****Published October 2016****

MarketVIEW: *Acinetobacter baumannii* vaccines (CAT: VAMV070)

Product Name	:	**MarketVIEW: *Acinetobacter baumannii* vaccines**
Description	:	Vaccine commercial opportunity assessment
Contents	:	Executive presentation + 1 commercial forecast model(s)
Therapeutic Area	:	Nosocomial (hospital) vaccines
Publication date	:	October 2016
Catalogue No	:	VAMV070

Background

Acinetobacter baumannii of the *Acinetobacter spp* is a ubiquitous aerobic gram-negative bacillus which preferentially colonizes aquatic environments. Recently, the bacterium has become an important opportunistic pathogen primarily associated with hospital-acquired infections (HAIs). Patients usually affected are those critically ill having been admitted to the intensive care unit (ICU) and often receiving mechanical ventilation. In these instances *A.baumannii* related pneumonia can have high mortality rates of 50% or above. *A.baumannii* hospital infections can be difficult to treat with current antibiotics especially multidrug resistant forms MDR, XDR and PDR. In addition, such infections dramatically increase hospital length of stay (LOS) and economic cost.

There are many drivers to justify the search for new management techniques to *A.baumannii* infections. The development of a prophylactic vaccine is one plausible option especially in light of industry major player efforts directed to *Staphylococcus aureus* and *Clostridium difficile* (C.diff) vaccines.

This **MarketVIEW** product is composed of a comprehensive MS Excel-based model + summary presentation that forecasts the potential commercial value of *Acinetobacter baumannii* vaccines across major Western markets to 2030. Three scenarios **(LO, BASE and HI)** are included based upon successive targeting of patient groups who would benefit from vaccination. A detailed review of disease background and epidemiology is included along with current treatment, unmet needs and rationale for vaccine approach. An ideal **Target Product Profile (TPP)** is defined along with commercial model assumptions with economic pricing justification.

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Methodology

VacZine Analytics has closely monitored all significant source material pertaining to hospital (nosocomial) vaccines and novel approaches. Source materials used are literature articles, government websites, medical bodies and associations, conference proceedings etc. Previously published research by **VacZine Analytics** in the field of bacterial/nosocomial vaccines has also been utilised.

PRODUCT CONTENTS:

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****This product is composed of one forecast model[1] and a summary presentation[2]

[1] Model contents available upon request
[2] Presentation titles may apply to more than one slide

Continued……

A. baumannii - global prevalence (EPIC II study)
Multi drug resistant (MDR) *A.baumannii* – prevalence
Carbapenem resistant *Acinetobacter* - MYSTIC, 2004[1]
(MDR) *A.baumannii* - mortality rate, mean length of stay
Incidence density of carbapenem-resistant AB, Italy 2008-13[1]
A.baumannii infection - trends and dynamics
Reasons for increased *A.baumannii* infection
Economic burden
Comparative economic cost with other hospital pathogens
United Nations - General Assembly, September 2016
Acinetobacter baumannii - current treatment and management
Case study: Valneva AG - IC43-201 Phase II Study
How could a *A.baumannii* vaccine be used in the ICU?
Vaccination to prevent *A.baumannii* CAP (HI SCENARIO)
A. baumannii vaccine forecast model: methodology
A. baumannii vaccine forecast model: general assumptions
Forecast vaccine population flow (base case)
Detailed commercial model assumptions (base case)
Detailed commercial model assumptions (high and low case)
Summary of commercial model scenarios
Summary of vaccine coverage rates applied
High-level pharmacoeconomic analysis: ICU-VAP
US economic burden of VAP and potential cost savings
Risks and challenges
Model caveats and limitations
Bibliography
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Slide number = 88

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About VacZine Analytics:

VacZine Analytics is an established strategic research agency based in the United Kingdom. Its aim is to provide disease and commercial analysis for the vaccine industry and help build the case for developing new vaccines and biologics.

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