*****Published March 2014***

MarketVIEW: Rabies vaccines (CAT: VAMV055)

Product Name	:	MarketVIEW: Rabies vaccines
Description	:	Global vaccine commercial opportunity assessment
Contents	:	Executive presentation + 1 forecast model
Therapeutic Area	:	Novel vaccines
Publication date	:	March 2014
Catalogue No	:	VAMV055

Background

Rabies is a viral zoonosis caused by all members of the *Lyssavirus* genus and mostly spread by canine vectors. The disease, if untreated is 100% fatal, although almost 100% preventable through timely postexposure prophylaxis (PEP). Rabies causes tens of thousands of deaths each year, mainly in rural areas of Africa and Asia.

Novartis Vaccines and Sanofi are the only Western producers vaccines for rabies with Rabavert/Rabipur and Verorab/Imovax products respectively. Several domestic vaccine manufacturers (DVMs) in China, India and Russia produce rabies vaccines which serve domestic demand; some also export rabies vaccine. China is the largest market for rabies vaccines.

This **MarketVIEW** product is a comprehensive commercial opportunity assessment detailing the current and potential market for rabies vaccine(s) using a patient based value/volume forecast for major rabies endemic markets to 2024. The forecast gives revenues and volume shares for Western competitors in both pre-and postexposure markets. The analysis takes into account the use of different PEP regimens (ID/IM), current/future market trends and gives an up-to-date review of competitor dynamics, and disease epidemiology.

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Methodology

VacZine Analytics has closely monitored all significant source material pertaining to Rabies virus. Example, secondary source materials used are literature articles, government websites/databases, medical bodies and associations, conference proceedings and previously analyses (where publically available). Previously published research by VacZine Analytics in field of endemic/travel vaccines has also been utilised. ***See Bibliography for exact sources.

PRODUCT CONTENTS: Published March 2014 (CAT No: VAMV055)

****This product is composed of a model and summary presentation

Contents - Summary presentation (MS PowerPoint based)

Authors Note Executive summary Commercial model: key outputs Rabies vaccines: estimated PEP and PrEP treatments. Rabies vaccines: estimated global value (\$m, 2013) Rabies vaccines: global value forecast to 2024. Rabies vaccines: global forecast per competitor to 2024. Rabies vaccines: global volume, 2013 Rabies vaccines: global volume forecast to 2024. Rabies vaccines: forecast PEP and PrEP treatments. Forecast methodology Countries modelled in this analysis. Rabies vaccines pricing Future market trends Rabies: background Rabies: disease burden. Rabies: disease burden per country/region Rabies: disease burden per population Rabies: disease burden - deaths per country/region Rabies: disease burden - cases per population Country/region profiles China. China: number of deaths 2002 to 2013 India Other Asian markets. US and Europe Human and canine rabies cases, Europe, 2008-2012 LATAM Africa Rabies vaccine schedules Post-exposure prophylaxis (PEP) schedules

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Post-exposure prophylaxis (PEP) schedules: ID-RV Post-exposure prophylaxis (PEP) WHO schedules Pre-exposure prophylaxis (PrEP) schedules Rabies vaccines: competitive landscape Competitive landscape: Novartis/Marburg Competitive landscape: NTV producers Competitive landscape: per vaccine type Competitive landscape: India/Russia DVMs Competitive landscape: WHO prequalification Competitive landscape: summary table Rabies vaccines: overview of vaccine demand China China: estimates of total market value/volume India India: estimates of total market value/volume Other Asian markets. Other Asian markets: number of PEP treatments. Other Asian markets: Vietnam Other Asian markets: Thailand Africa Africa: South Africa LATAM LATAM: Brazil Europe/US PEP rate per 100,000 population/endemic countries Bibliography Disclaimer About VacZine Analytics

PAGES: 67 MS PowerPoint slides, fully referenced/sourced. Available in .pdf form

Contents - Vaccine demand model(s) (MS Excel-based) - 1 model

Title sheet CHARTS Global volume summary Global value summary Novartis (value share) Sanofi (value share) Novartis (volume share) Sanofi (volume share) Other companies (volume share) Treatments PEP and PrEP Country groups EU (no risk) EU (low risk) US, Canada, EU (PrEP) US, Canada (PrEP)

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Eastern Europe. Brazil LATAM (other) China. India Indonesia Bangladesh Thailand Philippines Vietnam Nepal Sri Lanka Cambodia Mvanmar Central Asia Africa South Africa Source material **Total population** Price summary % IDRW Estimated based PEP use **PEP** summary Estimated PEP use (Africa) Epidemiology China epidemiology World Bank Backpage

WORKSHEETS: ~84

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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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