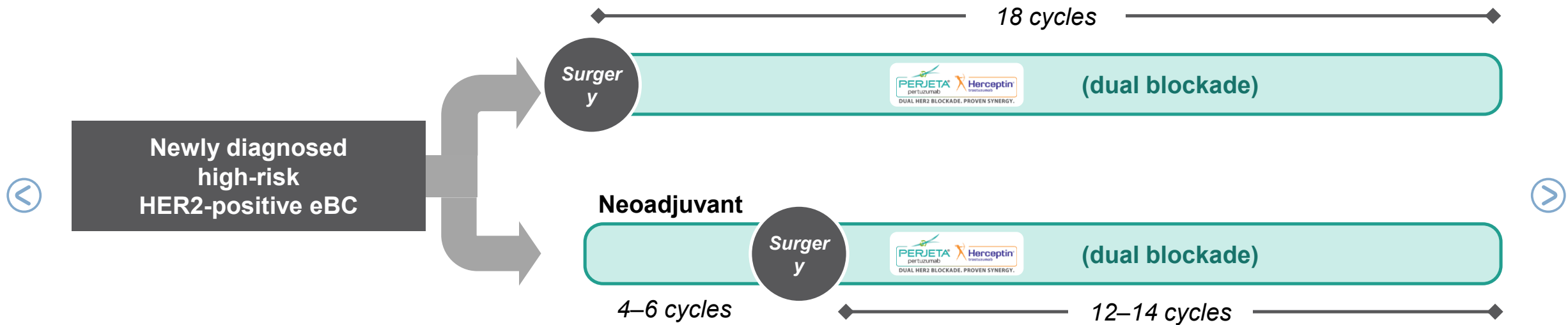


Prior to KATHERINE, 18 cycles of PH was SoC for patients with HER2-positive eBC at high risk of recurrence or death*

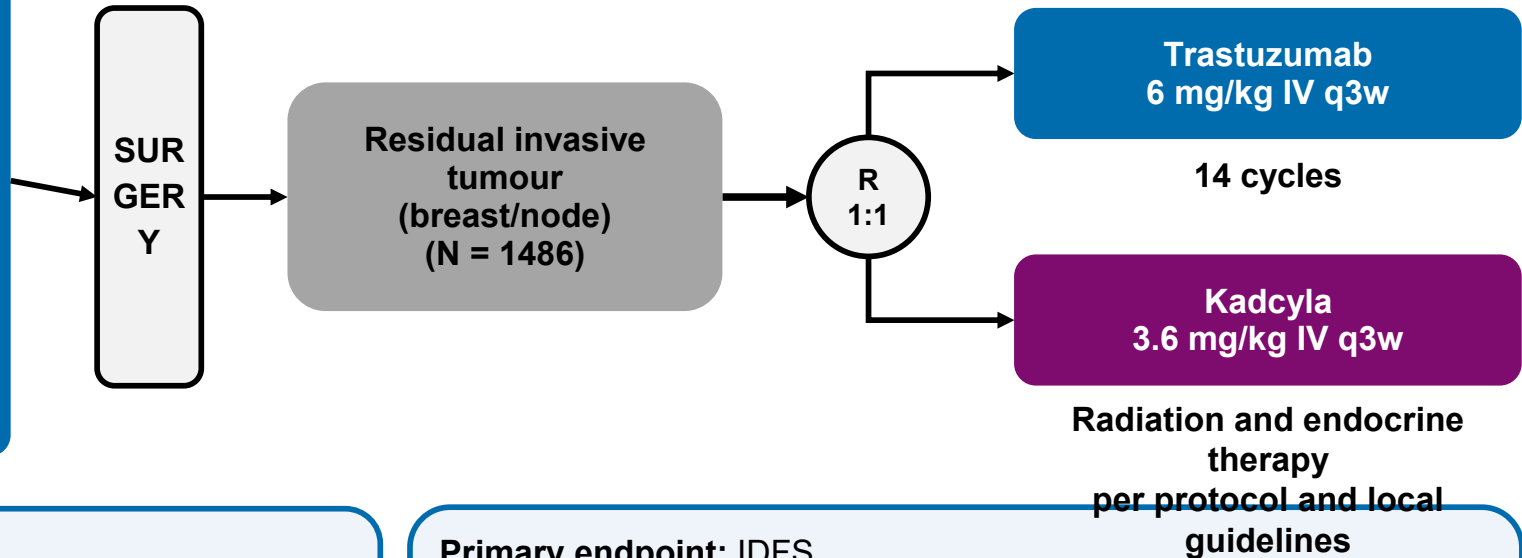
irrespective of neoadjuvant response¹⁻⁵



Patients received the same SoC treatment in the adjuvant setting, regardless of response to neoadjuvant therapy, due to a lack of evidence to support changing therapy¹⁻⁵

KATHERINE study design^{1,2}

- cT1–4/N0–3/M0 at presentation (cT1a–b/N0 excluded)
- HER2-positive eBC*
- Neoadjuvant therapy†
 - Minimum 6 cycles chemo
 - Minimum 9 weeks taxane
 - Anthracyclines and alkylating agents allowed
 - All chemo prior to surgery
 - Minimum 9 weeks trastuzumab
 - Second HER2-targeted agent allowed
- Residual invasive tumour in the breast or axillary nodes



Stratification factors:

- Clinical stage at presentation: inoperable vs. operable
- Hormone receptor status: ER- or PR-positive vs. ER- and PR-negative
- Neoadjuvant HER2-directed therapy: Trastuzumab vs. dual HER2 targeting
- Pathological nodal status evaluated after neoadjuvant therapy

Primary endpoint: IDFS

Key secondary endpoints: IDFS (second primary non-breast cancers included), DFS, OS, DRFI, Safety



* Centrally confirmed.

† Neoadjuvant systemic treatment was given for at least 6 cycles, with a total duration of at least 16 weeks, including at least 9 weeks of anti-HER2 therapy and at least 9 weeks of taxane-based chemotherapy (or, if receiving dose-dense chemotherapy regimens, at least 8 weeks of taxane-based therapy and at least 8 weeks of anti-HER2 therapy).

DFS, disease-free survival; DRFI, distant recurrence-free interval;

ER, oestrogen receptor; IDFS, invasive disease-free survival; OS, overall survival; PR, progesterone receptor.

1. Roche. Data on File. Protocol BO27938 (KATHERINE) – version 6; 2. von Minckwitz G, et al. *N Engl J Med* 2019.

Stratification factors were balanced between treatment arms¹

| No. patients, n (%) | Trastuzumab n = 743 | Kadcyla n = 743 |
|--|------------------------|--------------------|
| Clinical stage at presentation | | |
| Inoperable (Stage T4 Nx M0 or Tx N2–3 M0) | 190 (25.6) | 185 (24.9) |
| Operable (Stages T1–3 N0–1 M0) | 553 (74.4) | 558 (75.1) |
| Hormone receptor status | | |
| ER- and/or PR-positive | 540 (72.7) | 534 (71.9) |
| ER-negative and PR-negative/unknown | 203 (27.3) | 209 (28.1) |
| Neoadjuvant HER2-directed therapy | | |
| Trastuzumab alone | 596 (80.2) | 600 (80.8) |
| Trastuzumab plus additional HER2-targeted agent(s)* | 147 (19.8) | 143 (19.2) |
| Pathological nodal status evaluated after neoadjuvant therapy | | |
| Node-positive | 346 (46.6) | 343 (46.2) |
| Node-negative/not done | 397 (53.4) | 400 (53.8) |

Lower pCR rates for patients with hormone receptor-positive disease² meant that the KATHERINE population was enriched in this subgroup

Baseline demographics were balanced between treatment arms

| No. patients, n (%) | Trastuzumab n = 743 | Kadcyla n = 743 |
|----------------------------------|------------------------|--------------------|
| Age | | |
| Median, years (range) | 49 (23–80) | 49 (24–79) |
| <40 | 153 (20.6) | 143 (19.2) |
| 40–64 | 522 (70.3) | 542 (72.9) |
| ≥65 | 68 (9.2) | 58 (7.8) |
| Race | | |
| White | 531 (71.5) | 551 (74.2) |
| Asian | 64 (8.6) | 65 (8.7) |
| American Indian or Alaska Native | 50 (6.7) | 36 (4.8) |
| Black or African American | 19 (2.6) | 21 (2.8) |
| Multiple/other | 79 (10.6) | 70 (9.4) |
| Region | | |
| North America | 164 (22.1) | 170 (22.9) |
| Western Europe | 403 (54.2) | 403 (54.2) |
| Rest of world | 176 (23.7) | 170 (22.9) |

Extent of residual invasive disease (including pathological nodal status) at time of surgery was balanced between treatment arms



| No. patients, n (%) | Trastuzumab n = 743 | Kadcyla n = 743 |
|--|------------------------|--------------------|
| Primary tumour stage (at definitive surgery) | | |
| ypT0/ypT1a/ypT1b/ypT1mic/ypTis | 306 (41.2) | 331 (44.5) |
| ypT1/ypT1c | 184 (24.8) | 175 (23.6) |
| ypT2 | 185 (24.9) | 174 (23.4) |
| ypT3 | 57 (7.7) | 51 (6.9) |
| ypT4/ypT4a–c | 9 (1.2) | 7 (0.9) |
| ypT4d | 1 (0.1) | 5 (0.7) |
| ypTX | 1 (0.1) | 0 |
| Regional lymph node stage (at definitive surgery) | | |
| ypN0 | 335 (45.1) | 344 (46.3) |
| ypN1 | 213 (28.7) | 220 (29.6) |
| ypN2 | 103 (13.9) | 86 (11.6) |
| ypN3 | 30 (4.0) | 37 (5.0) |
| ypNX | 62 (8.3) | 56 (7.5) |

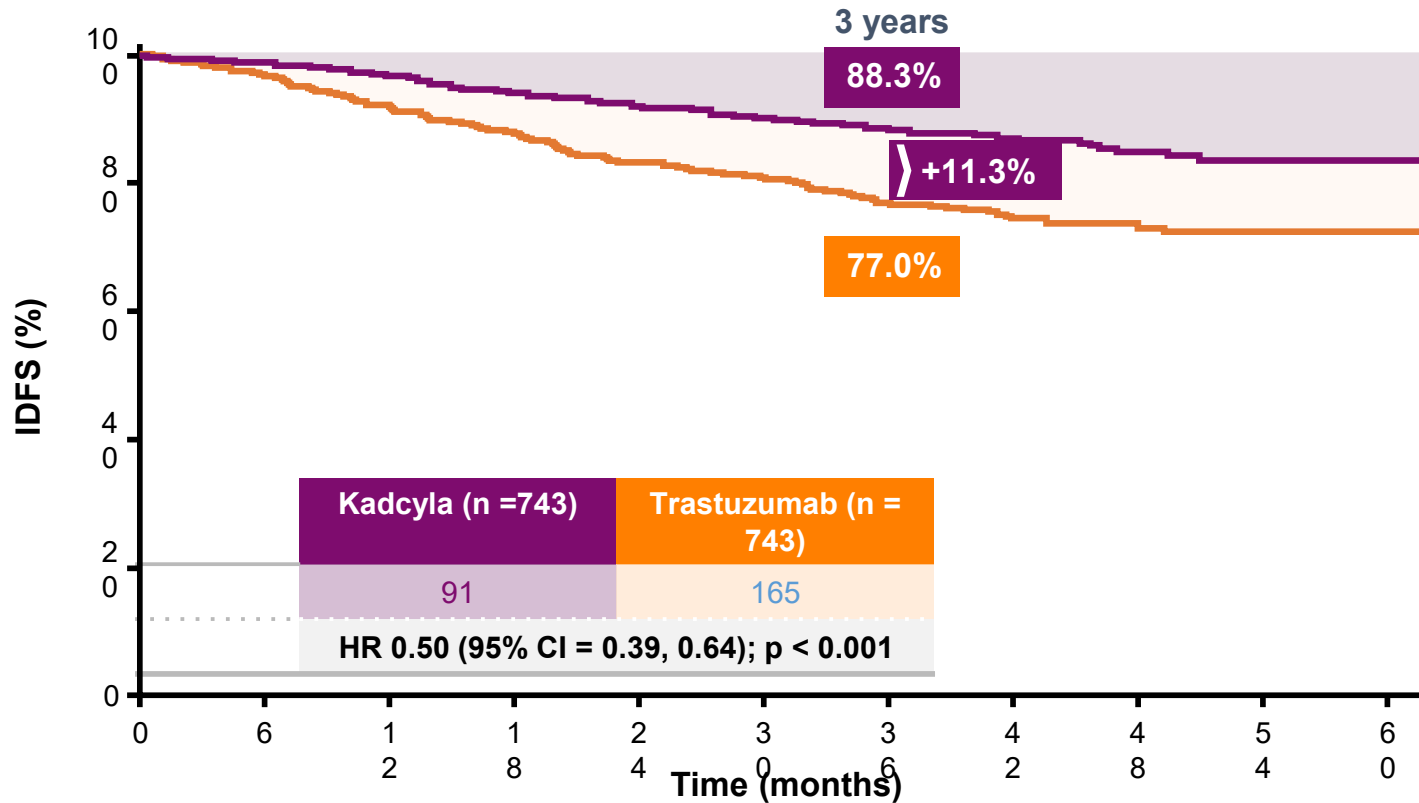
>40% of patients had only a small amount of residual invasive disease present after neoadjuvant therapy

Prior therapy was balanced between treatment arms

| No. patients, n (%) | Trastuzumab n = 743 | Kadcyla n = 743 |
|--|------------------------|--------------------|
| Prior anthracycline | | |
| Received prior anthracycline | 564 (75.9) | 579 (77.9) |
| Did not receive prior anthracycline | 179 (24.1) | 164 (22.1) |
| Neoadjuvant therapy | | |
| Trastuzumab alone | 596 (80.2) | 600 (80.8) |
| PERJETA–Trastuzumab | 139 (18.7) | 133 (17.9) |
| Trastuzumab plus other HER2-directed agent(s)* | 8 (1.1) | 10 (1.3) |

Approximately 18% of patients had received prior PERJETA–Trastuzumab neoadjuvant therapy

KATHERINE met its primary endpoint: Kadcylla reduced the risk of an IDFS event by 50% compared with Trastuzumab at a median follow-up of 41 months



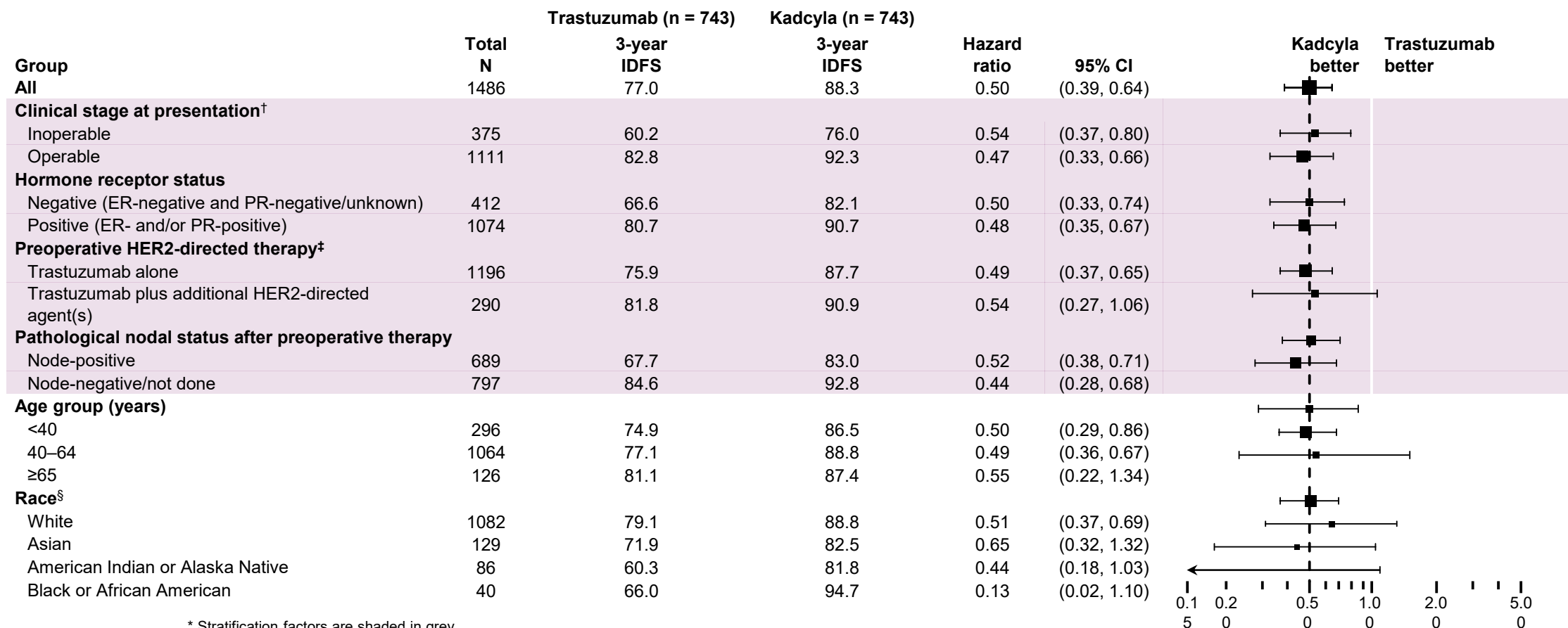
Kadcylla increased the 3-year IDFS rate from 77.0% to 88.3%

| No. at risk | 0 | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 |
|--------------------|----|----|----|----|----|----|----|----|----|----|----|
| Kadcylla | 74 | 70 | 68 | 65 | 63 | 56 | 40 | 25 | 14 | 4 | 4 |
| Trastuzumab | 74 | 67 | 63 | 59 | 55 | 50 | 34 | 22 | 11 | 3 | 4 |



von Minckwitz G, et al. *N Engl J Med* 2019.

Magnitude of IDFS benefit in all subgroups was consistent with the ITT population, including across all stratification factors*



* Stratification factors are shaded in grey.

† Inoperable tumours, stage T4NxM0 or TxN2–3M0; operable tumours, stages T1–3N0–1M0.

‡ 272 patients (93.8%) received PERJETA as the additional neoadjuvant HER2-directed agent. The remaining 18 patients received either neratinib, dacomitinib, afatinib or lapatinib.

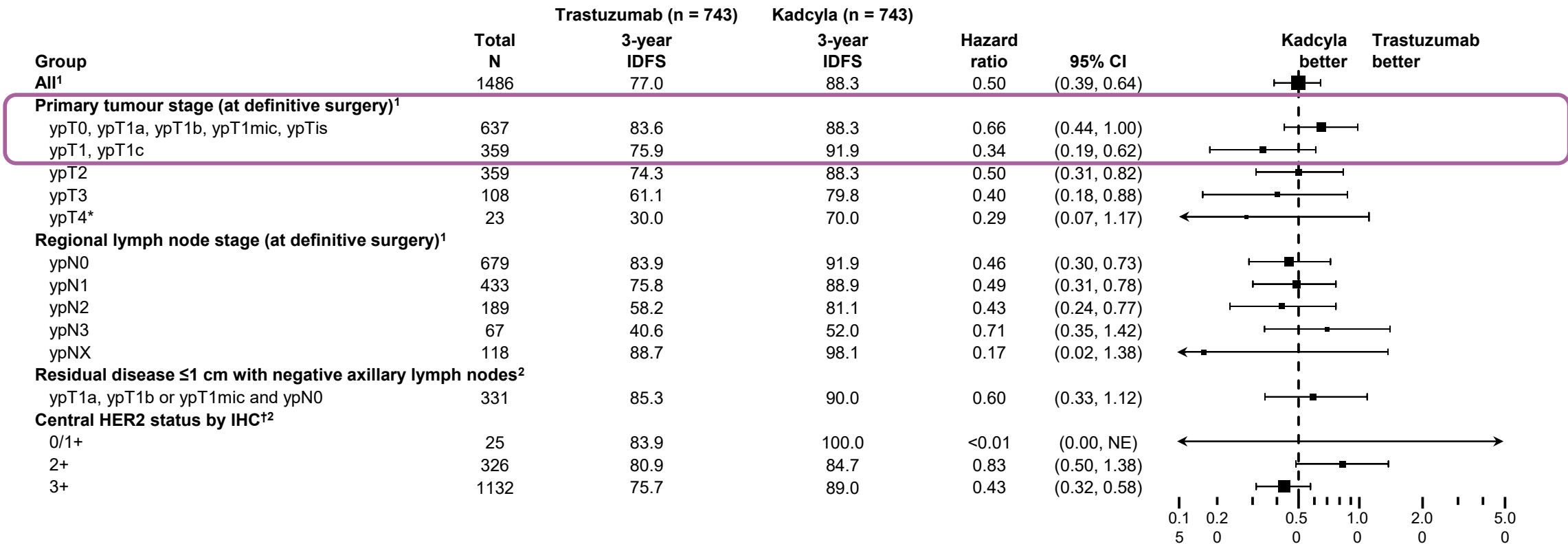
§ 149 were of multiple races or unknown race.

ER, oestrogen receptor; CI, confidence interval; IDFS, invasive disease-free survival; PR, progesterone receptor.

von Minckwitz G, et al. *N Engl J Med* 2019.



Magnitude of IDFS benefit in all subgroups was consistent with the ITT population, even for patients with very small amounts of residual disease



Benefit of Kadcylya consistent, irrespective of tumour size and nodal status at surgery; including in patients with residual disease ≤1 cm and node-negative disease

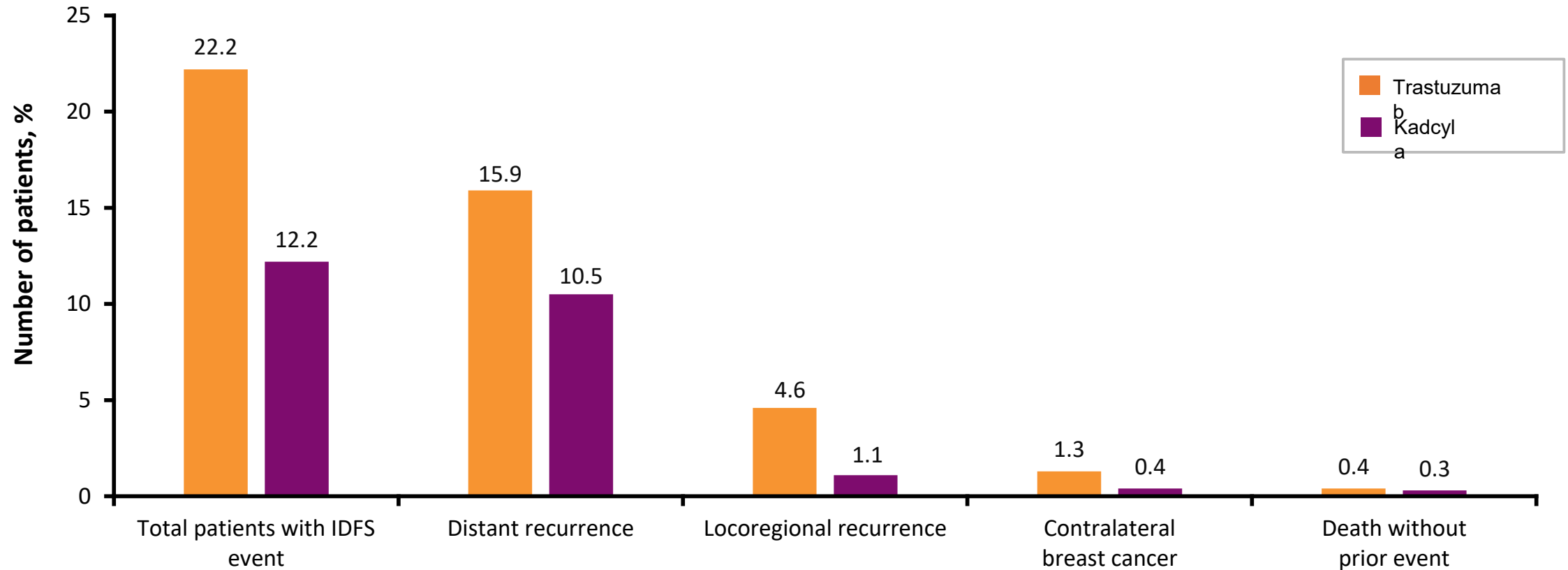


* Includes all ypT4 and 1 patient with ypTX.
 † Three patients had "unknown" HER2 IHC status.
 1. von Minckwitz G, et al. *N Engl J Med* 2019;
 2. Geyer CE, et al. SABCS 2018 (abstract GS1-10).

The majority of recurrences were distant, with a reduced incidence in the Kadcyła arm



• First occurrence of an IDFS event*

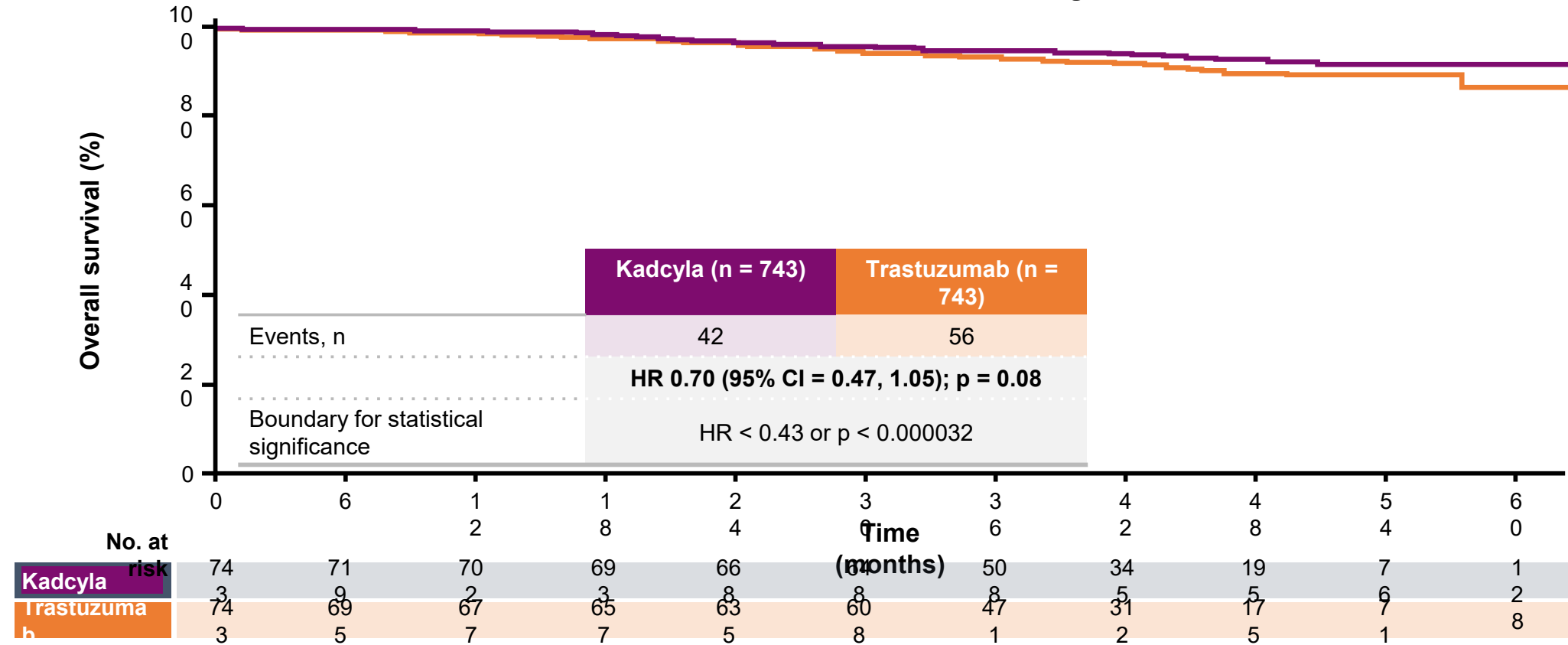


* Patients who experience additional IDFS event(s) within 61 days of their first IDFS event are reported in the category according to the following hierarchy: 1. Distant recurrence; 2. Locoregional recurrence; 3. Contralateral breast cancer; 4. Death without prior event. CNS, central nervous system; IDFS, invasive disease-free survival. von Minckwitz G, et al. *N Engl J Med* 2019.

Secondary endpoints: OS data are immature but are supportive of the primary endpoint

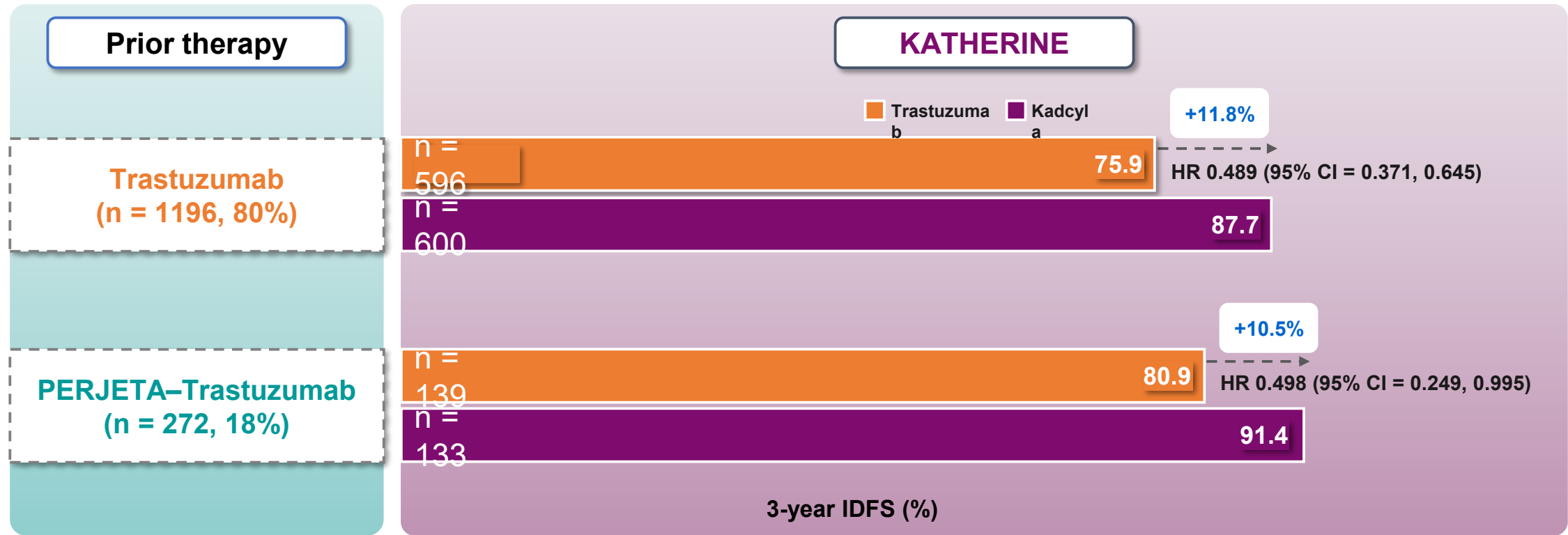


- OS at first interim analysis*



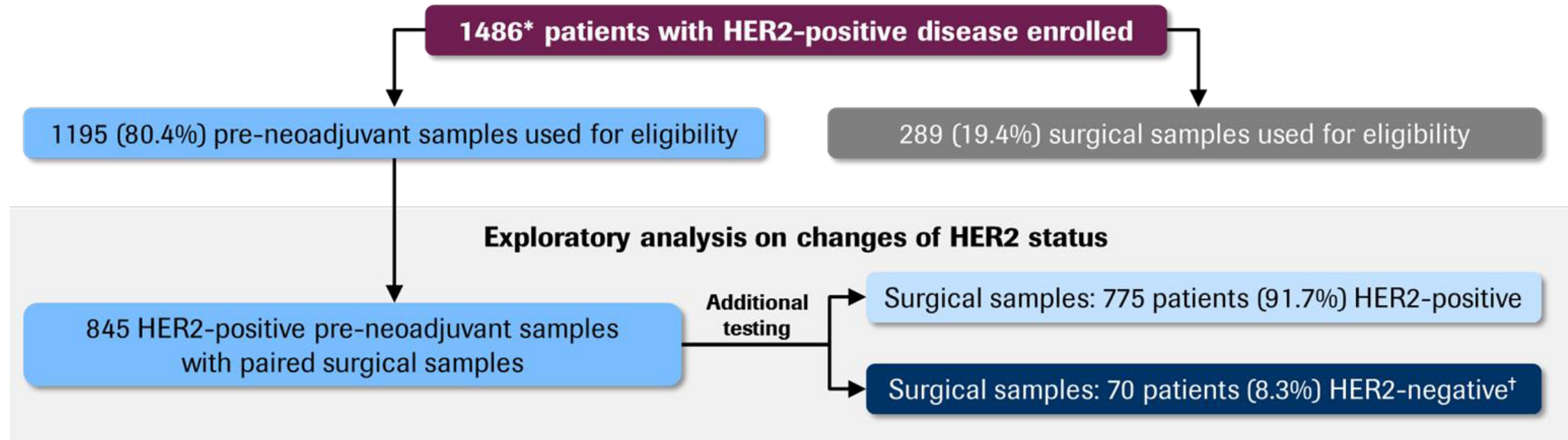
* Up to three formal interim OS analyses and one final OS analysis are planned. Data here represent the first interim OS analysis; the final OS analysis will be performed after 10 years of follow-up.
 CI, confidence interval; HR, hazard ratio; OS, overall survival.
 von Minckwitz G, et al. *N Engl J Med* 2019.

Kadcyla yielded a consistent magnitude of IDFS benefit, regardless of prior HER2-directed therapy*



Numerically better outcome was observed in patients pre-treated with PERJETA-Trastuzumab vs. Trastuzumab alone*

HER2-negative status after neoadjuvant therapy did not impact the efficacy of T-DM1

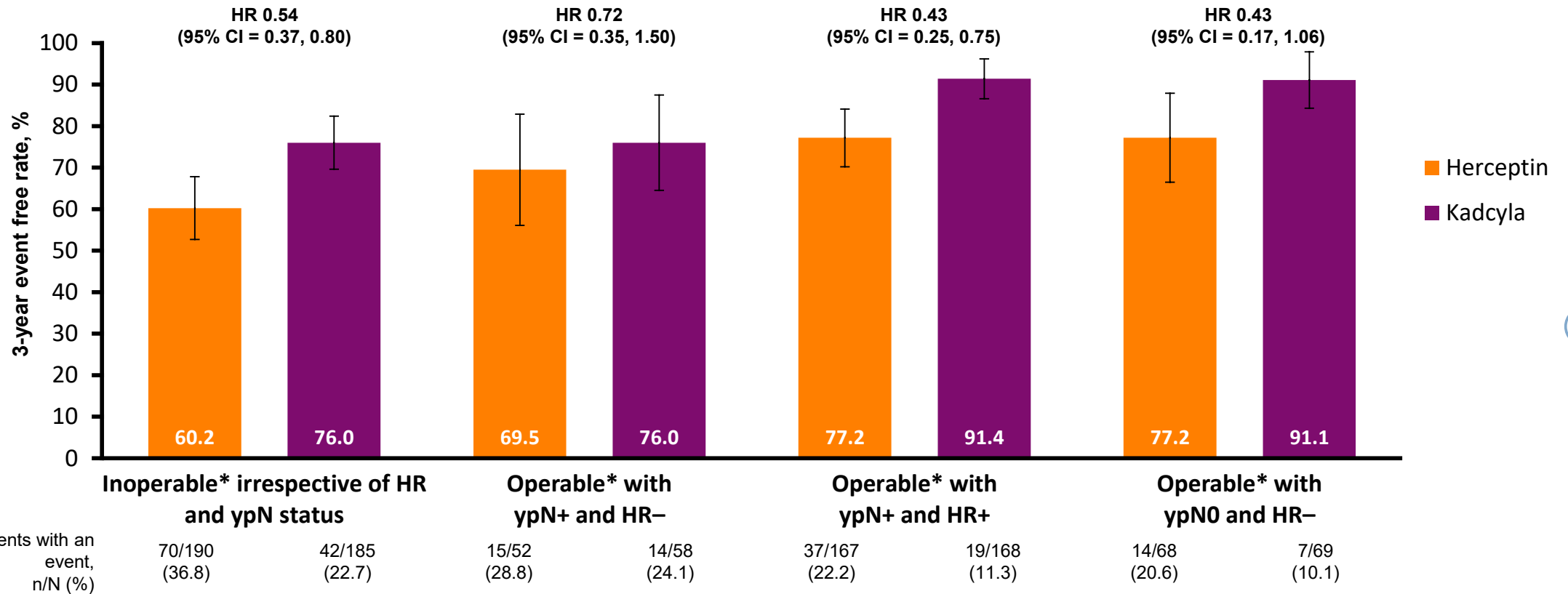


In the 70 patients with HER2-negative disease after re-testing of surgical samples:

- There were no IDFS events in patients randomised to the Kadcyła arm (n = 28)
- There were 11 IDFS events in patients randomised to the Trastuzumab arm (n = 42)

These data should be interpreted with caution due to the small sample size

Exploratory analysis: Improved 3-year IDFS rates were seen with Kadcyła in all subgroups with a poor prognosis¹



Unmet need remains in patients with inoperable tumours and in those with operable tumours with ypN+ and HR-negative disease; 3-year IDFS rates remained relatively low (<80%), despite receiving Kadcyła treatment



* Inoperable (Stage T4 Nx M0 or Tx N2-3, M0); Operable (Stage T1-3 N0-1 M0).²
 CI, confidence interval; HR, hazard ratio; HR-/-+, hormone receptor-negative/-positive; IDFS, invasive disease-free survival.
 1. Mano MS, et al. SABCS 2019 (Abstract P3-14-01; poster presentation);
 2. von Minckwitz G, et al. N Engl J Med 2019.

AE rates with Kadcyła were as expected based on previous trials¹

| No. patients, n (%) | Trastuzumab n = 720 | Kadcyła n = 740 |
|--|------------------------|--------------------|
| Any AE | 672 (93.3) | 731 (98.8) |
| Grade ≥3 AEs | 111 (15.4) | 190 (25.7) |
| Serious AE | 58 (8.1) | 94 (12.7) |
| AE with fatal outcome* | 0 | 1 (0.1) |
| Discontinued randomised treatment due to AE [†] | 15 (2.1) | 133 (18.0) |

Higher rate of discontinuations in the Kadcyła arm vs. the Trastuzumab arm

* The fatal AE was an intracranial haemorrhage that occurred after a fall at home in a patient with a platelet count of $55 \times 10^9/L$;

† Withdrawal from randomised study treatment refers to assigned treatment at time of randomisation. The most common reasons for Kadcyła discontinuation were laboratory abnormalities. The thresholds for initiating a dose reduction or discontinuation due to liver lab abnormalities in KATHERINE were lower than those specified for EMILIA due to FDA feedback (EMILIA discontinuation rate 5.9%).²
AE, adverse event.

1. von Minckwitz G, et al. *N Engl J Med* 2019; 2. Verma S, et al. *N Engl J Med* 2012.

Most common AEs leading to Kadcyła discontinuation were laboratory abnormalities, consistent with the known safety profile^{1–3}



| Event leading to discontinuation ^{1*} (≥1% incidence in either arm) Patients, n (%) | Trastuzumab n = 720 | Kadcyła n = 740 |
|--|------------------------|--------------------|
| Patients discontinuing due to adverse events | 15 (2.1) | 133 (18.0) |
| Platelet count decreased | 0 | 31 (4.2) |
| Blood bilirubin increased | 0 | 19 (2.6) |
| AST increased | 0 | 12 (1.6) |
| ALT increased | 0 | 11 (1.5) |
| Peripheral sensory neuropathy | 0 | 11 (1.5) |
| Ejection fraction decreased | 10 (1.4) | 9 (1.2) |

Observed laboratory abnormalities were generally low-grade, asymptomatic and reversible

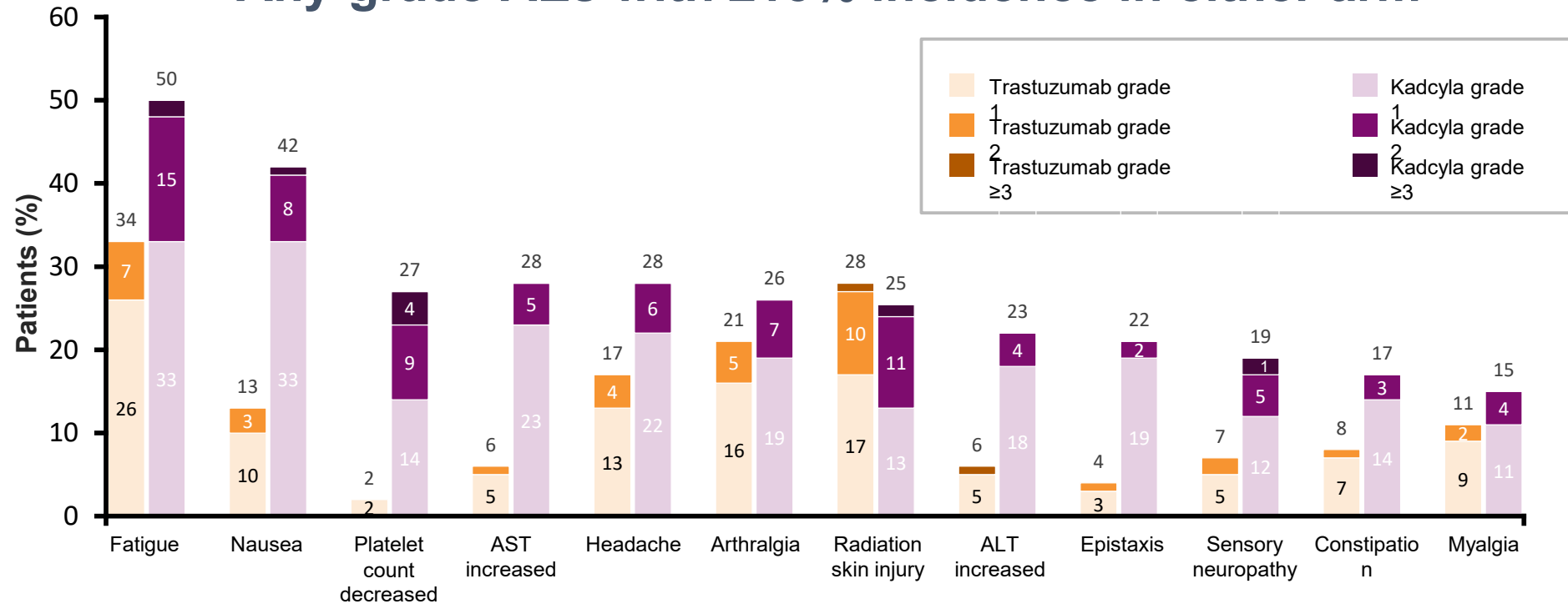


* Discontinuation of study treatment assigned at randomisation.
 AE, adverse event; ALT, alanine aminotransferase; AST, aspartate aminotransferase.
 1. von Minckwitz G, et al. *N Engl J Med* 2019; 2. Verma S, et al. *N Engl J Med* 2012; 3. Krop IE, et al. *J Clin Oncol* 2015.

Safety data were consistent with the known safety profile of Kadcylya



- Any-grade AEs with $\geq 15\%$ incidence in either arm

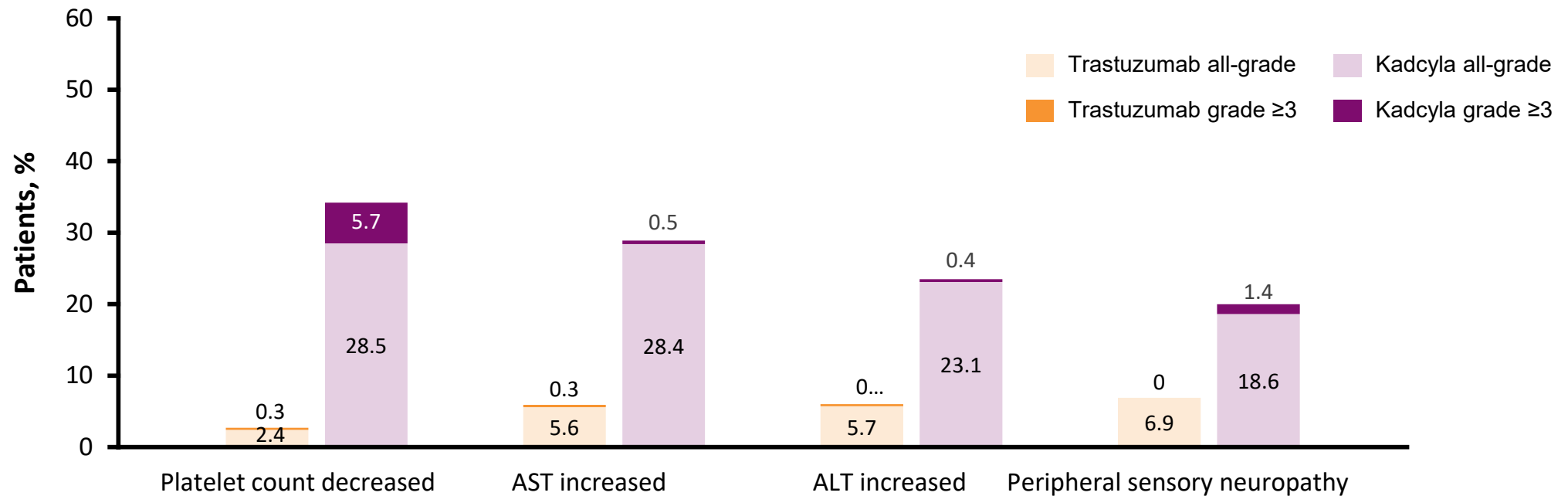


Kadcylya-related AEs were generally low grade, manageable and easily monitored

AEs with an increased incidence in the Kadcyła arm vs. the Trastuzumab arm were generally low grade and manageable



- Selected any-grade AEs ($\geq 5\%$ difference between arms and $\geq 10\%$ incidence in either arm)



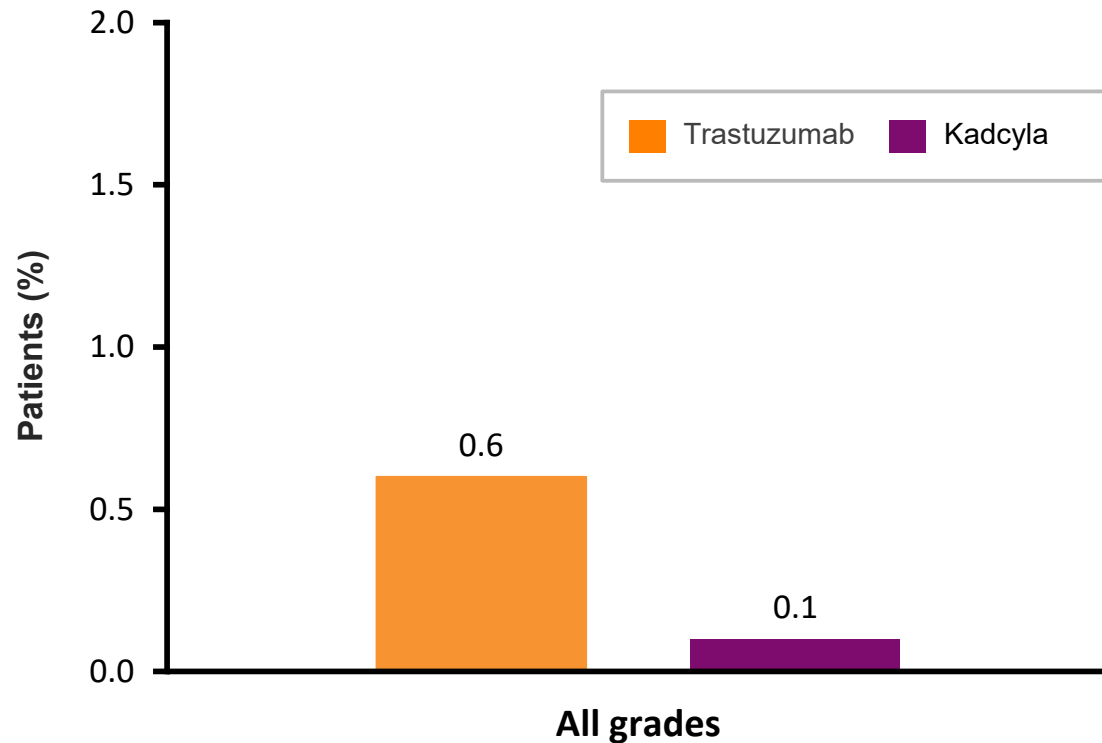
75% of cases of peripheral sensory neuropathy were resolved and 9% were resolving at the time of database lock



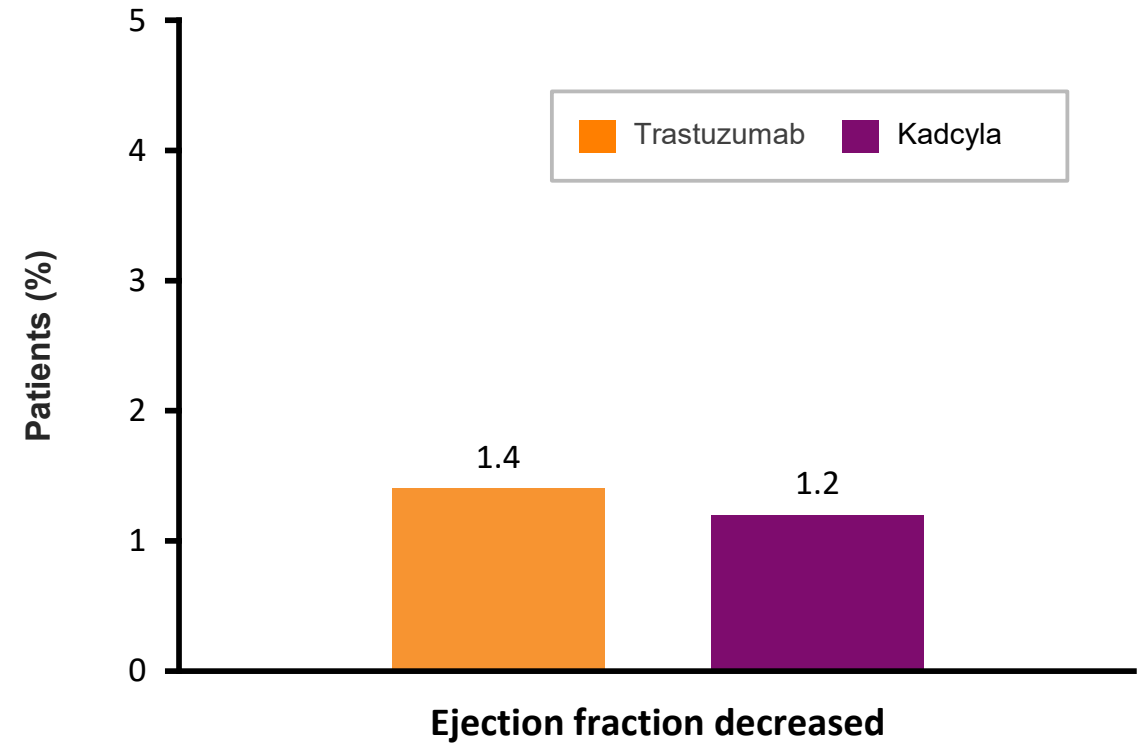
AE, adverse event; ALT, alanine aminotransferase; AST, aspartate aminotransferase. von Minckwitz G, et al. *N Engl J Med* 2019.

Incidence of cardiac events was low in both arms

Adjudicated cardiac events*



Cardiac event* leading to discontinuation



Kadcyla is approved for the adjuvant treatment of patients with residual invasive disease after HER2-targeted neoadjuvant therapy



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EMA label indication¹

Kadcyla, as a single agent, is indicated for the adjuvant treatment of adult patients with HER2-positive early breast cancer who have residual invasive disease, in the breast and/or lymph nodes, after neoadjuvant taxane-based and HER2-targeted therapy



APPROVED

FDA label indication²

Kadcyla is indicated for the adjuvant treatment of patients with HER2-positive early breast cancer with residual invasive disease after neoadjuvant taxane and Trastuzumab-based treatment

Guidelines recommending Kadcyła in eBC

NCCN Breast Cancer Guidelines (v4 – 2022)¹

Category 1 listing*

If residual invasive disease: Kadcyła alone for 14 cycles

ESMO Guidelines for eBC (2019)³

Grade A recommendation[†]

If residual invasive disease: Kadcyła recommended

AGO Guidelines (2022)²

If residual invasive disease: Patients with HER2+ disease who did not achieve a pCR received 14 cycles of T-DM1 (LoE1b/B/AGO+)

St. Gallen Guidelines (2021)⁴

If residual invasive disease:
Kadcyła recommended for women with residual invasive cancer following neoadjuvant systemic treatment with Trastuzumab- or with Trastuzumab–PERJETA-based regimens

* Category 1 listings are based on high-level evidence with uniform NCCN consensus that the intervention is appropriate;

† Based on evidence of individual randomised controlled trials;

‡ Grade A recommendation based on strong evidence for efficacy with a substantial clinical benefit; strongly recommended.

1. NCCN Breast Cancer Guidelines. Version 4 2022; 2. AGO Breast Cancer Guidelines 2022; 3. Cardoso F, *et al. Ann Oncol* 2019;

4. H. J. Burstein *et al*, July 2021, <https://doi.org/10.1016/j.annonc.2021.06.023>

Key messages



KATHERINE marks a new standard of care for patients with HER2-positive eBC

- eBC treatment has a curative intent; patients should receive the most efficacious treatment as early as possible to help prevent distant recurrence and provide the best chance of cure
- Despite the proven benefits of HER2-targeted neoadjuvant therapy, some patients with HER2-positive eBC are still at risk of recurrence, particularly those with residual invasive disease
- KATHERINE met its primary endpoint: Kadcyła reduced the risk of breast cancer recurrence or death by 50% in patients with any amount of residual invasive disease after HER2-targeted neoadjuvant therapy compared with Trastuzumab
- Overall safety data in KATHERINE were consistent with the known safety profile of Kadcyła
- KATHERINE introduced a new decision point in HER2-positive eBC: adjuvant treatment should be optimised based on response to neoadjuvant therapy
- Kadcyła is established in international guidelines as the recommended adjuvant therapy for patients with any amount of residual invasive disease after HER2-targeted neoadjuvant therapy

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