## HER2-Overexpressing Breast Cancer: Targeted Therapy Competitor Guide

#### **COMPARISONS PROHIBITED**

- This Training Tool is for internal training purposes only and cannot be used as a detail aid in your communications with healthcare professionals.
- The purpose of this Training Tool is to provide you with a general understanding of the targeted therapies used to treat HER2-overexpressing breast cancer. Please understand that the information contained in this Training Tool about HER2-overexpressing breast cancer products is solely for your information and may not be used in promotion.
- We expect the healthcare professionals you call on to be knowledgeable about products that target
  HER2-overexpressing breast cancer, and it is highly likely that your customer may mention a treatment for
  HER2-overexpressing breast cancer during a detail or that you will be asked specific questions about these
  products. Accordingly, it is important that you are familiar with them. However, according to Policy 1 in the US
  Sales and Marketing Communications Policy Letter, you are not to discuss products from other companies with
  healthcare professionals.
- You cannot use the data contained in this Training Tool to compare the efficacy and safety of ONTRUZANT™
   (trastuzumab-dttb) with that of other products mentioned in this Training Tool. The FDA may consider such comparisons to be false and misleading because no head-to-head studies have been conducted.
   Therefore, you are prohibited from making such comparisons.





### Targeted Therapies Approved for HER2-overexpressing Breast Cancer **Herceptin and Its Biosimilars**

### Herceptin and its biosimilars are all indicated for:

Select patients for therapy based on an FDA-approved companion diagnostic for a trastuzumab product.

- Adjuvant Breast Cancer: Adjuvant treatment of HER2-overexpressing node-positive or nodenegative (ER/PR negative or with one high-risk feature) breast cancer:
  - As part of a treatment regimen consisting of doxorubicin, cyclophosphamide, and either paclitaxel or docetaxel
  - As part of a treatment regimen with docetaxel and carboplatin
  - As a single agent following multi-modality anthracycline-based therapy

#### Metastatic Breast Cancer:

- In combination with paclitaxel for first-line treatment of HER2-overexpressing metastatic breast cancer
- As a single agent for treatment of HER2overexpressing breast cancer in patients who have received one or more chemotherapy regimens for metastatic disease

#### Metastatic Gastric Cancer:

— In combination with cisplatin and capecitabine or 5-fluorouracil, for the treatment of patients with HER2-overexpressing metastatic gastric or gastroesophageal junction adenocarcinoma who have not received prior treatment for metastatic disease





# Targeted Therapies Approved for HER2-overexpressing Breast Cancer **Herceptin and Its Biosimilars**

| Product   | Year Approved | Marketed By            | Vial Size(s)  | Presentation   |
|---|---------------|------------------------|---|--|
| Herceptin®<br>(trastuzumab<br>for injection,<br>for IV use    | 1998          | Genentech              | 150 mg single-dose vial or<br>a 420 mg multiple-dose vial | Herceptin' 150 mg Folderin for Inflationates for Brastucumab  150 mg Trastucumab  150 mg Trastucumab  150 mg Trastucumab  150 mg Trastucumab  150 mg Trastucumab T |
| Ogivri™<br>(trastuzumab-dkst)<br>for injection, for IV use    | 2017          | Mylan                  | 150 mg single-dose vial or<br>a 420 mg multiple-dose vial | SO GISTA Ready  Ogivri  (Iradiumahadas)  |
| Herzuma®<br>(trastuzumab-pkrb)<br>for injection, for IV use   | 2018          | Teva                   | 150 mg single-dose vial or<br>a 420 mg multiple-dose vial | MCC 65465-307-47  Resplaying dates and  HERZUMA* (Instrumab picts) For Injection  420 mg/s/s/s  For Injection  420 mg/s/s  For Injection  420 mg/s  For Injection  420 mg/s  For Injection  420 mg/s  For Injection |
| Kanjinti™<br>(trastuzumab-anns)<br>for injection, for IV use  | 2019          | Amgen                  | 150 mg single-dose vial or<br>a 420 mg multiple-dose vial | The private of the constitution of the constit |
| Ontruzant™<br>(trastuzumab-dttb)<br>for injection, for IV use | 2019          | Merck Sharp<br>& Dohme | 150 mg single-dose vial or<br>a 420 mg multiple-dose vial | Ontruzant Groppiss  Order  Ontruzant Groppiss  Order  Ontruzant Groppiss  Order  Ontruzant Groppiss  Order  Ontruzant Groppiss  Ontruzant Groppiss |
| Trazimera™<br>(trastuzumab-qyyp)<br>for injection, for IV use | 2019          | Pfizer                 | 420 mg multiple-dose vial                                 | Trazimera:  Statistica mucho vyvil For Injection  420 mg/vial  Basepana diaret for statistical |





## Targeted Therapies Approved for HER2-overexpressing Breast Cancer **Other Targeted Therapies**

| Product   | Year<br>Approved | Marketed By    | Breast Cancer Indication   | Dosage Forms/<br>Strengths   | Presentation   |
|---|------------------|----------------|--|--|--|
| Tykerb® (lapatinib)<br>tablets, for oral use  | 2007             | Novartis       | <ul> <li>Metastatic Breast Cancer (MBC):</li> <li>In combination with capecitabine for the treatment of patients with advanced or metastatic breast cancer whose tumors overexpress HER2 and who have received prior therapy including an anthracycline, a taxane, and trastuzumab [Limitations of Use: Patients should have disease progression on trastuzumab prior to initiation of treatment with Tykerb in combination with capecitabine]</li> <li>In combination with letrozole for the treatment of postmenopausal women with hormone receptor-positive MBC that overexpresses the HER2 receptor for whom hormonal therapy is indicated</li> </ul>  | 250 mg tablets   | Tykerbusen Tu Ingenia dengan d |
| Perjeta®<br>(pertuzumab)<br>for injection,<br>for IV use  | 2012             | Genentech      | <ul> <li>Early Breast Cancer (EBC): in combination with trastuzumab and chemotherapy for:         <ul> <li>Neoadjuvant treatment of patients with HER2-positive, locally advanced, inflammatory, or early stage breast cancer (either &gt; 2 cm in diameter or node positive)</li> <li>Adjuvant treatment of patients with of HER2-positive EBC at high risk of recurrence</li> </ul> </li> <li>Metastatic Breast Cancer: in combination with trastuzumab and docetaxel for the treatment of patients with HER2-positive MBC who have not received prior anti-HER2 therapy or chemotherapy for metastatic disease</li> </ul>   | Injection:<br>420 mg/14 mL<br>(30 mg/mL)<br>in a single-dose vial  | Perjeta 420 mg Concentrate for solution for influsion Pertuzumab  420 mg / 14 ml Intravenous use  Perjeta 420 mg Concentrate for solution Franzumab Intravenous use  Tompy 14 ml Intravenous use   |
| Kadcyla®<br>(ado-trastuzumab<br>emtansine) for<br>injection, for IV use                             | 2013             | Genentech      | <ul> <li>Early Breast Cancer: single-agent adjuvant treatment of patients with HER2-positive EBC who have residual invasive disease after neoadjuvant taxane and trastuzumab-based treatment</li> <li>Metastatic Breast Cancer: Single-agent treatment of patients with HER2-positive, MBC who previously received trastuzumab and a taxane, separately or in combination. Patients should have either:         <ul> <li>Received prior therapy for metastatic disease, or</li> <li>Developed disease recurrence during or within 6 months of completing adjuvant therapy</li> </ul> </li> </ul>   | 100 mg or 160 mg<br>single-dose vials  | Kadcyla  (ado-trastuzumab emtansine) For Injection  100 mg per vial  for intervenes inhalms only forcential and Disks great force intervenes inhalms on the force inhalms on t |
| Nerlynx™ (neratinib)<br>tablets, for oral use   | 2017             | Puma           | <ul> <li>Early Breast Cancer: As a single agent, indicated for the extended adjuvant treatment of adult patients with early stage HER2-positive-breast cancer, to follow adjuvant trastuzumab-based therapy</li> <li>Advanced or Metastatic Breast Cancer: In combination with capecitabine, indicated to treat adult patients with advanced or metastatic HER2-positive breast cancer who have received 2 or more prior anti-HER2-based regimens in the metastatic setting</li> </ul>   | 40-mg tablets  | TOTAL STATE OF THE |
| ENHERTU®<br>(fam-trastuzumab<br>deruxtecan-nxki) for<br>injection, for IV use                       | 2019             | Daiichi Sankyo | Metastatic Breast Cancer: Indicated for the treatment of adult patients with unresectable or metastatic HER2-positive breast cancer who have received 2 or more prior anti-HER2-based regimens in the metastatic setting   | 100-mg single-use vial   | ENTER OF THE PROPERTY OF THE P |
| Herceptin HYLECTA™<br>(trastuzumab and<br>hyaluronidase-oysk)<br>injection, for<br>subcutaneous use | 2019             | Genentech      | <ul> <li>Adjuvant Breast Cancer: Adjuvant treatment of HER2-overexpressing node-positive or node-negative (ER/PR negative or with 1 high-risk feature) breast cancer</li> <li>— As part of a treatment regimen consisting of doxorubicin, cyclophosphamide, and either paclitaxel or docetaxel</li> <li>— As part of a treatment regimen with docetaxel and carboplatin</li> <li>— As a single agent following multi-modality anthracycline-based therapy</li> <li>Metastatic Breast Cancer</li> <li>— In combination with paclitaxel for first-line treatment of HER2-overexpressing metastatic breast cancer</li> <li>— As a single agent for treatment of HER2-overexpressing breast cancer in patients who have received 1 or more chemotherapy regimens for metastatic disease</li> </ul> | 600 mg trastuzumab<br>and 10,000 units<br>hyaluronidase per 5 mL<br>(120 mg/2,000 units per<br>mL) in a single-dose vial | NDC 50242-077-01  Herceptin Hylecta™ (trastuzumab and hyaluroidase-oysk) Injection  500 mg and 10,000 units/5 mL (120 mg and 2,000 units/mL)  For Subcutaneous Use Only Single-Dose Vial Discard Unused Portion  |



