

Global Breast Cancer Vaccine Market & Clinical Pipeline Outlook 2022

<https://marketpublishers.com/r/GEF8D1787F1EN.html>

Date: December 2016

Pages: 190

Price: US\$ 2,000.00 (Single User License)

ID: GEF8D1787F1EN

Abstracts

Please note: extra shipping charges are applied when purchasing Hard Copy License depending on the location.

“Global Breast Cancer Vaccine Market & Clinical Pipeline Outlook 2022” report analyzes ongoing clinical and non-clinical trends in the global breast cancer vaccine development market. Currently there is no single breast cancer vaccine commercially available in the market. This report analyzes the ongoing clinical trial of 36 breast cancer vaccines in clinical pipeline and gives comprehensive clinical insight on various parameters associated with the development of the vaccine. Most of the breast cancer vaccines in clinical trials are in preclinical phase followed by Phase-I trials. The advance stage of development of breast cancer vaccine in clinical trials across the globe is in Phase-III.

The conventional cancer treatment methods have proved their importance in last decade. They are widely accepted among patients and physicians (oncologists) because of familiarity and large amount of statistically significant data supporting their efficacy. Despite their benefits, they sometimes fall short in meeting the patient’s personal requirements. For instance, efficacy is a major requirement, but different patients display different response to the same medication, this is attributed to their unique genetic makeup. To meet the individual’s necessities, high efficacy and safety, concept of cancer vaccine was formulated.

The best part with cancer vaccines is that they are capable of inducing “memory effect” in the immune cells. As a result, even in the absence of cancer vaccine molecule in the body, immune cells maintain their ability to search and destroy cancer cells. These memory effects are engraved on lymphocytes which keep on producing antigen long after the introduction of the initiator molecule. Pharmaceuticals companies are investing

heavily in R&D segment to discover more properties of cancer vaccines. The benefits offered by cancer vaccine have poised the market to increase several folds.

At present the breast cancer vaccines are in emerging stages and this market has yet to be tapped by pharmaceutical companies. They are diverting funds towards research and development segment for advances in innovative breast cancer vaccines which will generate large amount of revenues. In recent years significant progress has been made on technological and scientific levels but still no vaccine for the treatment of breast cancer has seen market introduction in any part of the globe.

The present therapeutics available in market for breast cancer shows modest results in majority of patients which offers unexplored marketing opportunities for better innovative products to enter in competition. It is expected that more oncologists will prescribe the innovative breast cancer vaccines to their patients due to greater therapeutic effects. The higher rates of prescription would lead to high degree of market penetration and increased market share. The revenues generated in this way will encourage the pharmaceutical companies to fund new projects for the development of better breast cancer vaccines.

The first commercially available breast cancer vaccine is expected to be available in the market in next 5-7 years. Clinical trials would be able to come with thoroughly checked version of products under investigation which would be able to provide higher levels of medical care to breast cancer patients. Most of the innovative products are at the advance stages of clinical trials which are supposed to clear the targeted end points. Market introduction of these new products are supposed to generate significant revenues for the pharmaceutical companies in coming years.

Contents

1. WHAT ARE CANCER VACCINES?

2. MECHANISM OF CANCER VACCINES

- 2.1 Idiotypic Cancer Vaccine Mechanism
- 2.2 Cellular Cancer Vaccines Mechanism
- 2.3 Ganglioside Antigens based Cancer Vaccines Mechanism
- 2.4 Peptide Cancer Vaccine Mechanism
- 2.5 Tumor Host Interaction Cancer Vaccine Mechanism

3. MECHANISM OF BREAST CANCER VACCINE

- 3.1 Principle Strategies for Eliciting Immune System
 - 3.1.1 Overcoming Immune Suppression
 - 3.1.2 Modulation of Immune Checkpoints
- 3.2 Immunogenicity & Responses to Therapies
- 3.3 Breast Cancer Therapeutic Vaccines

4. GLOBAL BREAST CANCER INCIDENCE

- 4.1 US
- 4.2 Europe
- 4.3 Asia
- 4.4 Rest of the World

5. GLOBAL BREAST CANCER VACCINE MARKET CURRENT SCENARIO

- 5.1 Unexplored Opportunity
- 5.2 Global Breast Cancer Vaccine Pipeline Overview

6. NEED FOR PERSONALIZED BREAST CANCER VACCINES

7. GLOBAL BREAST CANCER VACCINE MARKET DYNAMICS

- 7.1 Favorable Parameters
- 7.2 Commercialization Challenges

8. GLOBAL BREAST CANCER VACCINE MARKET FUTURE PROSPECTS

9. FDA GUIDELINE FOR THE DEVELOPMENT & MARKETING OF CANCER VACCINES

9.1 Considerations for Both Early and Late Phase Clinical Trials

9.1.1 Patient Population

9.1.2 Monitoring The Immune Response

9.1.3 Biomarkers As Evidence Of Efficacy

9.1.4 Adjuvants Used To Stimulate Immune Response

9.1.5 Multi-Antigen Vaccines

9.1.6 Disease Progression/Recurrence Immediately Or Shortly After The Initial Administration Of Cancer Vaccines

9.1.7 Concomitant And Subsequent Therapies

9.2 Considerations for Early Phase Clinical Trials

9.2.1 Starting Dose And Dosing Schedule

9.2.2 Booster And Maintenance Therapy

9.2.3 Dose Escalation

9.2.4 Single-Arm Versus Randomized Phase 2 Trials In Early Development

9.3 Considerations For Late Phase Clinical Trials

9.3.1 Safety Profile From Early Phase Clinical Trials

9.3.2 Endpoints

9.3.3 Statistical Issues

9.3.4 Control Issues

9.3.5 Delayed Vaccine Effect

9.3.6 Autologous Vaccine Trials

9.3.7 Accelerated Approval Regulations

10. GLOBAL BREAST CANCER VACCINE CLINICAL PIPELINE BY COMPANY & PHASE

10.1 Preclinical

10.2 Phase-I

10.3 Phase-I/II

10.4 Phase-II

10.5 Phase-II/III

10.6 Phase-III

11. DISCONTINUED & SUSPENDED BREAST CANCER VACCINE IN CLINICAL

PIPELINE BY COMPANY & PHASE

- 11.1 Suspended
- 11.2 No Development Reported
- 11.3 Discontinued

12. COMPETITIVE LANDSCAPE

- 12.1 Advaxis
- 12.2 AlphaVax
- 12.3 AVAX Technologies
- 12.4 Dendreon Corporation
- 12.5 Galena Biopharma
- 12.6 Generex Biotechnology
- 12.7 GlaxoSmithKline
- 12.8 Immune Design
- 12.9 Imugene
- 12.10 Immunovative Therapies
- 12.11 Immunovaccine
- 12.12 Inovio Pharmaceuticals
- 12.13 Merck
- 12.14 NewLink Genetics
- 12.15 Recombio
- 12.16 TapImmune
- 12.17 ViroMed

List Of Figures

LIST OF FIGURES

Figure 1-1: Categorization & Function of Cancer Vaccines

Figure 2-1: Classification of Different Types of Cancer vaccines

Figure 3-1: Development of a Cellular Immune Response against TAA

Figure 4-1: US –Number of New Cases & Deaths of Breast Cancer, 2016

Figure 5-1: Global Breast Cancer Vaccine Pipeline by Phase (%), 2016 till 2022

Figure 5-2: Global Breast Cancer Vaccine Pipeline by Phase (Numbers), 2016 till 2022

Figure 5-3: Global Breast Cancer Vaccine Pipeline by Phase (%), 2016 till 2022

Figure 5-4: Global Breast Cancer Vaccine Pipeline by Phase (Numbers), 2016 till 2022

Figure 6-1: Overview of Personalized Cancer Vaccines Development

Figure 6-2: Methodology for the Development of Personalized Cancer Vaccine

Figure 6-3: Schematic Representation of Development of Skin Implant for Cancer Vaccine

Figure 7-1: Favorable Parameters for Breast Cancer Vaccine Development

Figure 7-2: Challenges for Breast Cancer Vaccine Market

Figure 12-1: Advaxis Clinical Pipeline

Figure 12-2: AlphaVax Clinical Pipeline Overview

Figure 12-3: Galena Biopharma Clinical Pipeline Overview

Figure 12-4: Generex Biotechnology Clinical Pipeline Overview

Figure 12-5: Immune Design Clinical Pipeline Overview

Figure 12-6: Imugene Clinical Pipeline Overview

Figure 12-7: Immunovaccine Clinical Pipeline Overview

Figure 12-8: Inovio Pharmaceuticals Clinical Pipeline

Figure 12-9: NewLink Genetics Corporation Clinical Pipeline

Figure 12-10: TapImmune Clinical Pipeline Overview

Figure 12-11: ViroMed Clinical Pipeline Overview

I would like to order

Product name: Global Breast Cancer Vaccine Market & Clinical Pipeline Outlook 2022

Product link: <https://marketpublishers.com/r/GEF8D1787F1EN.html>

Price: US\$ 2,000.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GEF8D1787F1EN.html>