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Author/s:

Anders, C;Loi, S;Hamilton, EP;Jhaveri, K;Schmid, P;Gokmen, E;Im, S-A;Karacin, C;Barrios, CH;Park, YH;Uzunoglu, S;Boston, S;Konpa, A;Mondal, S;André, F

Title:

185P Safety, tolerability, and antitumor activity of trastuzumab deruxtecan (T-DXd) in patients (pts) with HER2+ metastatic breast cancer (mBC) and active brain metastases (BM) in DESTINY-Breast07 (DB-07)

Date:

2024-05

Citation:

Anders, C., Loi, S., Hamilton, E. P., Jhaveri, K., Schmid, P., Gokmen, E., Im, S. -A., Karacin, C., Barrios, C. H., Park, Y. H., Uzunoglu, S., Boston, S., Konpa, A., Mondal, S. & André, F. (2024). 185P Safety, tolerability, and antitumor activity of trastuzumab deruxtecan (T-DXd) in patients (pts) with HER2+ metastatic breast cancer (mBC) and active brain metastases (BM) in DESTINY-Breast07 (DB-07). *ESMO Open*, 9, pp.103207-103207. <https://doi.org/10.1016/j.esmoop.2024.103207>.

Persistent Link:

<https://hdl.handle.net/11343/351910>

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<https://doi.org/10.1016/j.esmooop.2024.103205>

**184MO** **First-in-human phase I/IIa study of the first-in-class, next-generation CDK4-selective inhibitor PF-07220060 in combination with endocrine therapy (ET) in patients (pts) with HR+/HER2- metastatic breast cancer (mBC) who progressed on prior CDK4/6 inhibitors (CDK4/6i): Safety and efficacy update**

T.A. Yap<sup>1</sup>, M.R. Sharma<sup>2</sup>, E.P. Hamilton<sup>3</sup>, P. Lorusso<sup>4</sup>, C. Basu<sup>5</sup>, M. Delioukina<sup>5</sup>, F. Liu<sup>6</sup>, H. Neumann<sup>7</sup>, J. Park<sup>8</sup>, A. Giordano<sup>9</sup>

<sup>1</sup>Investigational Cancer Therapeutics Department (Phase I Program), The University of Texas MD Anderson Cancer Center - Main Building, Houston, TX, USA; <sup>2</sup>Medical Oncology Department, START Midwest, Grand Rapids, MI, USA; <sup>3</sup>Cancer Research Program, Sarah Cannon Research Institute, Nashville, TN, USA; <sup>4</sup>Medical Oncology Department, Yale School of Medicine - Radiology and Biomedical Imaging, New Haven, MI, USA; <sup>5</sup>Pfizer Inc. - USA, La Jolla, CA, USA; <sup>6</sup>Translational Oncology, Pfizer Inc., Cambridge, MA, USA; <sup>7</sup>Oncology Early Development, Pfizer Inc. - USA, La Jolla, CA, USA; <sup>8</sup>ECD Oncology, Pfizer Inc. - USA, La Jolla, CA, USA; <sup>9</sup>Medical Oncology, Dana-Farber Cancer Institute, Boston, MA, USA

**Background:** PF-07220060 is a novel potent oral CDK4i with significant sparing of CDK6. Preliminary safety and dose escalation data from this phI/IIa study were previously presented. Here we report updated safety and efficacy data in pts with HR+/HER2- mBC, who progressed on prior CDK4/6i and ET, treated with PF-07220060 + ET.

**Methods:** This study in pts with advanced solid tumors was enriched for pts with HR+/HER2- mBC who received ≥2 lines of treatment including ET and CDK4/6i. Prior fulvestrant and chemotherapy were allowed. Study objectives were to assess safety, tolerability, and antitumor activity of PF-07220060 alone and in combination with ET.

**Results:** At data cutoff (Nov 1, 2023), 33 pts received PF-07220060 (300mg/400mg BID) in combination with letrozole or fulvestrant (Parts 1B + 1C). Median age was 62.0y (range 41–82); ECOG PS was 0 (36.4%) or 1. Median prior lines of systemic therapy (advanced setting) was 4.0 (range 1–11). All pts had prior CDK4/6i treatment, 24 (72.7%) had prior fulvestrant, and 22 (66.7%) had prior chemotherapy in the advanced/metastatic setting. Most frequent treatment-emergent adverse events (TEAEs) were neutropenia (54.5%; 18.2% Grade 3 [G3]), diarrhea (42.4%; 0% G3), and nausea (42.4%; 3.0% G3), with no >G3 TEAEs. Dose modifications due to TEAEs included: 1 (3.0%) pt discontinued PF-07220060, 5 (15.2%) pts had dose reduction, and 10 (30.3%) pts had dose interruptions. In 25 pts with measurable disease who progressed on prior CDK4/6i + ET, 8 (32.0%) had confirmed RECIST v1.1 objective responses (1 CR, 7 PR). Clinical benefit response (CR, PR, or ≥24 wks stable disease) was seen in 20/33 (60.6%) pts. Median progression-free survival was 8.1 months (95% CI: 5.3, 10.9). Confirmed objective responses (PRs) were observed irrespective of ESR1 or PI3K pathway mutations.

**Conclusions:** PF-07220060 + ET showed a favorable safety profile with few hematologic adverse events and infrequent dose modifications, and promising efficacy despite prior CDK4/6i treatment, irrespective of key mutations.

**Clinical trial identification:** NCT04557449.

**Editorial acknowledgement:** Medical writing support, conducted in accordance with the International Committee of Medical Journal Editors (ICMJE) guidelines, was provided by Kathleen Richter, PhD and Rachel C. Brown, PhD of Oxford Pharmaceutical, Inc., Newtown, PA.

**Legal entity responsible for the study:** Pfizer, Inc.

**Funding:** Pfizer Inc.

**Disclosure:** T.A. Yap: Financial Interests, Personal, Other, Consultant: Almac, Aduro, AstraZeneca, Atrin, Axiom, Bayer, Bristol Myers Squibb, Clovis, Cybexa, EMD Serono, Guidepoint, Iglynta, I-Mab, Janssen, Merck, Pfizer, Repare, Roche, Schrodinger, Varian, Zai Labs, AbbVie, Acrivon, Adagene, Amphista, Artios, Athena, Avoro, Baptist Health Systems, BeiGene, Boxer, C4 Therapeutics, Calithera, Cancer Research UK, Diffusion, F-Star, Genmab, Glenmark, GLG, Globe Life Sciences, GSK, Idience, ImmuneSensor, Institut Gustave Roussy, Intellisphere, Kyn, MEI Pharma, Mere, Natera, Nexys, Novocure, OHSU, OncoSec, Ono Pharma, Pegascy, PER, Piper-Sandler, Prolynx, resTORbio, Theragnostics, Versant, Vibliome, Xinthera, ZielBio, Radiopharm Theranostics, Sanofi, CUHK Committee, Ellipses.Life, LRG1, Panangium, Pliant Therapeutics, Seagen, Synthis, Tessellate Bio, TD2 Theragnostics, Tome Biosciences, Zentaris; Financial Interests, Personal, Other, University of Texas MD Anderson Cancer Center, where I am Medical Director of the Institute for Applied Cancer Science, which has a commercial interest in DDR and other inhibitors (IACS30380/ART0380 was licensed to Artios); MD Anderson Cancer Center, Institute for Applied Cancer Sciences; Financial Interests, Personal, Stocks/Shares: Seagen; Financial Interests, Institutional, Other, Grant/Research support: Bayer, Cytel, EMD Serono, GSK, Karyopharm, Pfizer, Repare, Sanofi, Artios, AstraZeneca, BeiGene, BioNTech, Blueprint, BMS, Clovis, Constellation, Eli Lilly, Forbuis, F-Star, Genentech, Haihe,

ImmuneSensor, Ionis, Ipsen, Jounce, KSQ, Kyowa, Merck, Mirati, Novartis, Ribon Therapeutics, Regeneron, Rubius, Scholar Rock, Seattle Genetics, Tesaro, Vivace, Acrivon, Zenith; Financial Interests, Institutional, Other, Grant/Research Support: Acrivon; Financial Interests, Institutional, Research Grant: Boundless Bio, Ideaya. M.R. Sharma: Financial Interests, Personal, Other, Research funding/grant support: AbbVie, Adcentrx Therapeutics, Agenus, Alkermes, Alpline Immune Sciences, ALX Oncology, Artios, Astellas Pharma, AstraZeneca, Black Diamond Therapeutics, Boehringer Ingelheim, Bolt Biotherapeutics, Boundless Bio Therapeutics, Bristol Myers Squibb, Celgene. E.P. Hamilton: Financial Interests, Personal, Other, Research funding/grant support: AbbVie, Accutar Biotech, Acerta Pharma, ADC Therapeutics, Akeso Biopharma, Amgen, Aravive, ArQule, Artios, Arvinas, AstraZeneca, AtlasMedx, BeiGene, Black Diamond Therapeutics, Bliss Biopharmaceutical, Boehringer Ingelheim, Bristol Myers Squibb, Cascadia. P. Lorusso: Financial Interests, Personal, Other, Research funding/grant support: Genentech; served as consultant for AbbVie, ABL Bio, Actuate Therapeutics, Agenus, Amgen, AstraZeneca, Atreca, BAKX Therapeutics, Boehringer Ingelheim, Compass Therapeutics, Cullinan Oncology, DAAN Biotherapeutics, EMD Serono, GSK, I-Mab, ImCh. C. Basu, M. Delioukina, F. Liu, H. Neumann, J. Park: Financial Interests, Personal, Stocks/Shares: Pfizer Inc; Financial Interests, Personal, Full or part-time Employment: Pfizer Inc. A. Giordano: Financial Interests, Personal, Other, Consultant: Pfizer Inc.

<https://doi.org/10.1016/j.esmooop.2024.103206>

**185P** **Safety, tolerability, and antitumor activity of trastuzumab deruxtecan (T-DXd) in patients (pts) with HER2+ metastatic breast cancer (mBC) and active brain metastases (BM) in DESTINY-Breast07 (DB-07)**

C. Anders<sup>1</sup>, S. Loi<sup>2</sup>, E.P. Hamilton<sup>3</sup>, K. Jhaveri<sup>4</sup>, P. Schmid<sup>5</sup>, E. Gokmen<sup>6</sup>, S-A. Im<sup>7</sup>, C. Karacim<sup>8</sup>, C.H. Barrios<sup>9</sup>, Y.H. Park<sup>10</sup>, S. Uzunoglu<sup>11</sup>, S. Boston<sup>12</sup>, A. Konpa<sup>13</sup>, S. Mondal<sup>12</sup>, F. André<sup>14</sup>

<sup>1</sup>Division of Medical Oncology, Department of Medicine, Duke Cancer Institute, Durham, NC, USA; <sup>2</sup>Translational Breast Cancer Research, Peter MacCallum Cancer Centre, Melbourne, VIC, Australia; <sup>3</sup>Breast Cancer Research Program, Sarah Cannon Research Institute, Nashville, TN, USA; <sup>4</sup>Breast Medicine and Early Drug Development, Memorial Sloan Kettering Cancer Center, New York, NY, USA; <sup>5</sup>Centre of Experimental Cancer Medicine, Barts Mary University of London, London, UK; <sup>6</sup>Department of Internal Medical Sciences, Ege University Faculty of Medicine, Izmir, Turkey; <sup>7</sup>Medical Oncology Center, Seoul National University Hospital, Cancer Research Institute, Seoul National University College of Medicine, Seoul, Republic of Korea; <sup>8</sup>Division of Medical Oncology, Dr. Abdurrahman Yurtaslan Ankara Oncology Training and Research Hospital, Ankara, Turkey; <sup>9</sup>Oncology Research Unit, Centro de Pesquisa em Oncologia, Hospital São Lucas, PUCRS, Porto Alegre, Brazil; <sup>10</sup>Department of Hematology and Oncology, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea; <sup>11</sup>Division of Medical Oncology, Trakya University Faculty of Medicine, Edirne, Turkey; <sup>12</sup>Late Development Oncology, AstraZeneca, Gaithersburg, MD, USA; <sup>13</sup>Late Development Oncology, AstraZeneca, Warsaw, Poland; <sup>14</sup>Department of Medical Oncology, Gustave Roussy, Paris-Saclay University, Villejuif, France

**Background:** DEBBRAH, ROSET-BM, TUXEDO-1, and a pooled DB-01, -02, -03 analysis indicate robust efficacy of T-DXd in pts with stable/active BM; however, efficacy in pts with BM is not yet fully established. DB-07 is a phase Ib/II, multicenter, open-label study exploring the safety, tolerability, and antitumor activity of T-DXd alone or in combination with other anticancer agents (NCT04538742). Results are from an interim analysis of the dose-expansion phase of T-DXd monotherapy in pts with active BM.

**Methods:** Pts had locally assessed HER2+ mBC with measurable disease. No or one prior line of therapy for mBC was allowed; a disease-free interval of ≥12 months from (neo)adjuvant HER2-directed therapy or chemotherapy was required. Pts had untreated BM not requiring local therapy or progressing BM after treatment with local therapy. Ongoing use of systemic corticosteroids (>2 mg dexamethasone daily or equivalent) for control of BM symptoms was exclusionary. Pts received T-DXd 5.4 mg/kg intravenously every 3 weeks. Primary endpoints were safety and tolerability; secondary endpoints included objective response rate (ORR) and progression-free survival (PFS) per RECIST 1.1 and Response Assessment in Neuro-Oncology (RANO)-BM.

**Results:** Thirty-five pts with active BM were treated (median age 49 years); median follow up was 11.5 months (range 5.3–24.6). As of August 1, 2023, the most common any-grade adverse events (AEs) were nausea (74.3%; Grade 3, 5.7%) and vomiting (45.7%; Grade 3, 2.9%); no Grade ≥4 nausea or vomiting was reported. By RANO-BM, confirmed ORR was 57.1% and PFS rate at 12 months was 74.6% (Table).

**Conclusions:** The safety profile is consistent with the known profile for T-DXd and data confirm promising efficacy in pts with active BM; a median PFS has not been reached after 11.5 months. Ongoing analyses will provide more mature data.

**Clinical trial identification:** NCT04538742.

**Editorial acknowledgement:** Medical writing support, under the direction of the authors, was provided by Katie Ryding, PhD, of Helios Medical Communications.

**Legal entity responsible for the study:** AstraZeneca.

**Funding:** This study is sponsored by AstraZeneca. In March 2019, AstraZeneca entered into a global development and commercialization collaboration agreement with Daiichi Sankyo for trastuzumab deruxtecan (T-DXd; DS-8201).

**Disclosure:** C. Anders: Financial Interests, Personal, Advisory Role: Genentech/Roche, Eisai, Ipsen, Seagen, AstraZeneca, Elucida Oncology, Immunomedics, Athenex, Roche; Financial Interests, Personal, Other, Expenses: Eisai; Financial Interests, Personal, Royalties: Up to Date.com, Jones and Bartlett; Financial Interests, Personal, Other, Honoraria: Eisai, Genentech/Roche, IPSEN, Seagen,

Puma Biotechnology, AstraZeneca, Elucida Oncology, Immunomedics, Athenex, Novartis; Financial Interests, Institutional, Funding: Puma Biotechnology, Lilly, Merck, Nektar, Tesaro, Seagen, G1 Therapeutics, Pfizer, Zion Pharma, Novartis Pharmaceuticals UK Ltd., AstraZeneca, Caris Life Sciences, Elucida Oncology, Roche. S. Loi: Financial Interests, Institutional, Advisory Role: Roche/Genentech, Aduro Biotech, Novartis, G1 Therapeutics, PUMA Biotechnology, GSK, AstraZeneca, Seagen, Bristol Myers Squibb, Silverback Therapeutics, Pfizer, Gilead Sciences, Daiichi Sankyo/Lilly, Tallac Therapeutics; Financial Interests, Personal, Other, Travel/Expenses: Bristol Myers Squibb; Non-Financial Interests, Personal, Writing Engagements: Roche Medical writing support; Financial Interests, Personal, Other, Honoraria: Roche/Genentech, Novartis, MSD Oncology, Mersana; Financial Interests, Institutional, Funding: Roche/Genentech, Novartis, Merck, Puma Biotechnology, Bristol Myers Squibb, Seagen, AstraZeneca, Nektar, Lilly. E.P. Hamilton: Financial Interests, Institutional, Advisory Role: Pfizer, Genentech/Roche, Lilly, Daiichi Sankyo, Mersana, AstraZeneca, Novartis, Greenwich LifeSciences, Orum Therapeutics, Ellipse Pharma, Olema Pharmaceuticals, Stemline Therapeutics, Tubulis GmbH, Veracity Science, Theratechnologies, Accutar Biotechnology, Entos, Fosun Pharma, Gilead Sciences, Jazz Pharmaceuticals, Medical Pharma Services, Zentaris; Financial Interests, Institutional, Funding: AstraZeneca, Hutchison MediPharma, OncoMed, MedImmune, Stem CentRx, Genentech/Roche, Curis, Verastem, Zymeworks, Syndax, Lycera, Rgenix, Novartis, Mersana, Millennium, TapImmune Inc., Lilly, Pfizer, Tesaro, Boehringer Ingelheim, H3 Biomedicine, Radius Health, Acerta Pharma, MacroGenics, AbbVie, Immunomedics, Fujifilm, eFFECTOR Therapeutics, Merus, Nucana, Regeneron, Leap Therapeutics, Taiho Pharmaceutical, EMD Serono, Daiichi Sankyo, ArQule, Syros Pharmaceuticals, Clovis Oncology, CytomX Therapeutics, InventisBio, Deciphera, Sermonix Pharmaceuticals, Suro Biopharma, Zenith Epigenetics, Arvinas, Harpoon, Black Diamond Therapeutics, Orinove, Molecular Templates, Seagen, Compugen, G1 Therapeutics, Karyopharm Therapeutics, Dana-Farber Cancer Hospital, Onconova Therapeutics, Shattuck Labs, PharmaMar, Olema Pharmaceuticals, Immunogen, Plexikon, Amgen, Akeso Biopharma, ADC Therapeutics, AtlasMedx, Aravive, Ellipse Pharma, Incyte, MabSpace Biosciences, ORIC Pharmaceuticals, Pieris Pharmaceuticals, Pionyr, Repertoire Immune Medicines, Treadwell Therapeutics, Jacobio, Accutar Biotech, Artios, Bliss Biopharmaceutical, Cascadian Therapeutics, Dantari, Duality Biologics, Elucida Oncology, Infinity Pharmaceuticals, Relay Therapeutics, Tolmar, Torque, BeiGene, Context Therapeutics, K-Group Beta, Kind Pharmaceuticals, Loxo, Oncothyreon, Orum Therapeutics, Prelude Therapeutics, ProfoundBio, Cullinan Oncology, Bristol Myers Squibb, Eisai, Fochon Pharmaceuticals, Gilead Sciences, Inspirna, Myriad Genetics, Silverback Therapeutics, Stemline Therapeutics. K. Jhaveri: Financial Interests, Personal, Advisory Role: AbbVie Inc., AstraZeneca, Blueprint Medicines, Bristol Myers Squibb, Daiichi Sankyo Inc., Eisai Inc; Financial Interests, Institutional, Funding: AstraZeneca, Debiopharm, Genentech, Gilead Sciences Inc., Loxo Oncology Inc. P. Schmid: Financial Interests, Personal, Full or part-time Employment, An Immediate Family Member: Roche; Financial Interests, Personal, Advisory Role, An Immediate Family Member: Genentech/Roche; Financial Interests, Personal, Advisory Role: AstraZeneca, Merck, Boehringer Ingelheim, Bayer, Pfizer, Novartis, Eisai, Celgene, Puma Biotechnology; Financial Interests, Personal, Other, Travel/Expenses: ESMO, SABCS; Financial Interests, Personal, Other, Honoraria: AstraZeneca, Bayer, Boehringer Ingelheim, Merck, Novartis, Pfizer, Puma Biotechnology, Roche, Eisai, Celgene, Bayer, Gilead Sciences Hong Kong, Sanofi, Stemline Therapeutics, Celgene; Financial Interests, Institutional, Other, Honoraria: Genentech, Oncogenex; Financial Interests, Institutional, Funding: AstraZeneca, Astellas Pharma, Oncogenex, Genentech, Novartis, Roche, Medivation. E. Gokmen: Financial Interests, Personal, Stocks/Shares: Immunogen, MacroGenics; Financial Interests, Personal, Other, Honoraria: Eli Lilly, Roche, Pfizer, Novartis, Janssen Oncology, Astellas Pharma, Amgen, AstraZeneca, Bristol Myers Squibb/Celgene, Gilead Sciences, Sandoz-Novartis, Abdi Ibrahim, MSD Oncology, Genekor; Financial Interests, Personal, Advisory Role: Roche, Novartis, Pfizer, Lilly, MSD Oncology, Gilead Sciences, AstraZeneca; Financial Interests, Personal, Speaker's Bureau: Pfizer, Roche, Novartis, Lilly, Bristol Myers Squibb/Celgene, Genekor, AstraZeneca; Financial Interests, Personal, Other, Travel/Expenses: Pfizer, Roche, MSD Oncology, Novartis, BMS. S. Im: Financial Interests, Personal, Advisory Role: AstraZeneca, Novartis, Roche/Genentech, Eisai, Pfizer, Amgen, Hanmi, Lilly, MSD, Daiichi Sankyo; Financial Interests, Personal, Other: Roche; Financial Interests, Institutional, Funding: AstraZeneca, Pfizer, Roche/Genentech, Daewoong Pharmaceutical, Eisai, Boryung Pharmaceuticals, C.H. Barrios: Financial Interests, Institutional, Research Grant: Nektar, Pfizer, Polyphor, Amgen, Daiichi Sankyo, Sanofi, Exelixis, Regeneron, Novartis, GSK, Janssen, OBI Pharma, Lilly, Seagen, Roche, BMS, MSD, AstraZeneca, Novocure, Aveo Oncology, Takeda, PharmaMar, Gilead Sciences, Servier, Tolmar, Nanobiotix, Dical Pharma; Non-Financial Interests, Personal, Other, CR0: TRIO, Labcorp, ICON, IQVIA, Parexel, Nuvisan, PSI, Worldwide, Latinaba, Fortrea, PPD, Syneos Health; Financial Interests, Personal, Stocks/Shares: Tumm, MEDSIR; Financial Interests, Personal, Advisory Board: GSK, Novartis, Pfizer, Roche/Genentech, Eisai, Bayer, MSD, AstraZeneca, Zodiac, Lilly, Sanofi, Daiichi Sankyo. Y.H. Park: Financial Interests, Personal, Advisory Role: Pfizer, Roche, Eisai, Daiichi Sankyo, AstraZeneca, MSD, Novartis, Lilly, Menarini, Gilead Sciences, Myung; Financial Interests, Personal, Other, Travel/Expenses: Gild; Financial Interests, Personal, Other, Honoraria: Novartis, Pfizer, Roche, Lilly, AstraZeneca, MSD, Eisai, Daiichi Sankyo; Financial Interests, Personal, Funding: AstraZeneca, Pfizer; Financial Interests, Institutional, Funding: Roche, Gencurix, Genome Insight, NGENBio. S. Boston: Financial Interests, Personal, Full or part-time Employment: AstraZeneca; Financial Interests, Personal, Other, Travel/Expenses: AstraZeneca; Financial Interests, Personal, Stocks/Shares: AstraZeneca. A. Konpa: Financial Interests, Personal, Full or part-time Employment: AstraZeneca. S. Mondal: Financial Interests, Personal, Full or part-time Employment: AstraZeneca; Financial Interests, Personal, Stocks/Shares: AstraZeneca. F. André: Financial Interests, Institutional, Advisory Role: Guardant Health, AstraZeneca, Daiichi Sankyo, Roche, Pfizer, Owkin, Novartis, N-Power Medicine, Servier,

Gilead Sciences, Boston Pharmaceuticals; Financial Interests, Personal and Institutional, Advisory Role: Lilly; Financial Interests, Personal, Other, Travel/Expenses: Novartis, Roche, GSK, AstraZeneca; Financial Interests, Institutional, Funding: AstraZeneca, Novartis, Pfizer, Lilly, Roche, Daiichi Sankyo, Owkin, Guardant Health. All other authors have declared no conflicts of interest.

<https://doi.org/10.1016/j.esmop.2024.103207>

**18P6 Exploratory pooled safety analysis of trastuzumab deruxtecan (T-DXd) in patients With HER2+ or HER2-low unresectable and/or metastatic breast cancer (mBC) in DESTINY-Breast trials**

Y.H. Park<sup>1</sup>, W. Jacot<sup>2</sup>, S.A. Hurvitz<sup>3</sup>, S. Modi<sup>4</sup>, T. Yamashita<sup>5</sup>, B. Xu<sup>6</sup>, E. Tokunaga<sup>7</sup>, X. Wang<sup>8</sup>, K.S. Lee<sup>9</sup>, H. Iwata<sup>10</sup>, I. Krop<sup>11</sup>, F. Andre<sup>12</sup>, N. Harbeck<sup>13</sup>, H.S. Rugo<sup>14</sup>, E. Mathias<sup>15</sup>, W.T. Pastiner<sup>16</sup>, M. Karnoub<sup>17</sup>, S. Ashfaq<sup>18</sup>, Y. Cheng<sup>19</sup>, S-B. Kim<sup>20</sup>

<sup>1</sup>Hematology-Oncology Department, Samsung Medical Center, Seoul, Republic of Korea; <sup>2</sup>Department of Medical Oncology, Institut du Cancer de Montpellier, Montpellier, France; <sup>3</sup>Clinical Research Division, Fred Hutchinson Cancer Center, Seattle, WA, USA; <sup>4</sup>Department of Medicine, Memorial Sloan Kettering Cancer Center, New York, NY, USA; <sup>5</sup>Breast Surgery and Oncology Department, Kanagawa Cancer Center, Yokohama, Japan; <sup>6</sup>Medical Oncology Department, Cancer Hospital, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, China; <sup>7</sup>Department of Breast Oncology, National Hospital Organization Kyushu Cancer Center, Fukuoka, Japan; <sup>8</sup>Medical Oncology Department, Zhejiang Cancer Hospital, Zhejiang, China; <sup>9</sup>Center for Breast Cancer, National Cancer Center, Goyang-si, Republic of Korea; <sup>10</sup>Breast Oncology Department, Aichi Cancer Center Hospital, Nagoya, Japan; <sup>11</sup>Medical Oncology Department, Yale Cancer Center, New Haven, CT, USA; <sup>12</sup>Research Department, Gustave Roussy, Villejuif, France; <sup>13</sup>Women's Clinic and Breast Center, University of München, LMU Hospital, Munich, Germany; <sup>14</sup>Department of Medicine, UCSF Helen Diller Family Comprehensive Cancer Center, San Francisco, CA, USA; <sup>15</sup>Clinical Development, Oncology R&D Department, Daiichi Sankyo, Inc., Basking Ridge, NJ, USA; <sup>16</sup>Department of Medical Affairs, Daiichi Sankyo Austria GmbH, Vienna, Austria; <sup>17</sup>Department of Data Intelligence, Daiichi Sankyo, Inc., Basking Ridge, NJ, USA; <sup>18</sup>Department of Clinical Safety, Daiichi Sankyo, Inc., Basking Ridge, NJ, USA; <sup>19</sup>Department of Clinical Safety and Pharmacovigilance, Daiichi Sankyo, Inc., Basking Ridge, NJ, USA; <sup>20</sup>Department of Oncology, Asan Medical Center, University of Ulsan College of Medicine, Seoul, Republic of Korea

**Background:** T-DXd is approved as 2L+ treatment for pts with HER2+ or HER2-low (IHC 1+/IHC 2+/ISH-) mBC based on efficacy in DESTINY-Breast (DB)-01/02/03/04 trials. There are no published pooled safety data for T-DXd in pts with mBC.

**Methods:** Analysis included pts with HER2+ (DB-01/02/03) or HER2-low (DB-04) mBC. DB-01 was a single-arm study of T-DXd after trastuzumab emtansine (T-DM1). DB-02 compared T-DXd to treatment of physician's choice (TPC) after T-DM1. DB-03 compared T-DXd to T-DM1 after trastuzumab (± pertuzumab) + taxane. DB-04 compared T-DXd to TPC after 1 or 2 chemotherapy lines.

**Results:** Drug-related treatment-emergent adverse event (TEAE) rates for T-DXd were similar in DB-01/02/03/04 (Table). Median time (range) to T-DXd discontinuation due to any TEAE in DB-01/02/03/04 was 187.0 (8-783), 248.5 (2-759), 337.0 (104-1163), and 149.0 (3-740) d, respectively. Pooled T-DXd (N = 1216) adjudicated drug-related interstitial lung disease (ILD) rate was 12.7%; most grade 1 or 2 (11%); median (range) time to onset 176 (26-960) d; median (range) duration 56.5 (1-542) d. Rates of any-grade adjudicated drug-related ILD with T-DXd after <3/≥3 prior therapy lines were 14.3%/15.9% in DB-01, 7.1%/11.3% in DB-02, 17.9%/13.1% in DB-03, and 5.7%/13.2% in DB-04. Median treatment duration was ~2-fold longer for pooled T-DXd (13.9 months; range, 0.2-45.1) vs comparators. Exposure-adjusted incidence rates of grade ≥3 TEAEs were 0.48 (T-DXd), 0.77 (TPC, DB-02), 0.65 (T-DM1), and 1.81 (TPC, DB-04) pt-years. Higher rates of drug-related nausea (72.4% vs 30.8%, 27.6%, 23.8%), vomiting (37.3% vs 11.8%, 5.7%, 9.9%), and fatigue (51.2% vs 31.3%, 29.1%, 42.4%) occurred with T-DXd vs TPC (DB-02), T-DM1 (DB-03), and TPC (DB-04).

Table: 18P6 Key safety and efficacy data		
	T-DXd in pts with active BM (n=35)	
Any-grade AEs, n (%)	35 (100)	
AEs Grade ≥3, n (%)	18 (51.4)	
Serious AEs, n (%)	5 (14.3)	
Any-grade pneumonitis (adjudicated as interstitial lung disease related to study drug), n (%)	3 (8.6)	
Grade 2, n (%)	2 (5.7)	
Grade 5, n (%)	1 (2.9)	
Median actual treatment duration, months (range)	10.0 (2.6–24.3)	
	<b>Overall response (RECIST 1.1 by investigator)</b>	<b>Intracranial response (RANO-BM BICR)</b>
Confirmed ORR, % (80% CI)	77.1 (65.5, 86.2)	57.1 (44.9, 68.7)
PFS rate at 12 months, % (80% CI)	84.5 (74.1, 91.0)	74.6 (59.4, 84.8)

BICR, blinded independent central review; CI, confidence interval.