ADMA Biologics
GROUNDBREAKING IMMUNOTECHNOLOGY, ONE CONNECTION AT A TIME
Jefferies 2019 London Healthcare Conference
November 20, 2019

Nasdaq: ADMA
This presentation contains “forward-looking statements,” pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995, about ADMA Biologics, Inc. ("we," “our” or the “Company”), including, without limitation, statements that may predict, forecast, indicate, or imply future results, performance or achievements. Such statements may contain the words “estimate,” “project,” “intend,” “target,” “anticipate,” “plan,” “expect,” “believe,” “will,” “is likely,” “will likely,” “should,” “would,” “may” or, in each case, their negative, or words or expressions of similar meaning. These forward-looking statements also include, without limitation, statements relating to: our future and ongoing objectives; our plans to develop, manufacture, market, launch and expand our own commercial infrastructure and commercialize our current products and future products; our belief that we are positioned to penetrate the growing immune globulin market; our plans to expand our pipeline with differentiated immune globulin product candidates in development; potential near and mid-term value creation through certain milestones; the possibility of expanding our product portfolio with additional specialty immune globulin products; the safety, efficacy and expected timing of, and our ability to, obtain and maintain regulatory approvals of our current products, product expansions into new fields of use, indications and product candidates, and the labeling or nature of any such approvals; our ability to obtain adequate quantities of U.S. Food and Drug Administration ("FDA")-approved plasma with proper specifications; our plans to increase our supplies of plasma; our ability to expand our plasma center network, regulatory processes, interpretations of final data of our products and product candidates; acceptability of any of our products for any purpose, by physicians, patients or payers; possible additional reimbursed evidence-based uses for immune globulin products; estimates relating to our plasma processing capacity; the likelihood and timing of FDA action with respect to any further filings by the Company, results of clinical development, the potential of specialty plasma-derived biologics to provide meaningful clinical improvement for patients living with Primary Immune Deficiency Disease (“PI”); our ability to market and promote our products in the competitive environment and to generate meaningful revenues; our projected year over year growth, anticipated through 2025; our ability to increase market share and grow revenue through anticipated product launches; potential clinical trial initiations; potential investigational new product applications, Biologics License Applications, and expansion plans; our intellectual property position, including our expectations of the scope of patent protection with respect to our products or other future pipeline product candidates; our belief that our intellectual property position and manufacturing capabilities establish a platform for developing future specialty immune globulin products; the achievement of clinical and regulatory milestones; our manufacturing capabilities; third-party contractor capabilities and strategy; our plans relating to manufacturing, supply and other collaborative agreements; potential contract manufacturing opportunities and sales of fractionation, intermediates to add accretive revenues; our estimates regarding expenses, capital requirements and needs for additional financing; possible or likely reimbursement levels for our currently marketed products and estimates regarding market size; projected growth and sales for our existing products as well as our expectations of market acceptance of BIVIGAM® and ASCENIV™; future economic conditions and performance; expectations for future capital requirements; commercialization efforts relating to our products and the runway and limitation of our available cash; and our ability to identify alternative sources of cash. The forward-looking statements contained herein represent the Company’s estimates and assumptions only as of the date of this presentation, and the Company undertakes no duty or obligation to update or revise publicly any forward-looking statements contained in this presentation, except as otherwise required by the federal securities laws. Forward-looking statements are subject to many risks, uncertainties and other factors that could cause our actual results, and the timing of certain events, to differ materially from any future results expressed or implied by the forward-looking statements, including, but not limited to, the risks and uncertainties described in our filings with the U.S. Securities and Exchange Commission, including our most recent reports on Form 10-K, 10-Q and 8-K, and any amendments thereto.
WHO WE ARE

ADMA Biologics is a vertically integrated commercial biopharmaceutical company committed to manufacturing, marketing and developing specialty plasma-derived products for the immune-compromised and other patients at risk for infection. It is our devotion to these underserved populations that fuels us, and our hands-on approach to production and development that sets us apart.

Why does what we do matter? Because patients are counting on us.
CORPORATE HIGHLIGHTS

THREE APPROVED AND MARKETED PRODUCTS – MULTI-FACETED REVENUE PLATFORM

• Generated $17M in revenues for full year 2018 and $17.3M for first nine months of 2019
• BIVIGAM and ASCENIV now commercially available in the U.S.
• Revenues derived from commercial products, manufacturing intermediates, source plasma, CDMO/CMO activities

SIGNIFICANT MARKET OPPORTUNITY

• Polyclonal Plasma Derived IG is a U.S. $6B addressable market today; growing to over $9B by 2025 (CAGR ~6%)
• 125,000 patients currently use IG routinely for PI
• IG is widely used and reimbursed in the U.S.
• Recent reports of tight IG supply in the U.S. leaving certain caregivers IG requirements underserved

FDA APPROVED PLASMA THERAPEUTICS MANUFACTURING FACILITY

• 400,000L peak plasma processing capacity can yield ~1.5 million grams of finished immunoglobulin
• ADMA controls its manufacturing and regulatory compliance
• Facility provides further revenue generating opportunities through contract manufacturing and other initiatives

CORPORATE AND FINANCIAL

• Multiple milestones recently achieved and YoY revenue growth
• Staffing to meet anticipated IG production ramp for all 3 ADMA brands
• Experienced leadership team

- Multiple revenue sources, experienced executive leadership team
Near and mid-term value creating milestones
BLOOD & PLASMA COMPOSITION

**Blood Contains:** Plasma, Red Cells, White Cells and Platelets

**Plasma Contains:** Protein and Water

**Plasma Proteins Contain Many Therapeutic Benefits:**

- Intravenous immunoglobulin (IVIG) is made from a key therapeutic protein in plasma: Immunoglobulin (IgG)
- IgG = naturally occurring polyclonal antibodies against bacteria, fungus and viruses
- Other therapeutic products made from plasma proteins include: albumin, coagulation factors, alpha-1, C-1 etc.

**Composition of Blood**

- **45%** Red & White Blood Cells and Platelets
- **55%** Plasma
- **90%** Water
- **60%** Albumin
- **24%** Other
- **15%** IgG
- **1%** Factor VIII
- **3%** Protein
- **7%** Other

ADMA optimized IG manufacturing process includes validation for all intermediate fractions maximizing potential revenue from each L of plasma.
Plasma Products Portfolio & Pipeline

Nasdaq: ADMA
GROWTH DRIVERS: PLASMA IG MARKET IS SIZEABLE & GROWING

**Immune Globulin (IG or IVIG)** is a pooled plasma product from healthy plasma donors, containing a range of polyclonal antibodies against common pathogens.

**IG Is Used to Treat a Wide Variety of Disorders**
- Primary immune deficiencies
- Autoimmune diseases
- Immune-compromised patients
- Neuropathic diseases

**IG Widely Marketed in the U.S.**
7 companies are currently marketing IG, including CSL Behring, Grifols and Takeda

**IG Utilization Increasing due to**
- New research and data
- New markets (emerging countries)
- Aging population

~$6 Billion U.S. Immune Globulin (IG) Market

U.S. IG Market (2010-17)
Billions of dollars

Projected ~6% year over year growth anticipated through 2025

* Plus 2017 ~ $300M Hyperimmune Globulin Sales

Source: ADMA information, on file, AAAAI, FDA, Product prescribing information, United Healthcare, Aetna, L.E.K. Consulting research and analysis
Any market information for IVIG is not necessarily indicative of the expected market for ASCENIV™, BIVIGAM® or Nabi-HB®
IG IS WIDELY USED AND REIMBURSED

<table>
<thead>
<tr>
<th>FDA-Approved Uses*</th>
<th>Possible Additional Reimbursed Evidence-Based Uses</th>
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<tbody>
<tr>
<td>Primary immunodeficiency (PI)</td>
<td>Acquired red cell aplasia</td>
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<tr>
<td>Multifocal motor neuropathy</td>
<td>Bone marrow transplantation</td>
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<td>B-cell chronic lymphocytic leukemia</td>
<td>Dermatomyositis</td>
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<td>Immune thrombocytopenic purpura</td>
<td>Enteroviral meningoencephalitis</td>
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<td>Kawasaki syndrome</td>
<td>Established bacterial sepsis</td>
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<td>Chronic inflammatory demyelinating polyneuropathy</td>
<td>Multiple sclerosis</td>
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<td></td>
<td>Multiple myeloma</td>
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<td></td>
<td>Myasthenia gravis</td>
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<td></td>
<td>Neonatal hemochromatosis</td>
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<td></td>
<td>Parvovirus B19</td>
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<td>Pediatric HIV</td>
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<td>Post transfusion purpura</td>
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<td>Rasmussen’s syndrome</td>
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<td></td>
<td>Renal transplant from liver donor</td>
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<td></td>
<td>Solid organ transplantation</td>
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<td></td>
<td>Staphylococcal toxic shock</td>
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<td></td>
<td>Systemic lupus erythematosus</td>
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<tr>
<td></td>
<td>Toxic epidemal necrolysis</td>
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</tbody>
</table>

Payers appreciate and understand the proven, evidence-based benefits of IG

* Not all uses approved for all IG products by FDA.
Source: ADMA information, on file, AAAAI, FDA, Product prescribing information, United Healthcare, Aetna, L.E.K. Consulting research and analysis
COMMERCIAL PRODUCTS: 3 BRANDS IN AN EXPANDING IG MARKET

**ASCENIV™**
(Immune Globulin Intravenous - sIgA, Human)

**FDA-APPROVED PROTECTION AGAINST SERIOUS INFECTIONS**
- Indicated for the treatment of patients with PI
- Contains a wide spectrum of polyclonal antibodies against endemic pathogens
- Manufactured through ADMA’s patented process using source plasma that is collected from donors screened using a microneutralization assay to detect and identify which donors possess naturally-occurring neutralizing antibody titers to Respiratory Syncytial Virus (RSV)

**BIVIGAM®**
(Immune Globulin Intravenous, Human)

**FDA-APPROVED PROTECTION AGAINST SERIOUS INFECTIONS**
- Indicated for the treatment of patients with PI
- Contains a wide spectrum of polyclonal antibodies against endemic pathogens

**NABI-HB®**
(Hepatitis B Immune Globulin, Human)

**FDA-APPROVED TO PROVIDE ENHANCED IMMUNITY AGAINST HEPATITIS B**
- Successfully used for over 17 years to protect against Hepatitis B infection among newly exposed individuals
- Manufactured from plasma obtained from vaccinated donors with high titers of human antibodies to Hepatitis B surface antigen, anti-HBs
**PI IS A SIGNIFICANT MARKET OPPORTUNITY FOR ADMA**

- **~250,000 PI PATIENTS** in the U.S.
- **~50%** are treated with IG

**THE ADMA PORTFOLIO OF IG PRODUCTS** offers alternatives and can help treat major subsets of the PI population

At present, IVIG and IG products are listed in tight supply on drug shortage list

### Potential Target Population

<table>
<thead>
<tr>
<th>Class</th>
<th>Est. Incidence (U.S.) Population</th>
<th>Target Population Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Variable Immune Deficiency (CVID)</td>
<td>1 in 25,000 to 1 in 50,000 (7,000-14,000 patients)</td>
<td>2,000 to 5,000 patients</td>
</tr>
<tr>
<td>Severe Combined Immune Deficiency Syndrome (SCID)</td>
<td>New diagnoses of ~100 cases reported each year</td>
<td>500-1,000 patients on IVIG post transplant</td>
</tr>
<tr>
<td>Wiskott-Aldrich Syndrome (WAS)</td>
<td>4 in every 1,000,000 males has the disorder – sometimes not diagnosed until adulthood</td>
<td>600 patients on IVIG therapy</td>
</tr>
<tr>
<td>DiGeorge Syndrome (DGS)</td>
<td>1 in 4,000 births suffers from DGS (700-800 patients)</td>
<td>1,000 patients receive IVIG therapy</td>
</tr>
<tr>
<td>Ataxia Telangiectasia (AT)</td>
<td>1 in 40,000 to 1 in 100,000</td>
<td>3,000 to 8,000 patients</td>
</tr>
<tr>
<td>X-Linked Hyper IgM Deficiency (XHMD)</td>
<td>2 in every 1,000,000 males</td>
<td>350 patients receive IVIG therapy</td>
</tr>
<tr>
<td>X-Linked Agammaglobulinemia (XLA)</td>
<td>1 in 10,000 are diagnosed with XLA (35,000 patients)</td>
<td>3,500 patients are more susceptible to viral infections</td>
</tr>
</tbody>
</table>

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**BIVIGAM® and ASCENIV™** Commercially Marketed
Positions ADMA to Penetrate the Growing IG Market & Service Tight Supply Needs for Clinicians & Patients

Source: ADMA information, on file, AAAAI, FDA, Product prescribing information, United Healthcare, Aetna, L.E.K. Consulting research and analysis
**ADMA IS AN ADVOCATE FOR THE PI PATIENT**

*Different Patient Types Present with Different Risks for Infection*

### Risk Factors for Infection in PI

- Type and severity of immune deficiency
- Age
- Impaired pulmonary function
  - Bronchiectasis
  - Asthma
  - History of respiratory infection/environmental conditions
  - Chronic lung disease

### Risk Factors for Infection in PI

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>63%</td>
<td>of respondents reported having asthma, 13% have COPD</td>
</tr>
<tr>
<td>46%</td>
<td>of PI patients reported they suffer from chronic lung conditions</td>
</tr>
<tr>
<td>40%</td>
<td>of PI patients report lung infections and other infections in the prior 12 months</td>
</tr>
<tr>
<td>~6%</td>
<td>of PI patients reported being hospitalized in the prior 12 months due to lung impairments</td>
</tr>
</tbody>
</table>

One infection is one too many!
Each time a PI patient gets a serious infection, irreparable damage occurs.
DISCOVER THE NOVELTY OF ADMA’S PATENTED IMMUNOTECHNOLOGY USED TO MANUFACTURE ASCENIV™

SCREEN AND IDENTIFY HIGH-TITER DONORS
Hyperimmune donors with high-titer antibodies to select pathogens are identified

TAILORED COMPOSITIONS
Tailored plasma pools are derived from a unique blend of normal source plasma and plasma obtained from the tested donors who have been selected due to their sufficient levels of RSV antibodies

PROPRIETARY TESTING
A proprietary microneutralization assay quantitatively measures titer levels of neutralizing RSV antibodies in plasma donor samples

PATENTS ISSUED
9,107,906 - Composition
9,714,283 - Use
9,815,886 - Methods
Expiration 2035
Potential Target Populations for ASCENIV™

As previously disclosed, we believe the FDA approval of ASCENIV™ better positions ADMA to further its mission to evaluate ASCENIV™ in immune-compromised patients infected with or at-risk for Respiratory Syncytial Virus (RSV) infection.

- **HSCT/Bone Marrow Transplant**
  - ~22,000 procedures/year performed in the U.S.

- **Solid Organ Transplant (lung, heart, liver and multi-organ)**
  - ~14,000 solid organ transplants/year (excluding kidney transplants) performed in the U.S.

- **Cancer Patients Receiving Chemotherapy**
  - ~650,000 patients/year receive chemotherapy in the U.S.

- **Others At-Risk for RSV Infection**

Published data suggests additional label expansion opportunities may be explored for ASCENIV™ now that it has FDA approval for PI.
cGMP Compliant Biologics Production Facility and QC Laboratory

Potential Follow-On Specialty Plasma Products

By leveraging ADMA’s IP, know-how and expertise, we may seek to expand our product portfolio with additional specialty IG products by building upon our core competency of identifying high-titer plasma donors and plasma products manufacturing expertise.

We believe ADMA’s IP and manufacturing capabilities establish a platform for developing future specialty IG products targeting problematic pathogens.
Milestones, Corporate Highlights and Financial Information
RECENT MILESTONES & FUTURE OBJECTIVES

RECENTLY COMPLETED

✓ Relaunched BIVIGAM® with first commercial sales in the U.S.
✓ Obtained FDA approval for BIVIGAM® PAS
✓ First Commercial Sales of ASCENIV™
✓ Received FDA approval for ASCENIV™
✓ New license issued/transferred for manufacturing plant, BIVIGAM® and Nabi-HB® (#2019)
✓ Successfully closed-out April 2018 FDA inspection
  ▪ Inspection classification status improved to Voluntary Action Indicated (VAI)
✓ Obtained FDA approval for plasma collection center
✓ Patent issued for S. pneumonia immune globulin

FUTURE & ONGOING OBJECTIVES

• Ongoing commercial launches for BIVIGAM® and ASCENIV™
• Disclose potential product development pipeline consisting of additional specialty plasma and/or hyperimmune IG products
• Evaluate and implement strategy for potential manufacturing capacity expansion
• Expand plasma collection facility network
## Financial Summary: 9/30/19 Results

<table>
<thead>
<tr>
<th>Category</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash and cash equivalents</td>
<td>$48.0M</td>
</tr>
<tr>
<td>Total assets</td>
<td>$137.8M</td>
</tr>
<tr>
<td>Total liabilities</td>
<td>$101.7M</td>
</tr>
<tr>
<td>Total stockholders’ equity</td>
<td>$36.1M</td>
</tr>
<tr>
<td>Revenue (9 months)</td>
<td>$17.3M</td>
</tr>
<tr>
<td>Common stock outstanding</td>
<td>59.3M</td>
</tr>
<tr>
<td>Fully diluted common stock outstanding</td>
<td>67.1M</td>
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*Additional funding commitment of $12.5M available through Perceptive Advisors at ADMA’s option until March 31, 2020*
## EXPERIENCED MANAGEMENT TEAM AND BOARD OF DIRECTORS

<table>
<thead>
<tr>
<th>NAME</th>
<th>SELECTED CURRENT OR PAST AFFILIATIONS</th>
</tr>
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<tbody>
<tr>
<td><strong>Adam Grossman</strong>&lt;br&gt;Founder, President, CEO &amp; Director</td>
<td><img src="image" alt="Medimmune" /> <img src="image" alt="Genesis" /> <img src="image" alt="Genesis Bio-Pharmaceuticals, Inc." /> <img src="image" alt="NATIONAL HOSPITAL SPECIALTIES" /> <img src="image" alt="American Red Cross" /></td>
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<tr>
<td><strong>Brian Lenz, CPA</strong>&lt;br&gt;Executive Vice President, Chief Financial Officer</td>
<td><img src="image" alt="KPMG" /> <img src="image" alt="Biogen" /> <img src="image" alt="CorMedix" /></td>
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<td><strong>James Mond, MD, PhD</strong>&lt;br&gt;Executive Vice President, Chief Scientific Officer &amp; Chief Medical Officer</td>
<td><img src="image" alt="Medical Nexus Incorporated" /> <img src="image" alt="AISLING CAPITAL" /> <img src="image" alt="LOXO" /></td>
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<tr>
<td><strong>Steven Elms</strong>&lt;br&gt;Chairman</td>
<td><img src="image" alt="AISLING CAPITAL" /> <img src="image" alt="Hambrecht &amp; Quist" /> <img src="image" alt="LOXO" /> <img src="image" alt="New York Blood Center" /></td>
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<tr>
<td><strong>Dr. Jerrold Grossman</strong>&lt;br&gt;Founder &amp; Vice Chairman</td>
<td><img src="image" alt="Genesis Bio-Pharmaceuticals, Inc." /> <img src="image" alt="ImmuNo" /> <img src="image" alt="New York Blood Center" /></td>
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<td><strong>Lawrence Guiheen</strong>&lt;br&gt;Director</td>
<td><img src="image" alt="Baxter" /> <img src="image" alt="PPTA" /> <img src="image" alt="KEDRION BIOPHARMA" /></td>
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<tr>
<td><strong>Eric Richman</strong>&lt;br&gt;Director</td>
<td><img src="image" alt="PharmAthene" /> <img src="image" alt="Medimmune" /> <img src="image" alt="HealthCare Ventures LLC" /> <img src="image" alt="LabConnect" /></td>
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<tr>
<td><strong>Dov Goldstein, MD</strong>&lt;br&gt;Director</td>
<td><img src="image" alt="AISLING CAPITAL" /> <img src="image" alt="HealthCare Ventures LLC" /> <img src="image" alt="Vicuron Pharmaceuticals" /> <img src="image" alt="LOXO" /> <img src="image" alt="SCHRODINGER" /></td>
</tr>
<tr>
<td><strong>Bryant Fong</strong>&lt;br&gt;Director</td>
<td><img src="image" alt="BIOMARK CAPITAL" /> <img src="image" alt="NEOS Therapeutics" /></td>
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SUBSTANTIAL REVENUE OPPORTUNITIES AND PRODUCT DEVELOPMENT PLATFORM

- Multiple revenue sources, experienced executive leadership team
- Near and mid-term value creating milestones
Thank You