

Medical Policy Manual

Approved Revision: Do Not Implement Until 6/2/21

Pertuzumab (Perjeta®)

NDC CODE(S) 50242-0145-XX PERJETA 420MG/14ML Solution (GENENTECH)

DESCRIPTION

Pertuzumab is a recombinant monoclonal antibody. It is an antineoplastic agent that targets the human epidermal growth factor receptor 2 protein known as HER2. It blocks two major intracellular signaling pathways, mitogen-activated protein (MAP) kinase and phosphoinositide 3-kinase (PI3K). This results in cell growth arrest and apoptosis (cell destruction), inhibiting the proliferation of human tumor cells. By combining pertuzumab with trastuzumab, tumor inhibition was significantly increased.

POLICY

- Pertuzumab for the treatment of the following is considered **medically necessary** if the medical appropriateness criteria are met. **(See Medical Appropriateness below.)**
 - Breast Cancer
 - Colorectal Cancer
- Pertuzumab for the treatment of other conditions/diseases is considered **investigational**.

MEDICAL APPROPRIATENESS

INITIAL APPROVAL CRITERIA

Universal Criteria

- Patient is at least 18 years of age; **AND**
- Left ventricular ejection fraction (LVEF) is within normal limits prior to initiating therapy and will be assessed at regular intervals (e.g., every 3 months) during treatment; **AND**
- Patient has human epidermal growth factor receptor 2 (HER2)-positive* disease **as determined by an FDA-approved or CLIA-compliant test****; **AND**
- Therapy will not be used in combination with pertuzumab/trastuzumab and hyaluronidase-zzxf (Phesgo); **AND**

Breast Cancer

- Used as adjuvant treatment; **AND**
 - Patient has locally advanced or node positive disease **OR** early stage disease at high risk of recurrence; **AND**
 - Used in combination with a trastuzumab-based regimen; **OR**
- Used as neoadjuvant treatment for breast preservation; **AND**
 - Patient has locally advanced, inflammatory, or early stage disease; **AND**
 - Used in combination with trastuzumab and chemotherapy; **OR**
- Used for recurrent or metastatic disease; **AND**
 - Used as first-line therapy in combination with trastuzumab and either paclitaxel **OR** docetaxel; **OR**
 - Used as second-line therapy in combination with a trastuzumab-based regimen; **AND**
 - Patient was previously treated with trastuzumab and chemotherapy; **AND**
 - Patient has not previously received pertuzumab

Colorectal Cancer



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- Used for RAS and BRAF wild-type (WT) disease in combination with trastuzumab in patients who have not previously received HER2-targeted therapy; **AND**
 - Used as subsequent therapy for progression of advanced or metastatic disease after at least one prior line of treatment in the advanced or metastatic disease setting; **OR**
 - Patient is not appropriate for intensive therapy; **AND**
 - Used as initial systemic therapy for locally unresectable (or medically inoperable) or metastatic disease; **OR**
 - Used for unresectable or metastatic disease that remains unresectable after primary treatment; **OR**
 - Used for metastatic disease in patients who have received adjuvant FOLFOX or CapeOX more than 12 months ago **OR** who have received previous fluorouracil/leucovorin (5-FU/LV) or capecitabine therapy

*HER2-positive overexpression criteria of ANY ONE of the following:
• Immunohistochemistry (IHC) assay 3+
• Dual-probe in situ hybridization (ISH) assay HER2/CEP17 ratio ≥ 2.0 AND average HER2 copy number ≥ 4.0 signals/cell
• Dual-probe in situ hybridization (ISH) assay AND concurrent IHC indicating ANY ONE of the following:
○ HER2/CEP17 ratio ≥ 2.0 AND average HER2 copy number < 4.0 signals/cell AND concurrent IHC 3+
○ HER2/CEP17 ratio < 2.0 AND average HER2 copy number ≥ 6.0 signals/cell AND concurrent IHC 2+ or 3+
○ HER2/CEP17 ratio < 2.0 AND average HER2 copy number ≥ 4.0 and < 6.0 signals/cell AND concurrent IHC 3+

***If confirmed using an immunotherapy assay - <http://www.fda.gov/companiondiagnostics>*

RENEWAL CRITERIA

- Patient continues to meet universal and other indication-specific relevant criteria such as concomitant therapy requirements (not including prerequisite therapy), performance status, etc. identified Initial Approval Criteria; **AND**
- Disease response with treatment as defined by stabilization of disease or decrease in size of tumor or tumor spread; **AND**
- Absence of unacceptable toxicity from the drug. Examples of unacceptable toxicity include: left ventricular dysfunction, severe infusion-related reactions, hypersensitivity reactions/anaphylaxis, etc.; **AND**
- Left ventricular ejection fraction (LVEF) is $>45\%$ OR LVEF is $\geq 40\%$ and absolute decrease is $<10\%$ from baseline (LVEF results must be within the previous 3 months); **AND**
- Use for neoadjuvant and adjuvant breast cancer treatment is limited to a total of 1 year of treatment (total of 18 cycles)

DOSAGE/ADMINISTRATION

INDICATION	DOSE
Breast Cancer	Administer 840 mg intravenously x 1 dose, then 420 mg intravenously every 21 days thereafter until disease progression or unmanageable toxicity <ul style="list-style-type: none"> • Neoadjuvant therapy consists of 3 to 6 cycles prior to surgery • Use for neoadjuvant and adjuvant early breast cancer treatment is limited to a total of 1 year of treatment (total of 18 cycles) <i>*Note: When used for metastatic breast cancer, therapy may be continued until disease progression or unmanageable toxicity.</i>
Colorectal Cancer	Administer 840 mg intravenously x 1 dose, then 420 mg intravenously every 21 days thereafter until disease progression or unmanageable toxicity

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LENGTH OF AUTHORIZATION

- Coverage is provided for 6 months and may be renewed (unless otherwise specified).
- Use for neo-adjuvant and adjuvant breast cancer is limited to a total of 1 year of treatment [18 cycles] (*Note: When used for metastatic breast cancer, therapy may be continued until disease progression or unmanageable toxicity.)

DOSAGE LIMITS

Max Units (per dose and over time) [HCPCS Unit]:

Loading Dose

- 840 billable units x 1 dose

Maintenance Dose

- 420 billable units every 21 days

APPLICABLE TENNESSEE STATE MANDATE REQUIREMENTS

BlueCross BlueShield of Tennessee's Medical Policy complies with Tennessee Code Annotated Section 56-7-2352 regarding coverage of off-label indications of Food and Drug Administration (FDA) approved drugs when the off-label use is recognized in one of the statutorily recognized standard reference compendia or in the published peer-reviewed medical literature.

IMPORTANT REMINDER

We develop Medical Policies to provide guidance to Members and Providers. This Medical Policy relates only to the services or supplies described in it. The existence of a Medical Policy is not an authorization, certification, explanation of benefits or a contract for the service (or supply) that is referenced in the Medical Policy. For a determination of the benefits that a Member is entitled to receive under his or her health plan, the Member's health plan must be reviewed. If there is a conflict between the Medical Policy and a health plan, the express terms of the health plan will govern.

ADDITIONAL INFORMATION

For appropriate chemotherapy regimens, dosage information, contraindications, precautions, warnings, and monitoring information, please refer to one of the standard reference compendia (e.g., the NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines®) published by the National Comprehensive Cancer Network®, Drugdex Evaluations of Micromedex Solutions at Truven Health, or The American Hospital Formulary Service Drug Information).

SOURCES

1. Perjeta [package insert]. South San Francisco, CA; Genentech, Inc.; January 2020. Accessed October 2020.
2. Referenced with permission from the NCCN Drugs & Biologics Compendium (NCCN Compendium®) pertuzumab. National Comprehensive Cancer Network, 2020. The NCCN Compendium® is a derivative work of the NCCN Guidelines®. NATIONAL COMPREHENSIVE CANCER NETWORK®, NCCN®, and NCCN GUIDELINES® are trademarks owned by the National Comprehensive Cancer Network, Inc. To view the most recent and complete version of the Compendium, go online to NCCN.org. Accessed October 2020.



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3. Referenced with permission from the NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines®) for Breast Cancer 56.2020. National Comprehensive Cancer Network, 2020. NATIONAL COMPREHENSIVE CANCER NETWORK®, NCCN®, and NCCN GUIDELINES® are trademarks owned by the National Comprehensive Cancer Network, Inc. To view the most recent and complete version of the Guidelines, go online to NCCN.org. Accessed October 2020.
4. Wolff AC, Hammond EH, Allison KH, et al. Human epidermal growth factor receptor 2 testing in breast cancer: American Society of Clinical Oncology/College of American Pathologists Clinical Practice Guideline Focused Update. *J Clin Oncol* 2018;36:2105-2122.
5. Gianni L, Pienkowski T, Im YH, et al. Efficacy and safety of neoadjuvant pertuzumab and trastuzumab in women with locally advanced, inflammatory, or early HER2-positive breast cancer (NeoSphere): a randomised multicentre, open-label, phase 2 trial. *Lancet Oncol*. 2012 Jan;13(1):25-32.
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7. Schneeweiss A., Chia S., Hickish T., et al. Pertuzumab plus trastuzumab in combination with standard neoadjuvant anthracycline-containing and anthracycline-free chemotherapy regimens in patients with HER2-positive early breast cancer: a randomized phase II cardiac safety study (TRYPHAENA). *Ann Oncol* 2013; 24 (9): 2278-2284.
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9. Hainsworth JD, Meric-Bernstam F, Swanton C, et al. Targeted Therapy for Advanced Solid Tumors on the Basis of Molecular Profiles: Results From MyPathway, an Open-Label, Phase IIa Multiple Basket Study. *Clin Oncol*. 2018 Feb 20;36(6):536-542.
10. Referenced with permission from the NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines®) for Colon Cancer 4.2020. National Comprehensive Cancer Network, 2020. NATIONAL COMPREHENSIVE CANCER NETWORK®, NCCN®, and NCCN GUIDELINES® are trademarks owned by the National Comprehensive Cancer Network, Inc. To view the most recent and complete version of the Guidelines, go online to NCCN.org. Accessed October 2020.
11. Lexi-Comp Online. (2021). AHFS DI. *Pertuzumab*. Retrieved January 21, 2021 from Lexi-Comp Online with AHFS.
12. MICROMEDEX Healthcare Series. Drugdex Evaluations. (2021, January). *Pertuzumab*. Retrieved January 21, 2021 from MICROMEDEX Healthcare Series.

EFFECTIVE DATE 6/2/2021

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