



## MEDICAL COVERAGE POLICY

**SERVICE: Cancer Treatment Vaccines**

**Policy Number: 050**

**Effective Date: 03/01/2020**

**Last Review: 01/23/2020**

**Next Review Date: 01/23/2021**

### Important note:

Unless otherwise indicated, this policy will apply to all lines of business.

Even though this policy may indicate that a particular service or supply may be considered medically necessary and thus covered, this conclusion is not based upon the terms of your particular benefit plan. Each benefit plan contains its own specific provisions for coverage and exclusions. Not all benefits that are determined to be medically necessary will be covered benefits under the terms of your benefit plan. You need to consult the Evidence of Coverage (EOC) or Summary Plan Description (SPD) to determine if there are any exclusions or other benefit limitations applicable to this service or supply. If there is a discrepancy between this policy and your plan of benefits, the provisions of your benefits plan will govern. However, applicable state mandates will take precedence with respect to fully insured plans and self-funded non-ERISA (e.g., government, school boards, church) plans. Unless otherwise specifically excluded, Federal mandates will apply to all plans. With respect to Medicare-linked plan members, this policy will apply unless there are Medicare policies that provide differing coverage rules, in which case Medicare coverage rules supersede guidelines in this policy. Medicare-linked plan policies will only apply to benefits paid for under Medicare rules, and not to any other health benefit plan benefits. CMS's Coverage Issues Manual can be found on the CMS website. Similarly, for Medicaid-linked plans, the Texas Medicaid Provider Procedures Manual (TMPPM) supersedes coverage guidelines in this policy where applicable.

**SERVICE:** Cancer Treatment Vaccines

**PRIOR AUTHORIZATION:** Not applicable.

**POLICY:** SWHP considers vaccine therapy in the treatment of ovarian cancer experimental and investigational because the clinical evidence is not sufficient to permit conclusions on the health outcome effects of vaccine therapy in the treatment of ovarian cancer.

SWHP considers the use of melanoma vaccines, e.g. Theraccine, Oncophage, experimental, investigational and unproven and not medically necessary.

**OVERVIEW:** Tumor vaccines are a type of immunotherapy that attempts to stimulate the patient's own immune system to respond to tumor antigens. Tumor vaccines have been principally investigated as a treatment of melanoma, due to the recognition that melanoma can induce an immune response, and the overall ineffectiveness of chemotherapy. Melanoma vaccines can be generally categorized or prepared in the following ways:

- Purified antigen vaccines, consisting of single, purified proteins or gangliosides, or short, immunogenic peptide fragments of proteins (e.g., GMK (ganglioside) vaccine, Progenics);
- Cell lysate vaccines, in which allogeneic tumor cell lines are lysed by mechanical disruption or viral infection;
- Whole cell vaccines, consisting of whole killed allogeneic cells from tumor cell lines. Autologous whole-cell vaccines, in which tumor cells are harvested from the patients, irradiated, and potentially modified with antigenic molecules to increase immunogenicity (e.g., M-Vax®, AVAX Technologies).
- Heat-shock protein-peptide complexes purified from autologous tumor cells (e.g., Oncophage®, Antigenics, Inc.).
- Shed antigen vaccines, consisting of a mixture of cell surface antigens shed into tissue culture supernatant by melanoma cell lines.
- Dendritic cell vaccines, consisting of autologous, dendritic cells pulsed with tumor-derived peptides, tumor lysates, antigen encoding Ribonucleic acid (RNA) or Deoxyribonucleic acid (DNA).



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- Genetically modified tumor vaccines, consisting of autologous or allogeneic tumor cell lines transduced with retroviral vectors containing cytokine genes, tumor antigen genes, co-stimulatory molecules, or human leukocyte antigen (HLA) proteins.
- Anti-idiotype vaccine, consisting of monoclonal antibodies with specificity for tumor antigen-reactive antibodies.

NOTE: At the present time, no melanoma vaccine has received approval from the U.S. Food and Drug Administration (FDA).

### CODES:

**Important note:**

CODES: Due to the wide range of applicable diagnosis codes and potential changes to codes, an inclusive list may not be presented, but the following codes may apply. Inclusion of a code in this section does not guarantee that it will be reimbursed, and patient must meet the criteria set forth in the policy language.

CPT Codes:	
CPT Not Covered:	
HCPCS Covered:	
HCPCS Not Covered:	
ICD10:	C61 - Malignant neoplasm of prostate Z19.2 - Hormone resistant malignancy status BOTH codes required

**CMS:** There are no NCDs or LCDs related to this coverage.

### POLICY HISTORY:

Status	Date	Action
New	12/28/2010	New policy
Reviewed	12/6/2011	Reviewed.
Reviewed	10/25/2012	No changes
Reviewed	10/3/2013	No changes.
Reviewed	07/24/2014	Updated, changed name and added ovarian cancer vaccine
Reviewed	08/11/2015	No changes
Reviewed	09/08/2016	No changes
Updated	08/29/2017	Change status for Sipuleucel-T to "medically necessary"
Updated	06/26/2018	Update coverage for Imlygic® to medically necessary
Updated	12/04/2018	Removed Imlygic® and Sipuleucel-T to separate policies
Reviewed	01/23/2020	No changes

### REFERENCES:

The following scientific references were utilized in the formulation of this medical policy. SWHP will continue to review clinical evidence related to this policy and may modify it at a later date based upon the evolution of the published clinical evidence. Should additional scientific studies become available and they are not included in the list, please forward the reference(s) to SWHP so the information can be reviewed by the Medical Coverage Policy Committee (MCPC) and the Quality Improvement Committee (QIC) to determine if a modification of the policy is in order.

1. Vaccines for the Treatment of Malignant Melanoma. Chicago, Illinois: Blue Cross Blue Shield Association – Technology Evaluation Center Assessment Program (2001 May) 16(4):1-45.



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4. Sondak, V.K., Sabel, M.S., et al. Allogeneic and autologous melanoma vaccines: where have we been and where are we going? *Clinical Cancer Research* (2006) 12(7 Supplement):2337s-41s.
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