

CytoSorbents Corporation (NASDAQ: CTSO)

A Leader in Critical Care Immunotherapy Q3 2016 Earnings Conference Call

November 7, 2016

Safe Harbor Statement

Statements in this presentation regarding CytoSorbents Corporation and its operating subsidiaries CytoSorbents Medical, Inc and CytoSorbents Europe GmbH that are not historical facts are forward-looking statements and are subject to risks and uncertainties that could cause actual future events or results to differ materially from such statements. Any such forward-looking statements are made pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. It is routine for our internal projections and expectations to change. Although these expectations may change, we are under no obligation to inform you if they do. Actual events or results may differ materially from those contained in the projections or forward-looking statements. The following factors, among others, could cause our actual results to differ materially from those described in a forward-looking statement: our history of losses; potential fluctuations in our quarterly and annual results; competition, inability to achieve regulatory approval for our device, technology systems beyond our control and technology-related defects that could affect the companies' products or reputation; risks related to adverse business conditions; our dependence on key employees; competition for qualified personnel; the possible unavailability of financing as and if needed; and risks related to protecting our intellectual property rights or potential infringement of the intellectual property rights of third parties. This list is intended to identify only certain of the principal factors that could cause actual results to differ from those discussed in the forward-looking statements. Readers are referred to a discussion of important risk factors detailed in the Company's Form 10-K filed with the Securities and Exchange Commission on March 9, 2016 and other reports and documents filed from time to time by us, which are available online at www.sec.gov.



CytoSorbents is A Leader in Critical Care Immunotherapy



Leading the Prevention or Treatment of

Life-Threatening Inflammation
in the ICU and Cardiac Surgery using

CytoSorb® Blood Purification

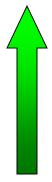
CytoSorb® Removes the Fuel to the Fire

- CytoSorb[®] targets the \$20+ billion opportunity in critical care and cardiac surgery
- Approved in the European Union as the only specifically approved extracorporeal cytokine filter
- Approved for use in any situation where cytokines are elevated
- Removes cytokines and many other inflammatory mediators such as free hemoglobin, bacterial toxins, myoglobin, and activated complement
- Works with standard dialysis and heart-lung machines
- Safe and well-tolerated: In ~17,000 human treatments, up from 14,000 last quarter



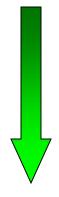


Goal: To Prevent or Treat Organ Failure

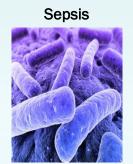


Improve
Patient
Outcome
and
Survival





Decrease Costs Of ICU and Patient Care











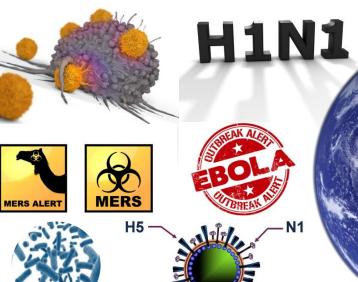




The Potential to Revolutionize Critical Care Medicine



The World Needs CytoSorb®









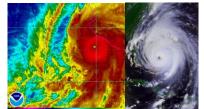






















Financial Highlights



Q3 2016 Comparative Revenue Results

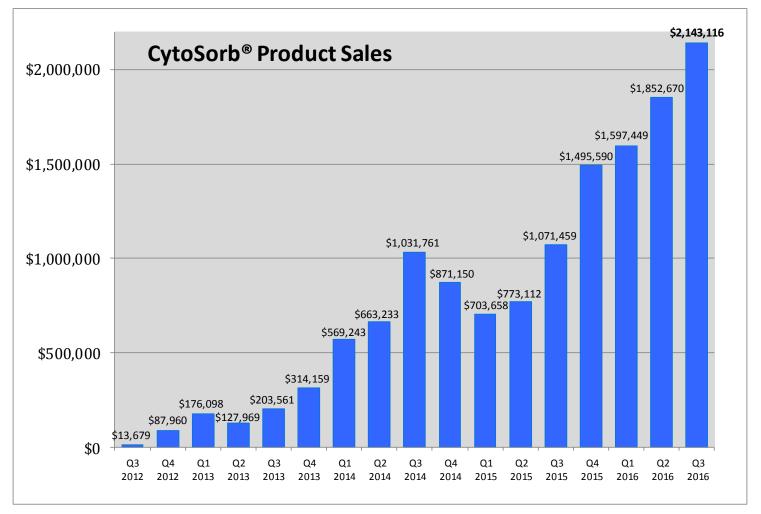
	3 Months Ended Sept 30, 2016		3 Months Ended Sept 30, 2015	% Incr.		
Product revenue	\$ 2,143,116		\$ 1,071,459	100%		
Grant and other income	268,592		272,166	(1)%		
Total revenue	\$ 2,411,708		\$ 1,343,625	79%		

- CytoSorb® product sales doubled to \$2.14M for Q3 2016, compared to \$1.07M in Q3 2015
- Annualized CytoSorb sales run rate was ~\$8.6M based on Q3 2016 versus ~\$4.3M in Q3 2015
- Total revenue for Q3 2016, which includes both product sales and grant revenue, increased 79% to \$2.4M compared to \$1.3M for Q3 2015
- Q3 2016 gross profit more than doubled to approximately \$1.49M compared to \$705K for Q3 2015
- Gross profit margins on product sales increased to ~68% for Q3 2016, as compared to 63% for Q3 2015



Quarterly Product Sales

Sixth consecutive quarter of product sales growth Fifth consecutive quarter of record sales





Comparative 9-Month Revenue Results

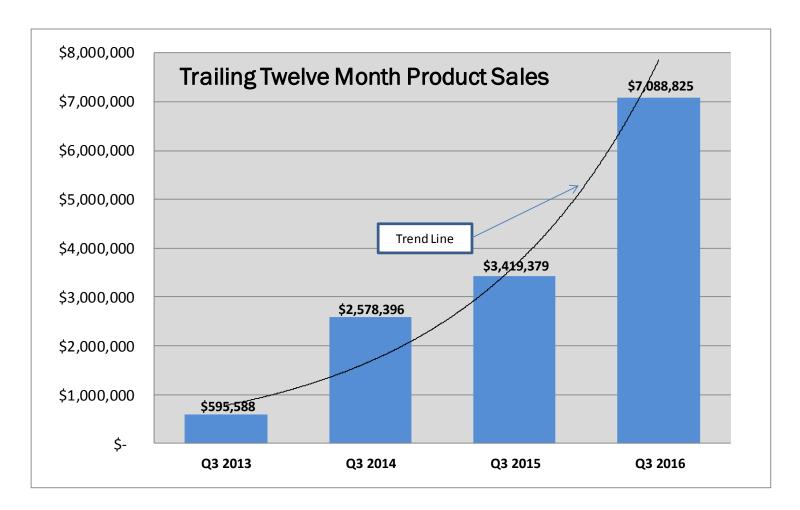
	9 Months Ended Sept 30, 2016		9 Months Ended Sept 30, 2015		% Incr.
Product revenue	\$ 5,593,235		\$ 2,548,229		119%
Grant and other income	850,993		482,393		76%
Total revenue	\$ 6,444,228		\$ 3,030,622		113%

- CytoSorb® product sales for the first nine months of fiscal 2016 increased 119% to \$5.6M, from \$2.5M for the same period a year ago
- Grant revenue in the first nine months of 2016 grew 76% to \$851K compared to \$482K in the same period last year
- Total revenue, which includes both product sales and grant revenue, increased by 113% to \$6.4M as compared to \$3.0M for the first nine months of fiscal 2016 and 2015, respectively.



Trailing Twelve Months Product Sales

Over the past three years, the compound growth rate of return ("CAGR") on product sales was 128%





CytoSorb® Distributed in 42 Countries

















IntensivMed























Working Capital and Cap Table

Working Capital as of									
	9	/30/16	12	2/31/15	12/31/14	12	2/31/13	12,	/31/12
Current Assets:									
Cash and short-term investments	\$	6,375	\$	7,509	\$ 5,550	\$	2,183	\$	1,729
Grants and accounts receivable, net		1,406		649	819		453		51
Inventories		1,052		1,191	538		245		682
Prepaid expenses and other current assets		220		512	700		605		476
Total current assets		9,053		9,861	7,607		3,486		2,938
Current Liabilities(1):									
Accounts payable		740		685	698		787		801
Accrued expenses and other current liabilities		1,540		723	825		362		350
Current maturities of long-term debt		417							
Deferred revenue				-	1		272		-
Total current liabilities		2,697		1,408	1,524		1,421		1,151
Not World to Control	۸.	6.256		0.452	¢ 6000	۸.	2.065	<u>,</u>	4 707
Net Working Capital	\$	6,356	<u>Ş</u>	8,453	\$ 6,083	\$	2,065	<u>Ş</u>	1,787

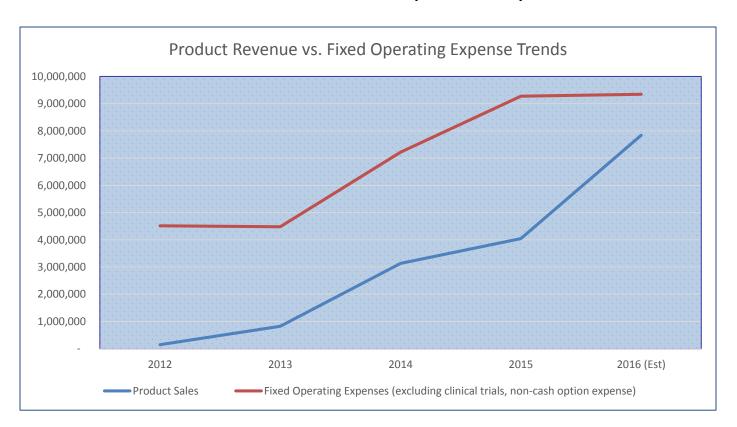
Cap Table 9/30/2016

(unaudited)	Fully Diluted Common Shares
Common Stock	25,468,966
Options	2,966,391
Warrants	1,092,166
	29,527,523



Driving Toward Operating Profitability

Product sales continue to grow rapidly while increases in fixed non-clinical, non-cash expenses taper off





Operating Highlights



U.S. REFRESH I Trial - Safety Confirmed

REduction in FREe Hemoglobin



- 40-patient, eight-center study evaluating the safety and efficacy of intraoperative use of CytoSorb[®] in a heart-lung machine during complex cardiac surgery in elective, non-emergent cardiac surgery > 3 hours
 - Aortic reconstruction, CABG redos, multiple valve replacements, etc
- Primary endpoints: Safety and reduction of plasma-free hemoglobin that can cause post-operative complications
- Working with major U.S. cardiac surgery centers
 - Baylor College of Medicine and Texas Heart Institute
 - Baystate Medical Center
 - Columbia University
 - Cooper University Hospital

- University of Kentucky
- University of Maryland
- University of Pennsylvania
- University of Pittsburgh Medical Center











REFRESH | Trial - Safety



REduction in FREe Hemoglobin Trial

- A total of 46 patients were enrolled with ~40 patients with evaluable biomarker data
- The Data Safety Monitoring Board (DSMB) evaluated all adverse and serious adverse
 events in the control and treatment arms, and concluded there was no safety issue with
 CytoSorb therapy, achieving the primary safety endpoint of trial.
- First RCT using CytoSorb in high risk cardiac surgery, demonstrating safety
- The real-time reduction of free hemoglobin would represent one of the newest innovations in cardiac surgery. Because of this, the Company's cardiac surgery advisors and investigators strongly recommended meeting with the FDA first and then presenting these data at a U.S. based cardiothoracic surgery meeting (e.g. STS or AATS)
- Following a meeting with the FDA to discuss the data and clinical path, the company expects to begin the REFRESH 2 trial early next year (2017) with approval possible in 2018-19 depending on the clinical path (de novo 510(k) vs PMA)

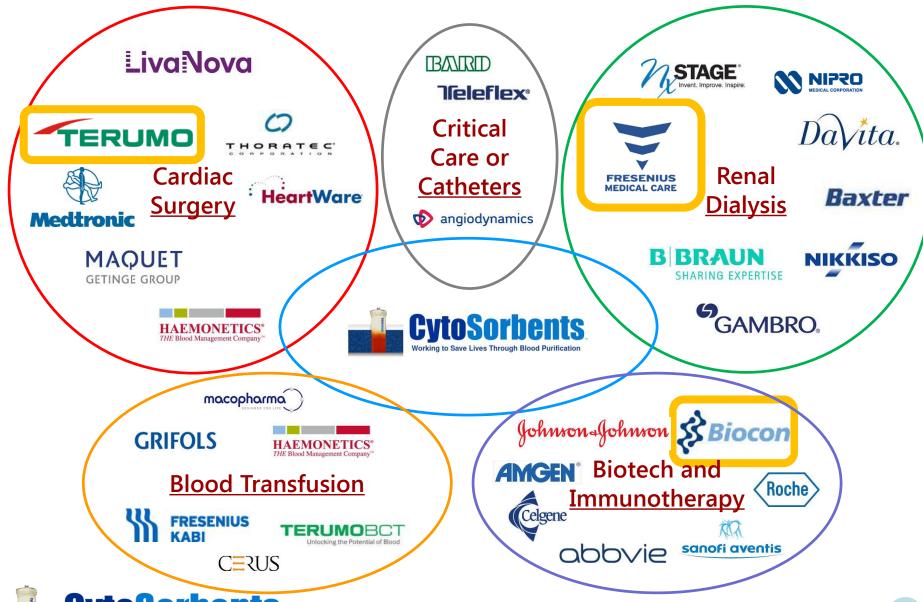


More Studies Underway

- Broad clinical program in Europe with 58 investigator-initiated studies in various stages, including several that have completed and nearly half have started and/or are enrolling
- These studies run the gamut from sepsis, cardiac surgery, post-operative inflammation, liver failure, trauma, and many other applications
- In addition, we have a number of company sponsored trials in cardiac surgery and sepsis that will start next year, in both Europe and the U.S.
- There are more than two dozen publications ranging from case reports, case series, and small randomized controlled studies that have been submitted or are being prepared for submission, including:
 - The University of Greifswald refractory shock trial
 - A second analysis of the International CytoSorb Registry by the University of Jena
 - The first known successfully treated case of malaria using CytoSorb
- These data will be extremely helpful in driving continued usage and adoption, as well as reimbursement of CytoSorb in many different markets



Three Major Partnerships, Potential for More





TERUMO Partnership

- Entered into a multi-year partnership with Terumo Cardiovascular Group, a global leader in medical devices for cardiac and vascular surgery, for cardiac surgery applications
- Initial exclusive distribution of CytoSorb® in France, Denmark, Norway, Sweden, Finland, and Iceland
- Terumo has committed to annual minimum purchases to maintain exclusivity
- Strong validation of our technology and opens door to potential expansion to other countries, such as Japan – the second largest medical device market in the world
- At the EACTS 2016 conference and in a postconference perfusionist meeting, we worked closely with Terumo in their marketing launch, ahead of the beginning of their sales launch, and initial orders to us, expected in the very near future









Strong Technology Validation of CytoSorb

\$18M in Grant and Contract Funding 17,000 Human Treatments and Growing







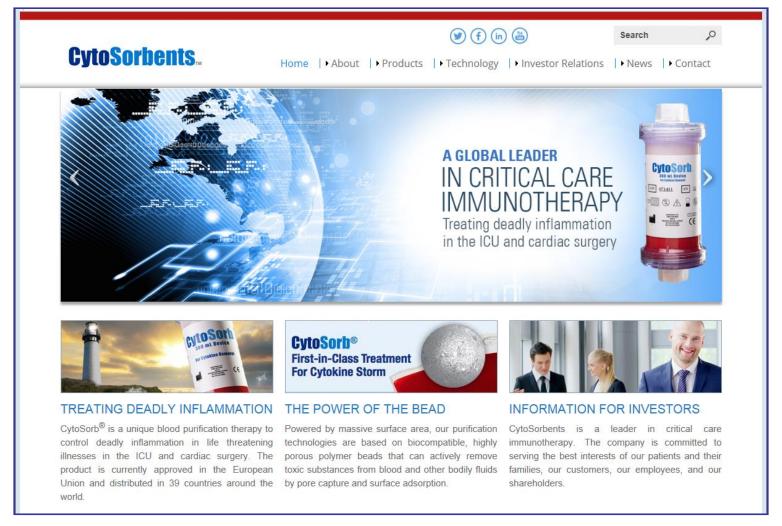


Advanced Development of CytoSorb-XL

- CytoSorb-XL is a next generation porous polymer bead technology combining lipopolysaccharide (LPS) endotoxin removal with the robust cytokine, toxin, and inflammatory mediator reduction achieved by CytoSorb®
- Endotoxin is a very potent stimulator of cytokine storm, often resulting in septic shock in serious Gram negative bacterial infections related to abdominal or urinary tract infections, pneumonia, and hospital acquired infections
- In a head-to-head comparison, CytoSorb-XL matched the level of endotoxin reduction of the leading endotoxin adsorber, Toraymyxin™ (Toray, Japan) in an in vitro plasma recirculation system
- CytoSorb-XL is expected to offer superior performance to stand-alone endotoxin filters through the removal of endotoxin, and a broad range of inflammatory mediators that drive uncontrolled deadly inflammation
- CytoSorb-XL and its novel endotoxin binding chemistry are the subject of a broad composition of matter patent application, intended to protect the technology worldwide for the next two decades. CytoSorb-XL is intended to succeed CytoSorb® within 5 years



Newly Launched Corporate Website







Increasing Media Coverage

Forbes



Jennifer Hicks Contributo

I write about science, robotics & innovative technologies in Europe.

Opinions expressed by Forbes Contributors are their own.

TECH 8/24/2016 @ 4:09PM | 2,950 views

This Blood Filtering System Could Help Lower The Risk of Death From Inflammatory Infections



A new blood filter. (Image credit: Kurt Paulus, Munich)

Trauma to the body comes in many forms – severe burns, gun shot wounds, liver failure, drug overdose, sepsis – which can be deadly. Treating these types of trauma to the body means people end up in the intensive care unit (ICU).



Exclusive: Cytosorbents CEO On How Its Blood Purification Technology Can Change Healthcare

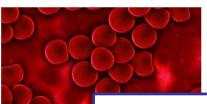
The Street

Phil Chan CEO, CytoSorbents

Jayson Derrick (/users/jayson-derrick) , Benzinga Staff Writer

August 15, 2016 8:54am Comments

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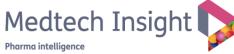
CytoSorbents' blood filter is saving lives and money

07:14 07 Jul 201

Share -

CytoSorb is a blood filter designed to reduce the "fuel to the fire" of deadly inflammation. It is approved for use in the EU, with distribution in 34 countries worldwide.





CytoSorbents Expanding Marketing Reach Of CytoSorb Blood Purifier

by Reed Mille

@MedtechReed reed.miller@informa.com

Executive Summary

CytoSorbents is sponsoring the REFRESH I trial of its CytoSorb extracorporeal cytokine adsorber in the US, which the company hopes will support approval of a pivotal trial of the device for reducing reduce plasma free hemoglobin and cytokines in patients undergoing complex cardiac surgery.







Increasing Analyst Coverage



Biotechnology Jason Wittes (646) 502-2482 vittes@aegiscap.com

Initiating Coverage

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litions in

October 26, 2016

Key Metrics CTSO - NASDAQ \$8.10 - \$3.11 52-Week Range Shares Outstanding (mm) Market Capitalization (mm)

Cytosorbents

Rating: Buy Initiating With A Buy and \$20 Price Target

Investment Highlights:

CytoSorbents Corporation (CTSO) Healthcare: Medical Technology

Buy; \$11.25 PT

Utilizing Blood Purification to Remove Fuel From the ICU's Biggest Killers; Initiating Coverage with a Buy & \$11.25 Price Target

May 23, 2016

\$4.20

25.4

0.00%

December

2017E

75.4%

Andrew D'Silva | (818) 746-9523 adsilva@brileyco.com

CTSO - NYSE

12-Month Target Price:

52-Week Range:

Market Cap (M):

Shares O/S (M):

Dividend Yield:

Fiscal Year End:

Risk Profile:

Closing Price 05/23/2016

Avg. Daily Volume (000):

CytoSorbents (CTSO) has developed a potentially breakthrough therapy to extract inflammatory mediators such as cytokines and toxic proteins from blood in critically ill patients as well as those undergoing cardiac surgery. The company's lead product

Biotechnology

INITIATION

Cytosorbents Corporation

with a Buy Rating and a \$8.00 Price Target

- CytoSorbents is now commercializing its CE-approved product CytoSorb by the EU (direct in Germany, Austria and Switzerland) and in a total of in the EU (direct in Germany, Austria and Gwitzerranis) and in a total of 32 countries worldwide (ex.US) for complications related to life-threatening. 3.6 Countries worthwise (e.s.b.s) for compressions related to internstanting inflammatory diseases such as sepsis, trauma, burn injury, liver failure, and inflammatory diseases such as sepsis, trauma.
- CytoSorb has the potential to become part of the standard of care for sepsis, Cytosorb has the potential to become part of the standard of care for sepsis, a top-10 cause of death worldwide. It is an extracorporeal blood purifier (a a top-10 cause of death workowide, it is an extracorporeal blood purner; a filter) that targets the immunological "cytokine storm" that accelerates organized purchase and failure and ultimately death. By extending the treatment of the purchase of the pur organization and nature and unimatery usage, by extending the treatment window for these patients, the product could be the difference between life Speculative
 - CytoSorb has yet to build sales traction. Revenues last year from both direct various has yet to build sales traction. Revenues last year from both direct sales and distributorship amounted to a total of only \$4M. Introducing a new sales and distributorship amounted to a total of only \$4M.









June 2, 2016 Brian Marckx, CFA bmarckx@zacks.com Ph (312) 265-9474

10 S. Riverside Plaza, Chicago, IL 60606

CytoSorbents Corporation (CTSO-NASDAQ)

CTSO: Fresenius Commences Sales, DSMB Recommends Continuation of REFRESH I

Based on our 10-year DCF model, which uses a 13% discount rate to account for certain risks and uncertainties that CytoSorbents faces, and a 2% terminal growth rate, the shares are valued at approximately \$12.50.

Current Price (06/01/16) Valuation

OUTLOOK

\$4.48 \$12.50

We view 2015 as somewhat of a re-grouping year on the income statement authough regrouping should be put into context, that product sales grew 29%—and which would have been almost a few first and which would have been almost sales grew 29%—and which would have been almost sales grew 20%—and which which would have been almost sale that product sales grew 25% – and which would have been almost 50% growth if not for an Fx headwind. And if not for the sales force disruption earlier in the year, product sales growth would likely have been even significantly stronger.

We expect to see accelerating product sales growth as well as more YEV EXPECT to see accelerating product sales grown as well as my strains on the operational front in 2016. In addition to Fresenius coming online, expansion into other geographic territories (in coming online, expansion into other geographic tentiones (iii addition to those detailed by Fresenius), an expected continued account to triose centaired by r-reservois), an expected continued regular flow of clinical data (including that from the patient registry as regular now or chinical data (including that noth the patient regular) a well as REFRESH I), potential additional production gains from the direct sales force, sales through Biocon could also accelerate direct sales torce, sales through blocon could also accelerate further. And the cardiac-surgery channel also holds significantly nuturer. And the cardisc-surgery chariner also horize significantly potential. Consummation of a partnering agreement could further this opportunity.



Working to Save Lives Through Blood Purification

2016E

3.091

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Outlook for 2H 2016

- CytoSorbents has not historically given financial guidance on quarterly results until the quarter has been completed.
- However, we currently expect a strong Q4 2016, with the achievement of numerous operating milestones
- In addition, we reiterate our guidance that we expect second half 2016
 CytoSorb sales as well as total revenue to exceed those in the first half of 2016



CytoSorb®

SIRS and Sepsis: Regain Control!



Q&A Session

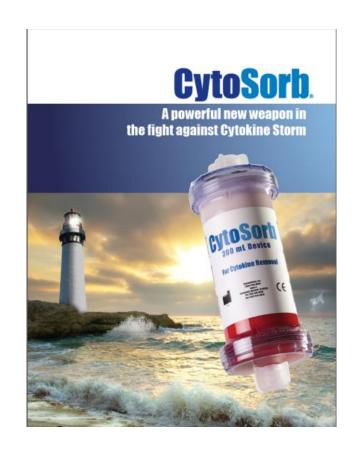
CytoSorbents Corporation

NASDAQ: CTSO

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A Leader in Critical Care Immunotherapy

