I. Policy: Intracavitary Balloon Brachytherapy for Breast Cancer

II. Purpose/Objective:

To provide a policy of coverage regarding Intracavitary Balloon Brachytherapy for Breast Cancer

III. Responsibility:

A. Medical Directors

B. Medical Management Department

IV. Required Definitions

1. Attachment – a supporting document that is developed and maintained by the policy writer or department requiring/authoring the policy.

2. Exhibit – a supporting document developed and maintained in a department other than the department requiring/authoring the policy.

3. Devised – the date the policy was implemented.

4. Revised – the date of every revision to the policy, including typographical and grammatical changes.

5. Reviewed – the date documenting the annual review if the policy has no revisions necessary.

V. Additional Definitions

Medical Necessity or Medically Necessary means Covered Services rendered by a Health Care Provider that the Plan determines are:

a. appropriate for the symptoms and diagnosis or treatment of the Member's condition, illness, disease or injury;

b. provided for the diagnosis, and the direct care and treatment of the Member's condition, illness disease or injury;

c. in accordance with current standards of good medical treatment practiced by the general medical community;

d. not primarily for the convenience of the Member, or the Member's Health Care Provider; and

the most appropriate source or level of service that can safely be provided to the Member. When applied to hospitalization, this further means that the Member requires acute care as an inpatient due to the nature of the services rendered or the Member's condition, and the Member cannot receive safe or adequate care as an outpatient.

Medicaid Business Segment

Medically Necessary — A service, item, procedure, or level of care that is necessary for the proper treatment or management of an illness, injury, or disability is one that:

- Will, or is reasonably expected to, prevent the onset of an illness, condition, injury or disability.
- Will, or is reasonably expected to, reduce or ameliorate the physical, mental or developmental effects of an illness, condition, injury or disability.
- Will assist the Member to achieve or maintain maximum functional capacity in performing daily activities, taking
into account both the functional capacity of the Member and those functional capacities that are appropriate for Members of the same age.

DESCRIPTION:
The MammoSite® Radiation Therapy System is a minimally invasive method of delivering internal radiation therapy following a lumpectomy for breast cancer. A small balloon catheter is inserted inside the tumor resection cavity. A tiny radioactive seed is inserted into the balloon and delivers the radiation therapy. This focuses the radiation dose on the area of the breast at highest risk for tumor recurrence.

The Axxent Electronic Brachytherapy System uses disposable miniature X-ray radiation sources to deliver electronically generated ionizing radiation directly to tumor beds. Electronic brachytherapy is intended to minimize exposure of the patient's healthy tissue to unnecessary radiation.

INDICATIONS:
The MammoSite Radiation Therapy System may be used independently as the sole monotherapy or as a brachytherapy boost in conjunction with whole-breast external irradiation following breast-conserving surgery.

MammoSite breast brachytherapy may be used as a sole monotherapy when all of the following criteria are met:

1. following breast conserving surgery with surgical margins free of tumor; AND
2. the pathology is identified as Stage 0, I, or II (stage II tumors 3 cm in diameter or less); AND
   histologically confirmed ductal carcinoma in situ or invasive adenocarcinoma of the breast; AND
3. no more than 3 positive axillary nodes
4. is 45 years or greater in age for invasive carcinoma and 50 years or older for ductal carcinoma in situ when accelerated partial breast irradiation is being used as the sole form of radiation therapy in lieu of whole breast irradiation
5. The sentinel lymph node is negative

CONTRAINDICATION:
The MammoSite Radiation Therapy System is contraindicated for patients in which the tumor location is in an area of insufficient tissue (i.e. inadequate device to skin ratio).

EXCLUSIONS:
The Plan does NOT provide coverage for the use Electronic Brachytherapy for any indication because it is considered experimental, investigational or unproven. There is insufficient evidence in the peer-reviewed published medical literature to establish the effectiveness of this technology on health outcomes when compared to established tests or technologies.

Note: A complete description of the process by which a given technology or service is evaluated and determined to be experimental, investigational or unproven is outlined in MP 15 - Experimental Investigational or Unproven Services or Treatment.

Medicaid Business Segment:
Any requests for services, that do not meet criteria set in the PARP, may be evaluated on a case by case basis.

CODING ASSOCIATED WITH : Intracavitary Balloon Brachytherapy for Breast Cancer
The following codes are included below for informational purposes and may not be all inclusive. Inclusion of a procedure or device code(s) does not constitute or imply coverage nor does it imply or guarantee provider reimbursement. Coverage is determined by the member specific benefit plan document and any applicable laws regarding coverage of specific services. Please note that per Medicare coverage rules, only specific CPT/HCPCS Codes may be covered for the Medicare Business Segment. Please consult the CMS website at www.cms.gov or the local Medicare Administrative Carrier (MAC) for more information on Medicare coverage and coding requirements.

77263 Therapeutic radiology treatment planning; complex
77290 Therapeutic radiology simulation-aided setting; complex
Basic radiation dosimetry calculation, central axis depth dose calculation, TDF, NSD, gap calculation, off axis factor, tissue inhomogeneity factors, calculation of non-ionizing radiation surface and depth dose, as required during course of treatment, only when prescribed by the treating physician.

Special medical radiation physics consultation

Special treatment procedure (eg, total body irradiation, hemibody radiation, per oral, endocavitary or intraoperative cone irradiation)

Intracavitary radiation source application; simple

Intracavitary radiation source application; intermediate

Intracavitary radiation source application; complex

Remote afterloading high dose rate radionuclide interstitial or intracavitary brachytherapy, includes basic dosimetry, when performed; 1 channel

Remote afterloading high dose rate radionuclide skin surface brachytherapy, includes basic dosimetry, when performed; lesion diameter up to 2.0 cm or 1 channel

Remote afterloading high dose rate radionuclide skin surface brachytherapy, includes basic dosimetry, when performed; lesion diameter over 2.0 cm and 2 or more channels, or multiple lesions

Placement of radiotherapy after loading balloon catheter into the breast for interstitial radioelement application following partial mastectomy, includes imaging guidance; on date separate from partial mastectomy

Placement of radiotherapy after loading brachytherapy catheters (multiple tube and button type) into the breast for interstitial radioelement application following (at the time of or subsequent) partial mastectomy

Unlisted procedure, breast

Placement and removal (if performed) of applicator into breast for radiation therapy

Implantable radiation dosimeter, each

Tissue marker, implantable, any type, each

Placement of interstitial device(s) for radiation therapy/surgery guidance (e.g., fiducial markers, dosimeter), for other than the following sites (any approach): abdomen, pelvis, prostate, retroperitoneum, thorax, single or multiple.

High dose rate electronic brachytherapy, skin surface application, per fraction, includes basic dosimetry, when performed

High dose rate electronic brachytherapy, interstitial or intracavitary treatment, per fraction, includes basic dosimetry, when performed


LINE OF BUSINESS:
Eligibility and contract specific benefits, limitations and/or exclusions will apply. Coverage statements found in the line of business specific benefit document will supersede this policy. For Medicare, applicable LCD’s and NCD’s will supercede this policy. For PA Medicaid Business segment, this policy applies as written.

REFERENCES:
Winifred S. Hayes, Hayes Inc Online, Brachytherapy for Breast Cancer, April 2000. Update BRAC0201.14; 7/31/03.


Xoft. [website]. Freemont (CA): Xoft, INC; [Accessed on 09/14/07]. Available at: http://www.zoftmicrotube.com


AMERICAN BRACHYTHERAPY SOCIETY BREAST BRACHYTHERAPY TASK GROUP
Martin Keisch, M.D., Douglas Arthur, M.D., Rakesh Patel, M.D., Mark Rivard, PhD., Frank Vicini, M.D.


National Comprehensive Cancer Network. NCCN clinical practice guidelines in oncology, breast cancer. v4.2022


This policy will be revised as necessary and reviewed no less than annually

Devised: 11/03

Revised: 10/04, 10/05 (expanded criteria, updated coding and reference); 11/06 (contraindication); 11/07 (re-titled policy, added exclusions), 9/11 (added indications)

Reviewed: 11/08; 10/09; 09/10, 9/12, 9/13, 9/14, 9/15, 9/16, 8/17, 8/18, 8/19, 8/20, 8/21, 8/22

Geisinger Health Plan may refer collectively to health care coverage sponsors Geisinger Health Plan, Geisinger Quality Options, Inc., and Geisinger Indemnity Insurance Company, unless otherwise noted. Geisinger Health Plan is part of Geisinger, an integrated health care delivery and coverage organization.

Coverage for experimental or investigational treatments, services and procedures is specifically excluded under the member's certificate with Geisinger Health Plan. Unproven services outside of an approved clinical trial are also specifically excluded under the member's certificate with Geisinger Health Plan. This policy does not expand coverage to services or items specifically excluded from coverage in the member's certificate with Geisinger Health Plan. Additional information can be found in MP015 Experimental, Investigational or Unproven Services.

Prior authorization and/or pre-certification requirements for services or items may apply. Pre-certification lists may be found in the member’s contract specific benefit document. Prior authorization requirements can be found at https://www.geisinger.org/health-plan/providers/ghp-clinical-policies

Please be advised that the use of the logos, service marks or names of Geisinger Health Plan, Geisinger Quality Options, Inc. and Geisinger Indemnity Insurance Company on a marketing, press releases or any communication piece regarding the contents of this medical policy is strictly prohibited without the prior written consent of Geisinger Health Plan. Additionally, the above medical policy does not confer any endorsement by Geisinger Health Plan, Geisinger Quality Options, Inc. and Geisinger Indemnity Insurance Company regarding the medical service, medical device or medical lab test described under this medical policy.