

\*\*\*\*Published December 2022\*\*\*\*

## MarketVIEW: *Klebsiella pneumoniae* vaccines (CAT: VAMV087)

<b>Product Name</b>	:	<b>MarketVIEW: <i>Klebsiella pneumoniae</i> vaccines</b>
<b>Description</b>	:	Global vaccine commercial opportunity assessment
<b>Contents</b>	:	Executive presentation (>235 slides.pdf) + forecast model(s) (.xls)
<b>Therapeutic Area</b>	:	<b>New bacterial vaccines</b>
<b>Publication date</b>	:	December 2022
<b>Catalogue No</b>	:	VAMV087

### Background

*Klebsiella pneumoniae* (Kp) is an encapsulated, Gram-negative non-motile bacterium of the *enterobacterales* family which typically colonizes the oropharynx and gastrointestinal (GI) tract. The 'classical' form of Kp is mainly a opportunistic nosocomial/ICU pathogen which causes infections in immunocompromised or 'at risk' individuals with comorbidities. Common Kp-related infections include pneumonia, urinary tract infection (UTI), pneumonia, intraabdominal infection, bloodstream infection (BSI) and meningitis. A hypervirulent form (hvKp) is capable of causing community-acquired infections, often in healthy individuals, with significant morbidity and mortality. In the developing world, Kp is major cause of neonatal sepsis being responsible for **124,000 deaths** [89,000-167,000] in 2019 (GBD 2019). Worldwide (all syndromes) Kp caused **790,000 deaths** [571-1,060,000] in 2019 being the 4<sup>th</sup> leading bacterial cause. Kp exhibit a high degree of antimicrobial resistance. Carbapenem (CRE) and ESBL-producing Kp are considered a 'critical' threat by the World Health Organisation (WHO).

A prophylactic *Klebsiella pneumoniae* vaccine could prevent invasive disease in a number of target populations both in Western developed countries and the developing world e.g., GAVI-assisted countries. Several approaches are ongoing in both preclinical and clinical development with the most advanced being **GSK/LimmaTECH Bio's** Kleb4V (GSK4429016A), a subunit conjugate approach which recently completed a Phase 1/2 study [NCT04959344]. Other earlier potential approaches are being pursued by GSK/Affinivax, Syntiron, Vaxdyn and Omniose.

This **MarketVIEW** product is a comprehensive Executive Presentation (>225 slides, .pdf) and interactive MS-Excel forecast model (120 worksheets, .xls) which investigate the scenario-based uptake and commercial potential of *Klebsiella pneumoniae* vaccines across key target groups in 118 nations (public/private) worldwide including GAVI/developing world countries. A thorough review of latest disease background/epidemiology/resistance trends data is presented along with discussion of latest understanding of vaccinology/R&D competitor landscape. The analysis contains an in-depth **commercial assessment** of potential *Klebsiella pneumoniae* vaccine profiles with discussion around target population rationale, potential uptake, pricing and clinical development feasibility/issues.

## Methodology

**VacZine Analytics** has closely monitored all significant source material pertaining to *Klebsiella pneumoniae* epidemiology (healthcare-associated infections/neonatal sepsis) and resistance trends in each respective market/globally. Source materials used are academic literature articles, government websites, medical bodies and associations, conference proceedings, social media etc. Previously published research by **VacZine Analytics** in the field of bacterial pathogens has also been utilised.

### PRODUCT CONTENTS:

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\*\*\*This product is a [summary presentation \(.pdf\)](#), [an MS-workbook \(.xls\)](#)

#### Contents – Summary presentation (.pdf)



Contents

Author's notes

#### Executive summary

**[SECTION 1]** *Klebsiella pneumoniae* vaccines: commercial model – key outputs

**[SECTION 2]** *Klebsiella pneumoniae* vaccines: the pathogen, disease background

**[SECTION 3]** *Klebsiella pneumoniae* vaccines: disease burden/epidemiology

**[SECTION 4]** *Klebsiella pneumoniae* vaccines: resistance data/key trends

**[SECTION 5]** *Klebsiella pneumoniae* vaccines: diagnosis, prevention, current treatment/management

**[SECTION 6]** *Klebsiella pneumoniae* vaccines: vaccine development, current R&D

**[SECTION 7]** *Klebsiella pneumoniae* vaccines: modelling commercial potential [Western/GAVI]

References/bibliography

About **VacZine Analytics**

Disclaimer

**SNAPSHOT**

**PAGES: >225 slides fully referenced/sourced. Available in .pdf form**

#### Contents – MS-Excel workbook (.xls)



3 uptake scenarios: LO/BASE and HI

118 countries (5 groups) included in global demand model

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## **BIBLIOGRAPHY**

References – available upon request



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**VacZine Analytics**

A division of Assay Advantage Ltd  
Warren (Carlton) House  
Bells Hill  
Bishops Stortford  
Herts  
CM23 2NN  
United Kingdom  
Tel: +44 (0) 1279 927049  
E-mail: [info@vaczine-analytics.com](mailto:info@vaczine-analytics.com)



## 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.

For more information please visit our website [www.vacZine-analytics.com](http://www.vacZine-analytics.com)

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