KEYNOTE-522: Neoadjuvant KEYTRUDA[®] (pembrolizumab) + chemotherapy followed by adjuvant KEYTRUDA monotherapy in patients with triple-negative breast cancer (TNBC)

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Please refer to the full Summary of Product Characteristics for KEYTRUDA and patient-targeted Risk Minimisation Materials before prescribing, to minimise the risk of treatment. Patients should also receive the Risk Minimisation Materials.

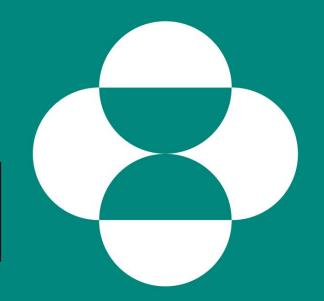
Adverse events should be reported. Reporting forms and information can be found at https://yellowcard.mhra.gov.uk/ (please note that the MHRA Yellow Card link will redirect you to an external website, for which MSD does not review or control the content) or search for MHRA Yellow Card in the Google Play or Apple App Store. Adverse events should also be reported to Merck Sharp & Dohme (UK) Limited (Tel: 020 8154 8000).

Please click the following link for the KEYTRUDA SmPC and Prescribing Information: <u>United Kingdom</u>.

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Job code: GB-OBR-00166 Date of preparation: October 2025

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chemotherapy for
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Heritage of KEYTRUDA and MoA with chemotherapy



Click the links below to navigate to the section of interest

KEYTRUDA and chemotherapy:
Two different mechanisms of action

KEYTRUDA + chemotherapy licence in early-stage TNBC

KEYTRUDA in the early-stage TNBC pathway



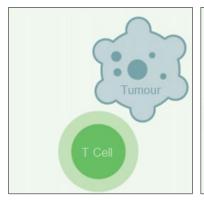
KEYTRUDA and chemotherapy: Two different mechanisms of action

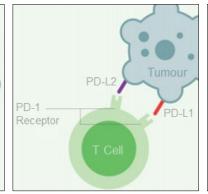
Chemotherapy induces immunogenic cell death

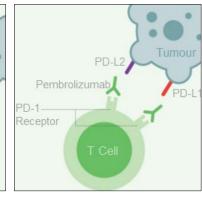


- Chemotherapy results in the immunogenic death of tumour cells, leading to the release of tumour antigens that can be recognised by the immune system¹
- Chemotherapy has been shown to increase tumour expression of PD-L1²

KEYTRUDA activates the anti-tumour immune response







- PD-L1 (and PD-L2) on tumour cells bind to PD-1 on T cells to prevent their activation, leading to immune evasion^{1,3}
- KEYTRUDA is a humanised monoclonal antibody that binds to PD-1, blocking its interaction with PD-L1/-L2 and leading to activation of the anti-tumour response^{4,5}

When combined with immunotherapies such as KEYTRUDA, chemotherapy may increase tumour immunogenicity and activate an immune response by increasing antigen shedding and presentation, and by stimulating T-cell infiltration²



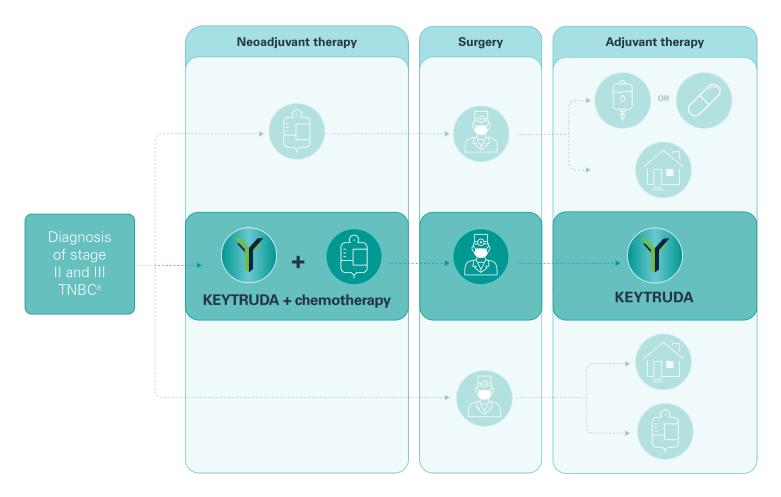
^{1.} Emens LA and Middleton G. Cancer Immunol Res 2015;3:436–443; 2. Bailly C et al. NAR Cancer 2020;2(1):zcaa002; 3. Yi M et al. J Hematol Oncol 2021;14:10; 4. KEYTRUDA (pembrolizumab) Summary of Product Characteristics. Available at: https://www.medicines.org.uk/emc/product/2498/smpc. Accessed August 2025;

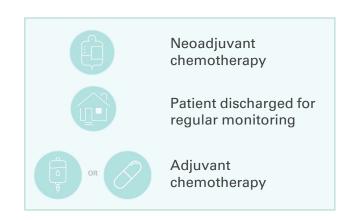
KEYTRUDA + chemotherapy licence in early-stage TNBC

KEYTRUDA, in combination with chemotherapy as neoadjuvant treatment, and then continued as monotherapy as adjuvant treatment after surgery, is indicated in the treatment of adults with locally advanced or early-stage TNBC at high risk of recurrence



KEYTRUDA in the early-stage TNBC pathway^{1–4}





aStage IIA, IIB, IIIA and IIIB early TNBC, and IIIC TNBC, as defined by the primary tumour-regional lymph node staging criteria of the AJCC (7th Edition).3

AJCC, American Joint Committee on Cancer; NICE, National Institute for Health and Care Excellence; TNBC, triple-negative breast cancer.

- 1. NICE. Early and locally advanced breast cancer: diagnosis and management. https://www.nice.org.uk/guidance/ng101/chapter/Recommendations. Accessed August 2025;
- 2. KEYTRUDA (pembrolizumab) Summary of Product Characteristics. Available at: https://www.medicines.org.uk/emc/product/2498/smpc. Accessed August 2025;
- 3. AJCC. AJCC Cancer Staging Manual. 7th ed. USA: Springer; 2010; 4. NICE. Technology appraisal guidance [TA851] December 2022. Available at: https://www.nice.org.uk/guidance/ta851. Accessed August 2025.



KEYNOTE-522: Study overview



Click the links below to navigate to the section of interest

Study design

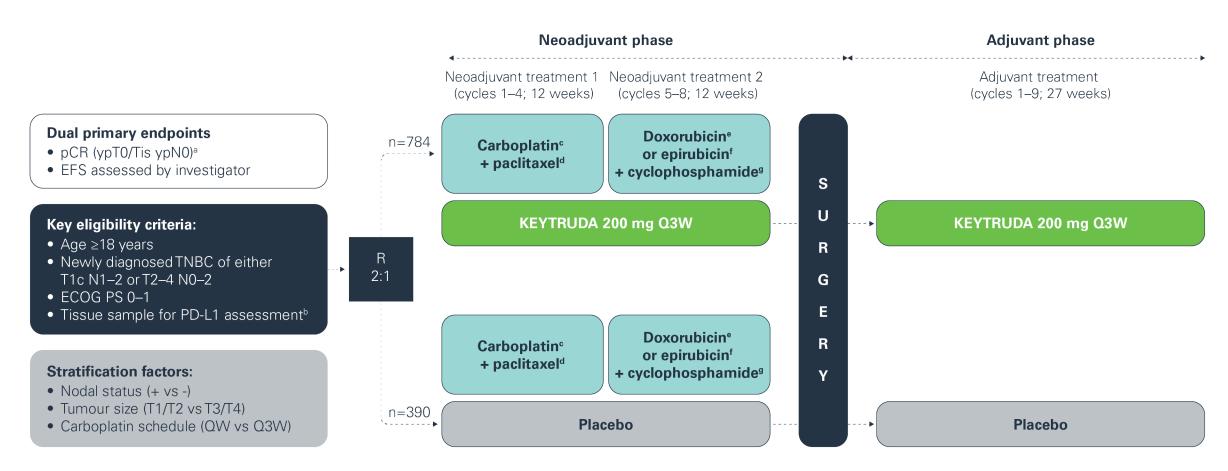
Primary endpoints

Key patient characteristics

Patient baseline characteristics



KEYNOTE-522: Study design^{1,2}



Adapted from Schmid P et al. 2020 and Schmid P et al. 2022.

AEs were assessed during each phase of the study, as well as the study as a whole.

^aBlinded assessment performed by local pathologist; ^bMust consist of at least two separate tumour cores from the primary tumour; ^cCarboplatin dose was AUC 5 Q3W or AUC 1.5 QW; ^dPaclitaxel dose was 80 mg/m² QW; ^eDoxorubicin dose was 60 mg/m² Q3W; ^fEpirubicin dose was 90 mg/m² Q3W; ^gCyclophosphamide dose was 600 mg/m² Q3W.

AE, adverse event; AUC, area under curve; ECOG PS, Eastern Cooperative Oncology Group performance status; EFS, event-free survival; pCR, pathologic complete response; PD-L1, programmed death ligand-1; QW, every week; Q3W, every 3 weeks; R, randomisation; TNBC, triple-negative breast cancer.

1. Schmid P et al. N Engl J Med 2020;382:810–821 (plus supplementary appendix); 2. Schmid P et al. N Engl J Med 2022;386:556–567 (plus supplementary appendix).



KEYNOTE-522: Primary endpoints^{1,2}

The primary endpoints of the KEYNOTE-522 trial were pCR and EFS, and were defined as follows:

pCR: The absence of invasive cancer in the breast and lymph nodes (ypT0/Tis ypN0). Blinded assessment performed by local pathologist at the time of definitive surgery

EFS: The time from randomisation to the first occurrence of any of the following events:

- Progression of disease that precludes definitive surgery
- Local or distant recurrence
- Second primary malignancy, OR
- Death due to any cause



KEYNOTE-522: Key patient characteristics

Key characteristics of the KEYTRUDA + chemotherapy arm of the KEYNOTE-522 trial:



Median patient age of 49 years (range: 22–80 years)



Primary tumour classification of 74% for T1/2 and 26% for T3/4



Nodal involvement was positive for 52% and negative for 48%



75% of patients with Stage II disease and 25% with Stage III disease

Total population: 1174 patients (KEYTRUDA + chemotherapy [n=784] and placebo + chemotherapy [n=390])

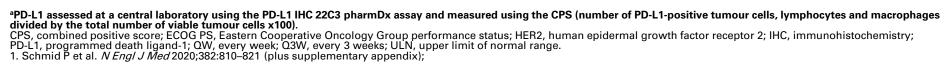


KEYNOTE-522: Patient baseline characteristics¹

Characteristic, n (%)	KEYTRUDA + chemotherapy (n=784)	Placebo + chemotherapy (n=390)
Median age (range), years	49 (22–80)	48 (24–79)
≤65 years	701 (89.4)	342 (87.7)
Menopausal status		
Premenopausal	438 (55.9)	221 (56.7)
Postmenopausal	345 (44.0)	169 (43.3)
PD-L1 status ^a		
Positive	656 (83.7)	317 (81.3)
Negative	127 (16.2)	69 (17.7)
ECOG PS		
0	678 (86.5)	341 (87.4)
1	106 (13.5)	49 (12.6)
Lactase dehydrogenase level		
≤ULN	631 (80.5)	309 (79.2)
>ULN	149 (19.0)	80 (20.5)
Administration of carboplatin		
QW	449 (57.3)	223 (57.2)
Q3W	335 (42.7)	167 (42.8)
Primary tumour classification		
T1/T2	580 (74.0)	290 (74.4)
T3/T4	204 (26.0)	100 (25.6)
Nodal involvement		
Positive	405 (51.7)	200 (51.3)
Negative	379 (48.3)	190 (48.7)

Characteristic, n (%)	KEYTRUDA + chemotherapy (n=784)	Placebo + chemotherapy (n=390)
Overall disease stage		
Stage II	590 (75.3)	291 (74.6)
Stage III	194 (24.7)	98 (25.1)
HER2 status score		
0–1	595 (75.9)	286 (73.3)
≥2	188 (24.0)	104 (26.7)

Adapted from Schmid P et al. 2020.





KEYNOTE-522: Results – Efficacy



Click the links below to navigate to the section of interest

pCR

pCR in the ITT population (primary analysis)

pCR in the ITT population (final analysis)

EFS

EFS in the ITT population (primary analysis)

EFS in the ITT population (75-month follow up)

EFS in key subgroups (primary analysis)

EFS in key subgroups (60-month follow up)

EFS by pCR (36- and 60-month follow up)

EFS by disease stage (60-month follow up)

EFS by nodal status (60-month follow up)

EFS by disease stage with and without pCR (60-month follow up)

EFS by nodal status with and without pCR (60-month follow up)

EFS in patients with baseline T2N0 disease (60-month follow up)

Distant recurrence as first EFS event (60-month follow up)

Distant recurrence as first EFS event by pCR (60-month follow up)

OS

OS in the ITT population (75-month follow up)

OS in key subgroups (75-month follow up)

OS by pCR (75-month follow up)

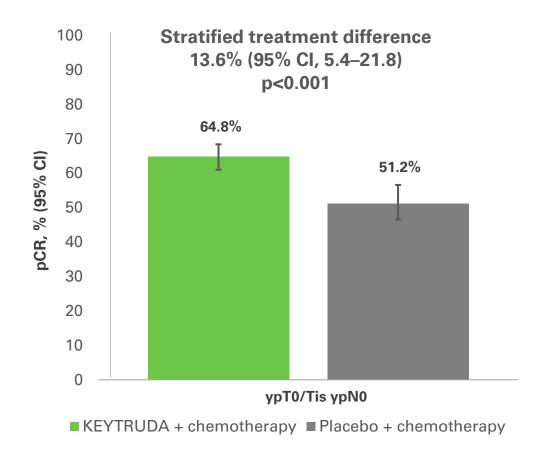
OS in patients with baseline T2N0 disease (75-month follow up)

DPFS and DRFS

DPFS or DRFS (36- and 60-month follow up)



KEYNOTE-522: pCR in the ITT population at primary analysis

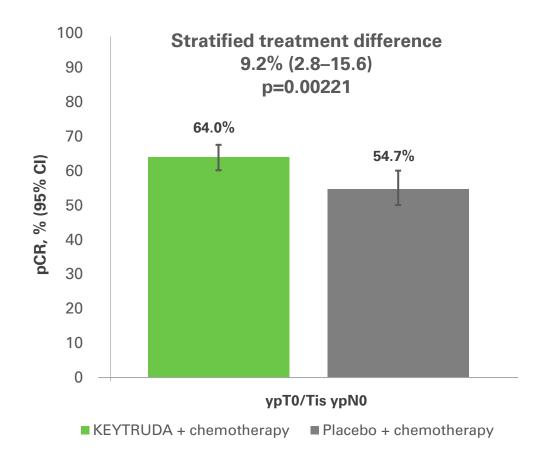


- Statistically significant improvement was observed in pCR rates with KEYTRUDA + chemotherapy (neoadjuvant treatment) vs placebo + chemotherapy (neoadjuvant treatment) in the primary analysis of KEYNOTE-522 (p<0.001)
- 64.8% of patients (95% CI, 59.9–69.5) achieved pCR in the KEYTRUDA + chemotherapy (neoadjuvant treatment) group vs 51.2% of patients (95% CI, 44.1–58.3) in the placebo + chemotherapy (neoadjuvant treatment) group

Adapted from Schmid P et al. 2020.



KEYNOTE-522: pCR in the ITT population at final analysis

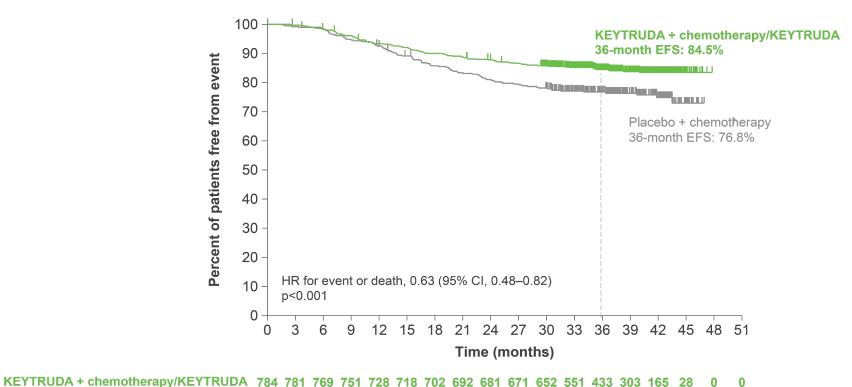


- Statistically significant improvement in pCR was observed with KEYTRUDA + chemotherapy (neoadjuvant treatment) vs placebo + chemotherapy (neoadjuvant treatment) in the final analysis of KEYNOTE-522 (p=0.00221)
- 64.0% of patients (95% CI, 60.2–67.6) achieved pCR in the KEYTRUDA + chemotherapy (neoadjuvant treatment) group vs 54.7% of patients (95% CI, 49.1–60.1) in the placebo + chemotherapy (neoadjuvant treatment) group

Adapted from KEYTRUDA SmPC.



KEYNOTE-522: EFS in the ITT population at primary analysis



- KEYTRUDA + chemotherapy in the neoadjuvant setting, followed by KEYTRUDA monotherapy as adjuvant treatment, resulted in a statistically significant improvement in EFS vs neoadjuvant placebo + chemotherapy followed by adjuvant placebo
- The 36-month estimated EFS was:
 - 84.5% in the neoadjuvant KEYTRUDA + chemotherapy followed by adjuvant KEYTRUDA group (95% CI, 81.7–86.9)
 - 76.8% in the neoadjuvant placebo + chemotherapy followed by adjuvant placebo group (95% CI, 72.2–80.7)
- Median EFS was not reached for either group

Placebo + chemotherapy/placebo 390 386 382 368 358 342 328 319 310 304 297 250 195 140 83 17 0 0

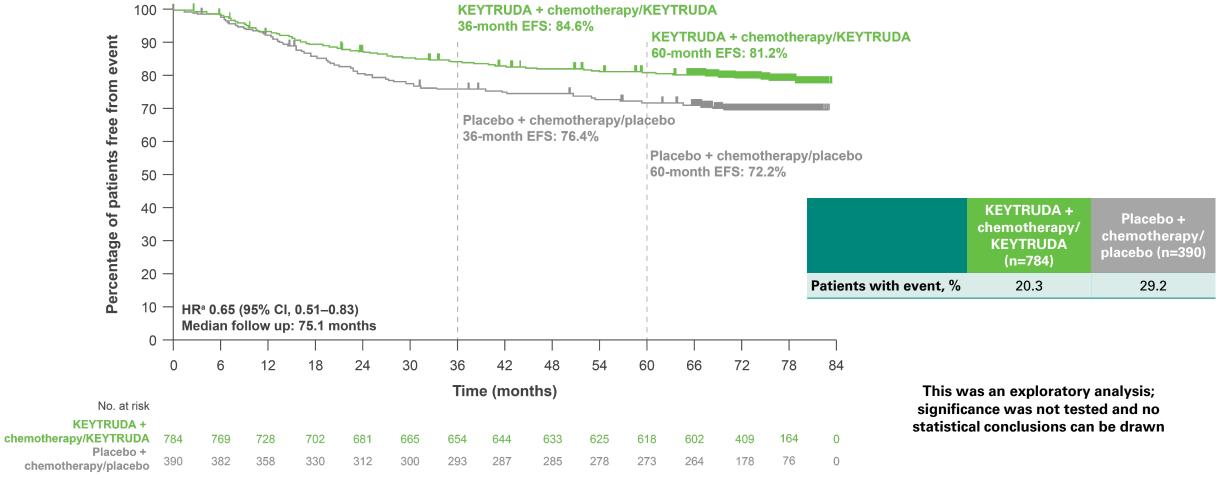
Adapted from Schmid P et al. 2022.

Click here to view the forest plot for EFS in key subgroups

Data cut-off: 23 March 2021.

Tick marks indicate data censored at the last time the patient was known to be alive and without an event (disease progression that precludes definitive surgery; local or distant recurrence or a second primary tumour; or death from any cause). The HR and Cl were analysed with the use of a Cox regression model with treatment as a covariate stratified according to the randomisation stratification factors of nodal status (+ or -), tumour size (T1/T2 or T3/T4) and frequency of carboplatin administration (QW or Q3W).

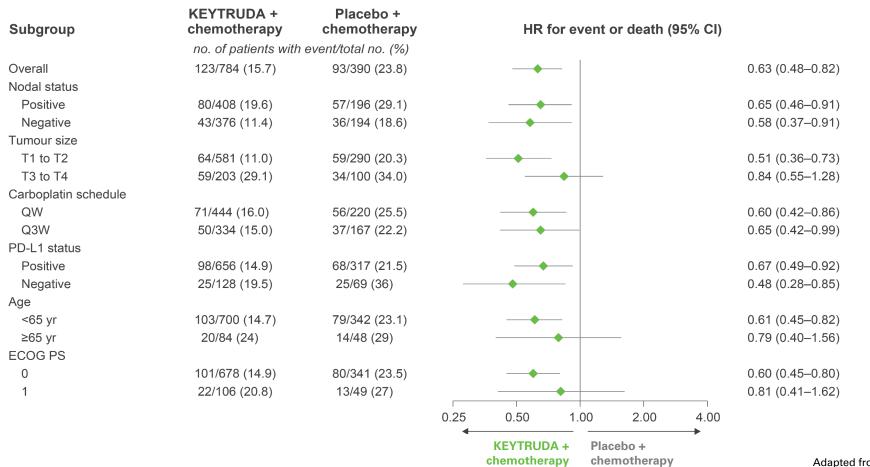
KEYNOTE-522: Exploratory analysis – EFS in the ITT population at 75-month follow up



Adapted from Schmid P et al. Presented at ESMO 2024.



KEYNOTE-522: EFS in key subgroups at primary analysis



KEYNOTE-522 was not powered to detect differences in treatment effect between these subgroups.

Results from exploratory analyses should be interpreted with caution due to modest patient numbers and potential imbalances in baseline characteristics

Adapted from Schmid P et al. 2022.

Data cut-off: 23 March 2021.

The HR and CI were analysed with the use of a Cox regression model, with treatment as a covariate and stratified according to the randomisation stratification factors of nodal status (+ or -), tumour size (T1/T2 or T3/T4) and frequency of carboplatin administration (QW or Q3W).

better

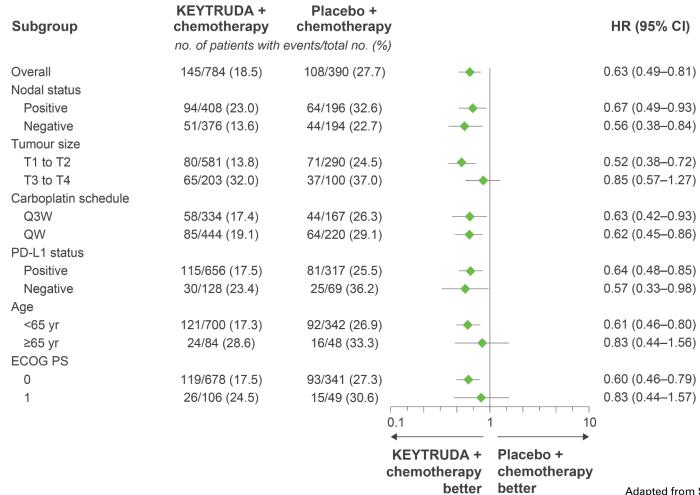
better

Cl, confidence interval; ECOG PS, Eastern Cooperative Oncology Group performance status; EFS, event-free survival; HR, hazard ratio; ITT, intention-to-treat; pCR, pathologic complete response; PD-L1, programmed death ligand-1; QW, every week; Q3W, every 3 weeks; Yr, years.

Schmid P et al. N Engl J Med 2022;386:556–567 (plus supplementary appendix).



KEYNOTE-522: Exploratory analysis – EFS in key subgroups at 60-month follow up



KEYNOTE-522 was not powered to detect differences in treatment effect between these subgroups.

Results from exploratory analyses should be interpreted with caution due to modest patient numbers and potential imbalances in baseline characteristics

Adapted from Schmid P et al. Presented at ESMO 2023.

Data cut-off: 23 March 2023.

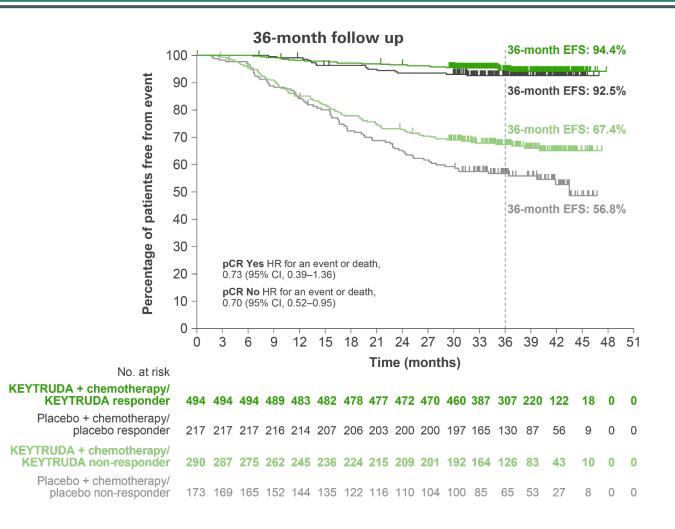
For the overall population and PD-L1 subgroups, analyses were based on a Cox regression model with Efron's method of tie handling, with treatment as a covariate and stratification by nodal status (positive vs negative), tumour size (T1/T2 vs T3/T4) and frequency of carboplatin administration (QW vs Q3W); for other subgroups, analysis was based on an unstratified Cox model.

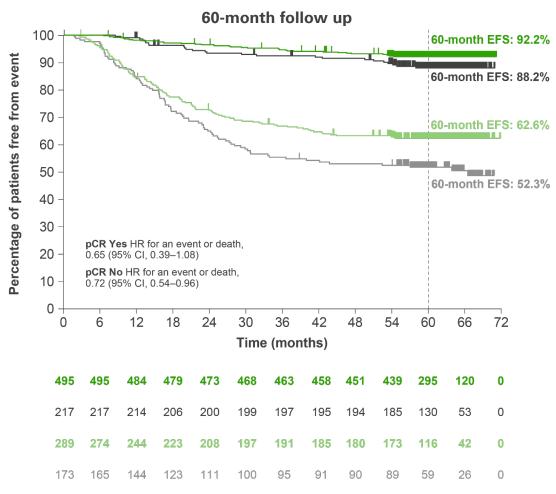
Cl, confidence interval; ECOG PS, Eastern Cooperative Oncology Group performance status; EFS, event-free survival; HR, hazard ratio; pCR, pathologic complete response;

PD-L1, programmed death ligand-1; QW, every week; Q3W, every 3 weeks; yr, years.



KEYNOTE-522: Exploratory analysis – EFS by pCR



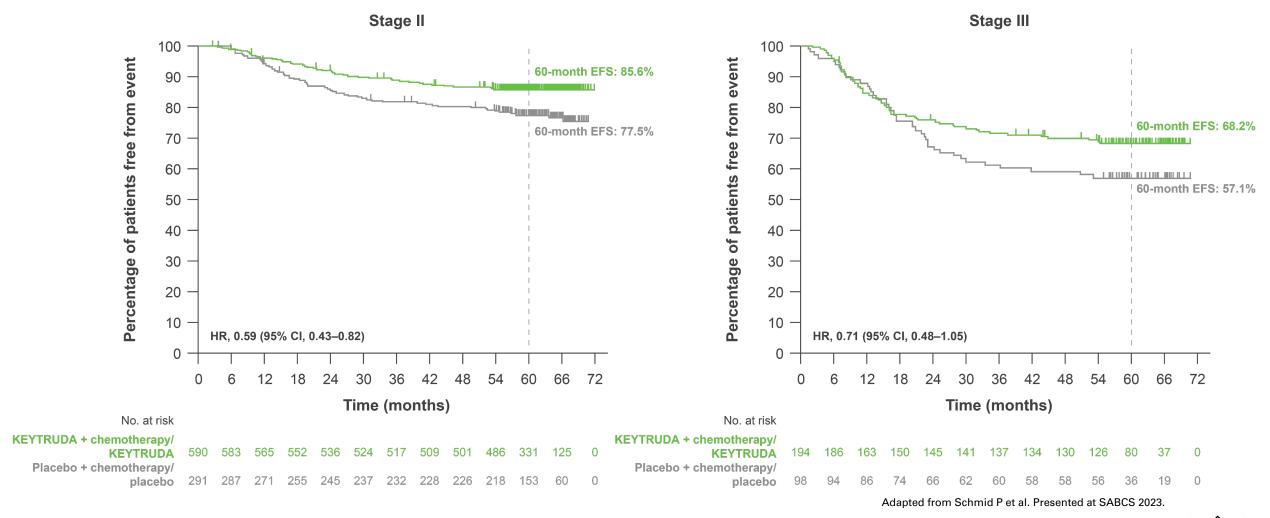


Adapted from Schmid P et al. Presented at ESMO 2023.



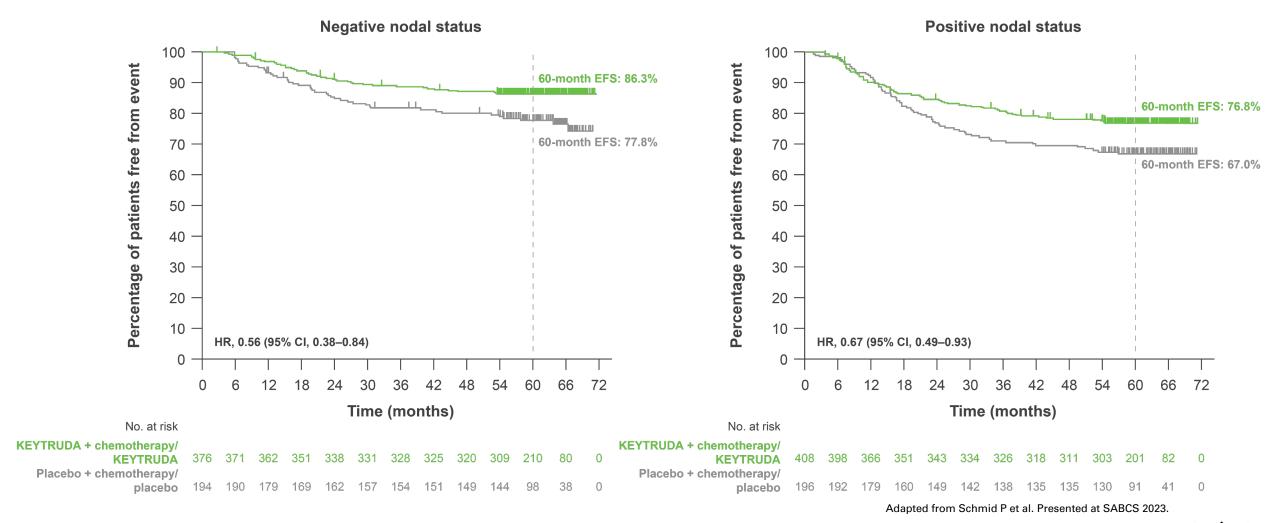


KEYNOTE-522: Exploratory analysis – EFS by disease stage at 60-month follow up



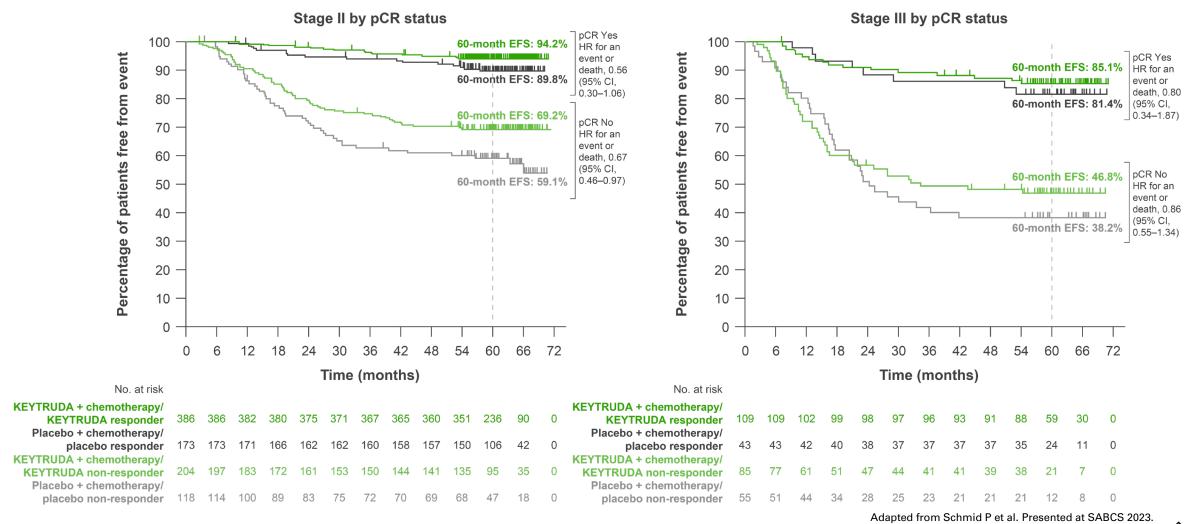


KEYNOTE-522: Exploratory analysis – EFS by nodal status at 60-month follow up





KEYNOTE-522: Exploratory analysis – EFS by disease stage in patients with and without pCR at 60-month follow up

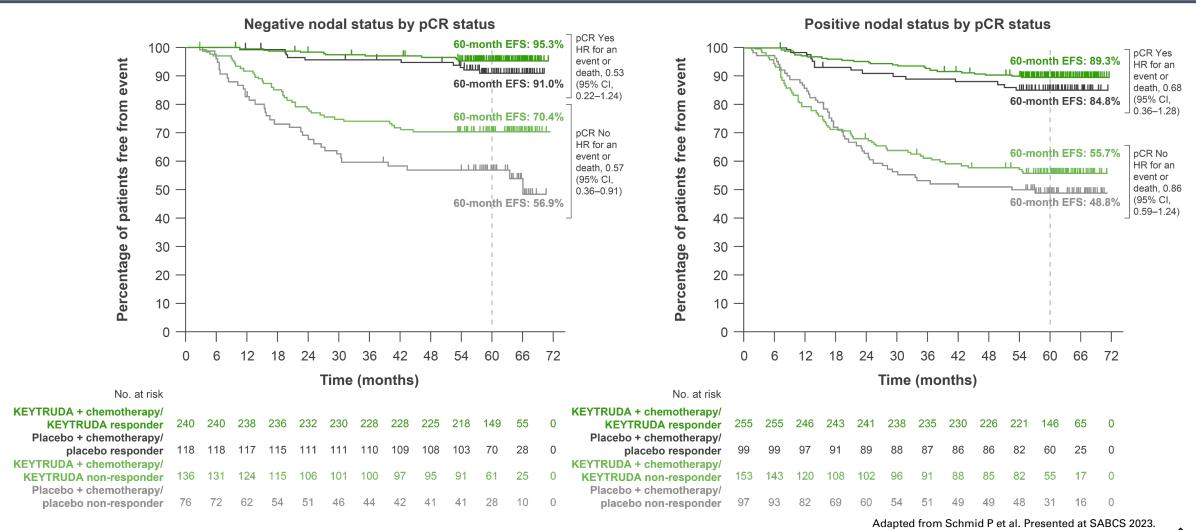


This was an exploratory analysis; significance was not tested and no statistical conclusions can be drawn



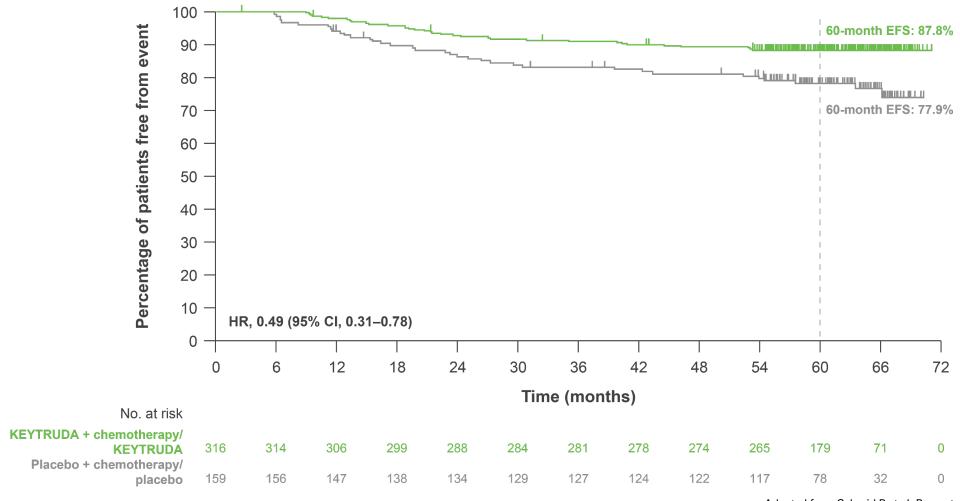
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KEYNOTE-522: Exploratory analysis – EFS by nodal status in patients with and without pCR at 60-month follow up





KEYNOTE-522: Exploratory analysis – EFS in patients with baseline T2N0 disease at 60-month follow up



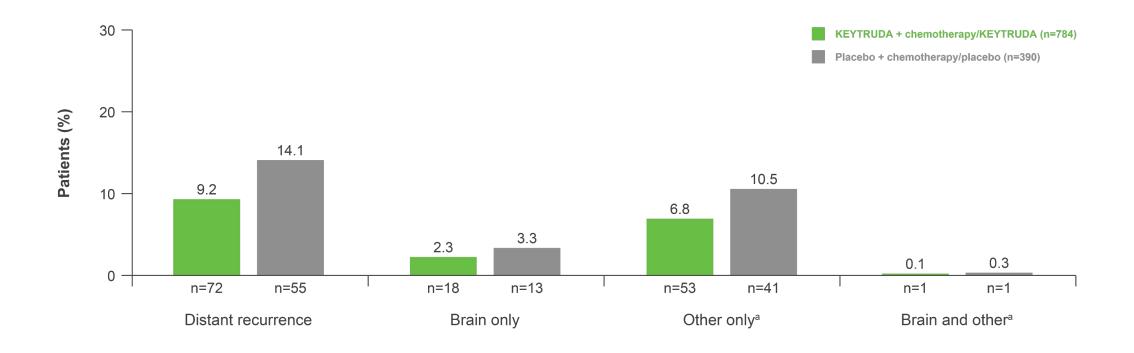
Adapted from Schmid P et al. Presented at SABCS 2023.

This was an exploratory analysis; significance was not tested and no statistical conclusions can be drawn



CI, confidence interval; EFS, event-free survival; HR, hazard ratio.
Schmid P et al. Presented at the San Antonio Breast Cancer Symposium Congress 2023, 5–9 December, San Antonio, USA.

KEYNOTE-522: Exploratory analysis – Distant recurrence as first EFS event at 60-month follow up



Adapted from Schmid P et al. Presented at SABCS 2023.

This was an exploratory analysis; significance was not tested and no statistical conclusions can be drawn

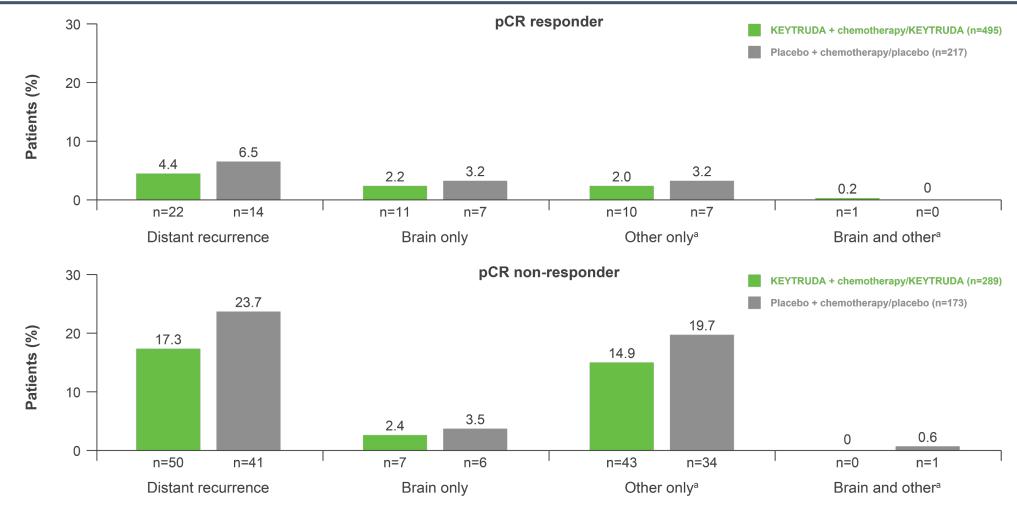
Data cut-off: 23 March 2023.

^aOther refers to non-brain distant recurrence sites, which were classified per clinical identification.

CI, confidence interval; EFS, event-free survival; HR, hazard ratio.



KEYNOTE-522: Exploratory analysis – Distant recurrence as first EFS event by pCR (ypT0/Tis ypN0) at 60-month follow up



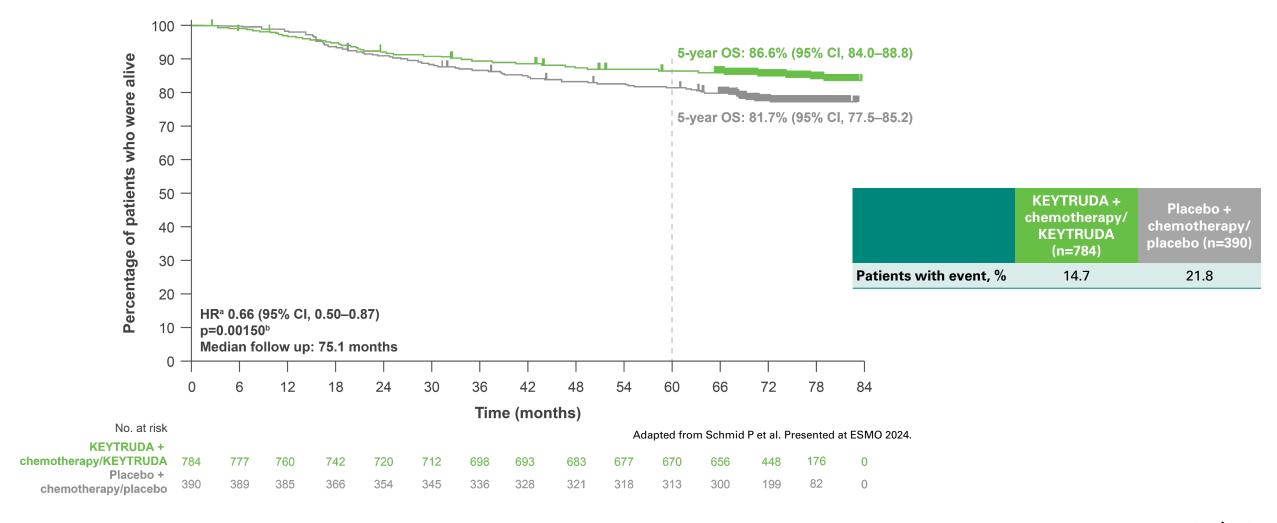
Adapted from Schmid P et al. Presented at SABCS 2023.

This was an exploratory analysis; significance was not tested and no statistical conclusions can be drawn



Data cut-off: 23 March 2023.

KEYNOTE-522: Key secondary endpoint – OS in the ITT population at 75-month follow up



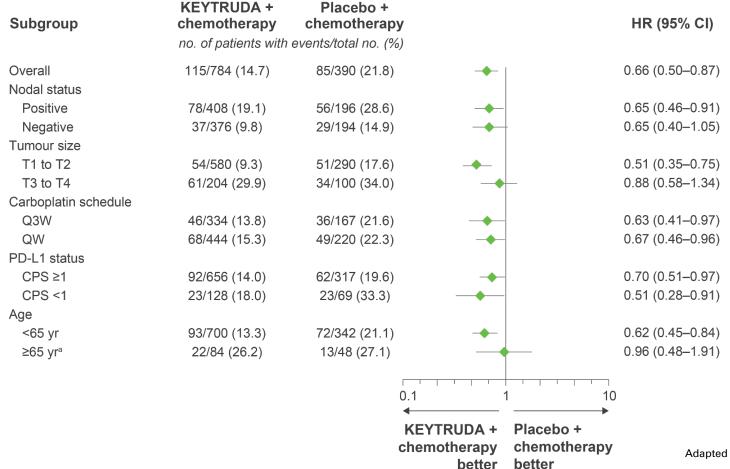
Data cut-off: 22 March 2024.

^aThe unstratified piecewise HR was 0.87 (95% CI, 0.57–1.32) before the 2-year follow up and 0.51 (95% CI, 0.35–0.75) afterwards. The weighted average HR with weights of number of events before and after 2-year follow up was 0.66; bWith 200 events (67.3% information fraction), the observed p-value crossed the prespecified nominal boundary of 0.00503 (one-sided) at this interim analysis.

CL confidence interval: HR, hazard ratio: ITT, intention-to-treat: OS, overall survival.



KEYNOTE-522: Exploratory analysis – OS in key patient subgroups at 75-month follow up



Adapted from Schmid P et al. Presented at ESMO 2024.

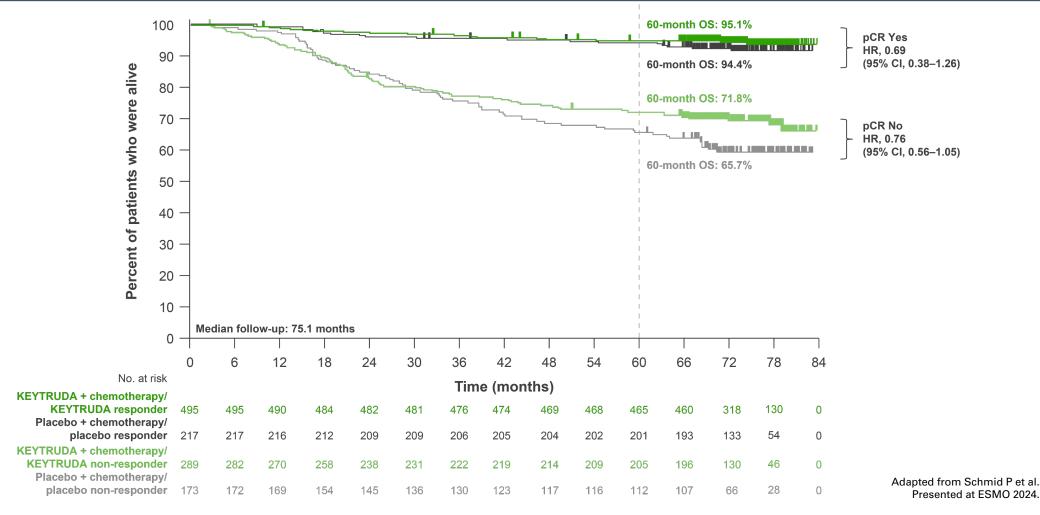
This was an exploratory analysis; significance was not tested and no statistical conclusions can be drawn

Data cut-off: 22 March 2024.

^aBased on the small sample size and few events, results should be interpreted with caution. For overall population and PD-L1 subgroups, analyses were based on Cox regression model with Efron's method of tie handling, with treatment as a covariate and stratified by nodal status (positive vs negative), tumour size (T1/T2 vs T3/T4), and frequency of carboplatin (Q3W vs QW); for other subgroups, analysis was based on an unstratified Cox model.



KEYNOTE-522: Exploratory analysis – OS by pCR (pathological stage ypT0/Tis ypN0) at 75-month follow up



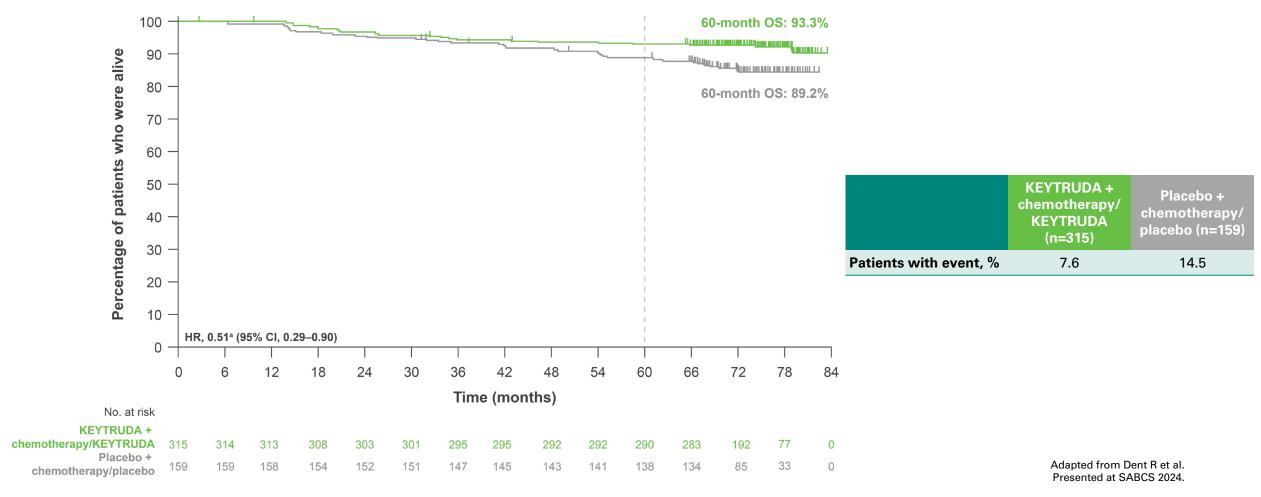
This was an exploratory analysis; significance was not tested and no statistical conclusions can be drawn



This is a non-randomised subgroup analysis based on the post-treatment outcome of pCR. HRs should therefore be interpreted with caution.



KEYNOTE-522: Exploratory analysis – OS in patients with baseline T2N0 disease at 75-month follow up



This was an exploratory analysis; significance was not tested, and no statistical conclusions can be drawn

Data cut-off: 22 March 2024.

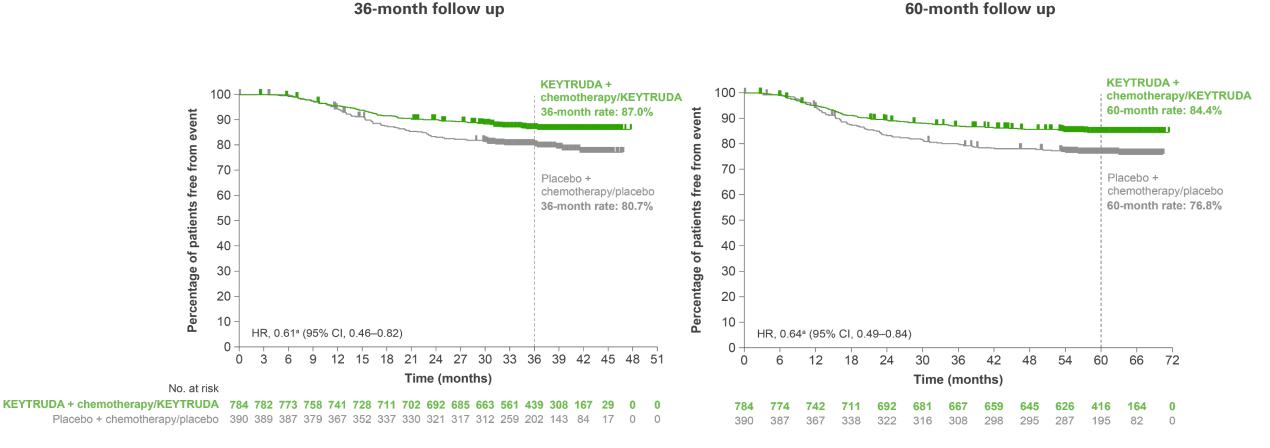
^aHR (CI) analysed based on an unstratified Cox regression model with treatment as a covariate.

CI, confidence interval; HR, hazard ratio; OS, overall survival.

Dent R et al. Presented at the San Antonio Breast Cancer Symposium 2024, 10–13 December, San Antonio, USA.



KEYNOTE-522: Exploratory analysis – DPFS or DRFS at 36- and 60-month follow up



Adapted from Schmid P et al. Presented at ESMO 2023.

This was an exploratory analysis; significance was not tested and no statistical conclusions can be drawn



^aHR (CI) analysed based on a Cox regression model with treatment as a covariate stratified by randomisation stratification factors. CI, confidence interval; DPFS, distant progression-free survival; DRFS, distant recurrence-free survival; HR, hazard ratio. Schmid P et al. Presented at the European Society of Medical Oncology Congress 2023, 20–24 September, Madrid, Spain.



KEYNOTE-522: Results – Safety



Click the links below to navigate to the section of interest

Safety assessments

Neoadjuvant phase

Summary of any-grade AEs in the neoadjuvant phase (primary analysis)

AEs of interest in the neoadjuvant phase (primary analysis)

Adjuvant phase

TRAEs in the adjuvant phase (36-month follow up)

Immune-mediated AEs and infusion reactions in the adjuvant phase (36-month follow up)

Combined phase

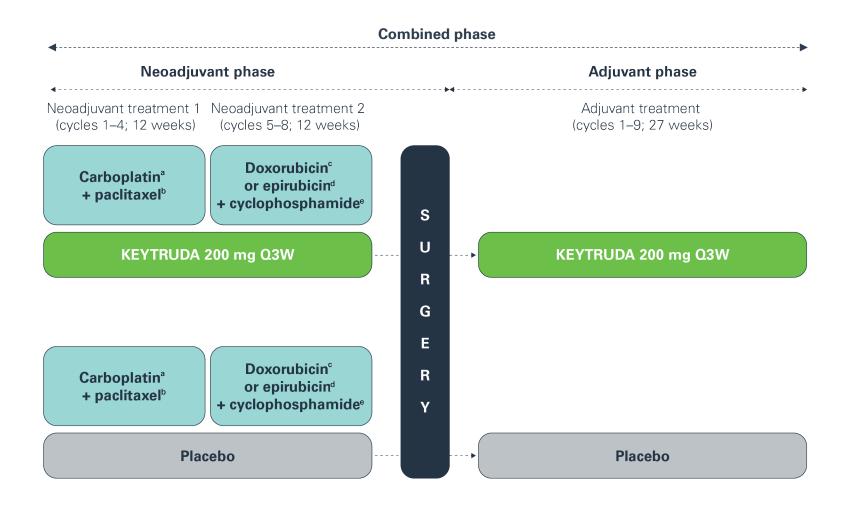
Summary of safety results in the combined phase (36-month follow up)

Summary of any grade TRAEs in the combined phase (75-month follow up)

Summary of immune-mediated AEs in the combined phase (75-month follow up)



KEYNOTE-522: Safety assessments^{1,2}

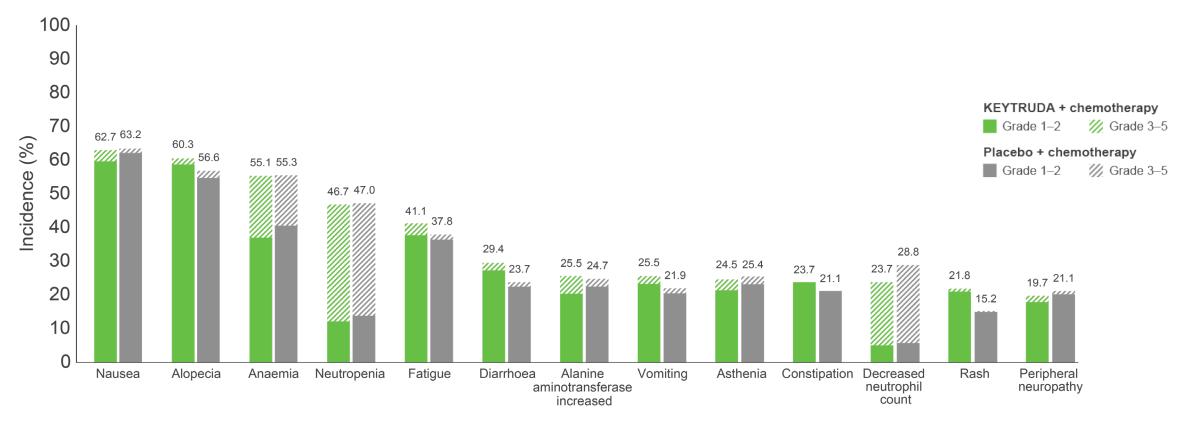


AEs were assessed during each phase of the study, as well as the study as a whole

Adapted from Schmid P et al. 2020 and Schmid P et al. 2022.



KEYNOTE-522: Summary of any-grade AEs occurring in ≥20% of patients in the neoadjuvant phase at primary analysis

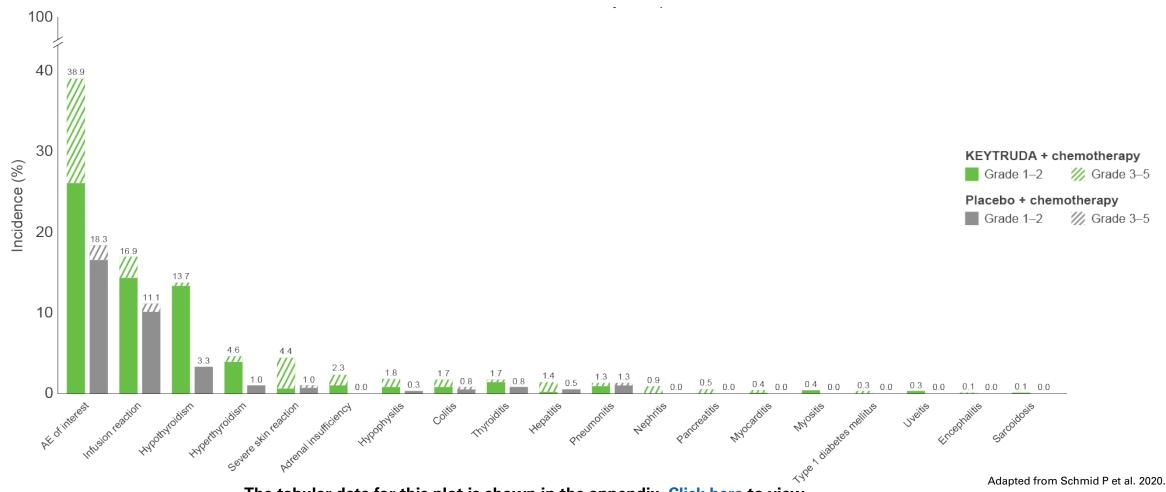


Adapted from Schmid P et al. 2020.

The tabular data for this plot is shown in the appendix. Click here to view.



KEYNOTE-522: AEs of interest in the neoadjuvant phase at primary analysis^a



The tabular data for this plot is shown in the appendix. Click here to view.

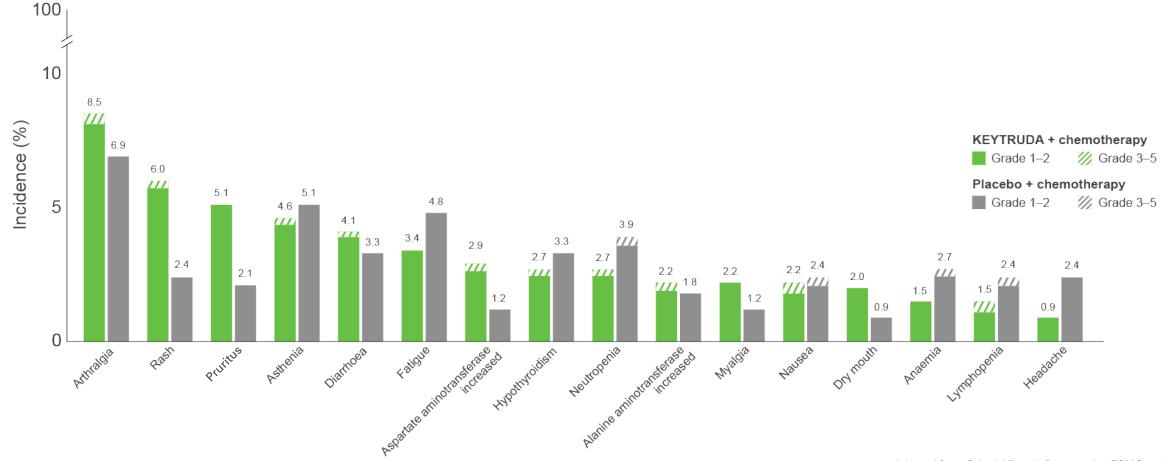
Listed are AEs that occurred during the treatment period or within 30 days after the treatment period (or, for serious AEs, within 90 days) in patients who were randomised and received at least one trial drug or surgery. The severity of the AEs was graded according to the Common Terminology Criteria for Adverse Events, v4.0, of the National Cancer Institute. Patients may have had more than one event.

aAEs of interest were determined according to a list of terms specified by the sponsor, regardless of attribution to any trial treatment by the investigators.

AEs adverse event.



KEYNOTE-522: TRAEs occurring in ≥2% of patients in the adjuvant phase at 36-month follow up



Adapted from Schmid P et al. Presented at ESMO 2021.

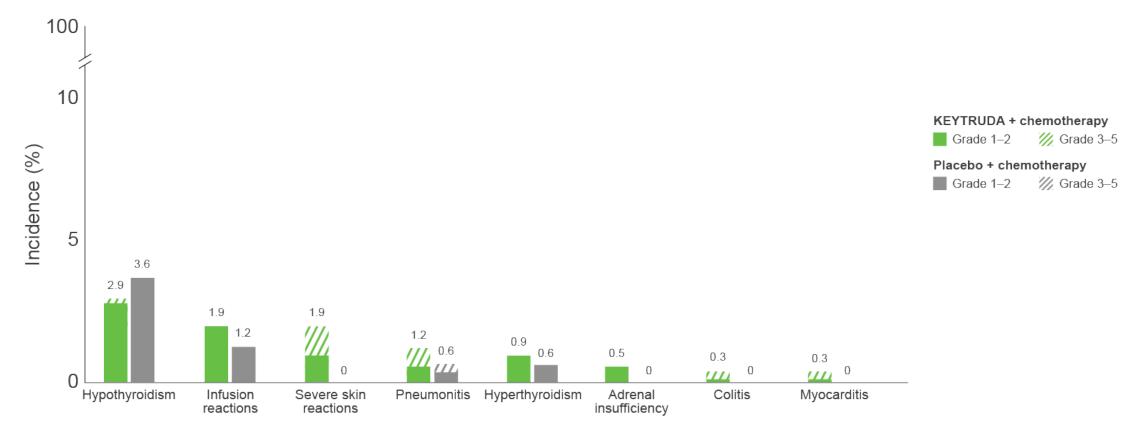
The tabular data for this plot is shown in the appendix. Click here to view.

Listed are AEs that occurred during the treatment period or within 30 days after the treatment period (or, for serious AEs, within 90 days) in patients who were randomised and received at least one trial drug or surgery. The severity of the AEs was graded according to the Common Terminology Criteria for Adverse Events, v4.0, of the National Cancer Institute. Patients may have had more than one event.

AE, adverse event; TRAE, treatment-related adverse event.



KEYNOTE-522: Immune-mediated AEs and infusion reactions in the adjuvant phase at 36-month follow up



The tabular data for this plot is shown in the appendix. Click here to view.

Adapted from Schmid P et al. Presented at ESMO 2021.

Listed are AEs that occurred during the treatment period or within 30 days after the treatment period (or, for serious AEs, within 90 days) in patients who were randomised and received at least one trial drug or surgery. The severity of the AEs was graded according to the Common Terminology Criteria for Adverse Events, v4.0, of the National Cancer Institute. Patients may have had more than one event.

Immune-mediated AEs were determined according to the sponsor, regardless of attribution to any trial treatment. Grade 5 immune-mediated AEs were pulmonary embolism and autoimmune encephalitis (n=1 each) in the KEYTRUDA + chemotherapy group.



KEYNOTE-522: Summary of safety results in the combined (neoadjuvant and adjuvant) phase at 36-month follow up

Immune-mediated AEs and infusion reactions

	KEYTRUDA + chemotherapy/ KEYTRUDA (n=783)	Placebo + chemotherapy/ placebo (n=389)
Any	341 (43.6)	85 (21.9)
Grade 1–2	224 (28.6)	77 (19.8)
Grade 3–4	115 (14.7)	8 (2.1) ^a
Grade 5	2 (0.3) ^b	0
Led to dose reduction ^c		
Chemotherapy ^d	1 (0.1) ^e	0
Led to treatment interruption		
KEYTRUDA/placebo	43 (5.5)	9 (2.3)
Chemotherapy ^d	88 (11.2)	25 (6.4)
Led to discontinuation of any drug		
KEYTRUDA/placebo	61 (7.8)	4 (1.0)
Chemotherapy ^d	45 (5.7)	7 (1.8)

Time to onset and management of the most common (≥20 patients) immune-mediated AEs and infusion reactions

	KEYTRUDA + chemotherapy/ KEYTRUDA (n=783)	Placebo + chemotherapy/ placebo (n=389)
Infusion reactions, n (%)	141 (18.0)	45 (11.6)
Median time to onset (range), days	16 (1–458)	22 (1–325)
Treated with corticosteroids, n	85	28
Hypothyroidism, n (%)	118 (15.1)	22 (5.7)
Median time to onset (range), days	105 (7–510)	255 (7–527)
Treated with thyroid replacement, n	106	13
Severe skin reactions, n (%)	45 (5.7)	4 (1.0)
Median time to onset (range), days	64 (4–479)	50.5 (32–186)
Treated with corticosteroids, n	28	0
Hyperthyroidism, n (%)	41 (5.2)	7 (1.8)
Median time to onset (range), days	107 (20–470)	184 (1–284)
Adrenal insufficiency, n (%)	20 (2.6)	0
Median time to onset (range), days	175.5 (100–383)	-
Treated with hormone replacement, n	20	-

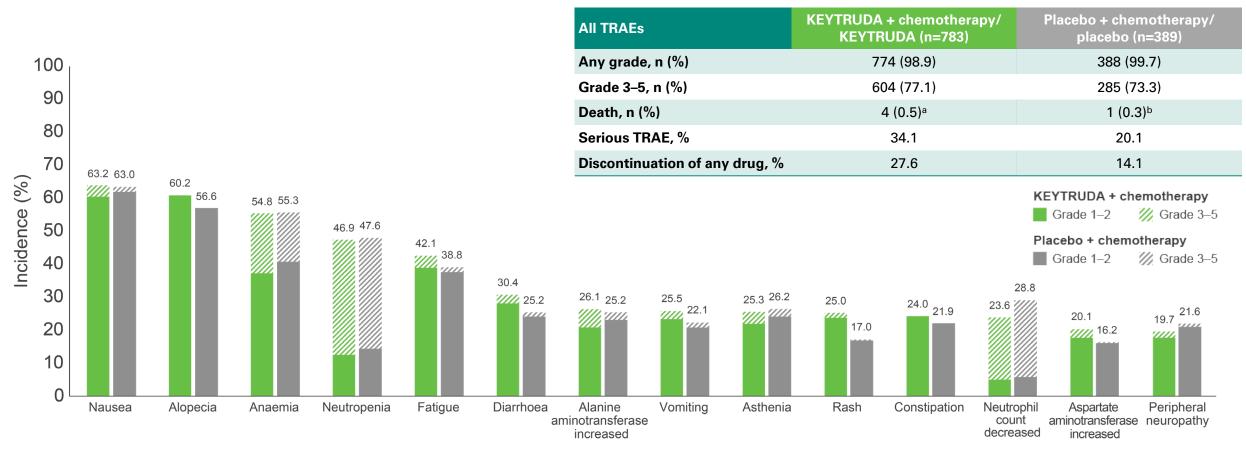
Adapted from Cortés J et al. Presented at SABCS 2023.



^aThere were no Grade 4 immune-mediated AEs or infusion reactions; ^bn=1 with pneumonitis (neoadjuvant phase), n=1 with autoimmune encephalitis (adjuvant phase); ^cDose reduction was not allowed for KEYTRUDA or placebo; ^dChemotherapy was administered during the neoadjuvant phase only; ^eDue to a severe skin reaction.

AE, adverse event.

KEYNOTE-522: Summary of any-grade TRAEs occurring in ≥20% of patients in the combined neoadjuvant and adjuvant phases at 75-month follow up^{1,2}



The tabular data for this plot is shown in the appendix. Click here to view.

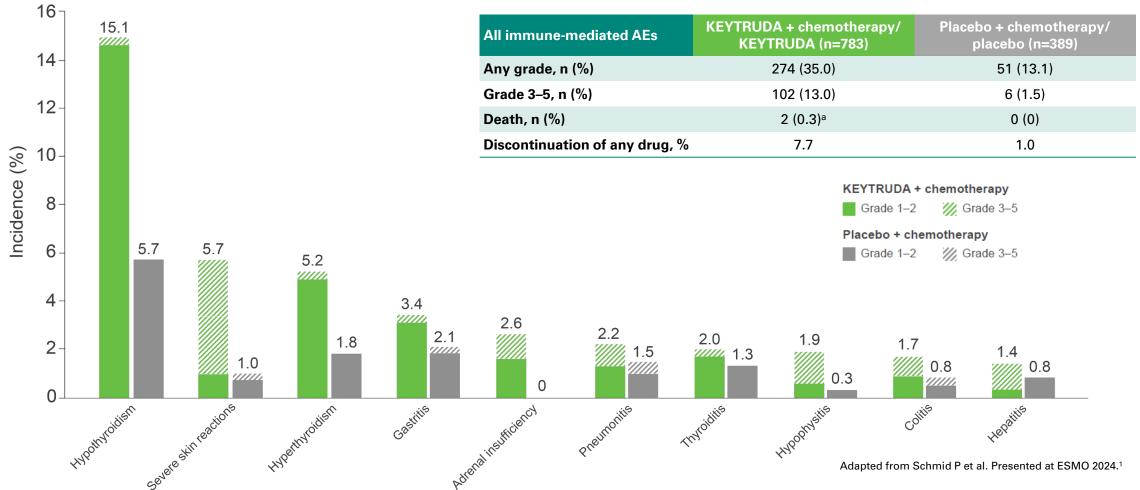
Adapted from Schmid P et al. Presented at ESMO 2024.1

Data cut-off: 22 March 2024. AEs were assessed during each phase of the study, as well as the study as a whole. Listed are AEs that occurred during the treatment period or within 30 days after the treatment period (or, for serious AEs, within 90 days) in patients who were randomised and received at least one trial drug or surgery. The severity of the AEs was graded according to the Common Terminology Criteria for Adverse Events v4.0 of the National Cancer Institute. Patients may have had more than one event.

^aGrade 5 AEs in the KEYTRUDA + chemotherapy arm were sepsis and multiple organ dysfunction syndrome (n=1) and pneumonitis, pulmonary embolism and autoimmune encephalitis (n=1 in each group); ^bGrade 5 AEs in the placebo + chemotherapy arm were septic shock (n=1). AE, adverse event: TRAE, treatment-related adverse event.

^{1.} Schmid P et al. Presented at the European Society of Medical Oncology Congress 2024, 13–17 September, Barcelona, Spain; 2. Schmid P et al. N Engl J Med 2024; doi:10.1056/NEJMoa2409932 [Epub ahead of print].

KEYNOTE-522: Summary of immune-mediated AEs occurring in ≥10 patients in the combined neoadjuvant and adjuvant phases at 75-month follow up^{1,2}



The tabular data for this plot is shown in the appendix. Click here to view.

Data cut-off: 22 March 2024. Data presented for AEs experienced by ≥10 patients.

aOne patient from pneumonitis and one patient from autoimmune encephalitis. Considered regardless of attribution to treatment or immune-relatedness by the investigator. Related terms included in addition to preferred terms listed. AE, adverse event.



^{1.} Schmid P et al. Presented at the European Society of Medical Oncology Congress 2024, 13–17 September, Barcelona, Spain;

^{2.} Schmid P et al. N Engl J Med 2024: doi:10.1056/NEJMoa2409932 [Epub ahead of print].

Implementing KEYTRUDA + chemotherapy for early-stage TNBC



Click the links below to navigate to the section of interest

KEYTRUDA dosing in KEYNOTE-522

KEYTRUDA offers flexibility of dosing



KEYTRUDA dosing in **KEYNOTE-522**

First neoadjuvant phase¹



200 mg KEYTRUDA + paclitaxel^a and carboplatin^b



Q3W up to 12 weeks



Second neoadjuvant phase¹



200 mg KEYTRUDA + doxorubicin^c or epirubicin^d and cyclophosphamide^e



Q3W up to 12 weeks



Adjuvant cycle²



200 mg KEYTRUDA monotherapy (radiation therapy concurrently or 2 weeks prior to adjuvant KEYTRUDA)



Q3W up to 27 weeks

Patients should be treated with KEYTRUDA until disease progression or unacceptable toxicity³

Atypical responses (i.e. an initial transient increase in tumour size or new small lesions within the first few months, followed by tumour shrinkage) have been observed³

It is recommended to continue treatment in clinically stable patients with initial evidence of disease progression until disease progression is confirmed³

No dose reductions of KEYTRUDA are recommended. KEYTRUDA should be withheld or discontinued to manage AEs as described within the SmPC³

When administering KEYTRUDA in combination with IV chemotherapy, KEYTRUDA should be administered first³

Consult the full KEYTRUDA SmPC for guidance on dosing



KEYTRUDA offers flexibility of dosing

KEYTRUDA dosing:



Administered as an IV infusion



Over 30 minutes



200 mg Q3W or 400 mg Q6W

Patients should be treated with KEYTRUDA until disease progression or unacceptable toxicity.

Atypical responses (i.e. an initial transient increase in tumour size or new small lesions within the first few months, followed by tumour shrinkage) have been observed.

It is recommended to continue treatment in clinically stable patients with suspected disease progression until disease progression is confirmed.

No dose reductions of KEYTRUDA are recommended. KEYTRUDA should be withheld or discontinued to manage AEs as described within the SmPC.

When administering KEYTRUDA in combination with IV chemotherapy, KEYTRUDA should be administered first.

Consult the full KEYTRUDA SmPC for guidance on dosing.

The KEYTRUDA 200 mg Q3W regimen has been assessed in Phase 2 and Phase 3 registration studies across a multitude of indications.

An exposure–response evaluation (using modelling and simulation) led to the approval of the 400 mg Q6W dosing for monotherapy and combination therapy.



KEYNOTE-522: Summary



Click the links below to navigate to the section of interest

Summary: Efficacy

Summary: Safety



Summary: Efficacy (1)



September, Madrid, Spain.

KEYTRUDA, in combination with chemotherapy as neoadjuvant treatment, and then continued as monotherapy as adjuvant treatment after surgery, is indicated in the treatment of adults with locally advanced or early-stage TNBC at high risk of recurrence¹

- There was a statistically significant improvement in pCR rates with KEYTRUDA + chemotherapy (neoadjuvant treatment) vs placebo + chemotherapy (neoadjuvant treatment) in the primary analysis (64.8% vs 51.2%, respectively; p<0.001) and in the prespecified final analysis of KEYNOTE-522 (64.0% vs 54.7%, respectively; p=0.00221)¹
- KEYTRUDA + chemotherapy in the neoadjuvant setting, followed by KEYTRUDA monotherapy as adjuvant treatment, resulted in a statistically significant improvement in EFS compared with placebo + chemotherapy followed by placebo at the 36-month analysis (HR: 0.63; 95% CI: 0.48–0.82 [p<0.001])^{a,b,2} and numerically higher EFS at 75-month follow up (HR: 0.65; 95% CI: 0.51–0.83)^{a,3}
 - At 36- and 75-month follow up, the percentage of patients who experienced an event were 15.7% and 20.3% in the KEYTRUDA + chemotherapy group and 23.8% and 29.2% in the placebo + chemotherapy group, respectively^{2,3}
- An exploratory analysis of EFS in key subgroups, including disease stage, nodal status and T2N0 status, suggested a benefit for
 patients treated with KEYTRUDA + chemotherapy vs placebo + chemotherapy^{2,4,5}



Summary: Efficacy (2)



KEYTRUDA, in combination with chemotherapy as neoadjuvant treatment, and then continued as monotherapy as adjuvant treatment after surgery, is indicated in the treatment of adults with locally advanced or early-stage TNBC at high risk of recurrence¹

- An exploratory analysis of EFS by pCR (ypT0/Tis ypN0) suggested a benefit for KEYTRUDA + chemotherapy vs placebo + chemotherapy regardless of pCR outcome at 36 months of follow up, with the difference maintained at 60 months of follow up²
- KEYTRUDA + chemotherapy in the neoadjuvant setting, followed by KEYTRUDA monotherapy as adjuvant treatment, resulted
 in a statistically significant and clinically meaningful improvement in OS (key secondary endpoint) at 75-month follow up
 (HR: 0.66; 95% CI: 0.50–0.87 [p=0.00150])^a compared with neoadjuvant placebo + chemotherapy followed by placebo in patients
 with previously untreated, high-risk, early-stage TNBC³
 - OS was numerically higher for patients treated with KEYTRUDA + chemotherapy vs placebo + chemotherapy in an
 exploratory analysis of key subgroups, including nodal status, tumour size T1/T2 vs T3/T4 and patients with baseline
 T2N0 disease^{3,4}



Congress 2024, 13-17 September, Barcelona, Spain: 4, Dent R et al. Presented at the San Antonio Breast Cancer Symposium 2024, 10-13 December, San Antonio, USA,

Summary: Safety



KEYTRUDA, in combination with chemotherapy as neoadjuvant treatment, and then continued as monotherapy as adjuvant treatment after surgery, is indicated in the treatment of adults with locally advanced or early-stage TNBC at high risk of recurrence¹

- The safety data for KEYTRUDA + chemotherapy as neoadjuvant treatment, followed by KEYTRUDA monotherapy as adjuvant treatment, are consistent with the known AE profiles of each regimen, being generally manageable in both phases^{2–4}
- No indication-specific immune-mediated AEs were identified at the 36-month analysis⁴
 - Most immune-mediated AEs and infusion reactions were Grade 1–2 in severity, manageable with corticosteroids, treatment interruption and/or hormone replacement, and did not result in treatment discontinuation⁴
- The safety profile remained consistent with the previous analyses and the established safety profiles of KEYTRUDA + chemotherapy.⁵ No new safety concerns were identified with longer follow up (75 months)



Appendix



Click the links below to navigate to the section of interest

Efficacy

EFS by RCB category

First EFS events by RCB category

pCR by PD-L1 expression level

Safety

Summary of any-grade AEs in the neoadjuvant phase (primary analysis)

Immune-mediated AEs and infusion reactions in the adjuvant phase (36-month follow up)

AEs of interest in the neoadjuvant phase (1/2) (primary analysis)

Any-grade AEs in the combined phase (75-month follow up)

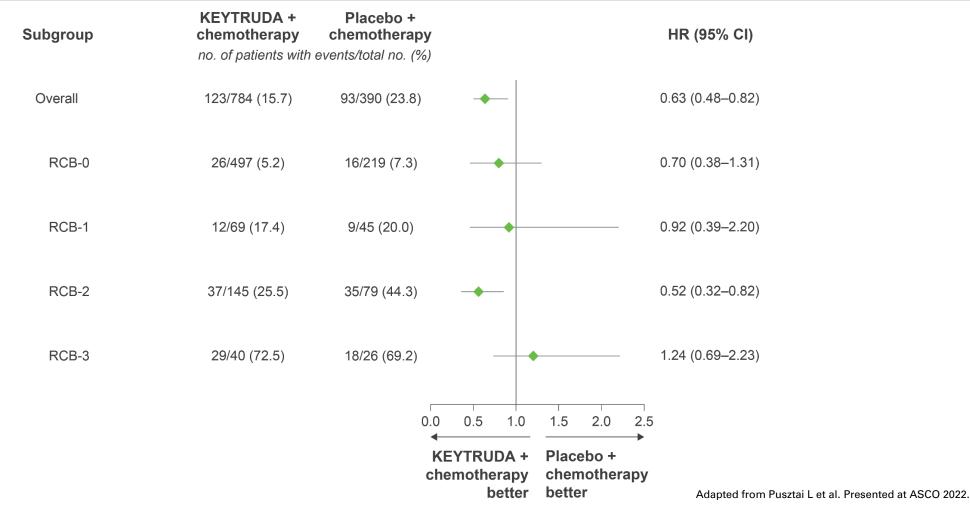
AEs of interest in the neoadjuvant phase (2/2) (primary analysis)

Immune-mediated AEs in the combined phase (75-month follow up)

TRAEs in the adjuvant phase (36-month follow up)



KEYNOTE-522: Exploratory analysis – EFS by RCB category



This was an exploratory analysis; significance was not tested and no statistical conclusions can be drawn





KEYNOTE-522: Exploratory analysis – First EFS events by RCB category

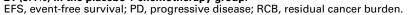
	RCI	B- 0	RC	B- 1	RCI	3-2	RCI	3-3
Event, %	KEYTRUDA + chemo (n=497)	Placebo + chemo (n=219)	KEYTRUDA + chemo (n=69)	Placebo + chemo (n=45)	KEYTRUDA + chemo (n=145)	Placebo + chemo (n=79)	KEYTRUDA + chemo (n=40)	Placebo + chemo (n=26)
Any EFS event	5.2	7.3	17.4	20.0	25.5	44.3	72.5	69.2
Secondary primary malignancy	0.2	0	1.4	2.2	1.4	3.8	2.5	0
PD precluded definitive surgery	0	0	1.4	2.2	1.4	5.1	10.0	7.7
Local recurrence	0.6	1.4	4.3	6.7	6.9	8.9	25.0	7.7
Distant recurrence	3.2	5.5	8.7	8.9	15.2	22.8	35.0	53.8
Death	1.2	0.5	1.4	0	0.7	3.8	0	0

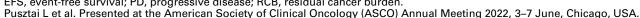
Adapted from Pusztai L et al. Presented at ASCO 2022.

UK Prescribing Information

Data cut-off: 23 March 2021.

The treatment regimen in each arm included chemotherapy. Among all patients (N=1174), 54 (4.6%) patients had missing RCB categorical data: 33 (4.2%) in the KEYTRUDA + chemotherapy group and 21 (5.4%) in the placebo + chemotherapy group.



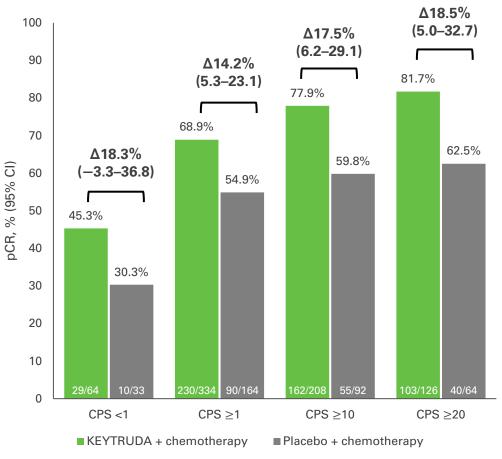






KEYNOTE-522: Exploratory analysis – pCR by PD-L1 expression level

Similar pCRa benefits were observed in PD-L1-positive and PD-L1-negative patients treated with KEYTRUDA + chemotherapy



Adapted from Schmid P et al. Presented at SABCS 2019.

UK Prescribing Information

This was an exploratory analysis; significance was not tested and no statistical conclusions can be drawn





Schmid P et al. Presented at the San Antonio Breast Cancer Symposium 2019, 11-14 December, San Antonio, USA.

KEYNOTE-522: Summary of any-grade AEs occurring in ≥20% of patients in the neoadjuvant phase at primary analysis

AE, n (%)	KEYTRUDA + chemotherapy (n=781)		Placebo + chemotherapy (n=389)	
AL, II (70)	Any grade	Grade ≥3	Any grade	Grade ≥3
Any AE	777 (99.2)	633 (81.0)	389 (100.0)	295 (75.8)
Treatment-related AE ^a	773 (99.0)	600 (76.8)	388 (99.7)	281 (72.2)
Nausea	490 (62.7)	26 (3.3)	246 (63.2)	5 (1.3)
Alopecia	471 (60.3)	14 (1.8)	220 (56.6)	8 (2.1)
Anaemia	430 (55.1)	142 (18.2)	215 (55.3)	58 (14.9)
Neutropenia	365 (46.7)	270 (34.6)	183 (47.0)	129 (33.2)
Fatigue	321 (41.1)	27 (3.5)	147 (37.8)	6 (1.5)
Diarrhoea	230 (29.4)	17 (2.2)	92 (23.7)	5 (1.3)
Alanine aminotransferase increased	199 (25.5)	41 (5.2)	96 (24.7)	9 (2.3)
Vomiting	199 (25.5)	18 (2.3)	85 (21.9)	6 (1.5)
Asthenia	191 (24.5)	25 (3.2)	99 (25.4)	9 (2.3)
Constipation	185 (23.7)	0	82 (21.1)	0
Decreased neutrophil count	185 (23.7)	146 (18.7)	112 (28.8)	90 (23.1)
Rash	170 (21.8)	7 (0.9)	59 (15.2)	1 (0.3)
Peripheral neuropathy	154 (19.7)	15 (1.9)	82 (21.1)	4 (1.0)

Adapted from Schmid P et al. 2020.





KEYNOTE-522: AEs of interest in the neoadjuvant phase at primary analysis (1/2)

AE, n (%)	KEYTRUDA + cher	notherapy (n=781)	Placebo + chemotherapy (n=389)	
	Any grade	Grade ≥3	Any grade	Grade ≥3
Any AE	777 (99.5)	633 (81.0)	389 (100.0)	295 (75.8)
Treatment-related AE ^a	773 (99.0)	600 (76.8)	388 (99.7)	281 (72.2)
AE of interest ^b	304 (38.9)	101 (12.9)	71 (18.3)	7 (1.8)
Infusion reaction	132 (16.9)	20 (2.6)	43 (11.1)	4 (1.0)
Hypothyroidism	107 (13.7)	3 (0.4)	13 (3.3)	0
Hyperthyroidism	36 (4.6)	2 (0.3)	4 (1.0)	0
Severe skin reaction	34 (4.4)	30 (3.8)	4 (1.0)	1 (0.3)
Adrenal insufficiency	18 (2.3)	10 (1.3)	0	0
Hypophysitis	14 (1.8)	8 (1.0)	1 (0.3)	0
Colitis	13 (1.7)	7 (0.9)	3 (0.8)	1 (0.3)
Thyroiditis	13 (1.7)	2 (0.3)	3 (0.8)	0
Hepatitis	11 (1.4)	9 (1.2)	2 (0.5)	0

Adapted from Schmid P et al. 2020.

Listed are AEs that occurred during the treatment period or within 30 days after the treatment period (or, for serious AEs, within 90 days) in patients who underwent randomisation and received at least one trial drug or surgery. The severity of the AEs was graded according to the Common Terminology Criteria for Adverse Events, v4.0, of the National Cancer Institute. Patients may have had more than one event.
aTreatment-related AEs were events occurring in ≥20% of patients or considered medically relevant by the investigator; bAEs of interest were determined according to a list of terms specified by the sponsor, regardless of attribution to any trial treatment by the investigators.

AE, adverse event.





KEYNOTE-522: AEs of interest in the neoadjuvant phase at primary analysis (2/2)

AE, n (%)	KEYTRUDA + cher	motherapy (n=781)	Placebo + chemotherapy (n=389)	
AL, II (70)	Any grade	Grade ≥3	Any grade	Grade ≥3
Any AE	777 (99.5)	633 (81.0)	389 (100.0)	295 (75.8)
Treatment-related AE ^a	773 (99.0)	600 (76.8)	388 (99.7)	281 (72.2)
AE of interest ^b	304 (38.9)	101 (12.9)	71 (18.3)	7 (1.8)
Pneumonitis	10 (1.3)	3 (0.4)	5 (1.3)	1 (0.3)
Nephritis	7 (0.9)	7 (0.9)	0	0
Pancreatitis	4 (0.5)	4 (0.5)	0	0
Myocarditis	3 (0.4)	2 (0.3)	0	0
Myositis	3 (0.4)	0	0	0
Type 1 diabetes mellitus	2 (0.3)	2 (0.3)	0	0
Uveitis	2 (0.3)	0	0	0
Encephalitis	1 (0.1)	1 (0.1)	0	0
Sarcoidosis	1 (0.1)	0	0	0

Adapted from Schmid P et al. 2020.

Listed are AEs that occurred during the treatment period or within 30 days after the treatment period (or, for serious AEs, within 90 days) in patients who were randomised and received at least one trial drug or surgery. The severity of the AEs was graded according to the Common Terminology Criteria for Adverse Events, v4.0, of the National Cancer Institute. Patients may have had more than one event.

aTreatment-related AEs were events occurring in ≥20% of patients or considered medically relevant by the investigator; bAEs of interest were determined according to a list of terms specified by the sponsor, regardless of attribution to any trial treatment by the investigators.

AE, adverse event.





KEYNOTE-522: TRAEs occurring in ≥2% of patients in the adjuvant phase at 36-month follow up

AE, n (%) ^a	KEYTRUDA + chemotherapy (n=588)	Placebo + chemotherapy (n=331)	
Any grade	316	286	
Arthralgia	50 (8.5)	41 (6.9)	
Rash	35 (6.0)	14 (2.4)	
Pruritus	30 (5.1)	12 (2.1)	
Asthenia	27 (4.6)	30 (5.1)	
Diarrhoea	24 (4.1)	19 (3.3)	
Fatigue	20 (3.4)	28 (4.8)	
Aspartate aminotransferase increased	17 (2.9)	7 (1.2)	
Hypothyroidism	16 (2.7)	19 (3.3)	
Neutropenia	16 (2.7)	23 (3.9)	
Alanine aminotransferase increased	13 (2.2)	11 (1.8)	
Myalgia	13 (2.2)	7 (1.2)	
Nausea	13 (2.2)	14 (2.4)	
Dry mouth	12 (2.0)	5 (0.9)	
Anaemia	9 (1.5)	16 (2.7)	
Lymphopenia	9 (1.5)	14 (2.4)	
Headache	5 (0.9)	14 (2.4)	

Adapted from Schmid P et al. Presented at ESMO 2021.

Listed are AEs that occurred during the treatment period or within 30 days after the treatment period (or, for serious AEs, within 90 days) in patients who were randomised and received at least one trial drug or surgery. The severity of the AEs was graded according to the Common Terminology Criteria for Adverse Events, v4.0, of the National Cancer Institute. Patients may have had more than one event.

an numbers for each AE have been calculated from provided percentages.

AE, adverse event; TRAE, treatment-related adverse event.





KEYNOTE-522: Immune-mediated AEs and infusion reactions in the adjuvant phase at 36-month follow up^a

AE, n (%) ^b	KEYTRUDA + chemotherapy (n=588)	Placebo + chemotherapy (n=331)
Any grade	60 (10.2)	35 (6.0)
Hypothyroidism	17 (2.9)	21 (3.6)
Infusion reactions	11 (1.9)	7 (1.2)
Severe skin reactions	11 (1.9)	0
Pneumonitis	7 (1.2)	4 (0.6)
Hyperthyroidism	5 (0.9)	4 (0.6)
Adrenal insufficiency	3 (0.5)	0
Colitis	2 (0.3)	0
Myocarditis	2 (0.3)	0

Adapted from Schmid P et al. Presented at ESMO 2021.





KEYNOTE-522: Any-grade AEs in the combined neoadjuvant and adjuvant phases occurring in ≥20% of patients at 75-month follow up

AE, n (%)	KEYTRUDA + chei	motherapy (n=783)	Placebo + chemotherapy (n=389)	
AE, II (/0)	Any grade	Grade ≥3	Any grade	Grade ≥3
Any AE	777 (99.2)	645 (82.4)	389 (100.0)	306 (78.7)
TRAE ^a	774 (98.9)	604 (77.1)	388 (99.7)	285 (73.3)
Nausea	495 (63.2)	27 (3.4)	245 (63.0)	6 (1.5)
Alopecia	471 (60.2)	0	220 (56.6)	0
Anaemia	429 (54.8)	141 (18.0)	215 (55.3)	58 (14.9)
Neutropenia	367 (46.9)	270 (34.5)	185 (47.6)	130 (33.4)
Fatigue	330 (42.1)	28 (3.6)	151 (38.8)	7 (1.8)
Diarrhoea	238 (30.4)	20 (2.6)	98 (25.2)	5 (1.3)
Alanine aminotransferase increased	204 (26.1)	43 (5.5)	98 (25.2)	9 (2.3)
Vomiting	200 (25.5)	19 (2.4)	86 (22.1)	6 (1.5)
Asthenia	198 (25.3)	28 (3.6)	102 (26.2)	9 (2.3)
Rash	196 (25.0)	12 (1.5)	66 (17.0)	1 (0.3)
Constipation	188 (24.0)	0	85 (21.9)	0
Neutrophil count decreased	185 (23.6)	146 (18.6)	112 (28.8)	90 (23.1)
Aspartate aminotransferase increased	157 (20.1)	20 (2.6)	63 (16.2)	1 (0.3)
Peripheral neuropathy	154 (19.7)	15 (1.9)	84 (21.6)	4 (1.0)

Adapted from Schmid P et al. Presented at ESMO 2024.

Listed are AEs that occurred during the treatment period or within 30 days after the treatment period (or, for serious AEs, within 90 days) in patients who were randomised and received at least one trial drug, underwent surgery, or both. The severity of the AEs was graded according to the Common Terminology Criteria for Adverse Events, v4.0, of the National Cancer Institute. Patients may have had more than one event.

^aGrade 5 TRAEs were sepsis and multiple organ dysfunction syndrome (n=1) and pneumonitis, pulmonary embolism and autoimmune encephalitis (n=1 in each group) in the KEYTRUDA + chemotherapy arm and septic shock (n=1) in the placebo + chemotherapy arm.

AE, adverse event.

Schmid P et al. N Engl J Med 2024; doi:10.1056/NEJMoa2409932 [Epub ahead of print].





KEYNOTE-522: Immune-mediated AEs occurring in patients in the combined neoadjuvant and adjuvant phases at 75-month follow up

AE, n (%)	KEYTRUDA + chen	KEYTRUDA + chemotherapy (n=783)		Placebo + chemotherapy (n=389)	
AL, II (70)	Any grade	Grade ≥3	Any grade	Grade ≥3	
Any AE	777 (99.2)	645 (82.4)	389 (100.0)	306 (78.7)	
TRAEª	774 (98.9)	604 (77.1)	388 (99.7)	285 (73.3)	
Immune-mediated AE ^b	274 (35.0)	102 (13.0)	51 (13.1)	6 (1.5)	
Hypothyroidism	118 (15.1)	4 (0.5)	22 (5.7)	0	
Severe skin reaction	45 (5.7)	37 (4.7)	4 (1.0)	1 (0.3)	
Hyperthyroidism	41 (5.2)	2 (0.3)	7 (1.8)	0	
Gastritis	27 (3.4)	2 (0.3)	8 (2.1)	1 (0.3)	
Adrenal insufficiency	20 (2.6)	8 (1.0)	0	0	
Pneumonitis	17 (2.2)	7 (0.9)	6 (1.5)	2 (0.5)	
Thyroiditis	16 (2.0)	2 (0.3)	5 (1.3)	0	
Hypophysitis	15 (1.9)	10 (1.3)	1 (0.3)	0	

Adapted from Schmid P et al. 2024.

Listed are AEs that occurred during, or 30 days after the treatment period (or, for serious AEs, within 90 days) in patients who were randomised and received ≥1 trial drug, underwent surgery, or both. The severity of the AEs was graded according to the Common Terminology Criteria for Adverse Events, v4.0, of the National Cancer Institute. Immune-mediated adverse events that occurred in ≥15 patients in either treatment group are reported. Patients may have had more than one event.

^aGrade 5 TRAEs were sepsis and multiple organ dysfunction syndrome (n=1) and pneumonitis, pulmonary embolism and autoimmune encephalitis (n=1 in each group) in the KEYTRUDA + chemotherapy arm and septic shock (n=1) in the placebo + chemotherapy arm; ^bImmune-mediated AEs were determined according to a list of terms determined by the sponsor, regardless of attribution to any trial treatment by the investigators. Grade 5 immune-mediated AEs were pulmonary embolism and autoimmune encephalitis (n=1 each) in the KEYTRUDA + chemotherapy group.

AE, adverse event.

UK Prescribing Information



