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ABVC BioPharma Business Model



Discovery

Translation

Commercialization

- ✓ Identify promising drugs or medical devices that have successfully completed preclinical studies and/or Phase I safety studies at worldrenowned research institutions
- ✓ In-license compounds and devices of interest to further develop

- Conduct Phase I and Phase II clinical studies to demonstrate safety and efficacy profiles
- ✓ Upon successful completion of Phase II trials, ABVC seeks to out-license or sell the asset to a large pharmaceutical company
- ✓ Earn royalties from licensing transactions

Our Clinical
Study Partners:













Financial and Strategic Highlights



Key Financial Achievements²:

Revenue Growth: \$117,142 in Q2 2024, up from \$6,109 in Q2 2023.

Earnings Per Share (EPS): Improved to -\$0.09 in Q2 2024, up 86.8% from -\$0.68 in Q2 2023.

Shareholders' Equity: \$7.8 million as of June 30, 2024.

Patent and FDA Approvals:

MDD and ADHD Treatments: Multiple patents received in the US, Taiwan, and Australia.

Phase II trials completed for MDD; Phase IIb trials ongoing for ADHD.

Strategic Licensing Agreements^{1,4}:

Psychiatric Drug with AiBtl BioPharma, Inc.: Potential income: Up to \$667 million. Upfront payments: \$460M received (46M shares at \$10 per share³) in November 2023. Potential milestone payment: \$7 million in cash.

Vitargus® Licensing with ForSeecon Eye Corporation: Potential income: Up to \$187 million. Milestone payment received: \$116,000 in June 2024. Vitargus® was approved for the next trial phase by the Australian TGA. GMP facility construction is underway in Taiwan.

Oncology Products Licensing with OncoX BioPharma, Inc.: Potential income: Up to \$105 million.



Management

Leadership Team





Uttam Yashwant Patil, PhD Chief Executive Officer and Interim CFO









Chief Financial Officer¹





T. S. Jiang, PhD Chief Scientific Officer









Yih-Shiou Hwang, MD, PhD







Maurizio Fava, PhD







Susanna Cunningham-Rundles, PhD







Thomas Laughren, PhD



Keith McBurnett, PhD



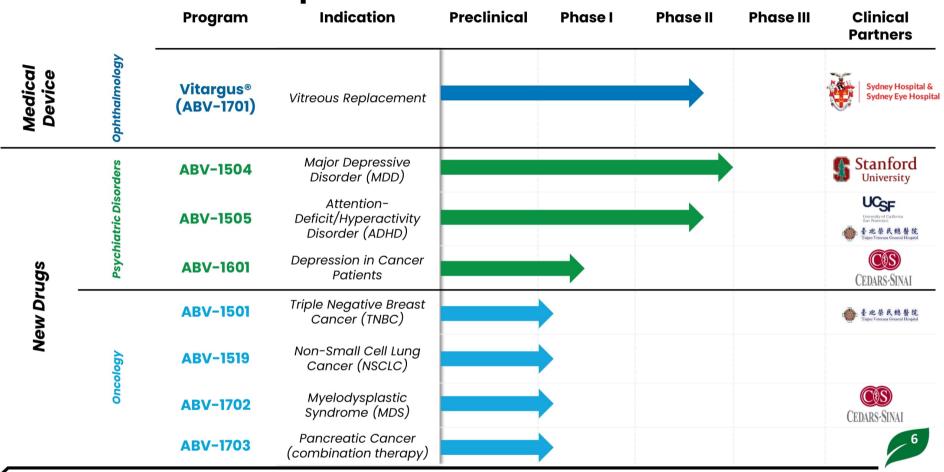






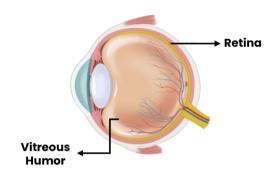
Robust & Diverse Pipeline





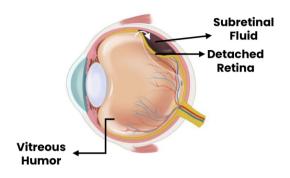
Vitargus® for Retinal Detachment & Vitreous Hemorrhage





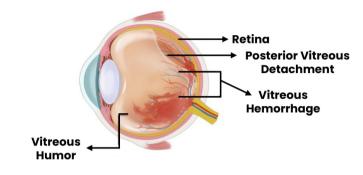
Healthy Eye

Vitargus® is a Vitreous substitute that could potentially be used in retinal detachment and vitreous hemorrhage surgeries to accelerate healing and eliminate the need for a second surgery



Detached Retina

- · Macular Hole
- Macular Pucker



Vitreous Hemorrhage

- · Diabetic Retinopathy
- Retinal Vein Occlusion
- Vitreous Body Injury

Vitrectomy Surgery



Vitargus®: Solving an Unmet Need



Key Takeaways

- Vitreous is a gel-like substance that helps the eye maintain a round shape and keeps the retina in place during and after retinal re-attachment surgery.
- **Current Vitreous substitutes** (Air, Silicone oil, Octafluoropropane, Sulfur hexafluoride) have disadvantages^{2, 3,4} that often lead to medical complications and additional surgeries
- · Leveraging Vitargus®, the patient does not need to remain in a face-down position and has improved visual acuity, as demonstrated in clinical trials

- **Functions of Vitreous Substitute**
- Fill up the vacant space after vitrectomy to maintain the eve shape
- Provide retina support for preventing re-detachment

- **Current Short-term Vitreous Substitutes**
- Air, Octafluoropropane (C_3F_8) or Sulfur hexafluoride (SF_8)
- Readily absorbed
- Maintaining face-down position (a week)
- Retinal re-detachment easily
- **Current Long-term Vitreous Substitutes**
- Silicone oil, Perfluoron™
- Emulsification
- Requires a second surgery to remove
- Long-term implant complications

15% of retinal re-attachment surgeries fail with silicone oil1

^{4.} Expert Reviews: Vitreous Substitutes Vitreous Substitutes: Old and New Materials in Vitreoretinal Surgery

National Library of Medicine

Vitargus® Total Addressable Market



~225,000 vitrectomies are performed annually in the U.S. alone¹

\$2,280 cost of Perfluoron Kit³ (sold by Alcon Labs and distributors)

~\$500M+ Annual Market

The U.S. remains the largest market, however, the demand in Asia-Pacific represents the fastest growing market⁴

ABVC plans to develop and commercialize Vitargus® in Asia and Europe prior to seeking FDA approval

Reimbursed indication growth^{1, 2}

~900k patients with diabetic retinopathy in the U.S. have "vision-threatening" retinopathy but are not eligible for vitrectomy surgery due to age, coverage, and various other factors



Vitargus® for Retinal Detachment & Vitreous Hemorrhage



Vitargus® Advantages:

Best-in-Class Hydrogel Vitreous Substitute

- Aqueous formulation for ocular injection;
 Gelation within 3 minutes at body temperature
 & removes need to lie face down
- Raw material is hyaluronic acid, a natural substance in the body
- Biodegradable substance eliminates the need for second surgery
- Does not cause high intraocular pressure (low thermal expansion coefficient)
- 5 Able to see clearly right after the treatment

	Vitargus®	Air /Gas	Silicone Oil /Perfluoron
Face up positioning	\checkmark	X	X
1- day vision recovery	\checkmark	X	X
Does not require 2 nd surgery	\checkmark	\checkmark	X

Vitargus® is believed to be superior to current vitreous substitutes by reducing patient discomfort and need for second surgery while enabling a quick recovery

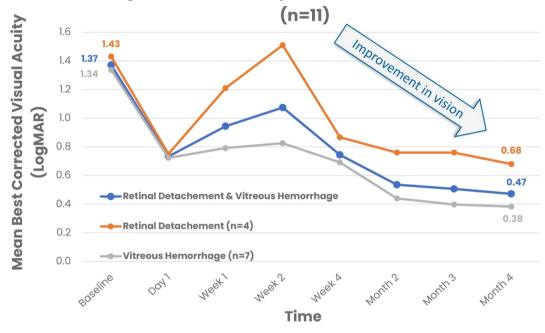


Vitargus®: Completed First in Human Feasibility Study¹

Key Takeaways

- Vitargus® was well-tolerated with no apparent toxicity to ocular tissues
- A statistically significant improvement from baseline in best corrected visual acuity (BCVA)
- The optical properties of Vitargus® allowed the patients to see well and facilitated visualization of the fundus immediately following surgery.
- Vitargus® sets as a stable semisolid gel adhering to the retina and maintains its position without the need of face-down positioning.

Significant BCVA Improvement Over 4 Months



Best Corrected Visual Acuity (BVCA) is the standard to assess visual acuity, or 'sharpness of vision' measured by the ability to perceive letters and numbers. The lower score indicates the ability to read further down the ETDRS Chart.

Vitargus® Phase II Clinical Study

ABVC BIOPHARMA

Initiated in March 2023, expected to be completed 2H 2024¹

Key Inclusion Criteria

- Uncomplicated retinal detachment, defined as the first instance of a small macular hole and retinal tears.
- Diagnosis of vitreous hemorrhage that requires vitrectomy surgery.
- BCVA (Best Corrected Visual Acuity) of 20/40 to 20/2000.
- Able to provide written informed consent, attend all scheduled visits, and comply with all study procedures.

Multi-center, randomized open-label n=40

Active Vitargus® Arm (n=20)

Enrolling 20 patients to receive Vitargus® in conjunction with a Vitrectomy

Active Comparator Arm (n=20)

Enrolling 20 patients to receive SF₆ Gas OE in conjunction with a Vitrectomy

Primary Endpoint

To assess the safety and effectiveness of the ABV-1701 OE when compared to the SF_6 Gas OE.

Key Secondary Endpoints

- Efficacy for retinal attachment repair
- 2. Hydrogel degradation at day 90
- 3. Best Corrected Visual Acuity (BCVA) post Vitrectomy



The unique properties of Vitargus® hold promise for its use following a vitrectomy. ²

-Andrew Chang, MBSS, PhD

American Academy of Ophthalmology (AAO) 2019, San Francisco



- . Clinicaltrials.gov (NCT05414747)
- 2. Retina 2019, Section IX: First-time Results of Clinical Trials, page 64



Botanical-Based Pipeline for Psychiatric Disorders

Developing a suite of botanical-based assets to combat rising addiction

ABV-1504 Major Depression Disorder (MDD)

ABV-1505
Attention-Deficit/Hyperactivity
Disorder (ADHD)

ABV-1601

Depression in Cancer Patients

Clinical Status	Phase II completed	Phase IIa completed, Phase IIb in progress	Phase I initiated
Safety	No SAE's directly from the drug have been reported	No SAE's directly from the drug have been reported	No SAE's directly from the drug have been reported
U.S. Addressable Patient Population	~9 million adults (medication-treated MDD ¹)	~11 million adults ⁵	~1.9 million newly diagnosed cancer patients / year ⁶ (~247k w/ depression ⁷)
U.S. Market Size	~\$12.4 billion ²	~\$10 billion ^{3,4}	~\$342 million annually ²



ABV-1504: Innovative Botanical Asset for MDD

IP-Protected Process

- 1 Raw Materials (dry roots of Yuan Zhi)
- 2 Extraction
- 3 Purification
- 4 Isolation
- 5 Encapsulation

No methylation process required

ABV-1504 Summary Highlights

- ABV-1504 (PDC-1421 capsule) is a singleherb botanical drug extract from the dry root of *Polygala tenuifolia* Willd
- Safety assessment: Demonstrated its safety with no SAEs from the completed Phase I and Phase II studies.
- Efficacy assessment: Demonstrated its efficacy for treating Major Depressive Disorder (MDD) patients from the Phase II clinical studies.
- Stability at least 36 months post encapsulation

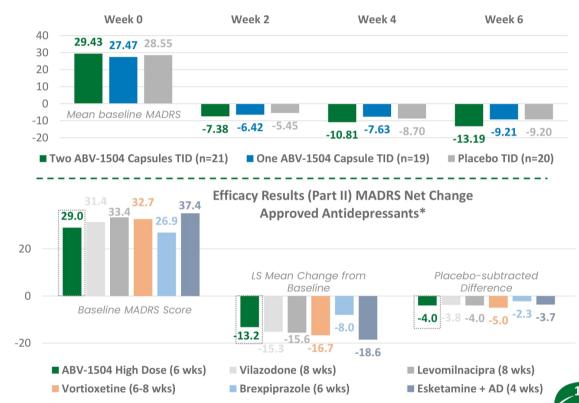
ABV-1504 Completed Phase II Highlights



Efficacy Results (Part II) MADRS Net Change - ITT

Key Takeaways

- The High-Dose group (760 mg TID) of ABV-1504 demonstrated a clinically meaningful score in MADRS compared to the Placebo group.
- Compared with prior approved Fluoxetine(Prozac) antidepressant, ABV-1504 High-Dose demonstrated a much better MADRS score (4.1point reduction) from Placebo group than that of Fluoxetine (2.3-point reduction).
- Treatment of ABV-1504 did not increase any risks in terms of vital signs, physical exams, suicidal ideation, and suicidal behavior during treatment and follow-up period.
- No severe adverse events (SAEs) occurred.
- Demonstrated ABV-1504 was safe and well-tolerated for further clinical advancement.



ABV-1504 Phase III Clinical Plan



Plans to initiate after the end of Phase II meeting with the FDA expected in 2024

Key Inclusion Criteria

- · Outpatient adults 18-75 years old
- Met criteria for MDD without psychotic features as defined by the Diagnostic and Statistical Manual of Mental Disorders, Fourth Edition Test Revision (DSM-IV-TR)
- 17-item HAM-D total score ≥ 20 and CGI total score ≥ 4

Multi-National, Randomized (1:1:1), Double Blind Study n=60

Participants to receive one 380mg ABV-1504 capsule and one placebo three times / day (TID)

Participants to receive two 380mg ABV-1504 capsule three times / day (TID)

Participants to receive two placebo capsules three times / day (TID)

Primary Endpoint

Change from Baseline to Week 8 on the MADRS (Montgomery-Asberg Depression Rating Scale) total score

Key Secondary Endpoints

- HAM-D-17, CGI, SDS, and HAM-A change from baseline to Week 2, 6 and 8)
- Percentage of responders (defined as ≥ 50% decrease from baseline in total score) in MADRS by Week 6 and 8
- 3. Percentage of participants in MADRS remission at Week 6 and 8 (remission defined as MADRS total Score ≤ 10)



Plant-derived treatments may be more attractive to patients with depression, who may be hesitant to take pharmaceuticals.

-Charles DeBattista, MD

Professor of Psychiatry and Behavioral Sciences, Stanford University





ABV-1505: Innovative Botanical Asset for ADHD

IP-Protected Process

- 1 Raw Materials (dry roots of Yuan Zhi)
- 2 Extraction
- 3 Purification
- 4 Isolation
- 5 Encapsulation

No methylation process required

ABV-1505 Summary Highlights

- ABV-1505 (PDC-1421 capsule) is a singleherb botanical drug extract from the dry root of Polygala tenuifolia Willd
- Safety assessment: Demonstrated its safety with no SAEs from the completed Phase I and Phase II (Part I) clinical studies.
- Efficacy assessment: Demonstrated its efficacy for treating ADHD patients from the completed Phase II clinical studies (Part I).
- IP Protection: Global patent granted including US, EU and Asian countries.

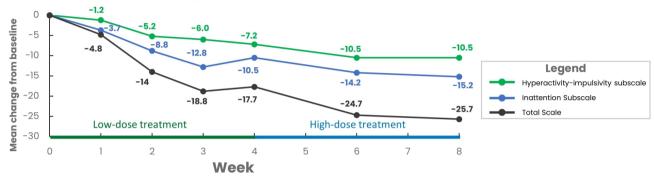


ABV-1505 Completed Phase IIa in Adults with ADHD¹

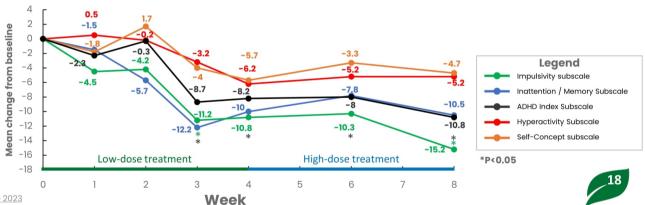
ITT Population Mean Change of ADHD-RS-IV Score from Baseline

Key Takeaways

- Mean change of ADHD-RS-IV Score from baseline to 8 weeks treatment were:
 - 83.3% (5/6) subjects in the ITT population and 80% (4/5) subjects in the PP population achieved an improvement of 40% or greater in ADHD Rating Scale (Primary Endpoint).
- Mean change in CAARS-S:S from baseline to 8 weeks treatment were:
 - -10.8 and -15.2 (p=.0313) in the ITT population
 - -10.6 and -14.0 (p=.0625) in the PP population
- No severe adverse events (SAEs)or deaths occurred.



ITT Population Mean Change of CAARS:S-S Score from Baseline



1. ABVC BioPharma Presents ABV-1505 Phase IIa Results at APSARD 2023

ABV-1505 Phase IIb Clinical Plan



Initiated April 2023, expected to be completed by end of Q4-2024

The study will enroll 69 subjects initially. After 8 weeks, an interim analysis will be conducted to determine if it is necessary to enroll an additional 30 subjects

Key Inclusion Criteria

- Ability to discontinue use of psychotropic medications for the treatment of ADHD symptoms at screening
- Meet operational criteria for Adult ADHD according to the Diagnostic and Statistical Manual of Mental Disorders, 5th edition (DSM-5)
- Total score of 28 or higher of ADHD Rating Scale-Investigator Rated (ADHD-RS-IV)
- Have moderate or severe symptoms of ADHD with a score of 4 or higher in Clinical Global Impression-Severity (CGI-S) at screening

Multi-center, Randomized (1:1:1), Double-Blind, Placebo-controlled (n=99)

Participants to receive one 380mg ABV-1504 capsule and one placebo three times / day (TID)

Participants to receive one 380mg ABV-1504 capsule and one placebo three times / day (TID)

Participants to receive one 380mg ABV-1504 capsule and one placebo three times / day (TID)

Primary Endpoint

Improvement of 40% or more in ADHD Rating Scale-Investigator Rated (ADHD-RS-IV) from baseline to 8 weeks

Key Secondary Endpoints

- Safety and incidence of Adverse Events and Serious Adverse Events
- 2. Symptom Remission in ADHD-RS-IV total score ≤ 18 up to 8 weeks
- Change from baseline in ADHD-RS-IV, CAARS-S:S and E-SCT score up to 8 weeks
- 4. CGI-I score of 2 or lower up to 8 weeks treatment



Based on its well-tolerated safety profile and preliminary efficacy shown in Phase IIa study, ABV-1505 has promise as a treatment for ADHD.*

-Keith McBurnett, PhD

Professor of Psychiatry at UCSF, San Francisco

*As stated at the 2023 Conference of the American Professional Society of ADHD and Related Disorders (APSARD) Poster Session

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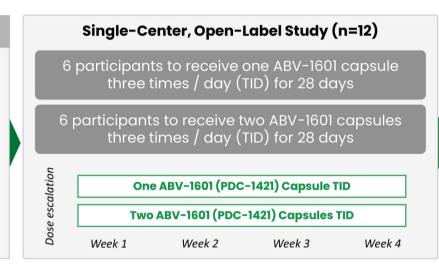
ABV-1601 Phase I Clinical Plan

Initiated Q3 2024, expected to be completed by end of 2025



Key Inclusion Criteria

- Confirmed diagnosis of Stage I, II, or III cancer & Histologically-proven malignancy
- Receiving or within one year of receiving cancer treatment with radiation and/or chemotherapy
- Montgomery-Åsberg Depression Rating Scale (MADRS) ≥ 20 (moderate to severe depressive symptoms)
- Duration of depressive symptoms ≥ 2 weeks by patient report.
- No active/acute suicidality requiring immediate care or psychiatric hospitalization



Primary Endpoint

Safety, AE's, and SAE's related to ABV-1601

Score on the Therapeutic Effect subscale of the CGI Efficacy Index

Score on the Side Effects subscale of the CGI Efficacy Index

Score on FIBSER questionnaire C-SSRS rating scale

Key Secondary Endpoints

 Change in MADRS total score and HADS total score from baseline to Week 1-5



Scott Irwin, MD, Ph.D., and the lead investigator of this study are continuing to work towards understanding the safety of ABV-1601 at similar doses in several other studies.

-Scott Irwin, MD, PhD

Professor of Psychiatry & Behavioral Neurosciences, Cedar-Sinai

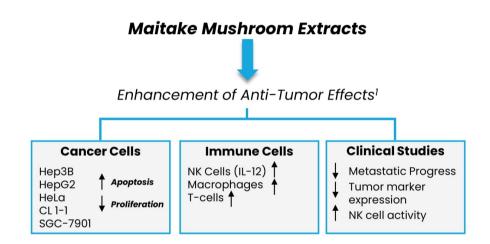


Early-Stage Oncology Pipeline Overview



Maitake API Overview: BLEX 404

- The API of our early-stage oncology portfolio is BLEX 404, a beta-glucan characterized by a beta-1,6-linked glucose core with beta-1,3linked glucose branches and beta-1,3-linked glucose core with beta-1,6-linked glucose branches
- The drug substance, BLEX 404 used for the study is the MD-fraction of Grifola frondosa, extracted and fractionated from mycelia and fruit bodies of Maitake mushroom.
- The drug product BLEX 404 is formulated into an oral liquid dosage form (40 mg/mL of BLEX 404).



Early-Stage Oncology Pipeline Overview (Cont.)



External Research Demonstrating Improved Cancer Symptoms with Maitake Mushroom¹

Nonrandomized clinical trial with
Maitake D-Fraction

22-57-year-old cancer patients
(Stage II-IV cancers)

Cancer regression or significant symptom improvement

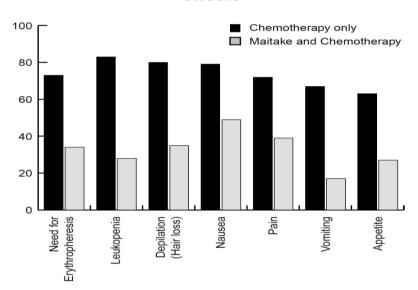


58.3% Liver cancer patients (11/16) 68.8% Breast cancer patients (7/12) 62.5% Lung cancer patients (5/8) < 10-20% Improvement



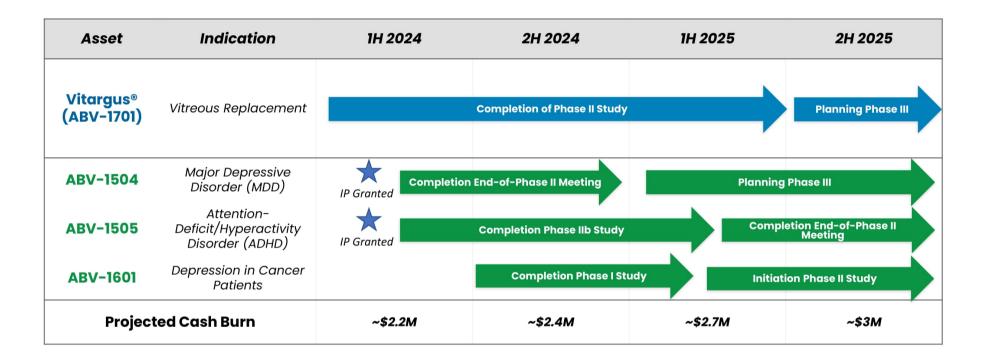
Leukemia patients
Stomach cancer patients
Brain cancer patients

Amelioration of chemotherapeutic sideeffects¹



Near-Term Milestones & Use of Proceeds





Multiple near-term clinical catalysts expected by the end of 2024



NASDAQ: ABVC

Uttam Patil Ph. D. 44370 Old Warm Springs Blvd. Fremont, California 94538

uttam@ambrivis.com

Investor Relations Contact:

(845) 291-1291 info@ambrivis.com