AETHLON MEDICAL, INC.

INVESTOR PRESENTATION

NASDAQ: AEMD

JUNE 2020



FORWARD LOOKING STATEMENTS

The following presentation may contain predictions, estimates, and other forward looking statements that involve risks and uncertainties, including whether and when our products are successfully developed and introduced; market acceptance of the Aethlon Hemopurifier® and other product offerings; regulatory delays, manufacturing delays, delays in our clinical trials, and other risks detailed in our SEC filings, which are accessible at www.sec.gov or on our website: www.AethlonMedical.com



AETHLON MEDICAL, INC.

Proprietary medical devices for cancer and viral diseases

- HEMOPURIFIER®
 - Two FDA Breakthrough Designations
- EXOSOME SCIENCES, INC.
 - 80% OWNED SUBSIDIARY
 - DIAGNOSTICS FOR CANCER AND CTE / NEUROGENERATIVE DISEASE
- EXPERIENCED MANAGEMENT TEAM
- STRONG CASH POSITION
- NON-DILUTIVE NCI FUNDING FOR MULTIPLE PROGRAMS
- BASED IN SAN DIEGO



THE AETHLON HEMOPURIFIER®



FDA DESIGNATED "BREAKTHROUGH DEVICE" FOR THE TREATMENT OF BOTH LIFE THREATENING GLYCOSYLATED VIRUSES AND THE REMOVAL OF CANCER PROMOTING EXOSOMES THAT ARE NOT ADDRESSED WITH APPROVED THERAPIES

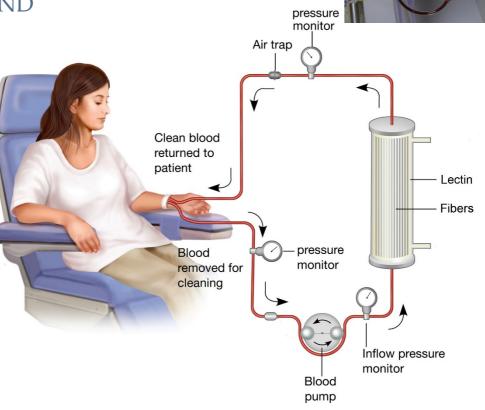


THE AETHLON HEMOPURIFIER

 HOLLOW-FIBER PLASMA SEPARATOR FILLED WITH A
PROPRIETARY AFFINITY RESIN IN THE EXTRA-CAPILLARY
SPACE OUTSIDE OF CARTRIDGE FIBERS

 ABILITY TO CAPTURE ENVELOPED VIRAL PATHOGENS AND EXOSOMES IN CIRCULATING BLOOD

- USED WITH EITHER A DIALYSIS OR CRRT MACHINE
 - PROPRIETARY PUMP CLOSED SYSTEM BEING EVALUATED



THE AETHLON HEMOPURIFIER®

Unique Mechanism of action

COMBINATION MECHANISM OF ACTION

- PLASMA SEPARATION BASED ON SIZE
- EXOSOMES AND VIRUSES ARE OF SIMILAR SIZE

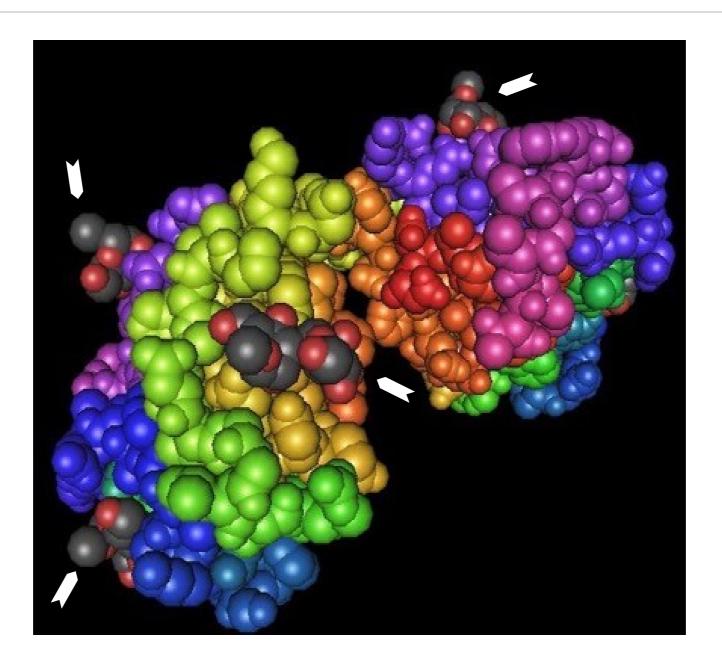
LECTIN CAPTURE BASED ON GLYCOSYLATION (SUGARS)

- BOTH EXOSOMES AND MOST VIRUSES DISPLAY SUGAR MOLECULES ON THEIR MEMBRANES
- LECTINS ARE PROTEINS THAT BIND SUGAR MOLECULES





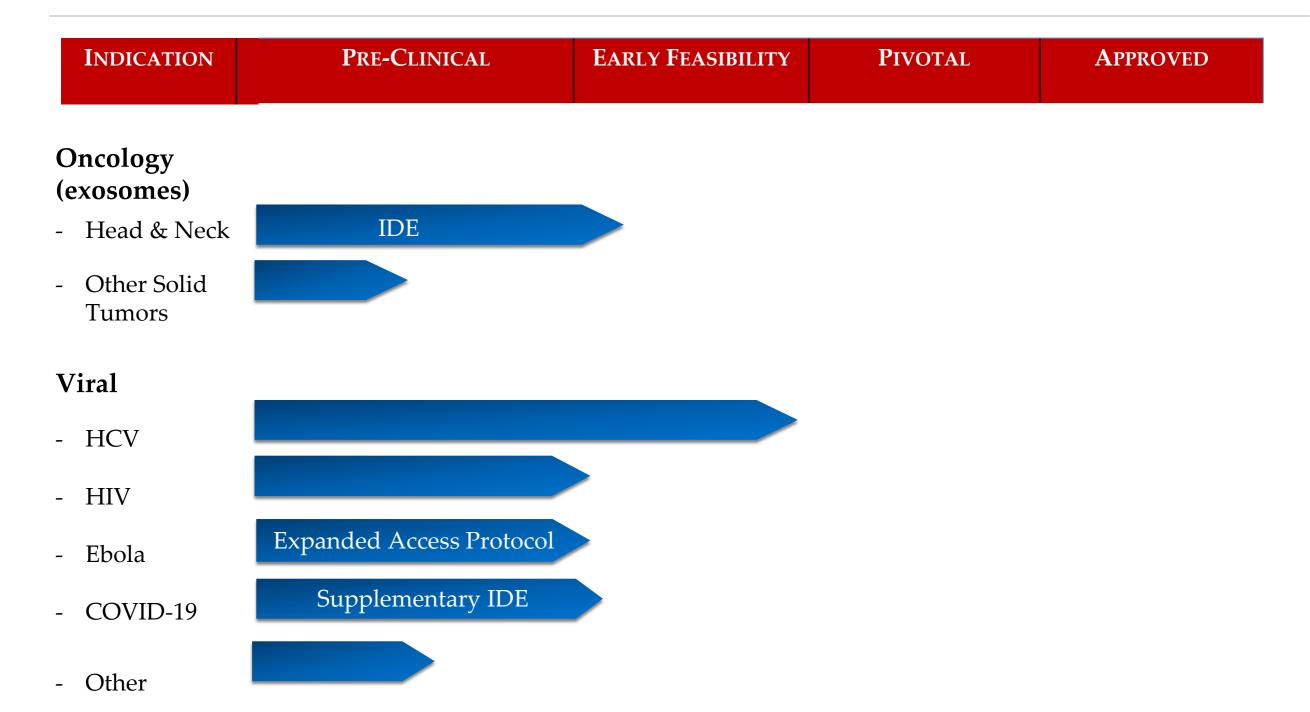
LECTINS ARE PROTEINS THAT BIND SUGAR MOLECULES



Bound mannose molecules in gray



AETHLON PIPELINE





HEMOPURIFIER® PROGRAMS

ONCOLOGY

- CLEARANCE OF CANCER PROMOTING EXOSOMES
- SYNERGISTIC WITH CHEMOTHERAPY, IMMUNOTHERAPY, TARGETED AGENTS
- MULTIPLE POTENTIAL CLINICAL TARGETS
 - BREAST, HEAD AND NECK, GASTROINTESTINAL, MELANOMA, OTHER SOLID TUMORS
- Well Characterized Markets, Development Pathways & Endpoints
- EARLY FEASIBILITY STUDY (EFS) IN HEAD AND NECK CANCER BEING INITIATED



EXOSOMES

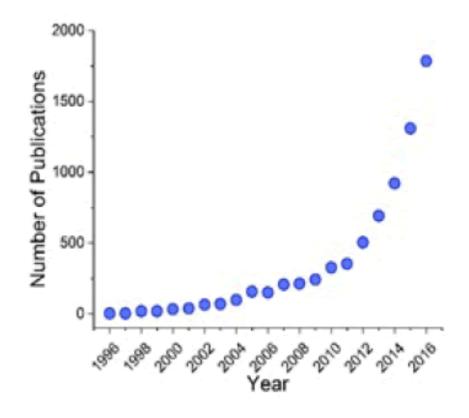
- NOW UNDERSTOOD NOT TO BE CELLULAR GARBAGE
- CRITICAL PLAYERS IN CELL-CELL COMMUNICATION
- TUMOR DERIVED EXOSOMES (TEX) VESICLES RELEASED BY TUMOR CELLS THAT PROMOTE
 - TUMOR GROWTH
 - METASTASIS
 - CHEMOTHERAPY AND TARGETED THERAPY RESISTANCE
 - IMMUNE SUPPRESSION
- NO EXISTING TREATMENT FOR DEPLETING EXOSOMES
- HEMOPURIFIER® MAY REPRESENT FIRST CANDIDATE TOWARD THIS GOAL



EXOSOMES

Previously Unrecognized Targets For Clinical Applications

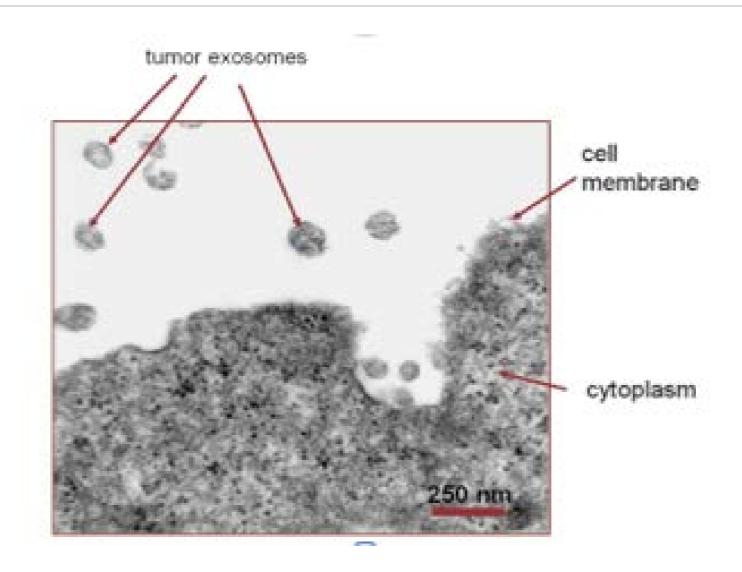
- LARGELY IGNORED BY THE SCIENTIFIC COMMUNITY UNTIL RECENTLY
- IN 2006 ~ 76 PEER-REVIEWED PUBLICATIONS
- More than 5,000 today
- 25% of exosome publications in last 2 years



J Cancer Immunol Ther. 2018; 1(1): 9-16



TUMOR-DERIVED EXOSOMES (TEX)

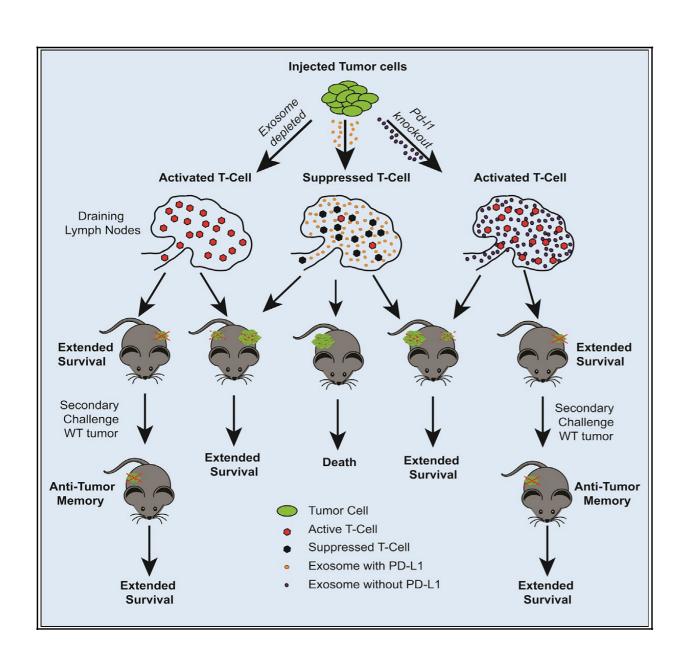


Exosomes being released by a tumor cell





Suppression of Exosomal PD-L1 Induces Systemic Anti-tumor Immunity and Memory



Authors

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In Brief

Exosomal PD-L1 systemically acts to suppress the anti-tumor immune response, and its genetic blockage promotes T cell activity in the draining lymph node to induce systemic antitumor immunity and memory.



NATIONAL CANCER INSTITUTE STUDIES

PHASE I CONTRACT FROM NCI - COMPLETED

"Device Strategy for Differential Isolation of Oncosomes and Non-Malignant Exosomes"

ONGOING NCI SBIR GRANT

"The Hemopurifier® Device for Targeted Removal of Breast Cancer Exosomes from the Blood Circulation"

• PHASE II NCI SBIR CONTRACT – SEPTEMBER 2019

\$1.8 MILLION OVER 2 YEARS

"Technologies for Differential Isolation of Exosomes and Oncosomes"



ONCOLOGY IDE "SPRINT" REVIEW

- ENABLED BY BREAKTHROUGH DESIGNATION
- IDE FILED SEPTEMBER 5TH
- FIRST ROUND OF COMMENTS 3 DAYS LATER
- SIX ADDITIONAL ROUNDS OF COMMENTS
 - SEVEN AMENDMENTS FILED IN 25 DAYS
- APPROVED OCTOBER 4
- AUTHORIZES EARLY FEASIBILITY STUDY (EFS) IN HEAD AND NECK CANCER



EFS IN HEAD AND NECK SQUAMOUS CELL CARCINOMA

- University of Pittsburgh Hillman Cancer Center
- 10-12 SUBJECTS WITH ADVANCED OR METASTATIC HNSSC
- COMBINATION WITH PEMBROLIZUMAB (KEYTRUDA®) AS FRONT LINE TREATMENT
 - KEYTRUDA APPROVED JUNE 2019 IN FRONT LINE SETTING
- 4 HOUR HEMOPURIFIER TREATMENT IMMEDIATELY PRIOR TO PEMBRO
- ENDPOINTS
 - SAFETY
 - EXOSOME CLEARANCE AND CHARACTERIZATION
 - ORR, PFS, OS
- IRB APPROVED START UP IN PROGRESS

HEMOPURIFIER® PROGRAMS

VIRAL DISEASES

- OPEN IDE
- 4 HUMAN CLINICAL TRIALS IN HCV
- ANECDOTAL USE IN OTHER INFECTIONS
- EMERGENCY USE AUTHORIZATION (EUA) IN US AND CANADA FOR EBOLA
- IDE supplement for SARS-CoV-2/COVID-19 approved June 2020



HEMOPURIFIER® IN VIRAL DISEASES

- ALL GLYCOSYLATED VIRUSES POTENTIALLY CLEARED BY HEMOPURIFIER ®
- Demonstrated clearance of multiple different viruses in vitro
 - HIV, DENGUE, WEST NILE, INFLUENZA, EBOLA, HERPES, MERS
 - SARS-COV-2/COVID-19 BEING EVALUATED IDE OPEN
- SAFETY AND VIRAL CLEARANCE IN 4 HUMAN CLINICAL TRIALS IN HCV
- ANECDOTAL EVIDENCE IN EBOLA AND HIV
- FDA EXPANDED ACCESS PROTOCOL FOR EBOLA IN U.S. & HEALTH CANADA EQUIVALENT
- OTHER POTENTIAL VIRAL TARGETS
 - CMV, HANTAVIRUS, EBV



HEMOPURIFIER IN SARS-COV-2/COVID-19

- CIRCULATING VIRUS CORRELATES WITH CYTOKINE LEVELS AND POOR OUTCOME
- HEMOPURIFIER CLEARS VERSION OF CLOSELY RELATED CORONAVIRUS (MERS)
- IDE SUPPLEMENT FOR COVID-19 APPROVED JUNE 17, 2020
- New Feasibility Study starting
- \circ 20 sites -40 patients
- ICU ADMITTED WITH SEVERE OR LIFE THREATENING DISEASE AND CENTRAL IV ACCESS



FDA Breakthrough Designation

- Granted to Hemopurifier ® for both viral and cancer applications
- Mandated by 21ST Century Cures Act
- FDA CHARACTERIZATION AS "ALL HANDS ON DECK"
- RAPID HIGH LEVEL COMMUNICATION BETWEEN FDA AND COMPANY
- SHORTENED COMMUNICATION TIMELINES
- POTENTIAL PATHWAY FOR ACCELERATED APPROVAL ON EARLY TIMEPOINTS
 - CONFIRMATORY POST APPROVAL STUDIES
- Does not remove requirement for "substantial evidence of safety and efficacy" pre-approval



EXOSOME SCIENCES, INC.

DIAGNOSTICS BASED ON EXOSOME DETECTION AND CHARACTERIZATION

- EXOSOMAL TAU PROTEIN CORRELATES WITH EXPOSURE TO TRAUMA IN NFL PLAYERS
 - J. Alzheimers Dis. 2016
- CONFIRMATORY STUDY ONGOING AT TGEN
- POTENTIAL DIAGNOSTIC FOR CTE IN LIVING PLAYERS
- ONCOLOGY APPLICATIONS IN DEVELOPMENT
 - COLLABORATION WITH HOAG HOSPITAL SYSTEMS FOR EXOSOMAL DIAGNOSTICS
 - FAMILIAL PANCREAS CANCER
 - PROGNOSTICS IN RESECTED PANCREAS CANCER
 - LI FRAUMENI SYNDROME



AETHLON LEADERSHIP

TIMOTHY C. RODELL, M.D., FCCP, CHIEF EXECUTIVE OFFICER

PHYSICIAN SCIENTIST WITH OVER 30 YEARS DEVELOPMENT EXPERIENCE IN PUBLIC & PRIVATE COMPANIES, 3 IPOs in U.S. and abroad, 10 products from Bench through late stage clinical trials

CHARLES J. FISHER, JR., M.D., CHAIRMAN

- ACADEMIC & INDUSTRY THOUGHT LEADER IN SEPSIS & INFLAMMATION
- HEAD OF CRITICAL CARE CLEVELAND CLINIC
- 35 YEARS INDUSTRY DEVELOPMENT EXPERIENCE
- SENIOR EXECUTIVE LILLY, ABBOTT, CARDIOME

JAMES B. FRAKES, CHIEF FINANCIAL OFFICER

• 29 YEARS PUBLIC COMPANY CFO EXPERIENCE, INVESTMENT BANKING & VC

THOMAS L. TACCINI, VP MANUFACTURING & PRODUCT DEVELOPMENT

• Over 35 years experience in Engineering, product development & Quality Systems

STRONG CASH POSITION

- AT MARCH 31, 2020, THE COMPANY'S CASH BALANCE WAS APPROXIMATELY \$9.6 MILLION.
- IN JUNE 2020, THE COMPANY RAISED AN ADDITIONAL \$7.3 MILLION IN CASH.



UPCOMING NEWS

2020 -2021

PRODUCT	Indication	Event
HEMOPURIFIER		
	SARS-CoV-2/COVID-19	IDE SUPPLEMENT APPROVED
	Head & Neck Cancer	Initiate Early Feasibility Study
	OTHER SOLID TUMORS	PROOF OF CONCEPT
	AACR POSTER	JUNE 22 ND ONLINE PRESENTATION
EXOSOME SCIENCES		
		COMPLETE BREAST CANCER GRANT
		INITIAL DATA FROM HOAG PROJECT
		CTE DATA
		DISCLOSING FUTURE ACHIEVEMENTS ON EXISTING NCI INSTRUMENT CONTRACT



SUMMARY

- Unique Hemopurifier ® blood purification device
- Two FDA Breakthrough designations
- Multiple therapeutic targets in cancer and viral disease
- Management team with over 100 years healthcare experience
- EXOSOME SCIENCES SUBSIDIARY
 - DIAGNOSTICS IN CANCER AND NEURODEGENERATIVE DISEASE
- NASDAQ: AEMD





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Nasdaq: AEMD

www.AethlonMedical.com

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