except as required by law.

Contact Information

Investors and Media

Lisa M. Caperelli Vice President, Investor Relations Phone: 215-206-1822 Email: <u>lcaperelli@arbutusbio.com</u>



Corporate Presentation

NASDAQ: ABUS www.arbutusbio.com

June 5, 2024



Forward-Looking Statements

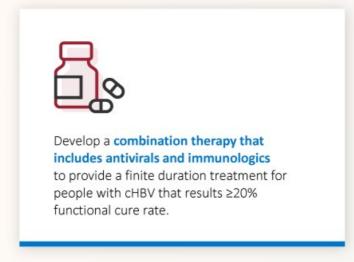
This presentation contains forward-looking statements within the meaning of the U.S. Private Securities Litigation Reform Act of 1995 and Canadian securities laws. All statements that are not historical facts are hereby identified as forward-looking statements for this purpose and include, among others, statements relating to: the potential market opportunity for HBV; Arbutus' ability to meet a significant unmet medical need; the sufficiency of Arbutus' cash and cash equivalents for the anticipated durations; the expected cost, timing and results of Arbutus' clinical development plans and clinical trials, including its clinical collaborations with third parties; the potential for Arbutus' product candidates to achieve their desired or anticipated outcomes; Arbutus' expectations regarding the timing and clinical development of Arbutus' product candidates, including its articulated clinical objectives; the timeline to a combination cure for HBV; Arbutus' expectations regarding its technology licensed to third parties; the expected timing and payments associated with strategic and/or licensing agreements; the patent infringement lawsuits; and other statements relating to Arbutus' future operations, future financial performance, future financial condition, prospects or other future events.

With respect to the forward-looking statements contained in this presentation, Arbutus has made numerous assumptions regarding, among other things: the timely receipt of expected payments; the effectiveness and timeliness of pre-clinical studies and clinical trials, and the usefulness of the data; the timeliness of regulatory approvals; the continued demand for Arbutus' assets; and the stability of economic and market conditions. While Arbutus considers these assumptions to be reasonable, these assumptions are inherently subject to significant business, economic, competitive, market and social uncertainties, and contingencies including uncertainties and contingencies related to patent litigation matters. Forward-looking statements herein involve known and unknown risks, uncertainties and other factors that may cause the actual results, events or developments to be materially different from any future results, events or developments expressed or implied by such forward-looking statements. Such factors include, among others: anticipated pre-clinical and clinical trials may be more costly or take longer to complete than anticipated, and may never be initiated or completed, or may not generate results that warrant future development of the tested drug candidate; changes in Arbutus' strategy regarding its product candidates and clinical development activities; Arbutus may not receive the necessary regulatory approvals for the clinical development of Arbutus' products; economic and market conditions may worsen; uncertainties associated with litigation generally and patent litigation specifically; market shifts may require a change in strategic focus; and the parties may never realize the expected benefits of the collaborations. A more complete discussion of the risks and uncertainties facing Arbutus' appears in Arbutus' Annual Report on Form 10-K, Quarterly Report on Form 10-Q and Arbutus' previde disclosure filings, which are available at www.sedar.com. All forward-looking statements herein are qualified in their en



Our Strategy for Value Creation

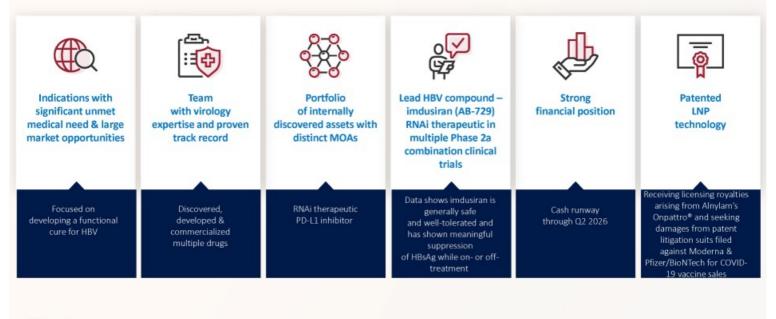
Leverage the proven track record of success established with our team's expertise in understanding and treating viral infections by discovering and developing a differentiated pipeline of therapies targeting chronic HBV.





HBV: Hepatitis B Virus | cHBV: chronic HBV

Investment Highlights



Arbutus

MOA: Mechanism of Action | PD-L1: Programmed death-ligand 1 | HBsAg: Hepatitis B surface antigen

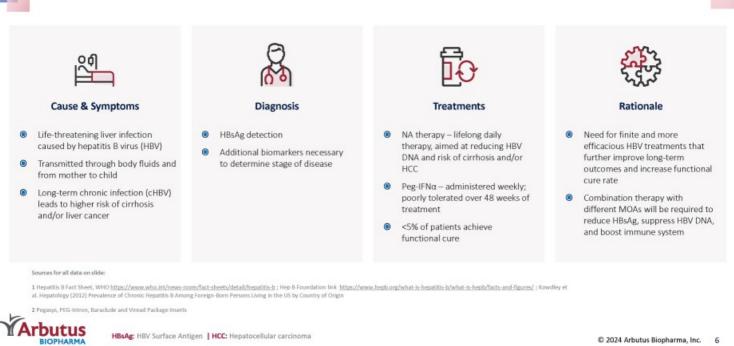
Pipeline

	Pre-Clinical	Phase 1	Phase 2	Phase 3	Marketed
Imdusiran (AB-729) CHBV	IM-PROVE II Combo t	ial (imdusiran + Peg-IFNα-2a + NA) rial (imdusiran + vaccine + NA +/- nivolu trial (imdusiran + NA + durvalumab)	mab)		
AB-101 CHBV	AB-101-001 single-/mult ascending dose	iple-			

Arbutus

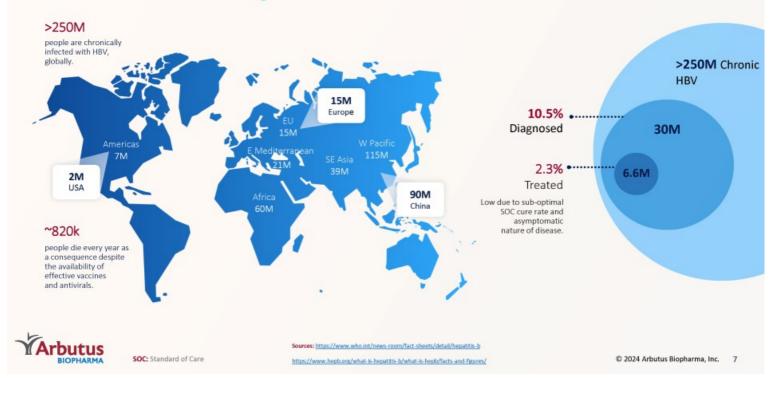
NA: Nucleoside Analogue

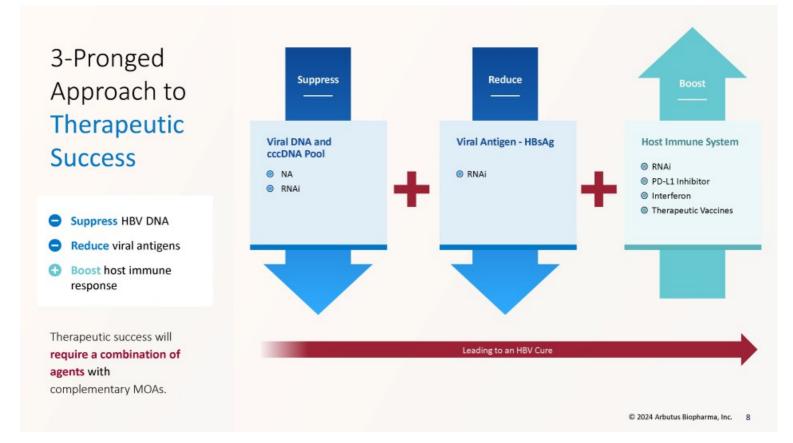
HBV Overview



HBsAg: HBV Surface Antigen | HCC: Hepatocellular carcinoma

HBV Presents a Significant Unmet Medical Need





RNAi Therapeutic



Imdusiran

RNAi Therapeutic

Proprietary GalNAc-conjugate delivery

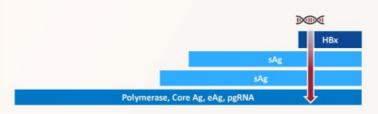
technology provides

liver targeting and enables subcutaneous dosing



Arbutus

- Single trigger RNAi agent targeting all HBV transcripts
- Inhibits HBV replication and lowers all HBV antigens
- Pan-genotypic activity across HBV genotypes
- Demonstrated complementarity with other agents
- Actively targets the liver
- Active against cccDNA derived and integrated HBsAg transcripts
- Clean profile in long term preclinical safety studies



AB-729-001 Phase 1a/1b Clinical Trial: Key Takeaways

Imdusiran was generally safe and well-tolerated after completing dosing in over 40 CHB patients Imdusiran provided robust and comparable HBsAg declines regardless of dose, dosing interval, HBeAg or DNA status A reduction in HBsAg and HBV DNA was sustained in the majority of patients that stopped all treatments Imdusiran results in HBV-specific T-cell immune restoration and decrease of exhausted Tcells in some patients

Imdusiran 60 mg every 8 weeks for 24 to 48 weeks selected for Phase 2 trials

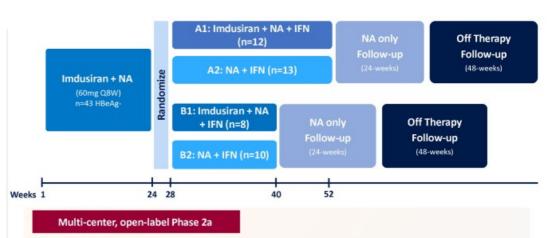


IM-PROVE I:

Arbutus

Phase 2a POC Clinical Trial

Imdusiran in combination with ongoing NA therapy and short courses of Peg-IFNα-2a in cHBV patients



Primary objective: evaluate safety and tolerability of imdusiran in combination with Peg-IFN α -2a in patients with NA-suppressed cHBV

After completing IFN treatment and the 24-week NA only follow-up period, patients are assessed to stop NA therapy. Those patients that stop NA therapy will be followed for an additional 48 weeks

Data presented at EASL Congress 2024 showed that 48 weeks of imdusiran plus 24 weeks of IFN therapy was generally safe, well-tolerated and achieved sustained undetectable HBsAg in 33% of patients after completion of IFN treatment, which were maintained in 100% of these patients 24 weeks after completing imdusiran and IFN treatment

POC: Proof of Concept

IM-PROVE I: Imdusiran with Short Courses of IFN Leads to Undetectable HBsAg and Sustained HBsAg Loss

Number of Patients with Undetectable HBsAg at Key Timepoints

Achieved HBsAg ≤ LLOQ (0.05 IU/mL)	Cohort A1: IDR x 6 + NA + IFN x 24W (N = 12)	Cohort A2: IDR x 4 + NA + IFN x 24W (N = 13)		
Anytime during treatment	6/12 (50%)	3/13 (23%)		
FOT (NES)	4/12 (33.3%)	3/13 (23%)		
EOT (W52)	7/25 (28%)			
Next Assay negative	4/4	2/3		
24 weeks post-EOT	4/12 (33.3%)	2/13 (15.4%)		
(NA therapy only)	6/25 (24%)			
Next Assay negative	2*/4 (*1 subject pending testing)	2/2		
Discontinued NA therapy	9/12 (75%)	3/13 (23%)		

W: week; EOT: end-of-treatment; Next Assay LLOD=0.005 IU/mL



Data presented at EASL 2024

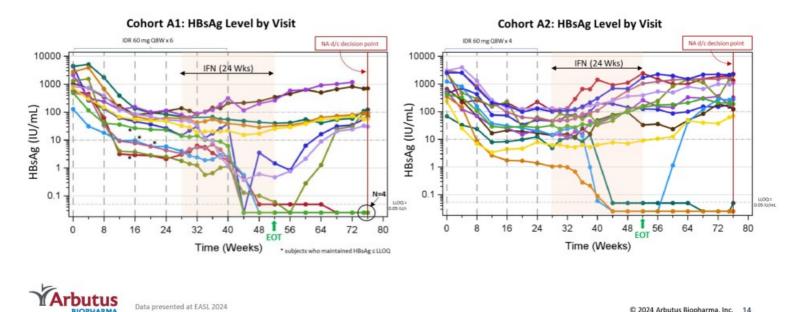
Functional Cure: undetectable HBV DNA and HBsAg with or without anti-HBs that is maintained for six months after discontinuing all therapy.

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Key Findings:

- More patients from the 24-week IFN Cohorts (A1/A2) reached and maintained undetectable HBsAg than in the 12-week IFN Cohorts (B1/B2); extending imdusiran dosing increased HBsAg reduction and HBsAg loss
- Patients with sustained HBsAg loss had corresponding high anti-HBs levels (43.8 to >1000 mIU/mL)
- Imdusiran and 24 weeks of IFN was generally safe and welltolerated
 - No related-SAEs and no AEs leading to discontinuation
- All 6 undetectable patients (plus an additional 15 from all 4 Cohorts, n=21 total) discontinued NA therapy after the 24 weeks post-EOT visit
 - 2/6 undetectable patients have reached 12w off all therapy remain undetectable
 - 1 patient in Cohort B2 achieved functional cure during the NA discontinuation period

IM-PROVE I: Imdusiran with 24 Weeks of IFN Reduces HBsAg Levels to Undetectable in 6 patients



IM-PROVE II:

Phase 2a POC Clinical Trial

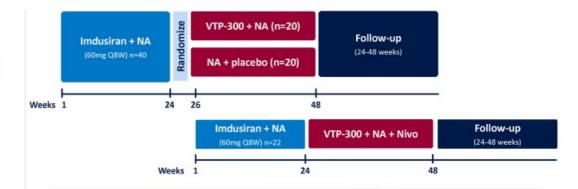


POC Phase 2a clinical trial

evaluating imdusiran in combination with Barinthus Bio's immunotherapeutic, VTP-300, NA and with or without low dose nivolumab

Preliminary end-of-treatment data for imdusiran + VTP-300 + NA expected in 1H 2024





Primary objective: evaluate safety and reactogenicity of imdusiran followed by VTP-300 or placebo

At Week 48 all participants who are eligible to discontinue NA therapy will be followed for an additional 48 weeks

Preliminary results presented at AASLD The Liver Meeting 2023; additional data to be presented at EASL Congress 2024

Clinical trial expanded to include an additional arm with nivolumab (Opdivo[®]) with preliminary data expected in 2H 2024

Full rights retained by the Companies of their respective product candidates and all costs split equally

POC: Proof of Concept

IM-PROVE II: HBsAg Levels were Reduced and Sustained with Imdusiran and VTP-300 Treatment

Mean HBsAg Change from Baseline and Key Milestones

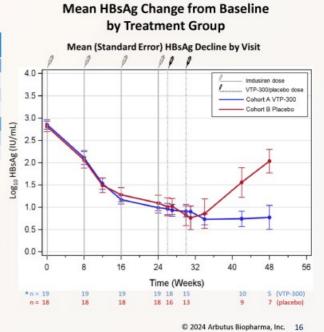
Study	Mean (SE) Change from Baseline N, log ₁₀ IU/mL (SE) imdu					100 IU/mL		10 IU/mL (%)
Week					imdusiran 60 mg Q8W x 4 doses			(70)
Baseline		40 2	2.85 (0	0.07)	N	IA	N	IA
12	39 -1.31		1.31 (0	0.07)	32/39 (82.1)		7/39 (17.9)	
26		34 -1	.86 (0	0.09)	33/34	(97.1)	15/34	(44.1)
	N	VTP-300	N	РВО	VTP-300	РВО	VTP-300	PBO
34	13	-2.12 (0.13)	13	-2.01 (0.31)	13/13 (100)	11/13 (84.6)	8/13 (61.5)	6/13 (46.2)
48	5	-1.87 (0.41)	7	-1.03 (0.21)	5/5 (100)	4/7 (57.1)	3/5 (60.0)	0/7 (0)

Preliminary results:

- Robust reductions of HBsAg were seen during the imdusiran treatment period, with 33/34 (97%) of patients <100 IU/mL at the time of VTP-300/placebo administration</p>
- VTP-300 appears to maintain low HBsAg levels in the early post-treatment period, as the mean HBsAg levels in the placebo group begin to rebound starting ~12 weeks after the last dose of imdusiran
- All VTP-300 treated patients have maintained HBsAg <100 IU/mL through Week 48, 60% have maintained HBsAg <10 IU/mL, and all have qualified to stop NA therapy</p>



Data presented at AASLD 2023



A: Imdusiran (60mg Q8W) + NA + Durvalumab (low dose at 2 pre-specified times) **IM-PROVE III:** Phase 2a B: Imdusiran (60mg Q8W) + NA + Follow-up **POC Clinical** Durvalumab (low dose at 2 pre-specified times) (48 weeks) Trial C: Imdusiran (60mg Q8W) + NA + Durvalumab (low dose at 2 pre-specified times) Imdusiran in combination Weeks 1 48 with NA therapy and intermittent low doses of durvalumab, an anti-PD-L1 monoclonal antibody Primary objective: evaluate safety, tolerability and antiviral activity of imdusiran and NA therapy in combination with durvalumab Screening initiated in 1H 2024 N=30 virologically-suppressed patients randomized into 3 separate cohorts Arbutus POC: Proof of Concept © 2024 Arbutus Biopharma, Inc. 17

Imdusiran

Strategic Collaboration

QILU PHARMACEUTICAL

Exclusive Licensing* and Strategic Partnership

Develop, manufacture and commercialize imdusiran in mainland China, Hong Kong, Macau and Taiwan

*ABUS retains the non-exclusive right to develop and manufacture in the QIIu territory for exploiting A8-729 in the rest of the world



Deal economics for Arbutus:

\$40M	Upfront payment (received in 2022)
\$15M	Equity investment (received in 2022)
Up to \$245M	Commercialization and milestone payments
Double-digit up to low twenties %	Tiered royalties on annual sales

Qilu Pharmaceutical:

One of the leading pharmaceutical companies in China, provides development, manufacturing, and commercialization expertise to this partnership



Oral PD-L1 Inhibitor



AB-101: Oral PD-L1 Inhibitor for HBV Immune Reactivation

Rationale

- HBV immune tolerance is a critical driver of cHBV infection
- PD-1:PD-L1 checkpoint axis plays a key role in immune tolerization in cHBV
- PD-L1 expression upregulated during HBV infection
- PD-1 upregulated on HBV-specific Tand B-cells
- Inhibition associated with HBsAg loss in some cHBV patients

Small-Molecule Inhibitor Approach

- · Allows controlled checkpoint blockade
- Enables oral dosing
- Designed to reduce systemic safety issues seen with Abs

AB-101

- Blocks PD-L1/PD-1 interaction at subnM concentrations
- Activates HBV-specific immune responses in T-cells from cHBV patients in vitro
- Novel MOA identified
- Demonstrates a robust checkpoint mediated in vivo effect
- Improves HBV-specific T- and B-cell responses ex vivo

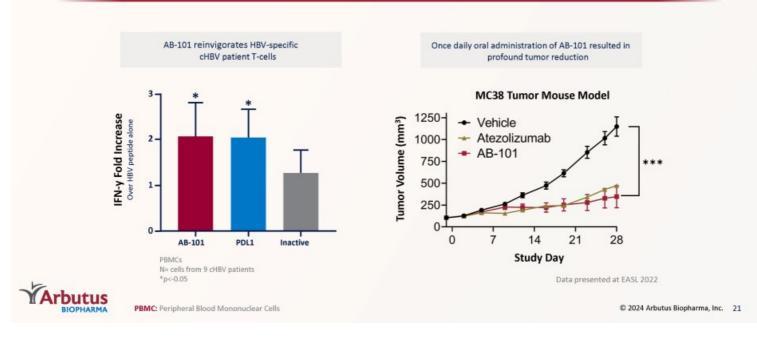
Currently in a Phase 1a/1b clinical trial



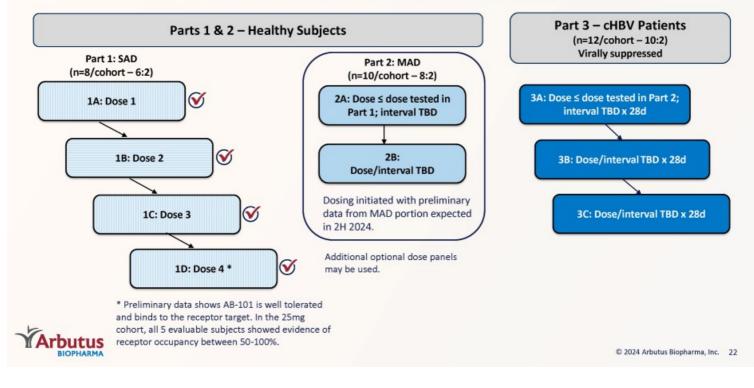
PD-1: Programmed death ligand protein | Abs: Antibodies

AB-101: Small-Molecule Oral PD-L1 Inhibitor for HBV

AB-101 is highly potent and activates HBV specific immune cells from chronic HBV patients



AB-101-001: Phase 1a/1b Clinical Trial with AB-101



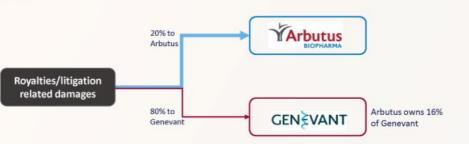
LNP Litigation: Update

Moderna - Trial date April 21, 2025*

- Fact discovery on-going
- Markman Hearing occurred February 8, 2024 judge heard arguments on claim construction.
 - Court provided ruling on April 3 and agreed with Arbutus's position on the majority of the claims
- Next Steps
 - Expert reports / depositions

O Pfizer

- Lawsuit ongoing
- · Date for claim construction hearing has not been set



*Above referenced date is included in the 2/27/2024 Court's Scheduling Order Extension and is subject to change.

Arbutus

2024 Key Milestones

Cash balance* of \$138M as of March 31, 2024, cash runway through Q2 2026; 2024 net cash burn between \$63M and \$67M

	Milestone	Anticipated Timing 2024	
	IM-PROVE I Phase 2a (imdusiran + IFN): End-of-treatment data	1Н 🎯	
	IM-PROVE II Phase 2a (imdusiran + VTP-300): End-of-treatment data	1H	
	IM-PROVE III (imdusiran + durvalumab): Initiate Phase 2a clinical trial	1Н 📎	
	AB-101-001: Preliminary data from healthy subject cohorts	1Н 🔗	
	IM-PROVE II Phase 2a (imdusiran + VTP-300 + nivolumab): End-of-treatment data	2Н	
	AB-101-001: Preliminary data from multiple-ascending dose healthy subject cohorts	2Н	
TArt	*Consists of cash, cash equivalents and marketable securities DUCUS IOPHARMA	© 2024 Arbutus Biopharma, Ir	nc. 24



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Thank You