MarketVIEW: Cytomegalovirus vaccines (CAT: VAMV014)

Product Name: MarketVIEW: Cytomegalovirus vaccines
Description: Global vaccine commercial opportunity assessment
Contents: Executive presentation + 2 forecast models
Therapeutic Area: Novel vaccines
Publication date: August 2014
Catalogue No: VAMV014

Background

Cytomegalovirus (CMV) is a member of the herpesvirus family and is widely prevalent throughout the population. In the US around 50-80% of adults are infected by 40 years of age (US CDC figures) whereas in other parts of the world, especially developing countries, prevalence is much higher even at younger ages. Usually CMV infections are dormant causing no significant health issues, however, in certain populations with a weakened immune system e.g. HIV, transplants (HSCT) the virus can reactivate can cause disease e.g. pneumonia. CMV infection is also a concern in the neonate after transmission from a pregnant women pre or post partum. Approximately 1 in 150 children is born with a congenital CMV infection and 1 in 750 born with permanent disabilities due to the virus.

Vaccine manufacturers are currently pursuing both therapeutic (TX) and prophylactic (PX) CMV vaccine approaches. The most advanced program is Sanofi Pasteur’s gB vaccine (+ MF59 adjuvant) where protective efficacy has been shown in post-partum women (Phase II) although development appears to be hold. Other notable approaches are Vical’s (Astellas) VCL-CB01 (ASP0113) DNA-based approach in HSCT seropositive recipients (Phase III) to be completed September 2016.

This MarketVIEW product is composed of comprehensive MS Excel-based models + summary presentation which forecasts the potential commercial value of Cytomegalovirus vaccines (TX + PX approaches) across major Western and emerging markets to 2030. Each model contains value ($ m) and volume (mio doses) predictions along with launch timeframe, pricing and penetration estimates. Two forecast scenarios are included based upon the level of populations targeted, differing competitive scenarios which in turn are influenced by vaccine mechanism of action and vaccinee serostatus.
Methodology

**VacZine Analytics** has closely monitored all significant source material pertaining to Cytomegalovirus vaccines. 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 viral pathogens has also been utilised.

PRODUCT CONTENTS:

**Published August 2014 (CAT No: VAMV014)**

****This product is composed of two models and summary presentation

- Executive summary
- Key model outputs
- CMV preconception vaccine: available market ($000s) to 2035 (scenario1)
- CMV transplant vaccine: available market ($000s) to 2035
- CMV preconception vaccine: demand (000s doses) to 2035 (scenario1)
- CMV transplant vaccine: demand (000s doses) to 2035
- CMV preconception vaccine: available market ($000s) to 2035 (scenario2)
- CMV vaccines: revenues per company to 2035 (scenario 1)
- CMV vaccines: revenues per company to 2035 (scenario 2)
- CMV preconception vaccine: coverage scenarios
- CMV vaccine: modelling assumptions/rationale
- The role of CMV vaccine(s)
- Target populations: CMV preconception vaccine
- Target populations: CMV transplant vaccine
- Target groups by serological risk profile
- Pricing: CMV preconception vaccine
- Pricing: CMV transplant vaccine
- Target product profile: CMV preconception vaccine
- Target product profile: CMV transplant vaccine
- Key commercial model assumptions: preconception vaccine
- Key commercial model assumptions: transplant vaccine
- Markets included in the model
- Model forecast comparisons: June 2010 v current
- CMV vaccines: R&D pipeline
- Competitor landscape: overview
- Vical/Astellas: TransVax and CyMVectin
- GSK: preconception CMV vaccine
- Novartis/AlphaVax: alphavirus replicon CMV vaccine
- Sanofi Pasteur: CMV gB vaccine
- Merck & Co
- Other vaccine candidates
- Vaccine pipeline summary
- Estimated launch dates: vaccines + mAbs
- CMV: review of current epidemiology
- Epidemiology: transplants
Epidemiology: congenital CMV infection
Appendix I: Quantifying CMV populations
Methodology: HSCTs populations (by age and serostatus)
Methodology: solid organ transplant populations (by age and serostatus)
Methodology: preconception vaccine
Other supporting data
Prevalence of CMV in the US general population
Prevalence of CMV in other general populations.
Prevalence of CMV in transplant donors and recipients
AIDS patients with CMV retinitis
Prevalence of CMV in pregnant populations
Symptomatic newborns
Management of CMV disease after solid organ transplantation
Management of CMV infection in HSCT
Use of prophylactic/pre-emptive antivirals in HSCTs
Management of CMV retinitis in patients with AIDS
Treatment of congenital CMV in newborns
References/bibliography
About VacZine Analytics
Disclaimer

PAGES: 86 MS PowerPoint slides, fully referenced/sourced. Available in .pdf form

Contents – Vaccine demand model(s) (MS Excel-based)
Title sheet
Scenario definitions
GRAND SUMMARY CHARTS
CHARTS VALUE
CHARTS VOLUME
CHARTS VOLUME – HIGH
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VOLUME SUMMARY
Preconception vaccine - females
Country volume/population sheets
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Japan
Transplant vaccine - females
Country volume/population sheets
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Italy
Other EU
Japan
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Forecast HSCTs
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Forecast Kidney TX
Forecast liver Tx
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BIBLIOGRAPHY


2. National Vital Statistics Reports, Volume 60, Number 1, November 3, 201.


12. Clinicaltrials.gov


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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.

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

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