



Zaawansowany rak piersi ASCO 2025

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Oświadczenie o konflikcie interesów

- Honoraria za udział w komitetach doradczych: Genetech, Lilly, Roche, Novartis, Mylan, Pfizer, Glaxo, AstraZeneca, Gilead
- Honoraria za wykłady: Lilly, Roche, Novartis, Mylan, Pfizer, AstraZeneca, Gilead
- Honoraria za prowadzenie badań klinicznych: Novartis, Lilly, Astra, Roche
- Granty na wyjazdy na konferencje naukowe: Roche, Pfizer, Astra, Gilead

DESTINY-Breast09

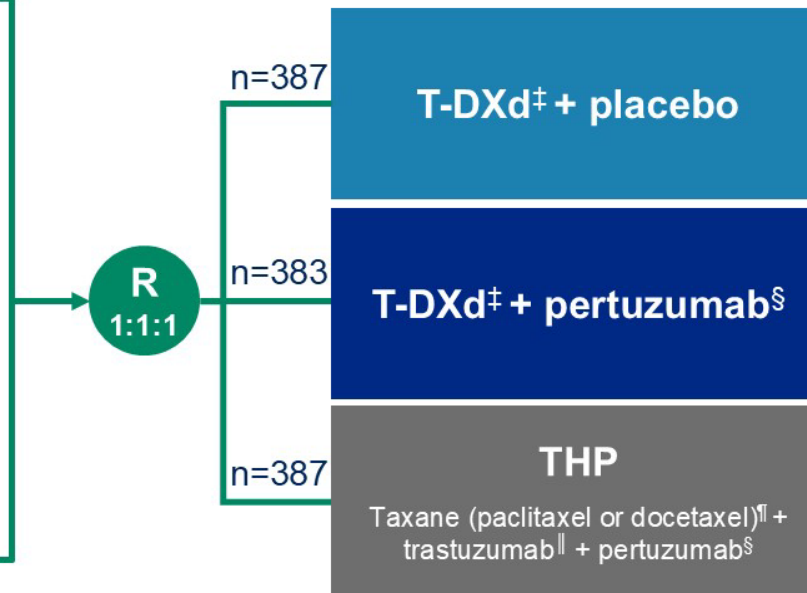
A randomized, multicenter, open-label,* Phase 3 study (NCT04784715)

Eligibility criteria

- HER2+ a/mBC
- Asymptomatic/inactive brain mets allowed
- DFI >6 mo from last chemotherapy or HER2-targeted therapy in neoadjuvant/ adjuvant setting
- One prior line of ET for mBC permitted
- **No other prior systemic treatment for mBC[†]**

Stratification factors

- De-novo vs recurrent mBC
- HR+ or HR-
- *PIK3CA*m (detected vs non-detected)



Endpoints

Primary

- PFS (BICR)

Key secondary

- OS

Secondary

- PFS (INV)
- ORR (BICR/INV)
- DOR (BICR/INV)
- PFS2 (INV)
- Safety and tolerability

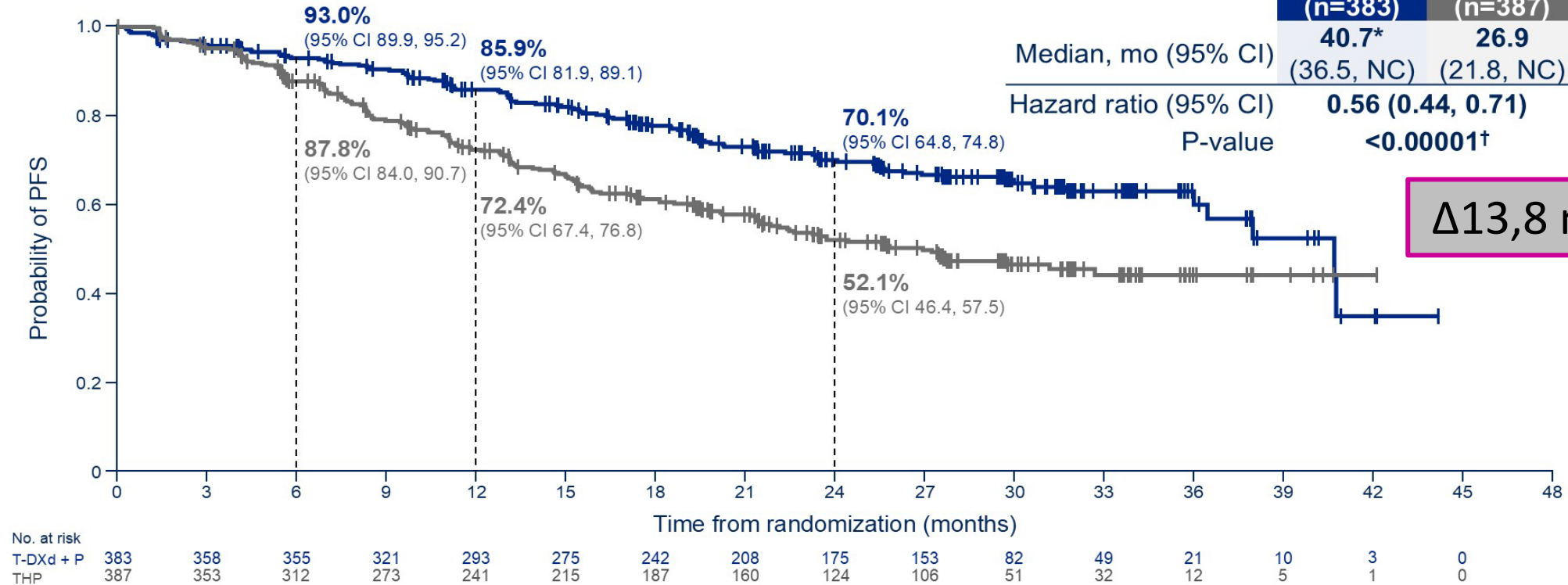
- If T-DXd was discontinued due to AEs (except Grade >2 ILD), patients could switch to trastuzumab**
- Concurrent use of ET (AI or tamoxifen) was allowed for those with HR+ disease after six cycles of T-DXd or discontinuation of taxane in THP arm

- 51% de novo MBC, 54% HR+, 82% IHC +3
- Chore z nawrotem: 80-85% NAC: ~58% TZB; ~ 15% PTZ, 2% T-DM1
- Jednoczesna HT w HR +: 13,5% w ramieniu z T-DxD, 38,3% w ramieniu z THP

DESTINY-Breast09



PFS (BICR): primary endpoint

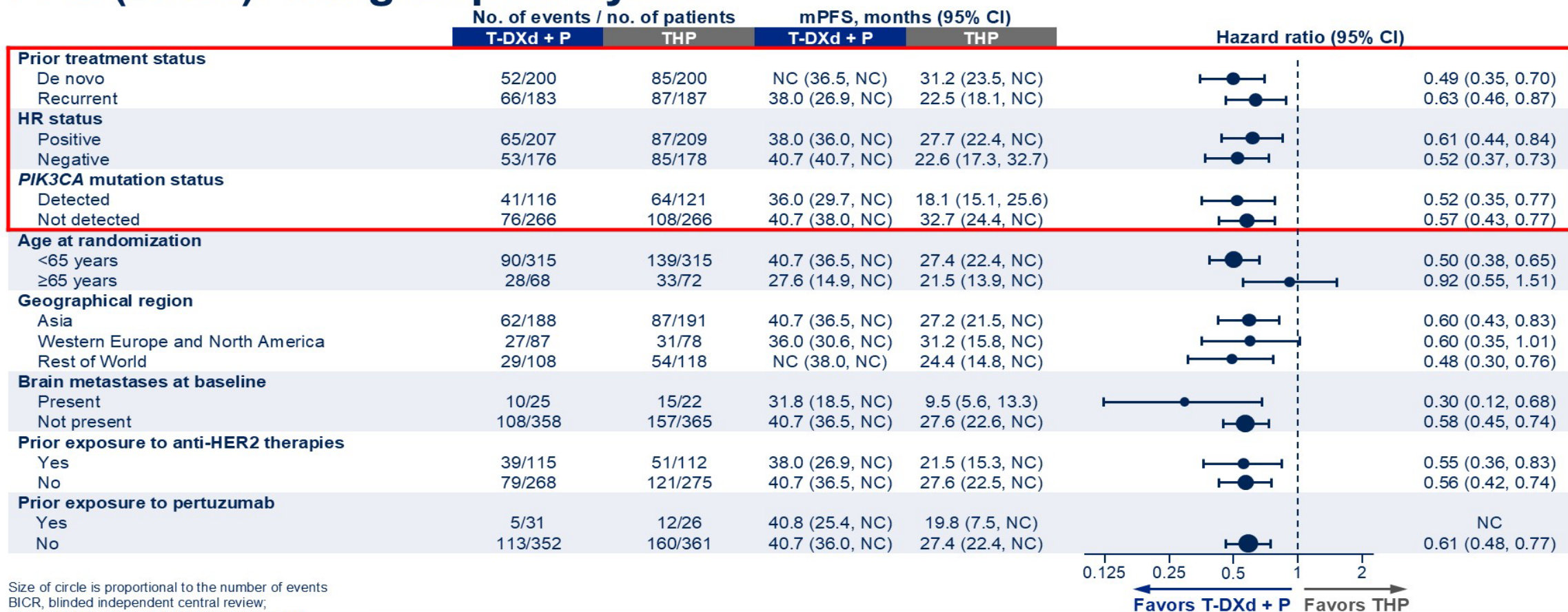


Statistically significant and clinically meaningful PFS benefit with T-DXd + P (median Δ 13.8 mo)

- Prawdopodobne dalsze wydłużenie mPFS w ramieniu z T-DXd + P (40% chorych nadal otrzymuje TDXd)
- **Relatywnie niewiele chorych otrzymało w leczeniu okołoperacyjnym anty-HER2**

DESTINY-Breast09

PFS (BICR): subgroup analyses



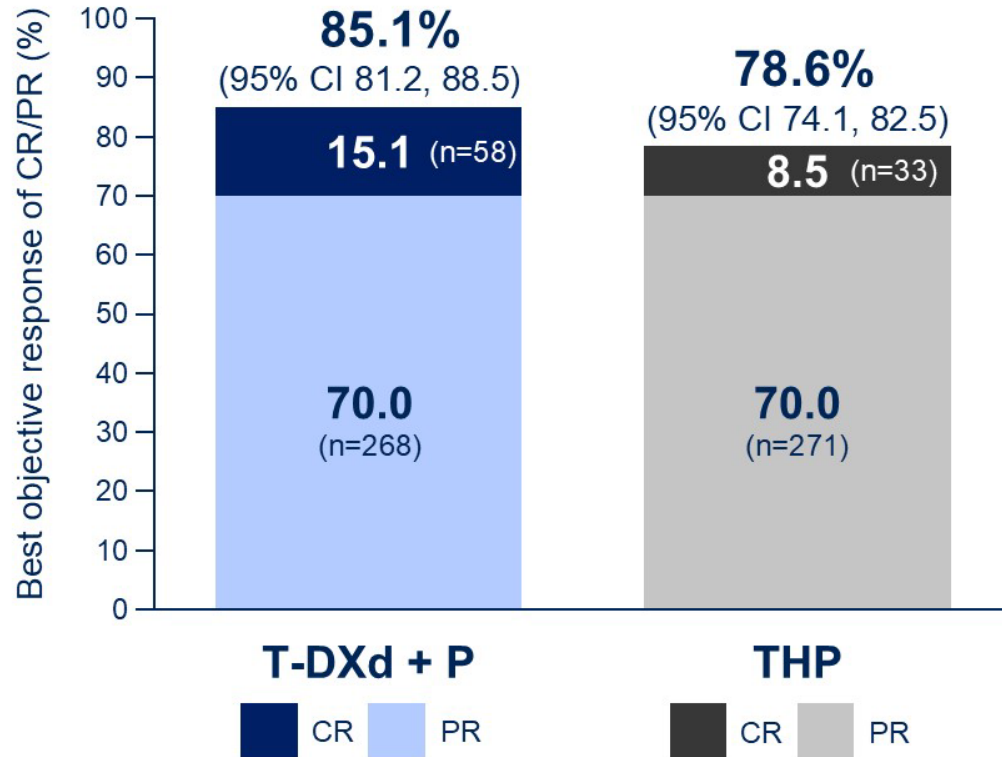
Size of circle is proportional to the number of events
 BICR, blinded independent central review;
 CI, confidence interval; HER2, human epidermal growth factor receptor 2; HR, hormone receptor; NC, not calculable; P, pertuzumab;
 (m)PFS, (median) progression-free survival;
 T-DXd, trastuzumab deruxtecan;
 THP, taxane + trastuzumab + pertuzumab

PFS benefit with T-DXd + P vs THP was consistently observed across prespecified subgroups, including stratification factors

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ORR and DOR (BICR)

Confirmed ORR*



Δ 6,5 %

Δ 12,8 m

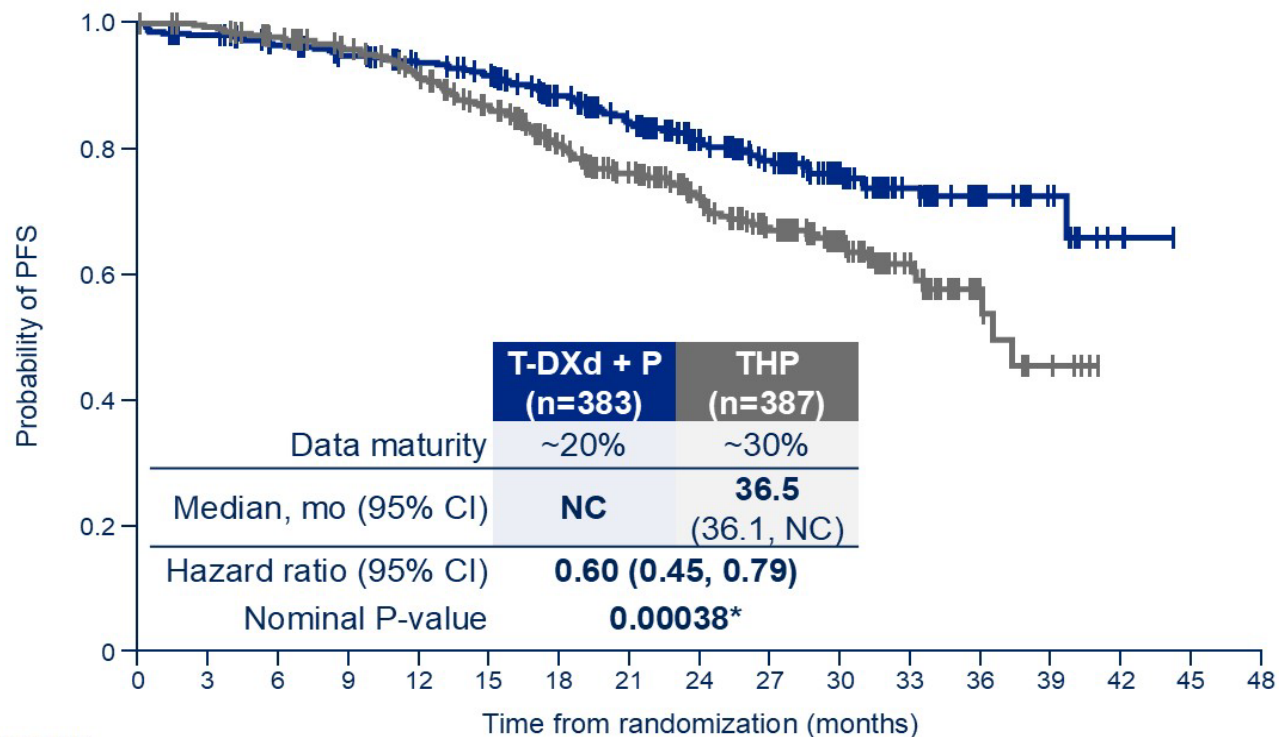
	T-DXd + P (n=383)	THP (n=387)
Median DOR, mo (95% CI)	39.2 (35.1, NC)	26.4 (22.3, NC)
Remaining in response at 24 mo (%)	73.3	54.9
Stable disease, n (%)	38 (9.9)	56 (14.5)

Response rates were greater with T-DXd + P vs THP and were durable

DESTINY-Breast09



PFS2 (investigator assessment) and post-trial treatments



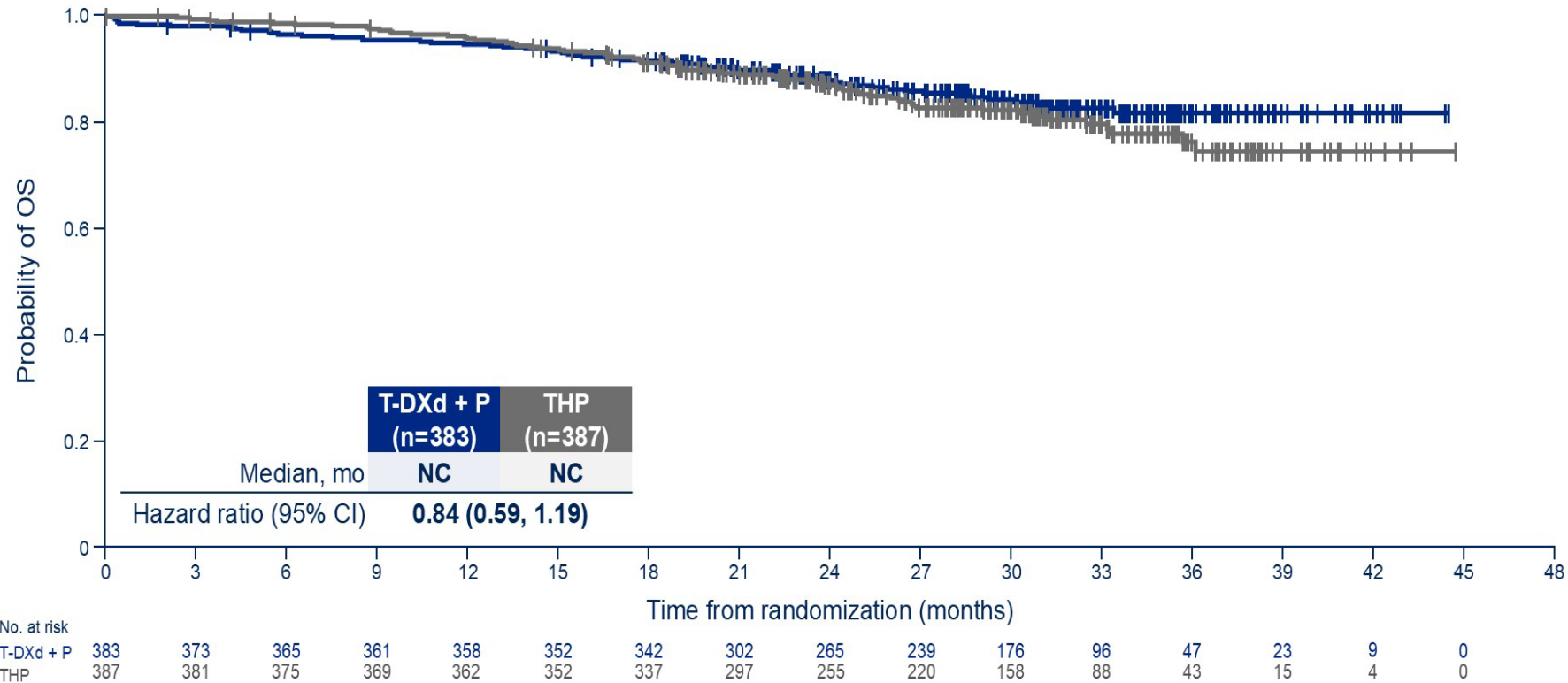
	T-DXd + P (n=383)	THP (n=387)
Received post-discontinuation therapy in second line, n (%) [†]	124 (32.4)	181 (46.8)
Targeted therapy, n (%) [†]	111 (29.0)	166 (42.9)
T-DXd	6 (1.6)	39 (10.1)
T-DM1	7 (1.8)	47 (12.1)
Trastuzumab-containing regimen [‡]	78 (20.4)	51 (13.2)
Pertuzumab-containing regimen [‡]	53 (13.8)	34 (8.8)
Chemotherapy, n (%) [†]	68 (17.8)	57 (14.7)
Docetaxel	24 (6.3)	8 (2.1)
Paclitaxel	18 (4.7)	4 (1.0)
Capecitabine	24 (6.3)	35 (9.0)
Endocrine therapy, n (%) [†]	19 (5.0)	13 (3.4)

No. at risk	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48
T-DXd + P	383	370	356	343	331	320	290	254	209	180	101	59	28	12	3	0	
THP	387	373	358	341	319	292	252	212	174	143	80	48	15	5	0	0	

- Jak dotąd, tylko 10,1% chorych z ramienia THP otrzymało T-DXd w 2. linii
- Wśród chorych z PD z ramienia THP 30% i 40% z ramienia T-DXd + P nie otrzymało leczenia po PD
- Krótki okres obserwacji, ale te dane odpowiadają sytuacji gdy T-DXd chorzy otrzymują w 1. linii lub NIGDY

DESTINY-Breast09

Overall survival (~16% maturity)



Early OS data suggest a positive trend favoring T-DXd + P over THP

DESTINY-Breast09



Overall safety summary

	Safety analysis set*	
	T-DXd + P (n=381)	THP (n=382)
Total exposure, patient years	659.7	564.0
Any TEAE, n (%)	380 (99.7)	378 (99.0)
Possibly treatment-related TEAEs (investigator assessed), n (%) Grade ≥3	373 (97.9) 209 (54.9)	369 (96.6) 200 (52.4)
Serious TEAEs, n (%)	103 (27.0)	96 (25.1)
TEAEs associated with any treatment discontinuation, [†] n (%)	79 (20.7)	108 (28.3)
TEAEs associated with any dose interruptions, [†] n (%)	262 (68.8)	187 (49.0)
TEAEs associated with any dose reductions, [†] n (%)	175 (45.9)	76 (19.9)
TEAEs with outcome of death, n (%) Possibly treatment related (investigator assessed) [‡]	13 (3.4) 5 (1.3)	3 (0.8) 1 (0.3)

Median total treatment duration:

- T-DXd + P: 21.7 mo (range 0.3–44.5)
 - T-DXd: 20.0 mo[§]
- THP: 16.9 mo (range 0.7–41.7)

Median treatment duration for taxanes:

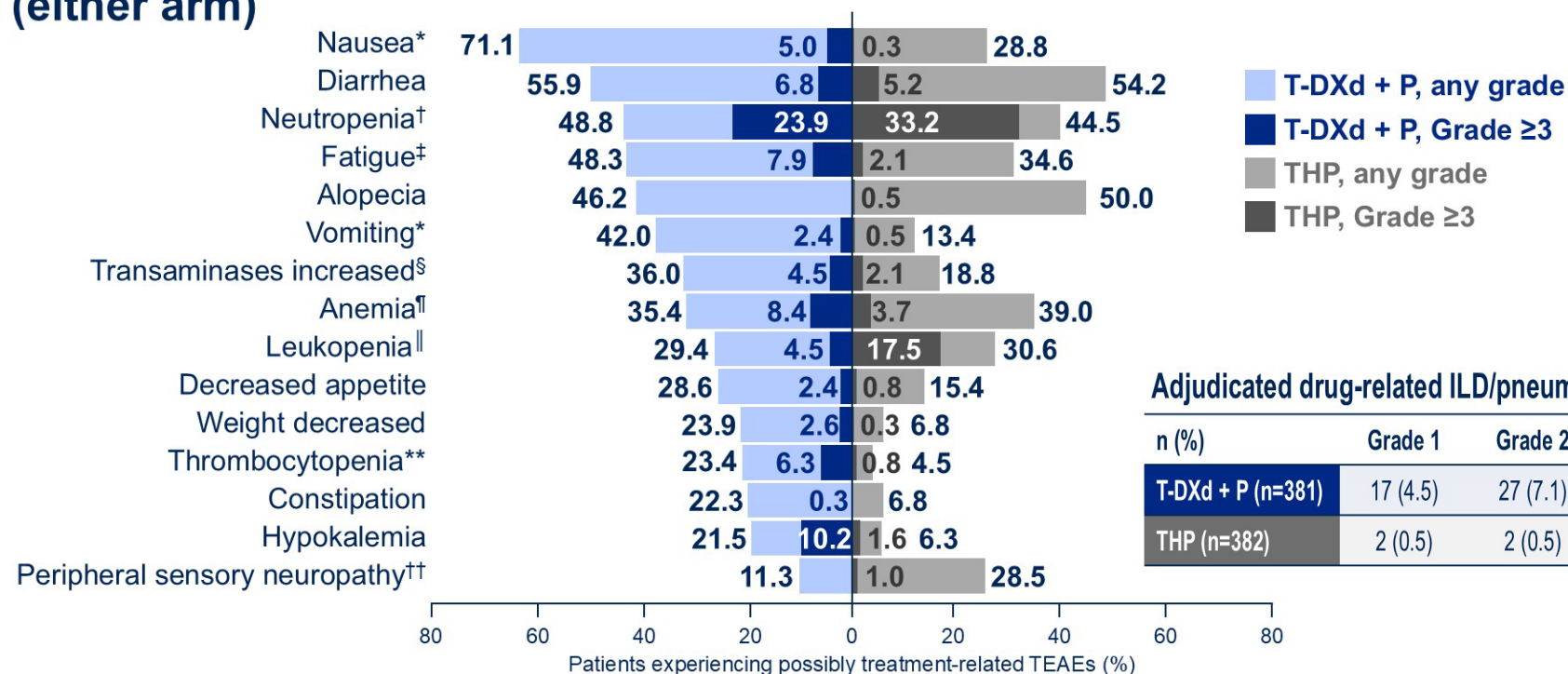
- Docetaxel: 5.5 mo (range 0.7–37.4)
- Paclitaxel: 4.4 mo (range 0.2–30.7)

Median number of cycles for taxanes:

- Docetaxel: 8 (range 1–51)
- Paclitaxel: 6 (range 1–42)

DESTINY-Breast09

Possibly treatment-related (investigator assessed) TEAEs in ≥20% of patients (either arm)



Adjudicated drug-related ILD/pneumonitis*

n (%)	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Any grade
T-DXd + P (n=381)	17 (4.5)	27 (7.1)	0	0	2 (0.5)	46 (12.1)
THP (n=382)	2 (0.5)	2 (0.5)	0	0	0	4 (1.0)

- Bez nieoczekiwanych powikłań T-DXd +P: 12,1% ILD w tym 2 zgony, dysfunkcja LV 11 % vs 7,1 w THP
- TEAE, podobna częstość w obu ramionach, więcej redukcji dawek i przerw w leczeniu z T-DXd (60% vs 49%, 46% vs 20%)
- **W CLEOPATRA w fazie podtrzymania niemal bez AE, doskonała QoL. POCZEKAJMY NA OCENĘ QoL w DB-09**

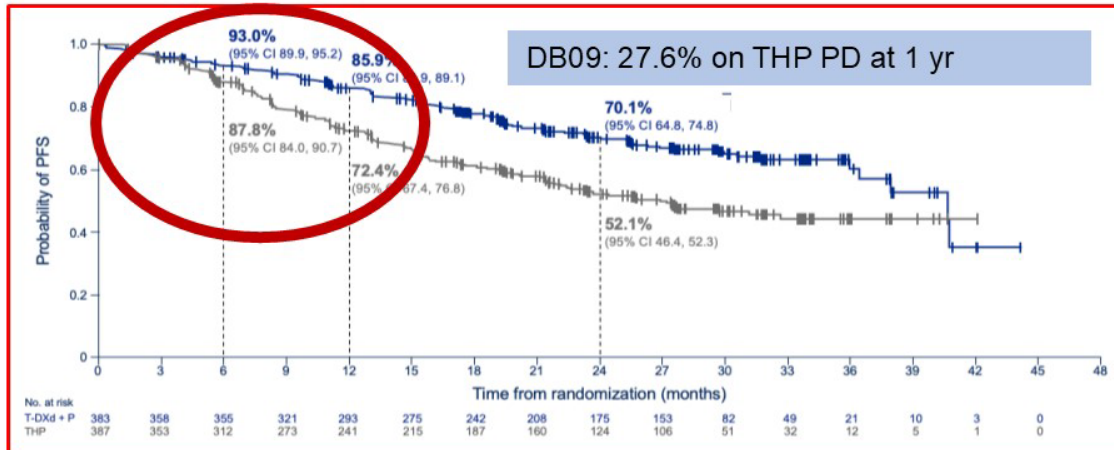
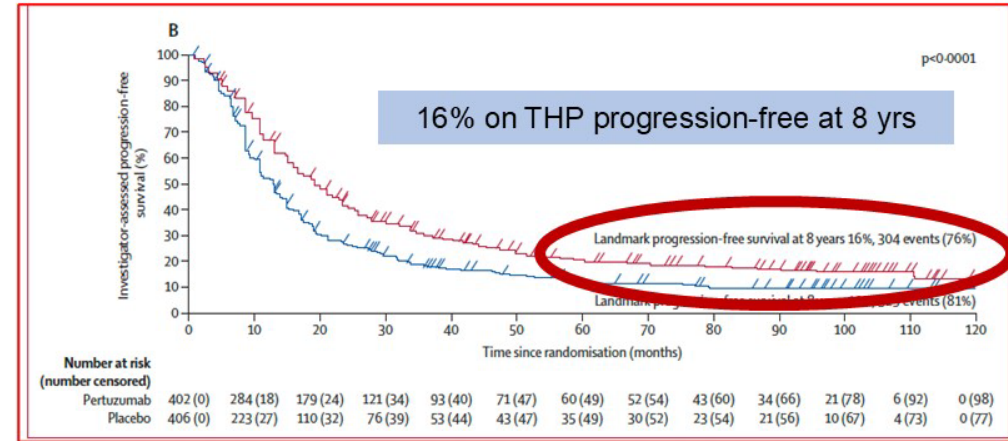
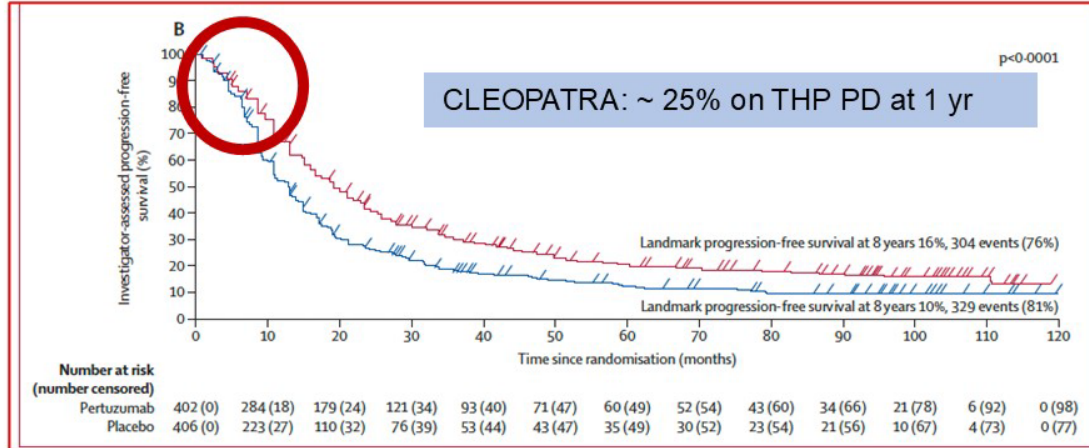
Jak te dane wpłyną na algorytm leczenia ?



Kluczowe problemy

- Sekwencja
- Czas trwania leczenia : indukcja i faza podtrzymania ?

CLEOPATRA: ramię kontrolne DB-06



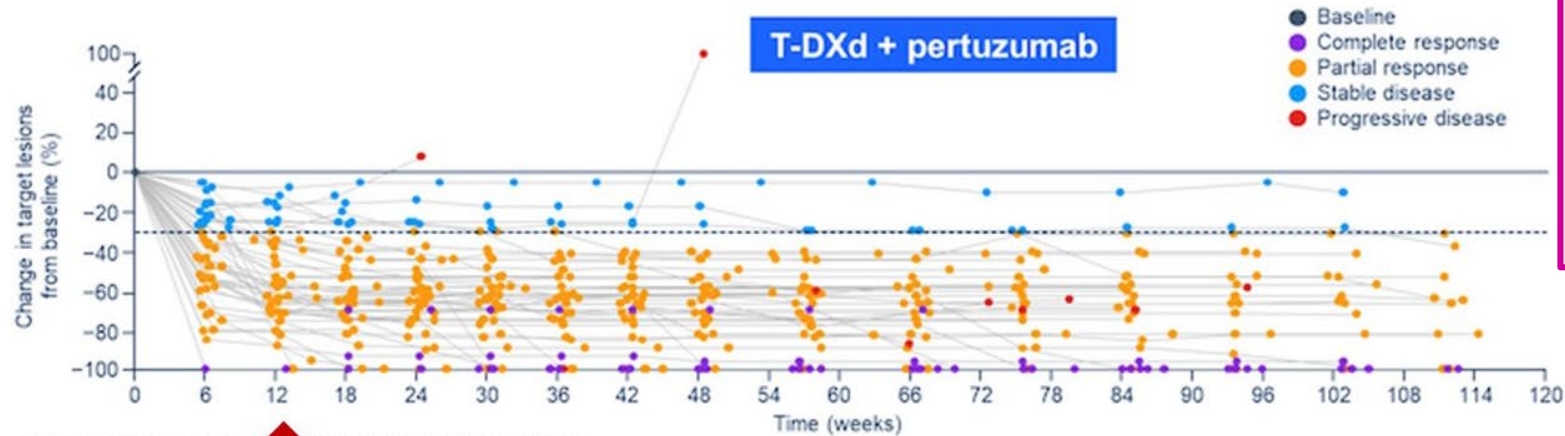
- Kto odnosi długoterminowe korzyści z THP ?
- Czy możemy poczekać, aby tym chorym zaproponować T-DXd w 2. linii

- Długotrwałe odpowiedzi (> 3 lat) częstsze:
 - De novo mBC
 - Dłuższe DFI
 - Bez przerzutów do narządów miękkich
 - IHC+/wys *HER2* mRNA, niskie *HER2* w surowicy
 - *PIK3CA*wt

- U kogo dojdzie do wczesnej progresji na THP ?
- Czy te chore odniosą korzyści z eskalacji leczenia (T-DXd 1 linia)

Czas trwania leczenia leczenia TDXd A może indukcja TDXd i faza podtrzymująca PH ?

Percentage change in target lesion size from baseline



Dashed reference line at -30% indicates the threshold for partial response.
DCO was December 22, 2023. Median duration of follow up was 23.9 months for T-DXd monotherapy and 25.3 months for T-DXd + pertuzumab. DCO, data cutoff; T-DXd, trastuzumab deruxtecan

2024 ASCO
ANNUAL MEETING

#ASCO24

PRESENTED BY: Fabrice André, MD, PhD

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KNOWLEDGE CONQUERS CANCER

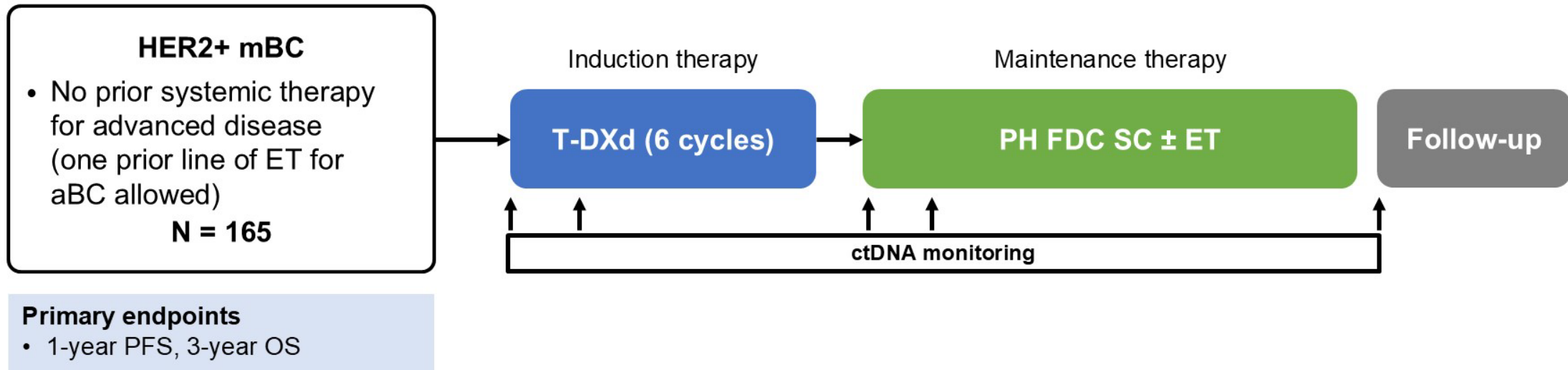
- Większość odpowiedzi obserwowano po 12 tygodniach i były one trwałe

DB-07: Phase 1b/2 of TDXd +/- P 1L mBC

Czas trwania leczenia leczenia TDXd

A może indukcja TDXd i faza podtrzymująca PH ?

DEMETHER: Phase II study of 1L T-DXd induction followed by maintenance PH FDC SC¹



- Ograniczeniem jednoramienny projekt badania, brak grupy kontrolnej
- W DB-09 8,7% chorych z ramienia T-DXd +P zmieniło leczenie na HP z powodu AE



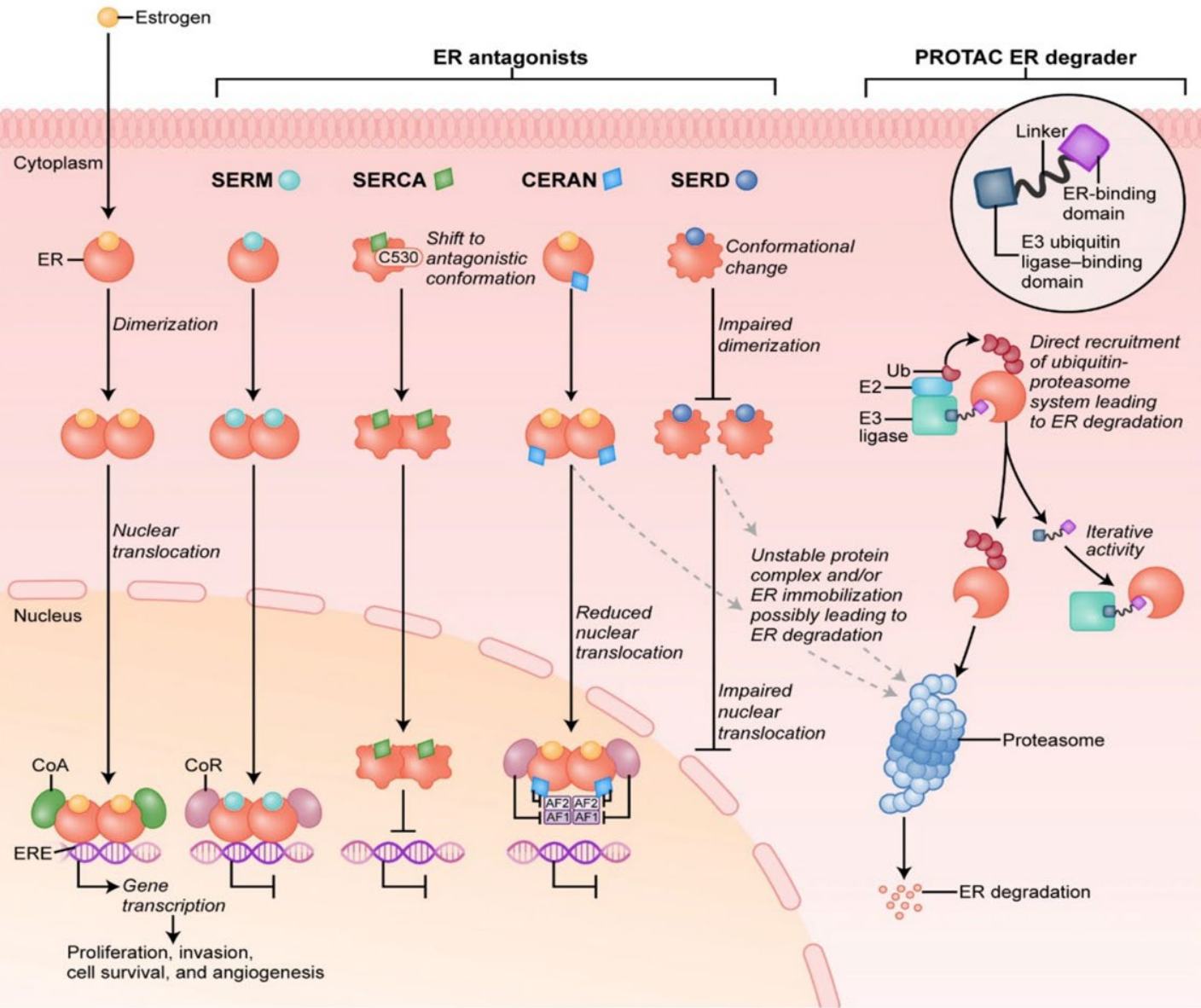
NIE ULEGA WĄTPLIWOŚCI

- T-DXd +P ma znaczną skuteczność w 1. linii

WĄTPLIWOŚCI

- Optymalna sekwencja pozostaje niejasna
 - Potencjalne czynniki doboru leczenia
 - **Kliniczne:** rozsiew do OUN/trzewny, krótki DFI
 - **Biologiczne:** wskaźniki wczesnej PD (PIK3CAmut), HER2DXlow/med. Wskaźnik ERBB2 , markery dynamiczne (brak wczesnego spadku ctDNA)
 - **Wola chorych**
- Może porównywalne korzyści można osiągnąć z indukcji T-DXd +P do optymalnej odpowiedzi z następującą fazą podtrzymującą HP?(BRAK DANYCH)
 - A może faza podtrzymująca z HT w ER+ (PATINA)

HT w raku piersi, coraz rzadziej samodzielna...



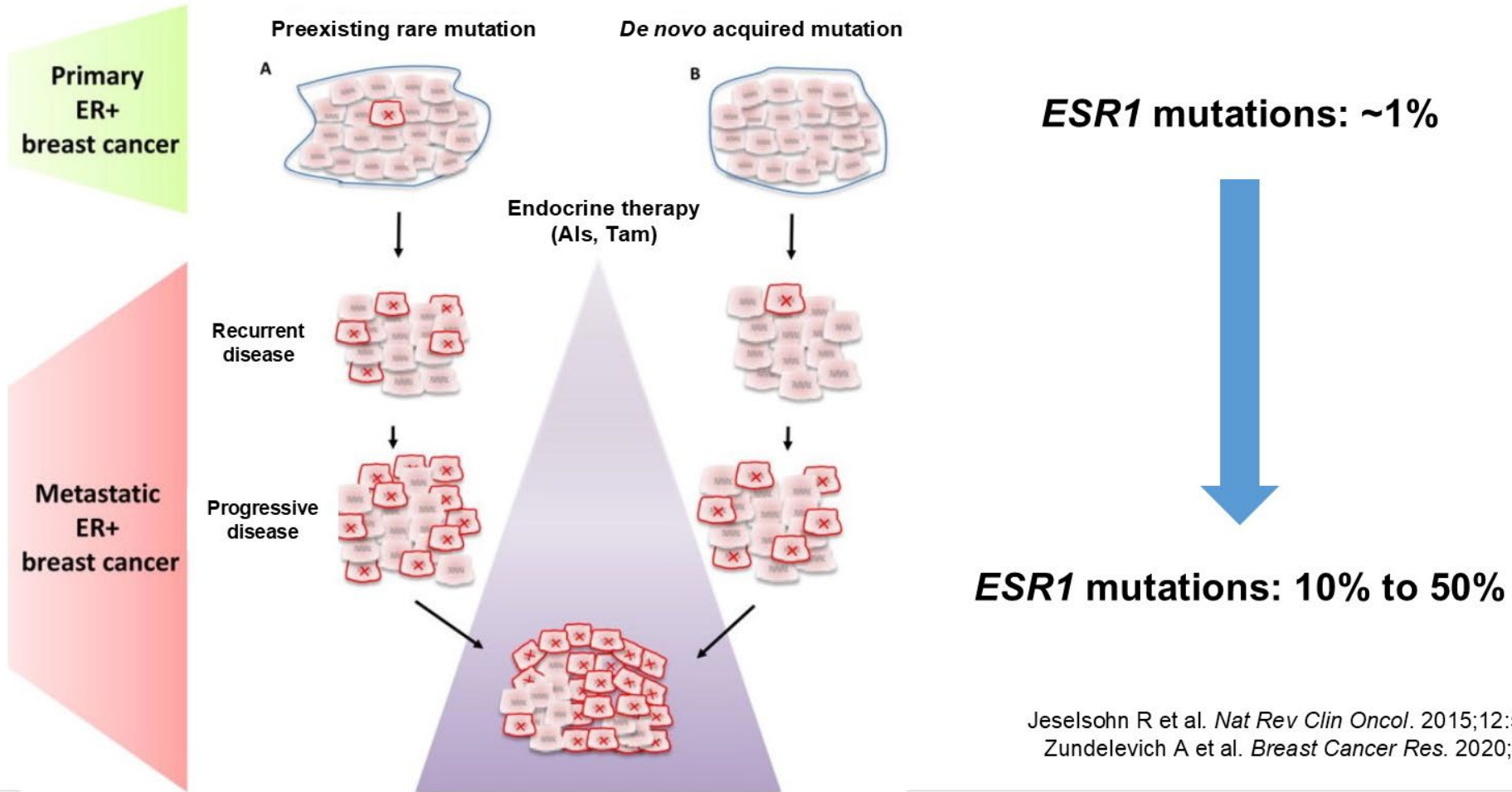
	SERM Activity	
	SERD Activity	
Fulvestrant	Bazedoxifene	Raloxifene
Elacestrant		Lasofloxifene
Giredestrant		Tamoxifen
Amcenenestrant		Toremifene
Camizestrant		
Imlunestrant		
Rintodestrant		
D-0502		
Zb-716		
ZN-c5		
SHR9549		
LSZ102		
GDC0810		
GDC0927		
AZD9496		
Vepdegestrant-PROTAC		
Palazestrant -CERAN		
H3B-6545 (SERCA)		

Oral SERDs

Green: approved for distinct indications
 Blue: currently in clinical development
 Orange: clinical development discontinued

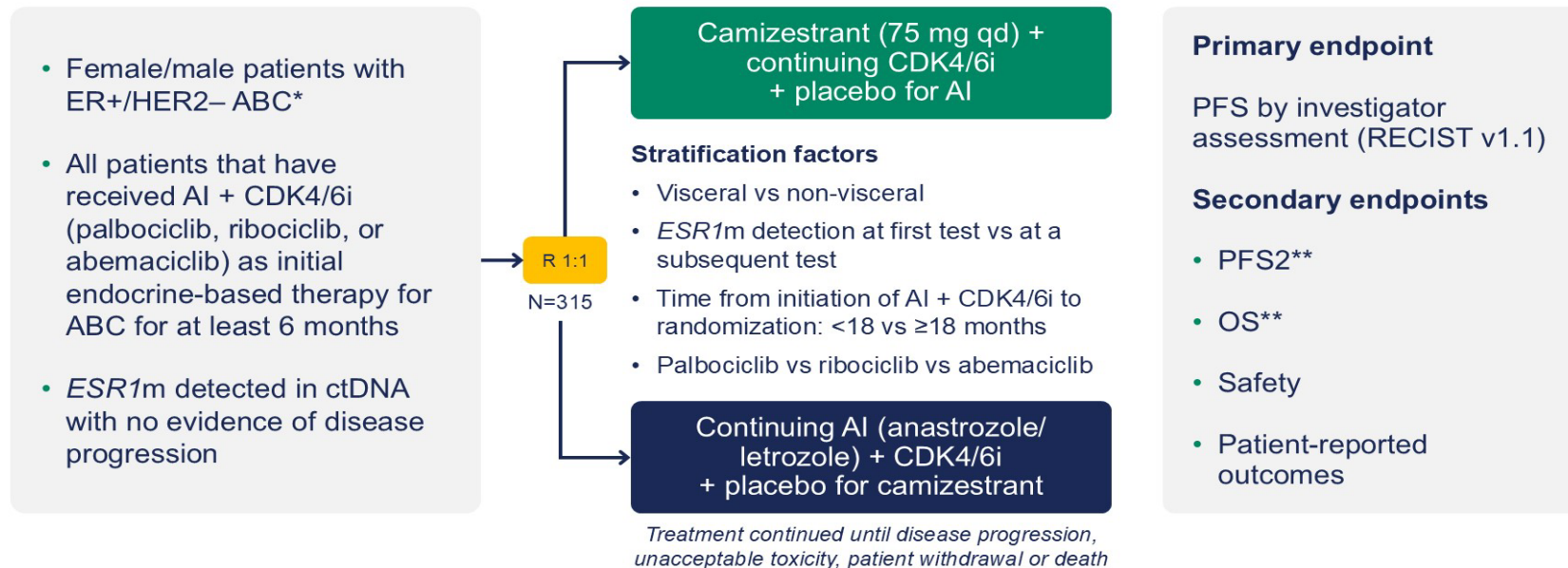
Acquired *ESR1* Mutations

Clonal Selection Scenarios



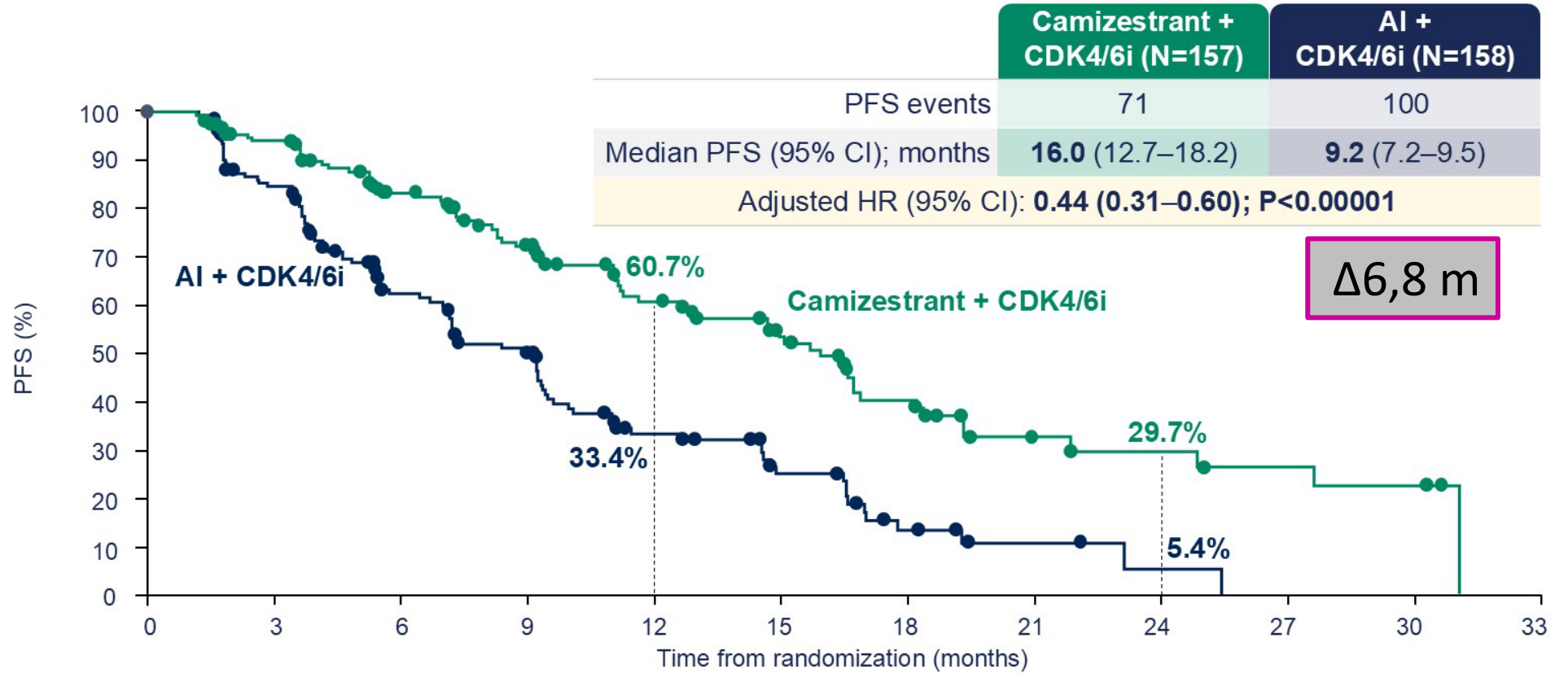
SERENA-6 study design

Phase III, randomized, double-blind, placebo-controlled study (NCT04964934)



Characteristic		Camizestrant + CDK4/6i (N=157)	AI + CDK4/6i (N=158)
Visceral metastases — n (%) [†]		66 (42)	71 (45)
Time of ESR1m detection — n (%) [†]	At first test	84 (54)	84 (53)
	At a subsequent test	73 (47)	74 (47)
	Median (range) – months	22 (4–95)	22 (6–96)
Time from initiation of AI + CDK4/6i to randomization — n (%) [†]	≥18 months	97 (62)	100 (63)
	<18 months	60 (38)	58 (37)
	Median (range) – months	23 (7–96)	23 (6–96)
CDK4/6i continued at randomization — n (%) [†]	Palbociclib	119 (76)	119 (75)
	Ribociclib	24 (15)	23 (15)
	Abemaciclib	14 (9)	16 (10)

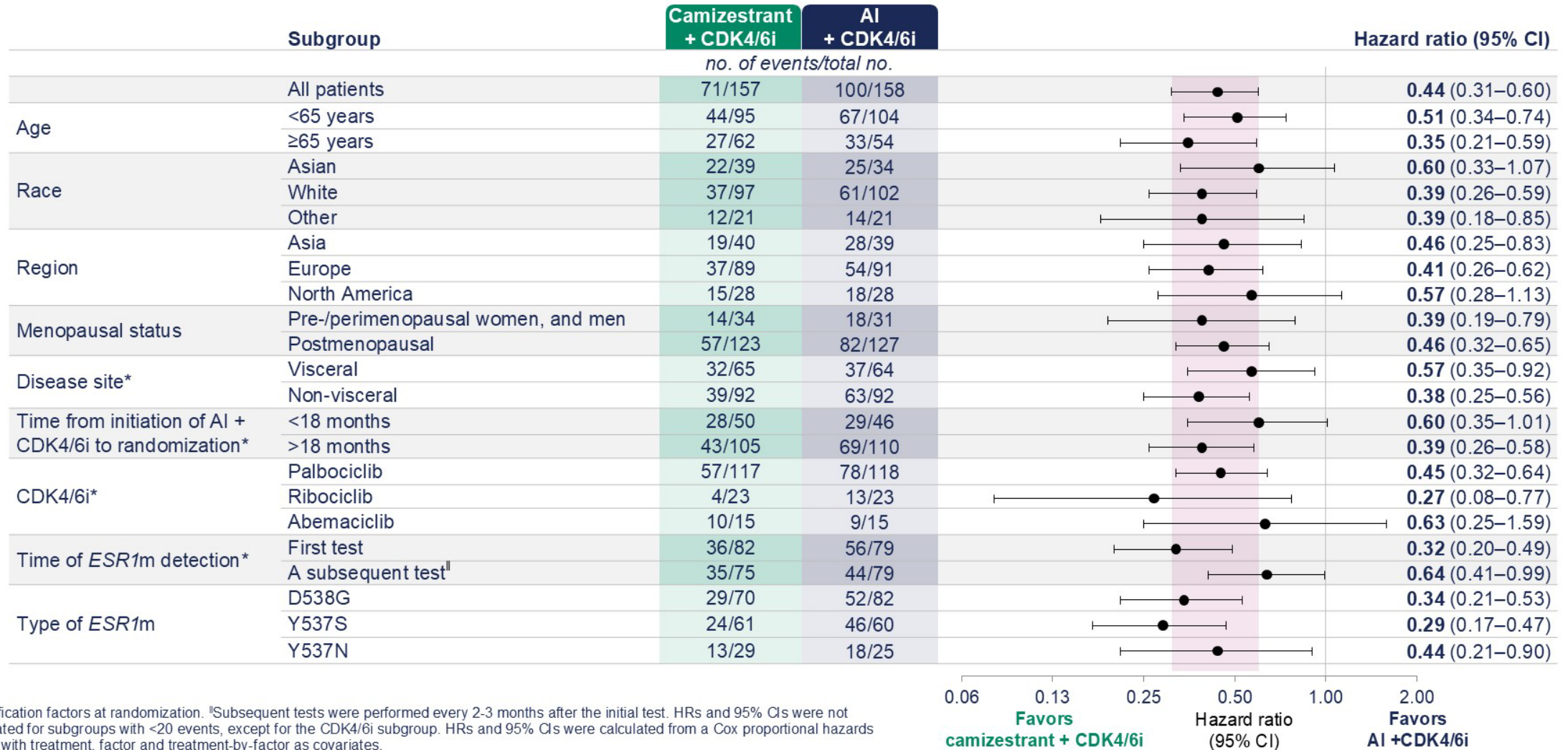
SERENA-6: PFS



Number of patients at risk

	0	3	6	9	12	15	18	21	24	27	30	33
Camizestrant + CDK4/6i	157	138	105	82	55	41	26	11	9	7	6	0
AI + CDK4/6i	158	124	73	55	29	17	7	3	1	0	0	0

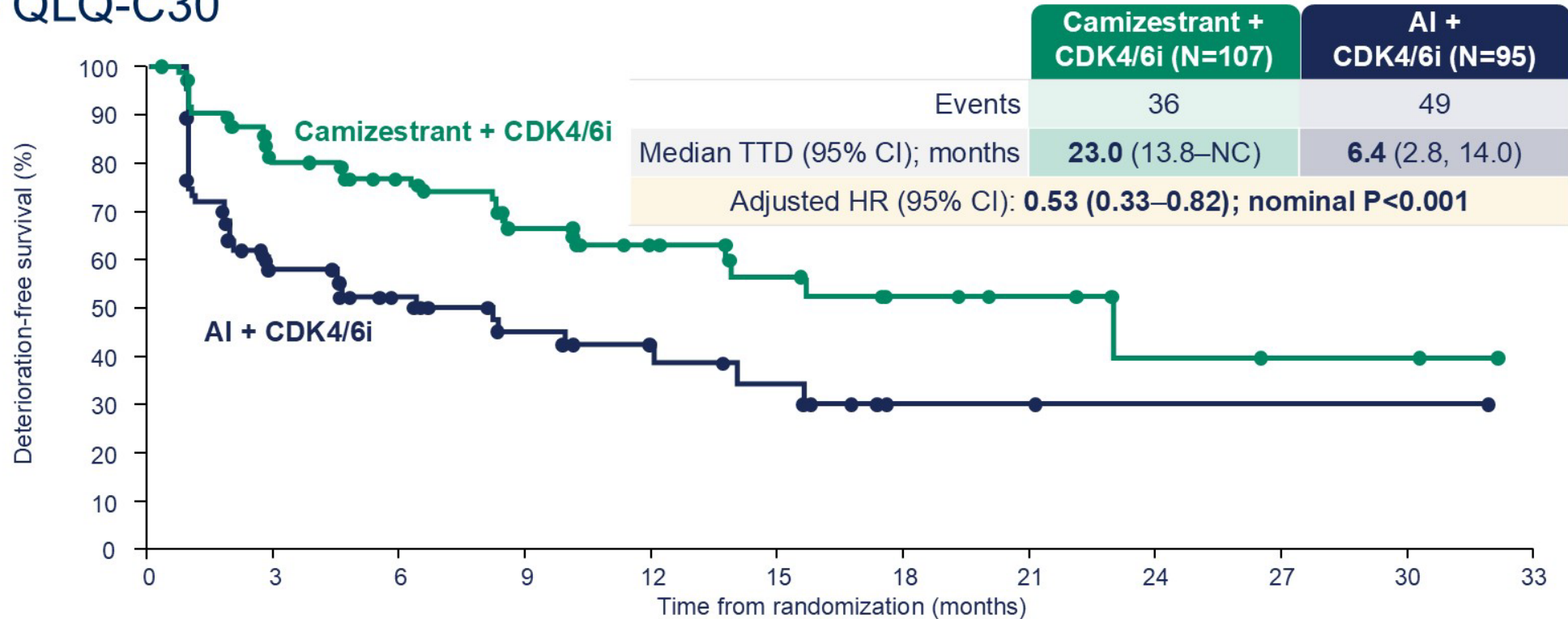
SERENA-6: PFS analiza podgrup



SERENA-6: QoL



Time to deterioration in global health status/quality of life EORTC QLQ-C30



Number of patients at risk

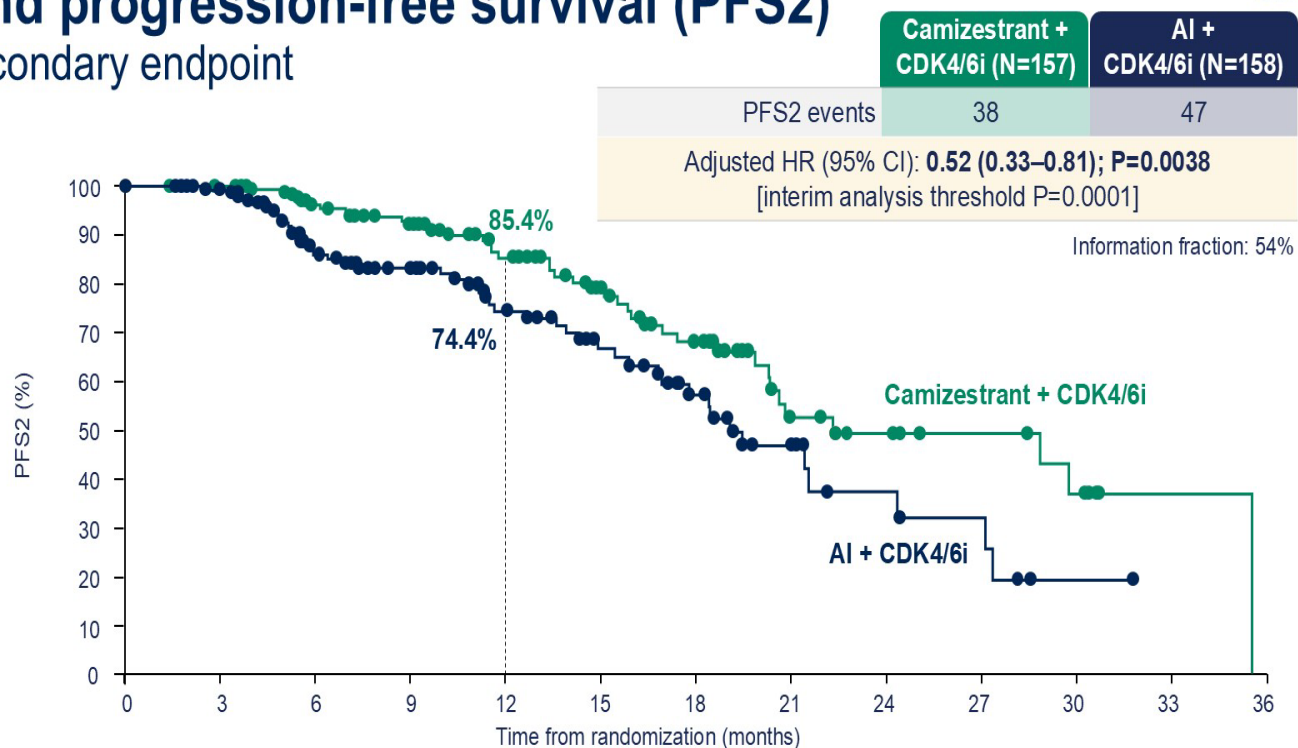
	0	3	6	9	12	15	18	21	24	27	30	33
Camizestrant + CDK4/6i	107	72	59	40	24	16	9	6	3	2	2	0
AI + CDK4/6i	95	42	26	16	11	8	2	2	1	1	1	0

- Camizestrant + CDK4/6i also delayed the time to deterioration in pain compared with AI + CDK4/6i

SERENA-6: PFS2

Second progression-free survival (PFS2)

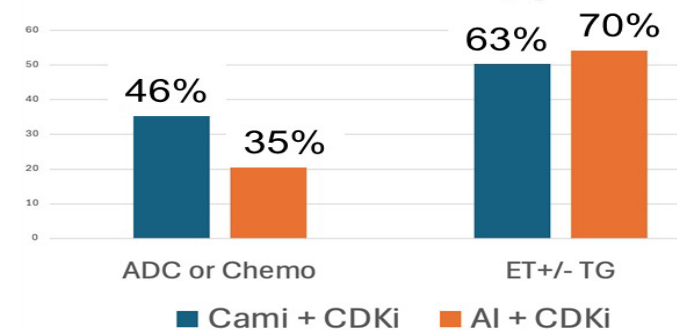
Key secondary endpoint



Number of patients at risk

	0	3	6	9	12	15	18	21	24	27	30	33	36
Camizestrant + CDK4/6i	157	146	120	103	74	55	39	17	12	9	6	1	0
AI + CDK4/6i	158	144	98	78	55	38	25	12	7	5	1	0	0

Proportion getting chemo vs endocrine therapy

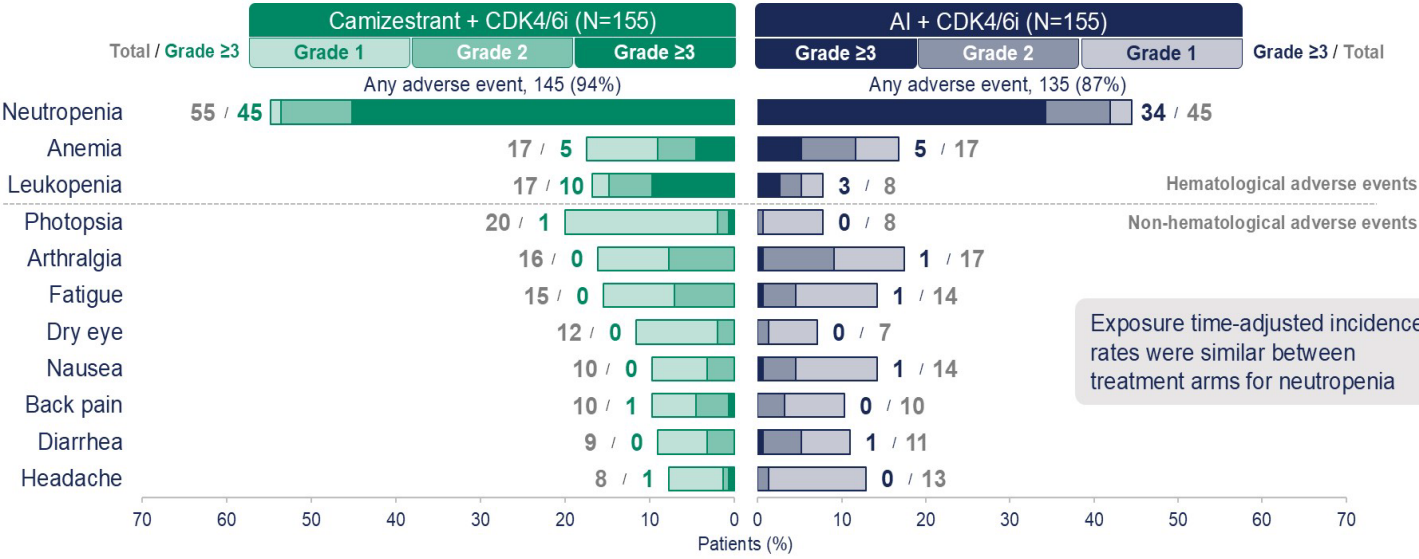


Subsequent therapy — n (%)	Camizestrant + CDK4/6i (N=157)	AI + CDK4/6i (N=158)
Any	57 (36.3)	83 (52.5)
Chemotherapy	26 (45.6)	19 (22.9)
Antibody–drug conjugate	0	10 (12.0)
Endocrine therapy + targeted therapy	21 (36.8)	35 (42.2)
Endocrine monotherapy	14 (24.6)	23 (27.7)
Other*	4 (7.0)	3 (3.6)

SERENA-6: powikłania



Adverse events (≥10% of patients)



Exposure time-adjusted incidence rates were similar between treatment arms for neutropenia

Photopsia (brief flashes of light in the peripheral vision) did not impact daily activities: If experienced, visual effects had no/minimal impact on daily activities, were typically ≤1 minute, ≤3 days/week, and reversible. There were no structural changes in the eye and no changes in visual acuity

	Camizestrant + CDK4/6i (N=155)	AI + CDK4/6i (N=155)
Any adverse event — n (%)	145 (94)	135 (87)
Grade ≥3	93 (60)	71 (46)
Any serious adverse event — n (%)	16 (10)	19 (12)
Any adverse event leading to discontinuation — n (%)		
Camizestrant/AI	2 (1)	3 (2)
Both camizestrant/AI and CDK4/6i	1 (1)	2 (1)
CDK4/6i	2 (1)	2 (1)



NIE ULEGA WĄTPLIWOŚCI

- Zmiana HT na camizestrant, z kontynuacją iCDK4/6 przed anatomiczną PD, na podstawie stwierdzenia ESR1m w ctDNA wydłuża PFS
- Akceptowalna toksyczność
- Wpływ na QoL
- Dłuższy czas do CT
- Wydłużenie czasu do rozwoju bardziej agresywnej postaci choroby

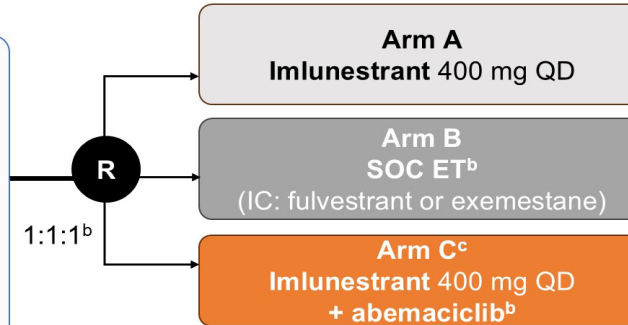
WĄTPLIWOŚCI

- Przedwczesna ocena PFS2 i OS
- Czy aby to dysponujemy wystarczającymi dowodami naukowymi, potwierdzającymi kliniczną użyteczność testowania ctDNA ?

EMBER-3: Imlunestrant ± Abemaciclib vs SOC for ER+, HER2- Advanced Breast Cancer Pretreated With ET

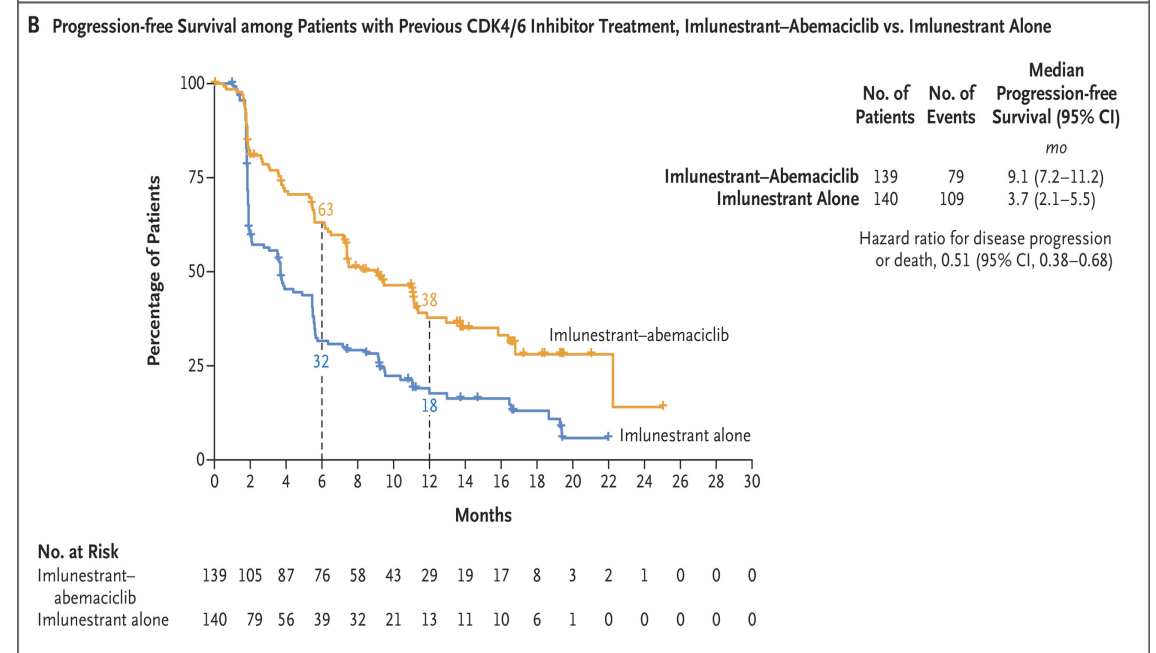
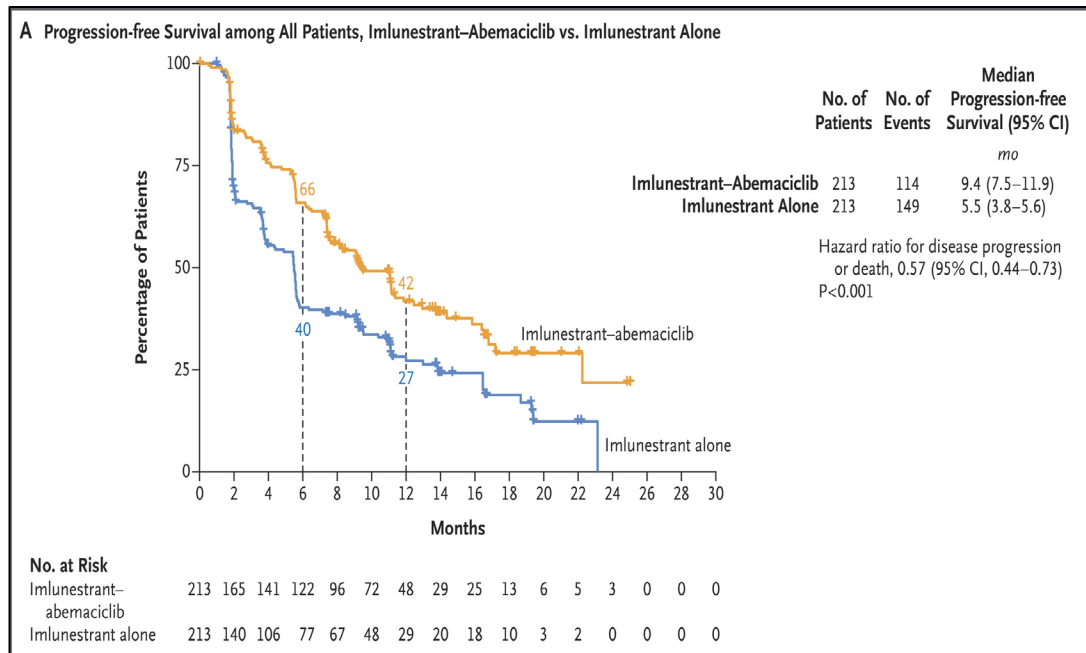
Key Eligibility Criteria

- Men and Pre^a/Postmenopausal women with ER+, HER2- ABC
- Prior adjuvant therapy: recurrence on or within 12 mo of completion of AI ± CDK4/6i
- Prior therapy for ABC: progression on first-line AI ± CDK4/6i
- No other therapy for ABC (N = 874)



- **Primary endpoint: investigator-assessed PFS**
 - Arms A vs B in patients with *ESR1m*^e
 - Arms A vs B in all patients
 - Arms C vs A in all^f patients

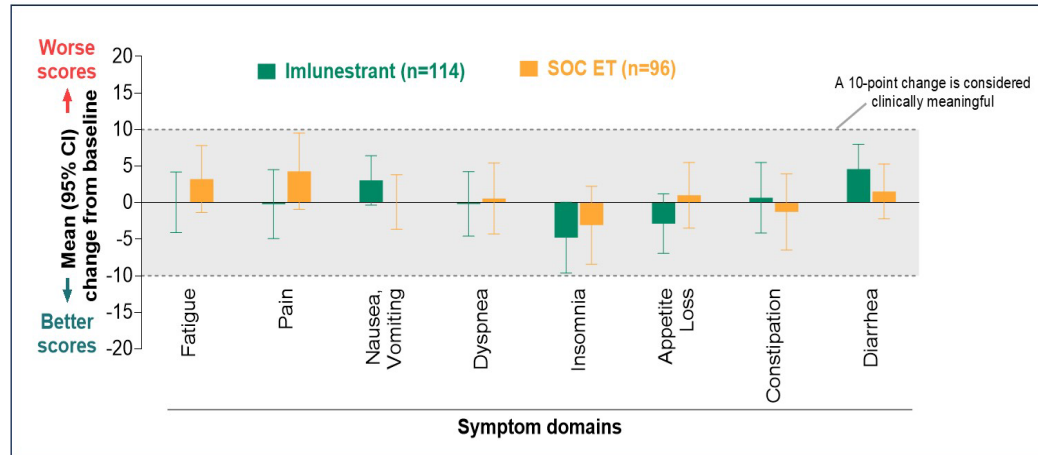
Jhaveri K SABCs 2024: NEJM 2024



EMBER-3:QoL

EMBER-3: Overall Symptom Domains on Treatment with Imlunestrant vs SOC ET in Patients with *ESR1m*

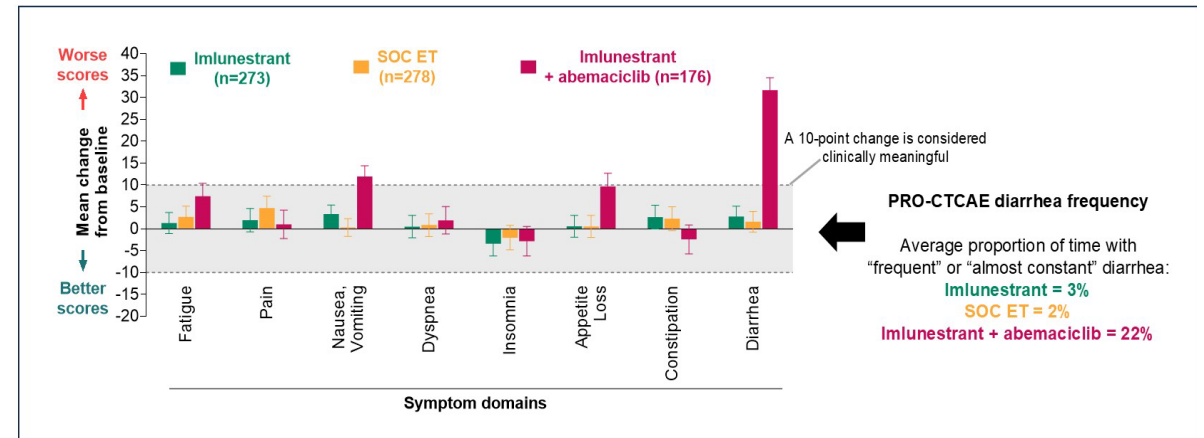
Overall change from baseline in EORTC QLQ-C30 symptom domains
MONOTHERAPY



Symptom domains were broadly similar overall across treatment arms

EMBER-3: Overall Symptom Domains On Treatment with Imlunestrant + Abemaciclib vs Imlunestrant or vs SOC ET in All Patients

Overall change from baseline in EORTC QLQ-C30 symptom domains



Symptom domains were broadly similar overall across treatment arms, except for expected increased diarrhea and nausea/vomiting with imlunestrant + abemaciclib

EMBER-3 Global Health Status QOL- $\Delta 9.9$ (" ≤ 10 clinically meaningful")
for monotherapy imlunestrant arm

Możliwości leczenia HR+, HER2- mBC

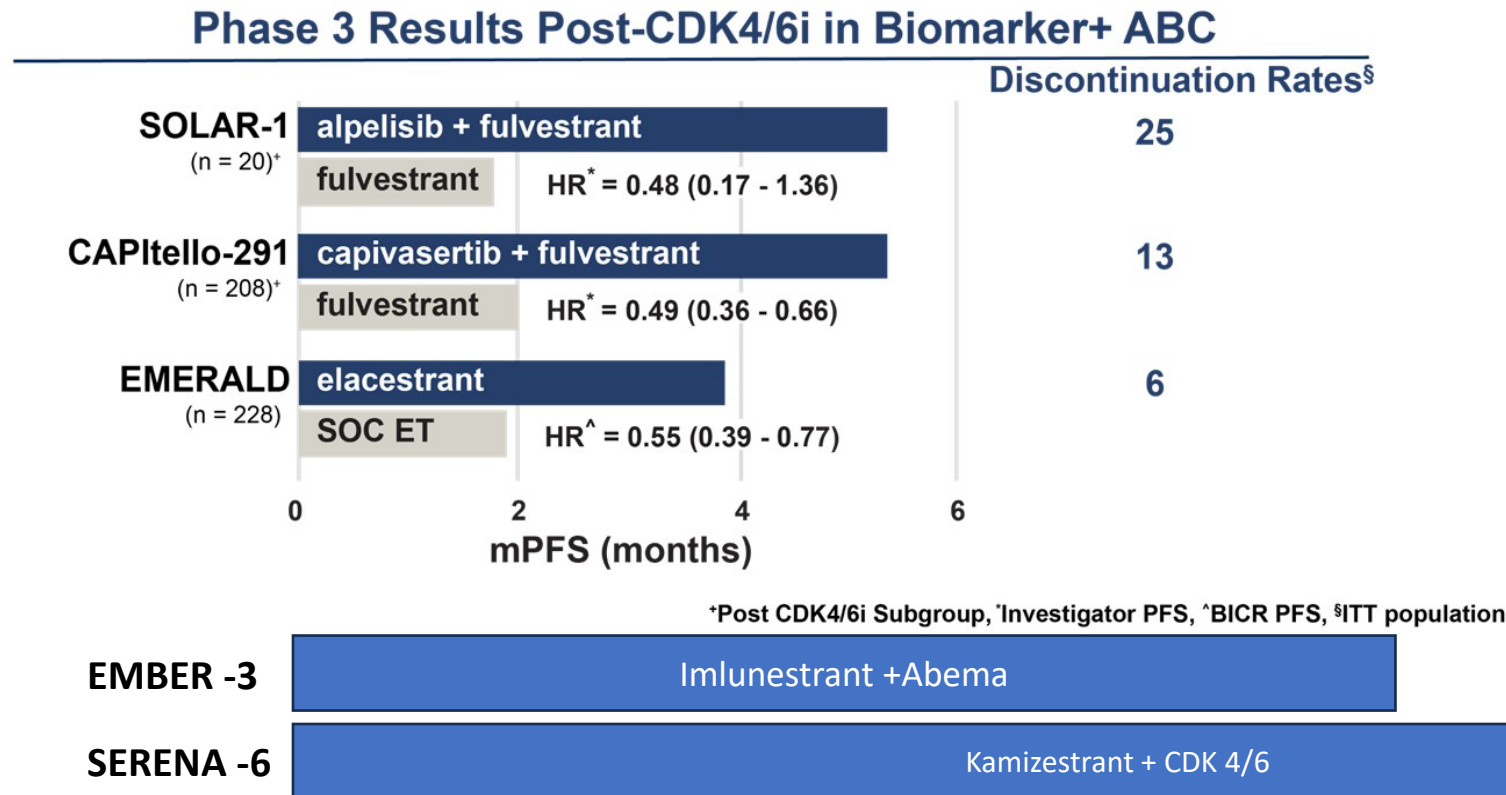
Current treatment landscape and outcomes: mPFS*

1L	ET + CDK4/6i	No prior CDK4/6i	24.8–28.2 mo ^{1–3}
	Inavolisib + FULV + Palbo	PIK3CA mut Wcześniej bez CDK4/6	17.2 m
2L+	ET + targeted therapies	Prior CDK4/6i	5.5 mo ⁴
	ET monotherapy	Prior CDK4/6i	1.9–2.6 mo ^{4,5}
2L+	Imlunestrant + Abema	Wcześniej CDK4/6	9,4 m
	Kamizestrant + CDK 4/6	ESR1 mut	16 m
3L+	Single-agent CT	Mostly CT naïve (mBC)	6.2–7.1 mo ^{6–8}
	T-DXd (HER2-low)	Prior ET and CT	10.1 mo ⁹

1. i 2. linia

Opcje leczenia ukierunkowanego molekularnie po 1L CDK4/6i

- Dobór leczenia na podstawie biomarkera (ALP (*PIK* mut), elacestrant (*ESR1* mut))
- PFS po leczeniu z udziałem tych leków < 6 miesięcy, w wielu przypadkach toksyczność problemem



Rozciągamy okres wrażliwości na HTH...



VERITAC -2 : vepdegestrant vs FULV

Key Eligibility Criteria

- Age ≥18 years old
- ER+/HER2- advanced or metastatic breast cancer
- Prior therapy:
 - 1 line of CDK4/6i + ET
 - ≤1 additional ET
 - Most recent ET for ≥6 months
 - No prior SERD (eg, fulvestrant, elacestrant)
 - No prior chemotherapy for advanced or metastatic disease
- Radiological progression during or after the last line of therapy

Randomization (1:1)

28-day Treatment Cycles

Vepdegestrant (n=313)
200 mg orally (once daily)

Fulvestrant (n=311)
500 mg IM
(days 1 and 15 of cycle 1; day 1 of subsequent cycles)

Stratification Factors:

- *ESR1* mutation^a (yes vs no)
- Visceral disease (yes vs no)

Primary Endpoint:

- PFS by BICR in
 - *ESR1*m population
 - All patients

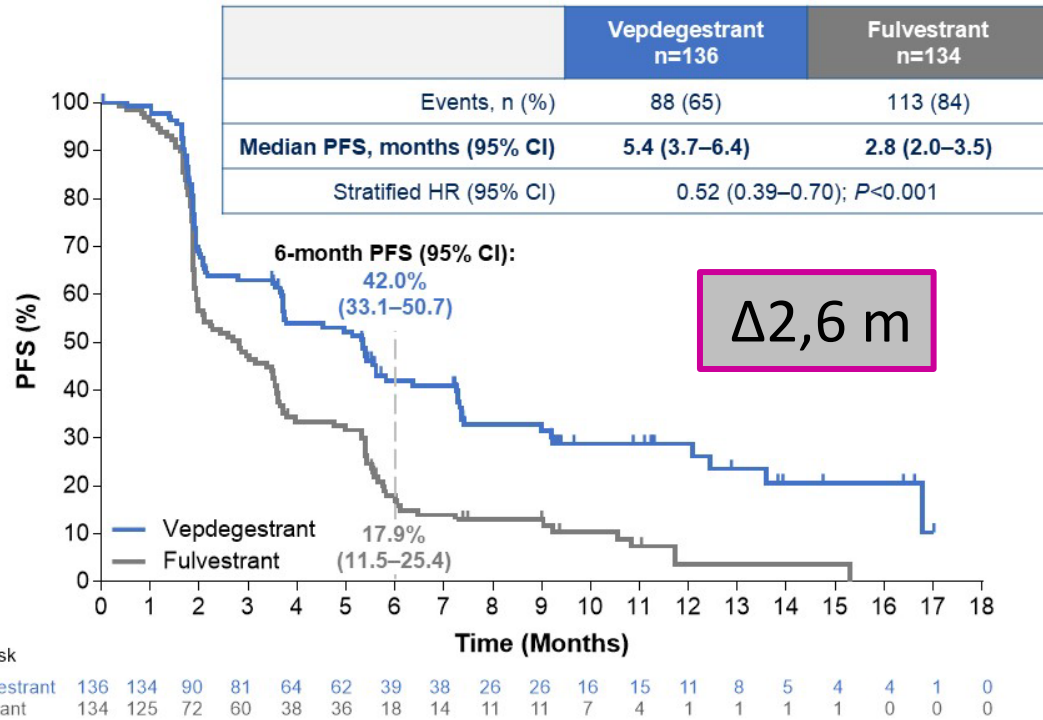
Secondary Endpoints:

- OS (key secondary)
- CBR and ORR by BICR
- AEs

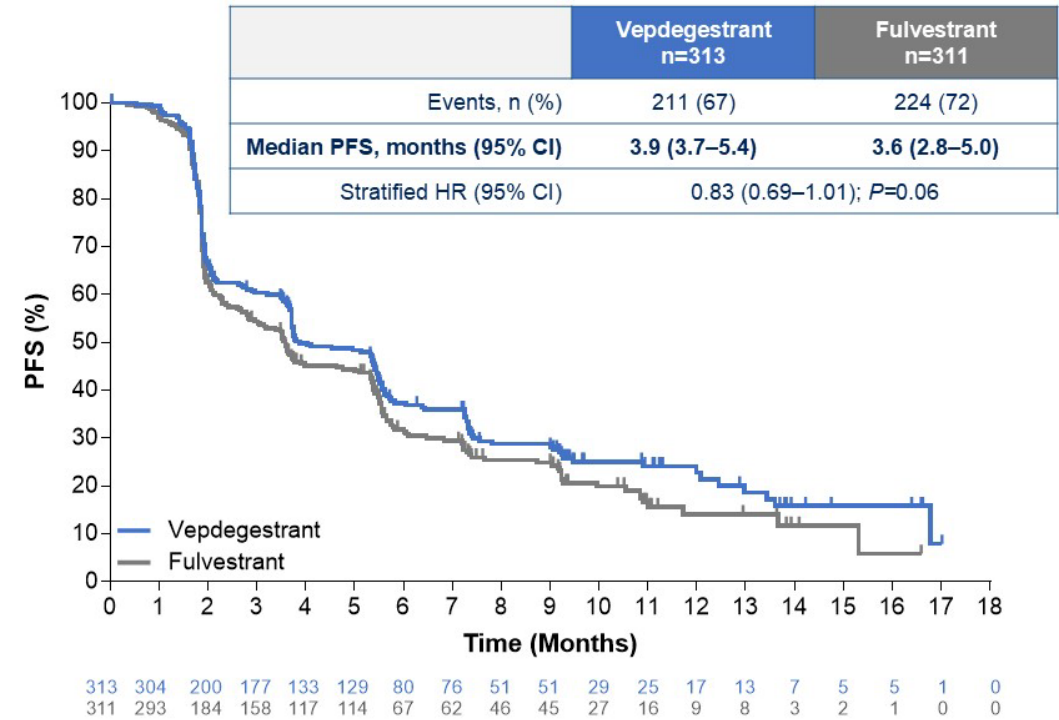
- 43% *ESR1*m
- Wszyscy chorzy wcześniej leczenia iCDK4/6
- 76-82 % : wcześniej 1 linia leczenia, 18-23% 2 linie leczenia

VERITAC -2 : PFS

Patients With *ESR1m*



All Patients

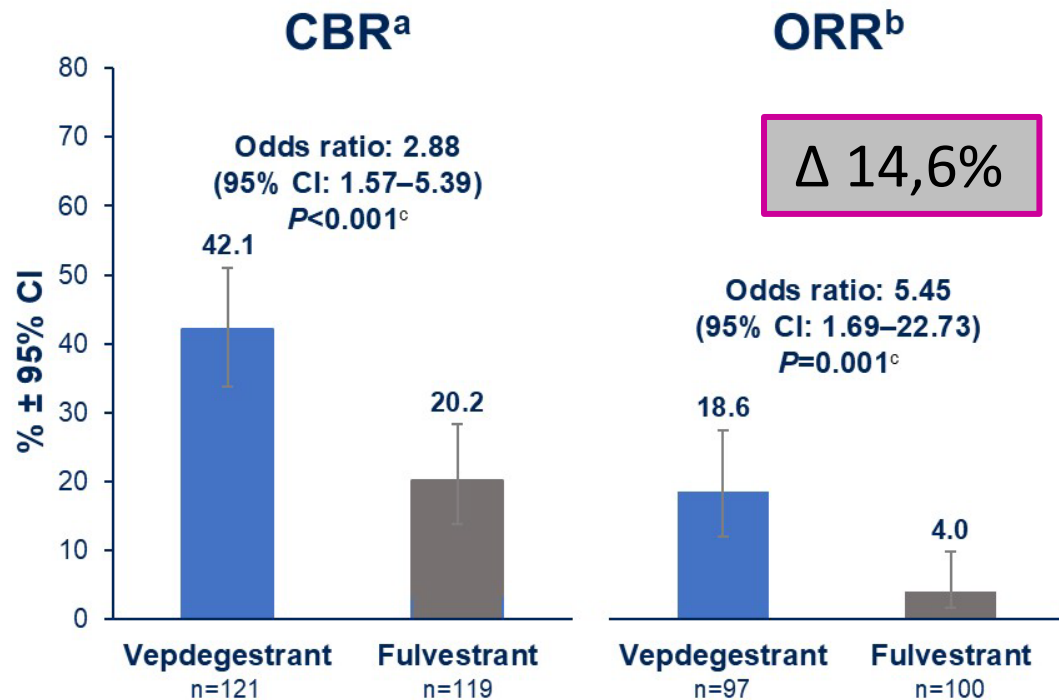


- Leczenie dobrze tolerowane
- Najczęściej występującym AE: zmęczenie : 27% (vepdegestrant)
- Tylko 3% przerwało leczenie z powodu AE, u 2% zredukowano dawkę leku

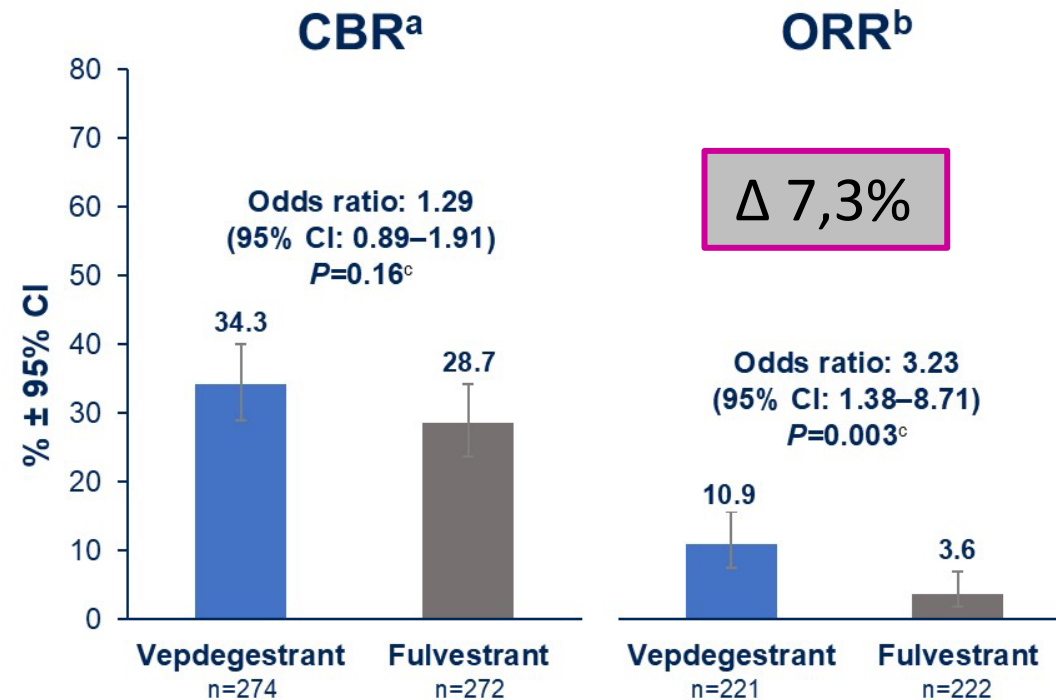
ESR1m=estrogen receptor 1 gene mutation; HR=hazard ratio; PFS=progression-free survival.

VERITAC -2 : CBR i ORR

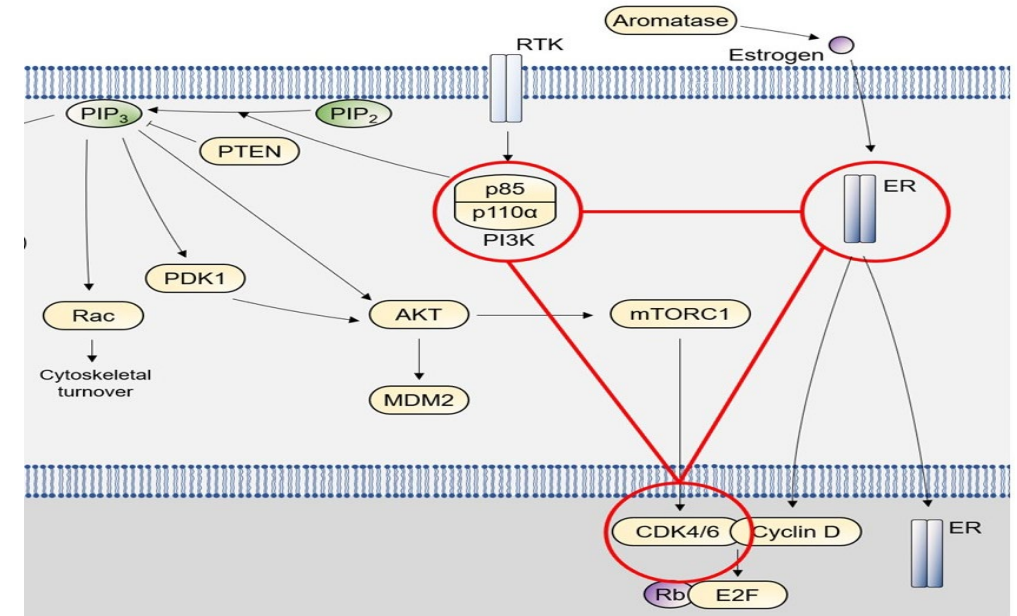
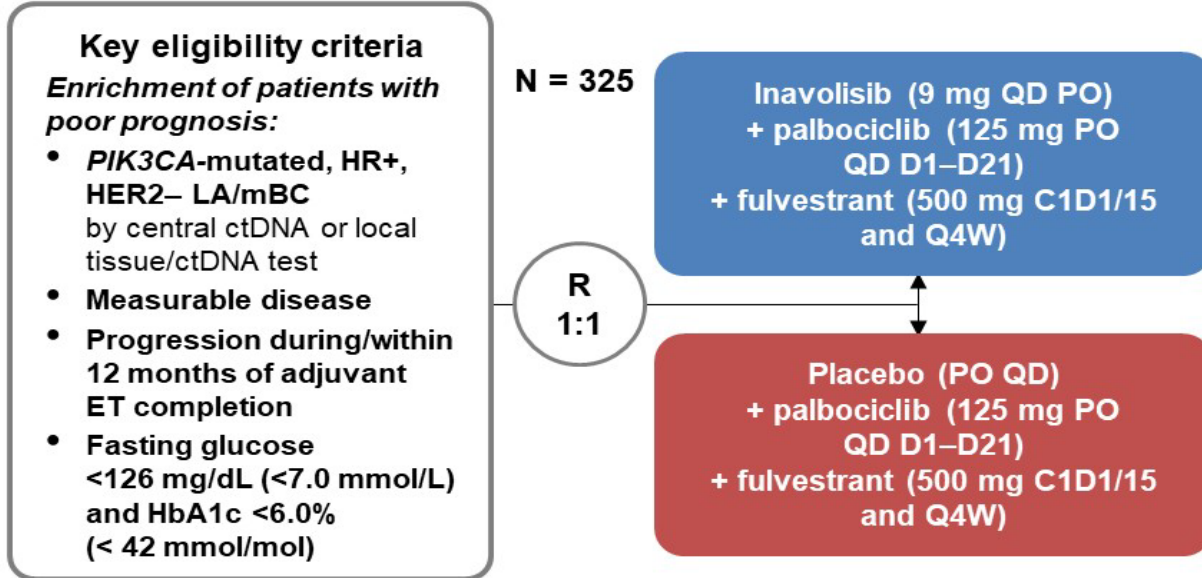
Patients With ESR1m



All Patients



INAVO120 : projekt badania

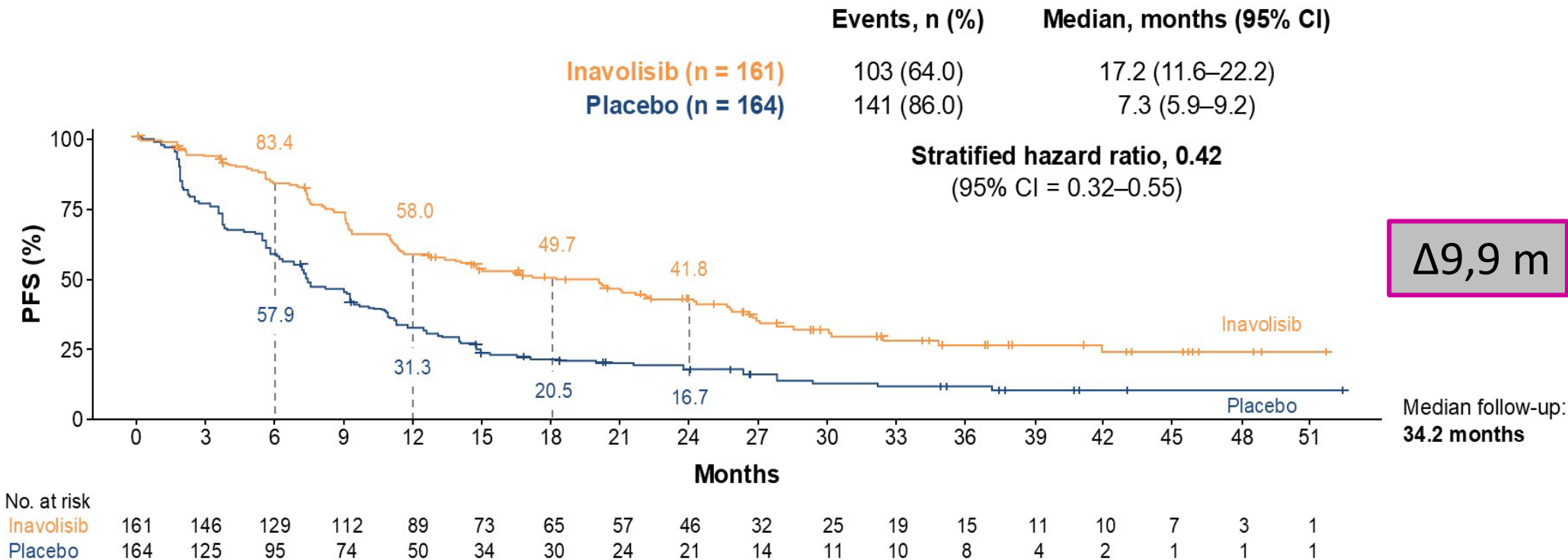


Populacja oporna na HT
Wcześniej nie leczona z powodu MBC

	Inavo+Palbo+Fulv (n=161)	Pbo+Palbo+Fulv (n=164)
Prior (neo)adjuvant chemotherapy, n (%)		
Yes	132 (82.0)	137 (83.5)
Prior (neo)adjuvant endocrine therapy, n (%)		
Yes	160 (99.4)	163 (99.4)
Aromatase inhibitor only	60 (37.3)	71 (43.3)
Tamoxifen only	82 (50.9)	73 (44.5)
Aromatase inhibitor and tamoxifen	18 (11.2)	19 (11.6)
Prior adjuvant CDK4/6 inhibitor, n (%)		
Yes	3 (1.9)	1 (0.6)

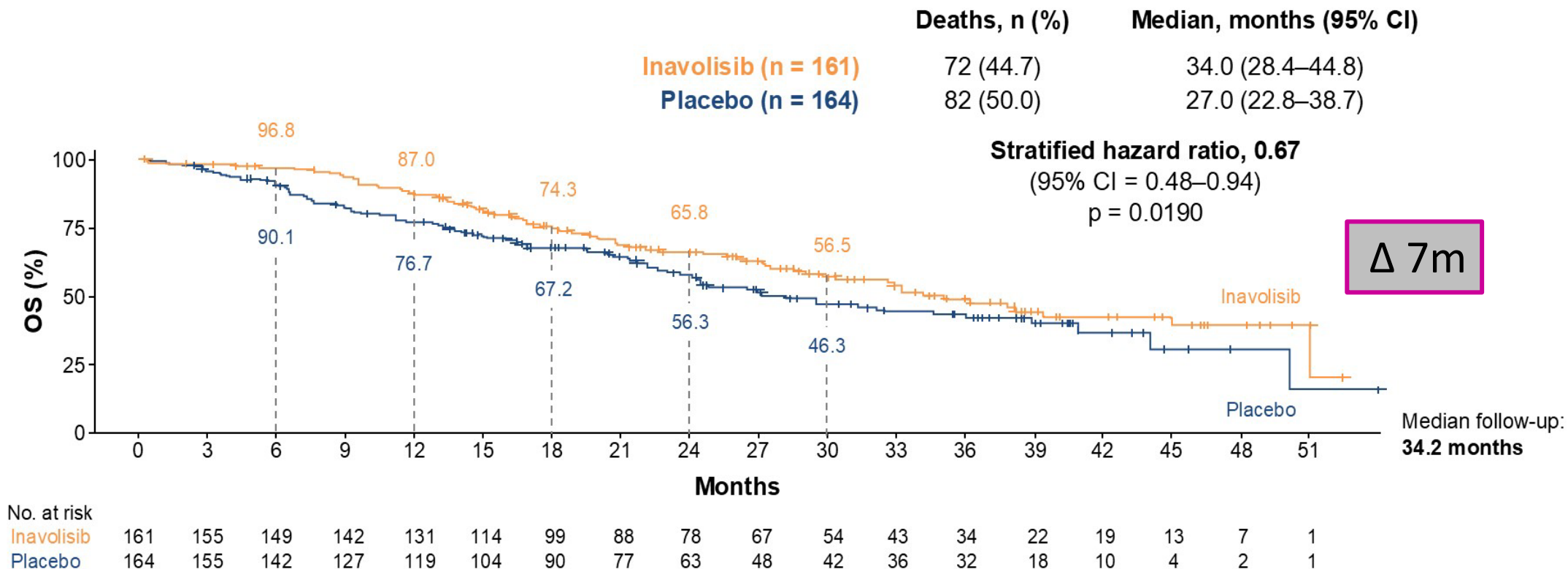
Inavolisib is a highly potent and selective inhibitor of the catalytic alpha isoform subunit (p110α encoded by *PIK3CA*) of the PI3K complex that also promotes the degradation of mutated p110α⁷⁻⁹

INAVO120 uaktualniony PFS



The improvement in PFS was maintained during longer follow-up

INAVO120 uaktualniony OS



Improvement in median OS: 7 months. The prespecified boundary for statistical significance ($p < 0.0469$) was crossed

INAVO120 : czas do 1. linii CT



Median time to first subsequent chemotherapy was substantially delayed by almost 2 years (23 months)

INAVO120 : leczenie po progresji

Patients, n (%)	Inavolisib		Placebo	
	Second line	Third line or greater	Second line	Third line or greater
Discontinued treatment	111/161 (68.9)		144/164 (87.8)	
No subsequent therapy – death	17/161 (10.6)		22/164 (13.4)	
Received subsequent therapy*	83/111 (74.8)	48/111 (43.2)	109/144 (75.7) [†]	56/144 (38.9)
Chemotherapy (any)	46/83 (55.4)	41/48 (85.4)	79/109 (72.5)	49/56 (87.5)
Capecitabine	26/83 (31.3)	14/48 (29.2)	37/109 (33.9)	24/56 (42.9)
Paclitaxel	12/83 (14.5)	17/48 (35.4)	20/109 (18.3)	16/56 (28.6)
Eribulin	1/83 (1.2)	11/48 (22.9)	6/109 (5.5)	17/56 (30.4)
Antibody–drug conjugate (any)	1/83 (1.2)	8/48 (16.7)	1/109 (0.9)	20/56 (35.7)
Trastuzumab deruxtecan	0	6/48 (12.5)	1/109 (0.9)	16/56 (28.6)
Sacituzumab govitecan	0	2/48 (4.2)	0	8/56 (14.3)
PI3K inhibitor (any)	5/83 (6.0)	2/48 (4.2)	11/109 (10.1)	3/56 (5.4)
Alpelisib	5/83 (6.0)	2/48 (4.2)	9/109 (8.3)	2/56 (3.6)
mTOR kinase inhibitor (everolimus)	8/83 (9.6)	4/48 (8.3)	10/109 (9.2)	9/56 (16.1)
CDK4/6 inhibitor (any)	8/83 (9.6)	3/48 (6.2)	5/109 (4.6)	3/56 (5.4)
Ribociclib	1/83 (1.2)	1/48 (2.1)	5/109 (4.6)	0
Abemaciclib	2/83 (2.4)	2/48 (4.2)	0	2/56 (3.6)
Other (any)	6/83 (7.2)	0	3/109 (2.8)	5/56 (8.9)

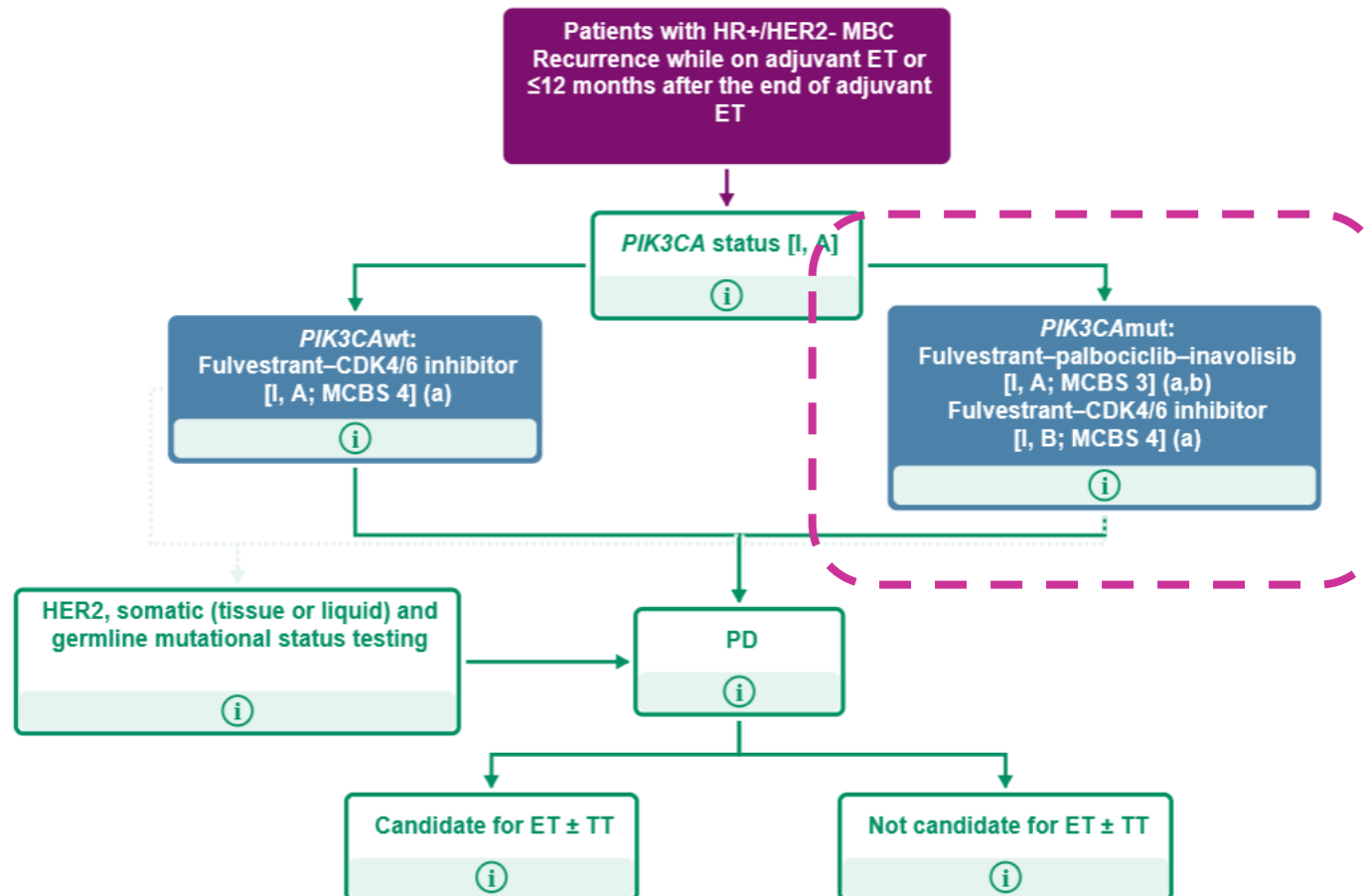
Following treatment discontinuation, fewer patients in the inavolisib group than in the placebo group received chemotherapy in the second line, antibody–drug conjugates in the third line or later, or a PI3K inhibitor in the second line or later

*Tylko 15.5% chorych z grupy kontrolnej otrzymało w kolejnych liniach leczenia iPIK3CA
Cross over nie dopuszczony w badaniu*

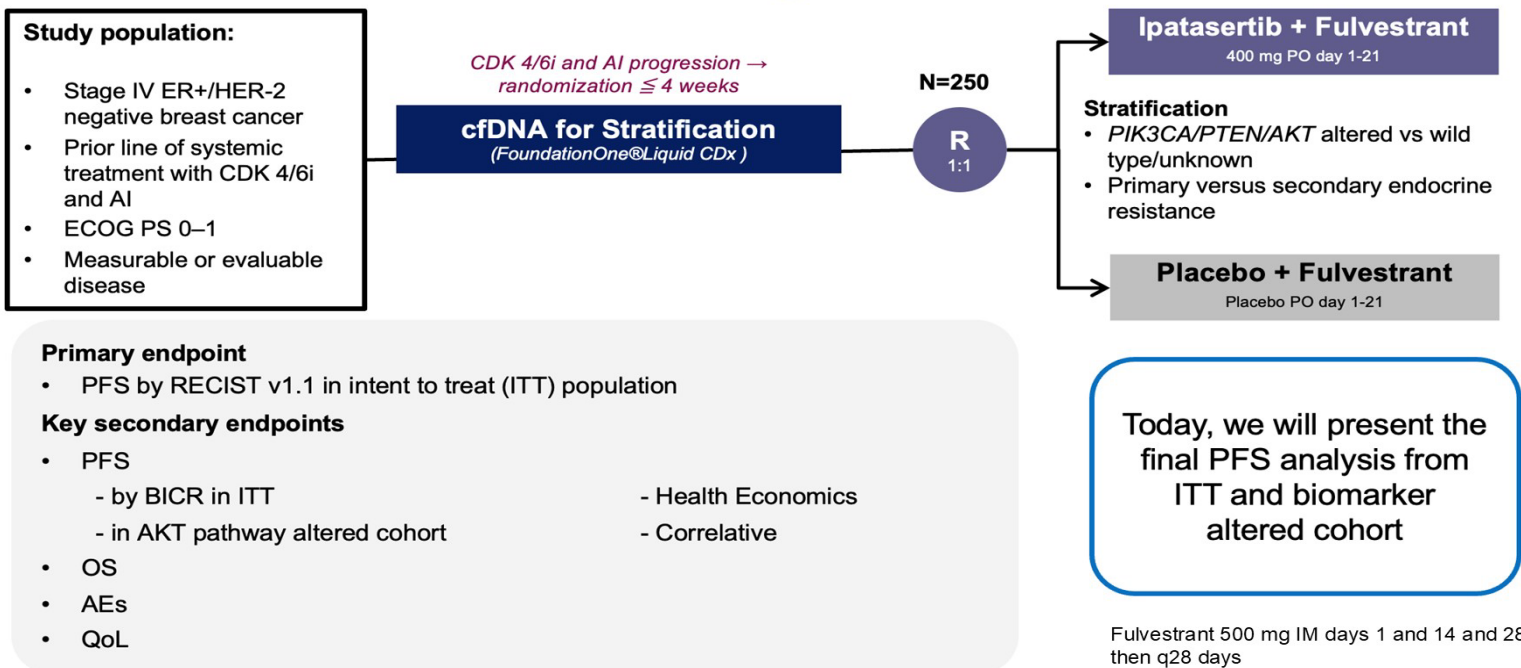
ESMO 2025 : zalcenia

HR+/HER2- MBC: Recurrence While on Adjuvant ET or ≤12 Months After the End of Adjuvant ET (Primary or Secondary ET-Resistance)

v1.2 - April 2025



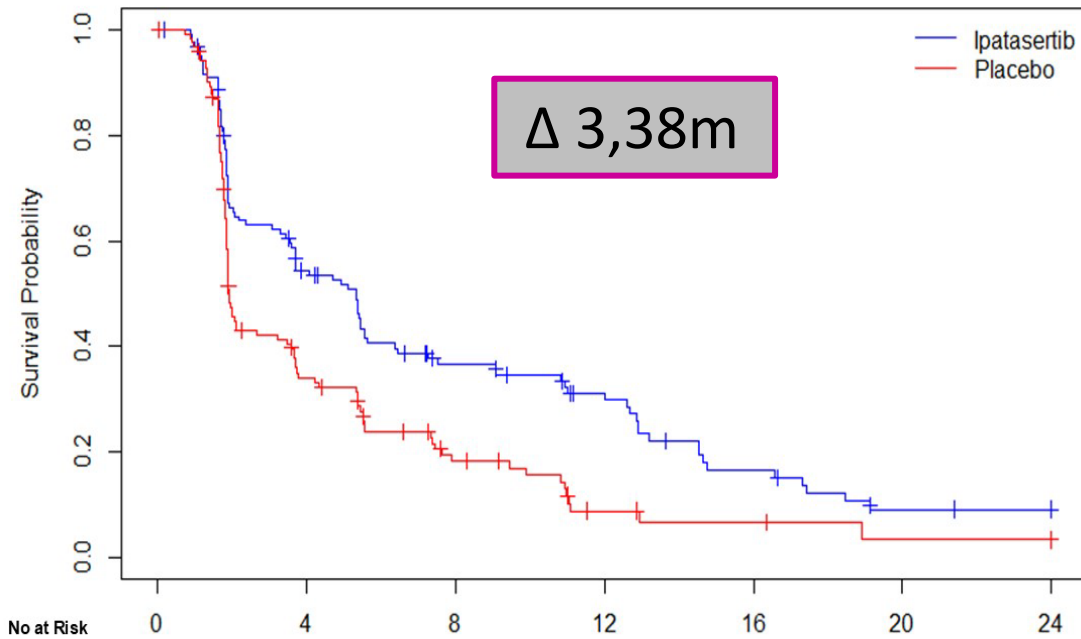
CCTG MA.40/FINER Trial Design



Characteristic	Ipatasertib + Fulvestrant (n=125)	Placebo + Fulvestrant (n=125)	Total Population (n=250)
De novo MBC at presentation	39.2%	40%	39.6%
Sites of disease			
Bone only	16.8%	16.8%	16.8%
Lung and/or liver involvement	66.4%	66.4%	66.4%
Prior duration of CDK 4/6i			
< 6 months	8%	4%	6%
> 6 months	92%	96%	94%
<i>PIK3CA/PTEN/AKT</i> status			
Wild type/unknown	54.4%	56.8%	55.6%
Altered	45.6%	43.2%	44.4%

PFS w ITT oraz w populacji z zaburzeniem AKT

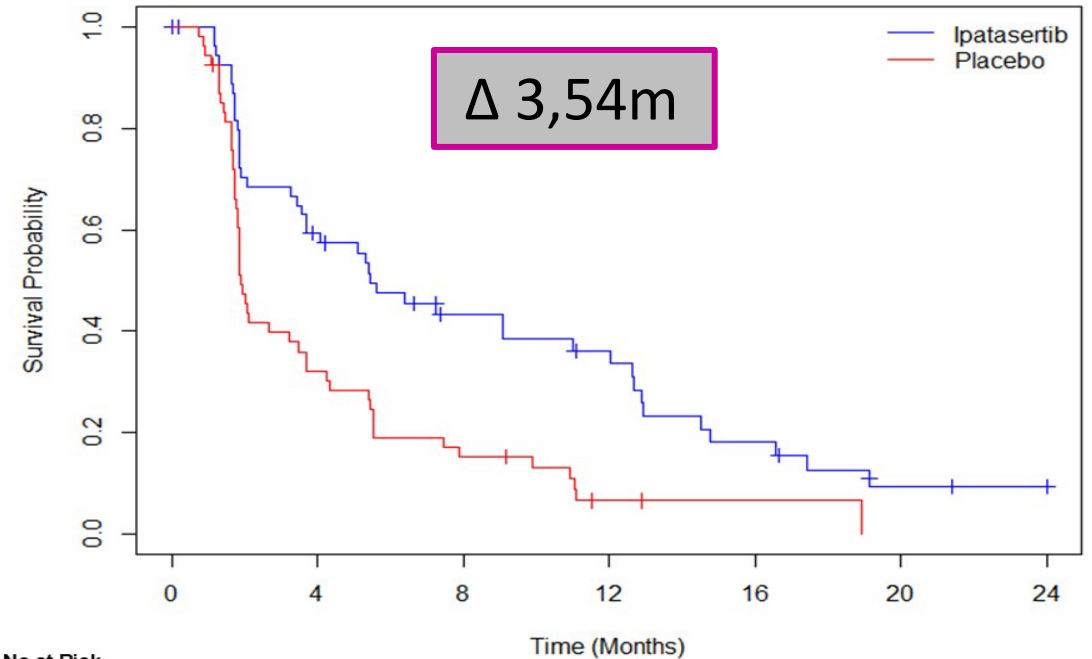
ITT



No at Risk

	IPAT arm n=125	PBO arm n=125
Median follow-up: 15.2 months		
Median PFS (95% CI), months	5.32 (3.58-5.62)	1.94 (1.84-3.22)
HR (95% CI)	0.61 (0.46-0.81)	
P-value (2-sided)	0.0007	

AKT alt

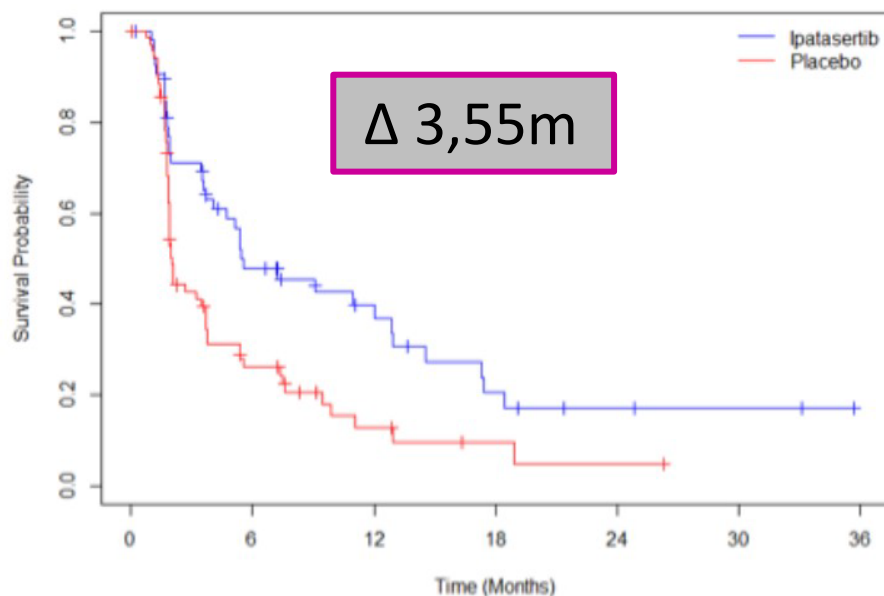


No at Risk

	IPAT arm n=57	PBO arm n=54
Median follow-up: 15.2 months		
Median PFS (95% CI), months	5.45 (3.55-11.01)	1.91 (1.77-3.48)
HR (95% CI)	0.47 (0.31-0.72)	
P-value (2-sided)	0.0005	

Analiza eksploracyjna PFS w ITT w zależności od stanu ESR1

PFS in *ESR1* wild type cohort (n=128; 51%)



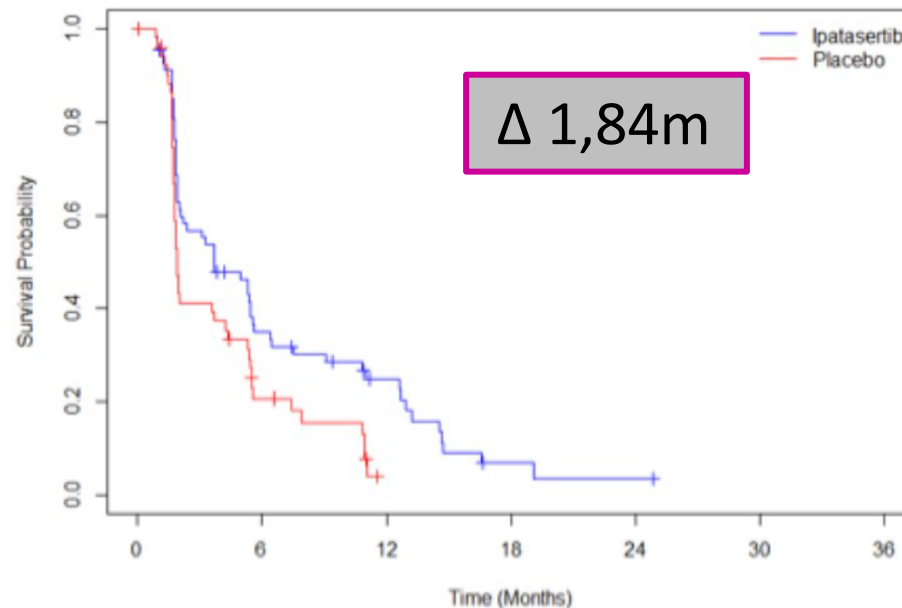
Median PFS

IPAT: 5.55 months 95% CI: (3.71-12.88)

Placebo: 2.00 months 95% CI: (1.84-3.68)

HR 0.54 95% CI (0.36-0.83)

PFS in *ESR1* mutant cohort (n=122; 49%)



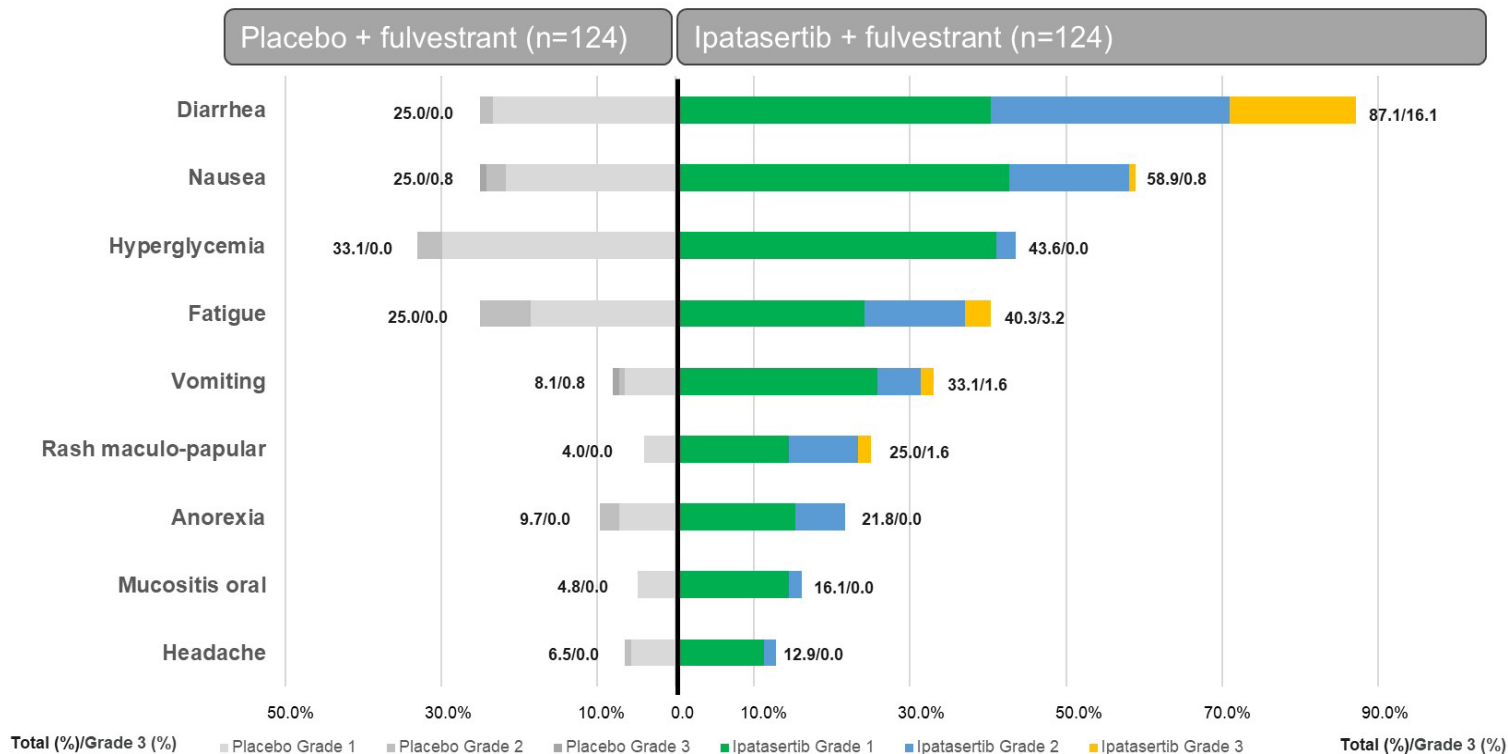
Median PFS

IPAT: 3.71 months 95% CI: (2.04-5.45)

Placebo: 1.87 months 95% CI: (1.77-4.24)

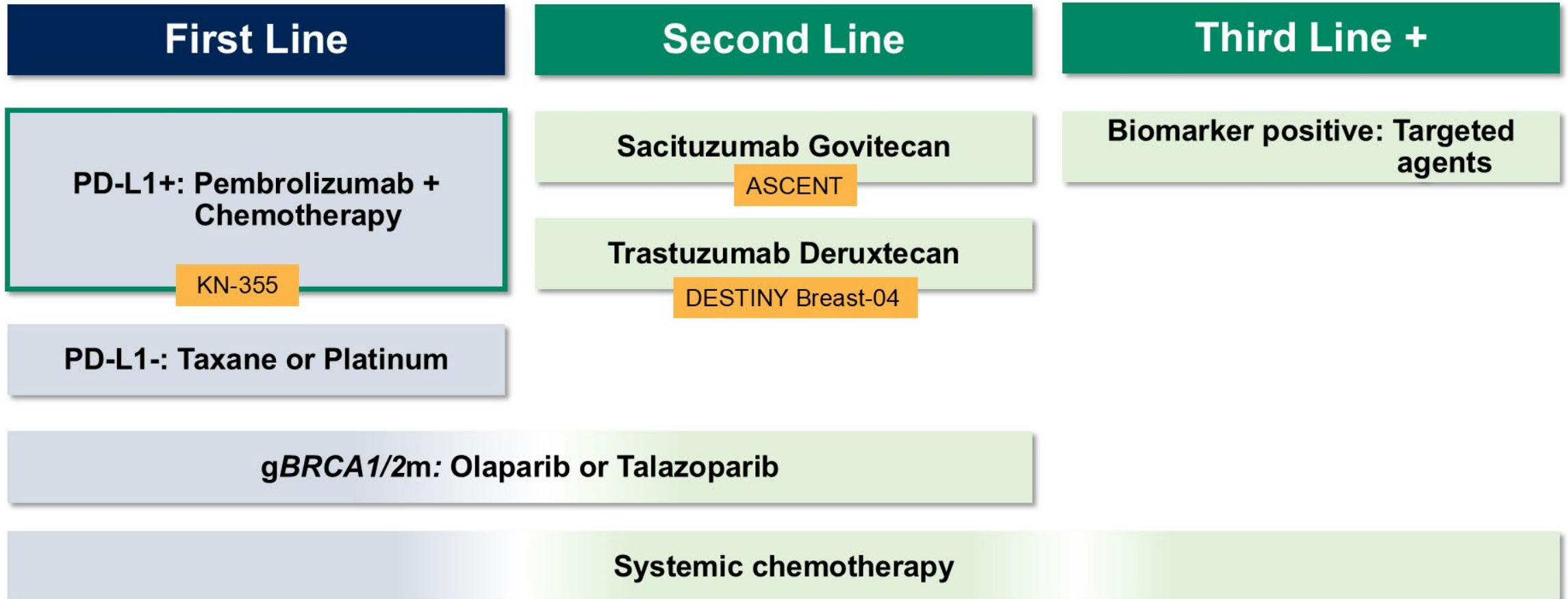
HR 0.61 95% CI (0.41-0.91)

AE związane z ipatasertibem z częstością > 10%



Reason for discontinuation of Ipatasertib / Placebo	Ipatasertib + Fulvestrant (n=124)	Placebo + Fulvestrant (n=124)
Adverse Event - related to protocol treatment	8 (6.5)	1 (0.8)
Progressive disease (Objective)	84 (67.7)	97 (78.2)
Symptomatic progression	5 (4.0)	6 (4.8)
Intercurrent illness - adverse events unrelated to protocol treatment	1 (0.8)	2 (1.6)
Patient refusal (not related to adverse event)	0 (0.0)	4 (3.2)

Leczenie mTNBC *anno domini* 2025



NCCN Guidelines. Breast Cancer. v4.2025.

Wyzwania w leczeniu mTNBC

First Line

PD-L1+: Pembrolizumab +
Chemotherapy

9.7 months Median PFS

23 months Median OS^{2,3}

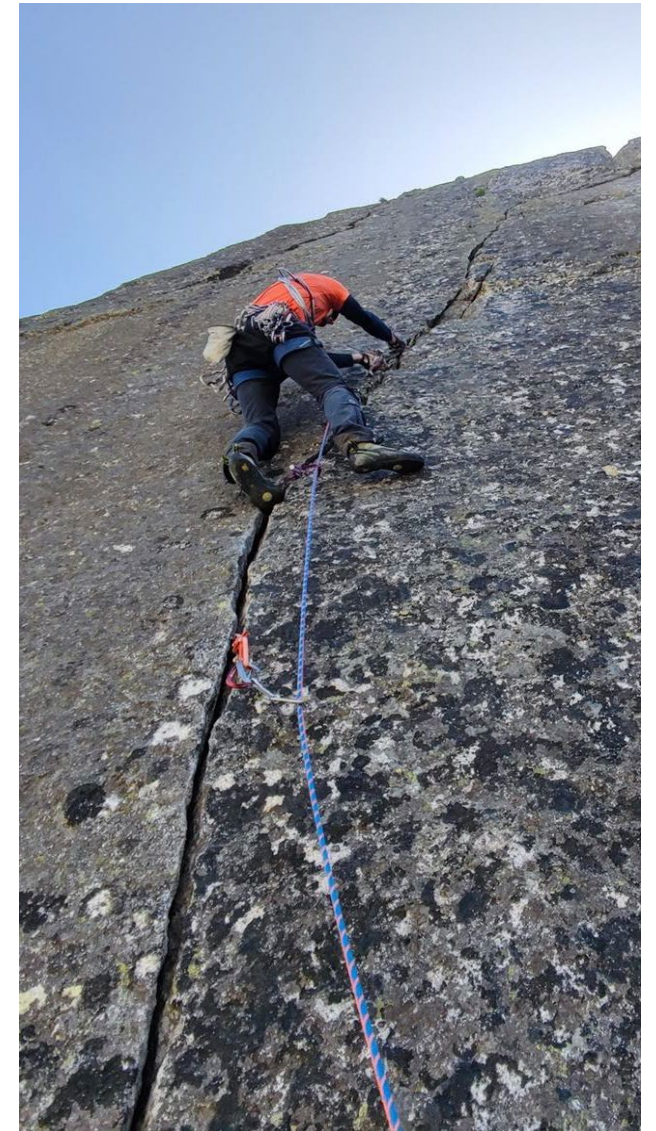
Second Line

49% Do **not** receive 2L treatment in the real-world⁴

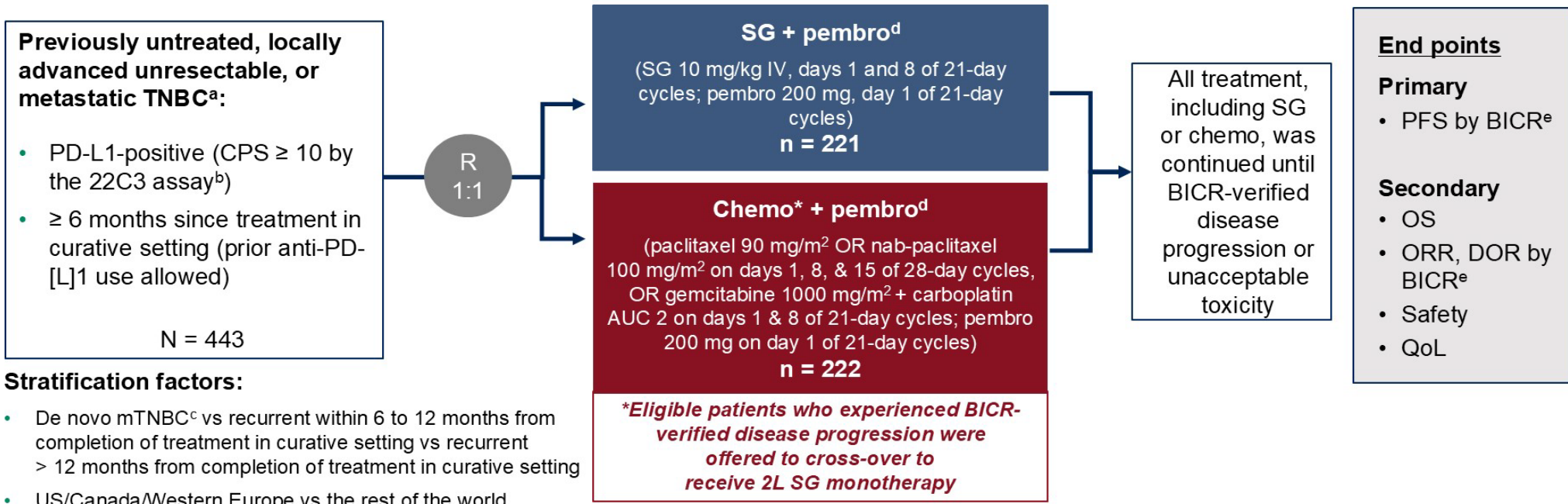
34% **Die** before receiving 2L treatment in the real-world⁴

Third Line +

NCCN Guidelines. Breast Cancer. v4.2025

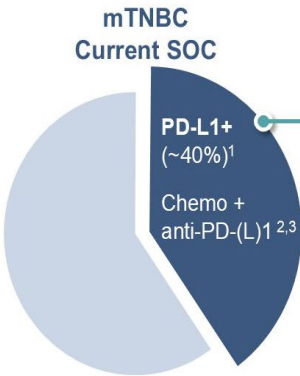


ASCENT-05/KEYNOTE- D19- projekt badania



Stratification factors:

- De novo mTNBC^c vs recurrent within 6 to 12 months from completion of treatment in curative setting vs recurrent > 12 months from completion of treatment in curative setting
- US/Canada/Western Europe vs the rest of the world
- Prior exposure to anti-PD-(L)1 (yes vs no)



Remaining unmet need

- Median PFS observed in prior studies of chemotherapy in combination with immune checkpoint inhibitors was 7.5-9.7 months^{1,4}; most patients still experience disease progression⁵⁻⁷
- About half of the patients treated for 1L mTNBC do not receive 2L treatment⁶

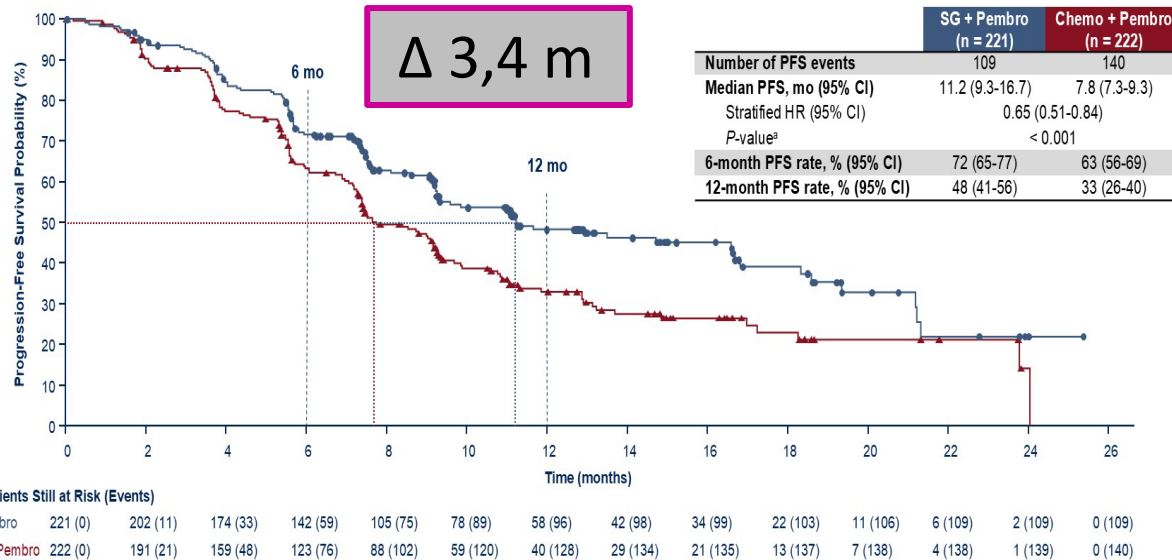
Rationale for this study

- SG is the only Trop-2-directed ADC with demonstrated OS benefit in multiple phase 3 studies; it is approved for 2L+ mTNBC and pre-treated HR+/HER2-mBC in multiple countries^{8,9}
- Early studies have observed improved anti-tumor effects when immunotherapy is combined with ADCs¹⁰

ITT Population	SG + Pembro (n = 221)	Chemo + Pembro (n = 222)
Curative treatment-free interval, n (%)		
De novo	75 (34)	75 (34)
Recurrent within 6-12 mo	40 (18)	40 (18)
Recurrent > 12 mo	106 (48)	107 (48)
Prior anti-PD-(L)1 therapy,^g n (%)	9 (4)	11 (5)

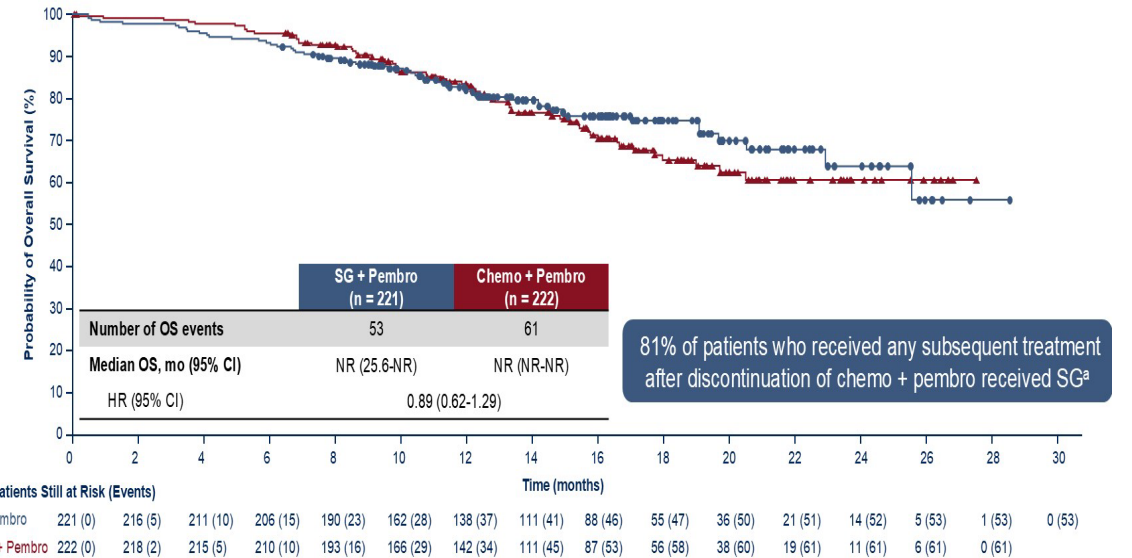
ASCENT-05/KEYNOTE- D19- PFS i OS

Progression-Free Survival by BICR



SG + pembro demonstrated statistically significant and clinically meaningful improvement in PFS vs chemo + pembro by BICR analysis, with a 35% reduction in risk of disease progression or death

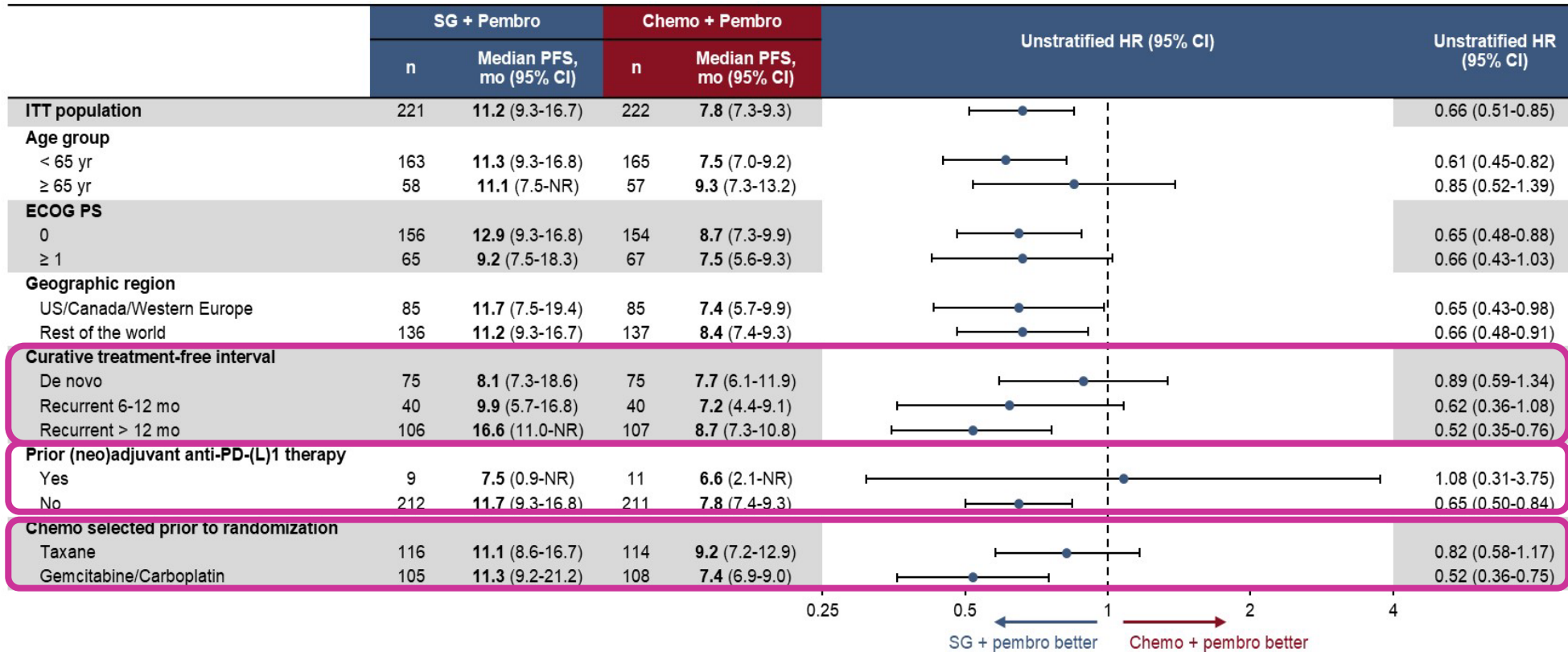
Descriptive Overall Survival at Primary Analysis



OS data were immature (maturity rate, 26%), however, a positive trend in improvement was observed for SG + pembro vs chemo + pembro

81% chorych z ramienia CT-Pembro w 2. linii otrzymała SG

ASCENT-05/KEYNOTE- D19- analiza podgrup dla PFS

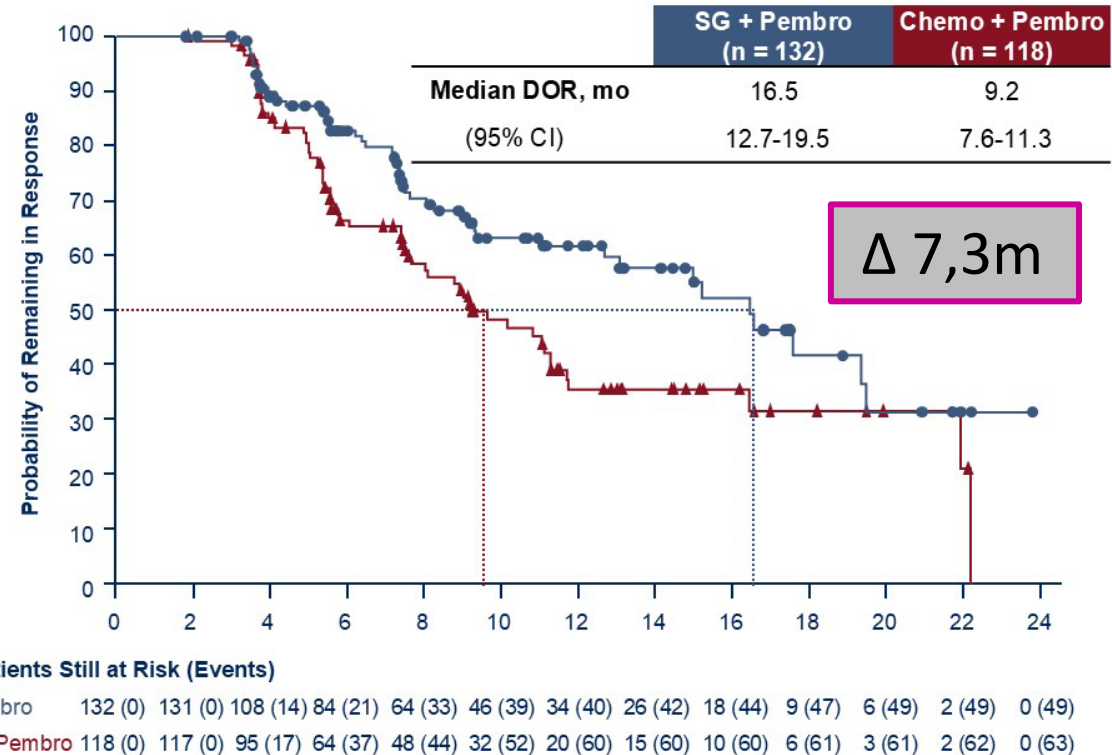


Tylko 5% chorych otrzymało ICI w leczeniu okołooperacyjnym

PFS benefit was observed for SG + pembro vs chemo + pembro across prespecified subgroups

ASCENT-05/KEYNOTE- D19- ORR i czas trwania odpowiedzi

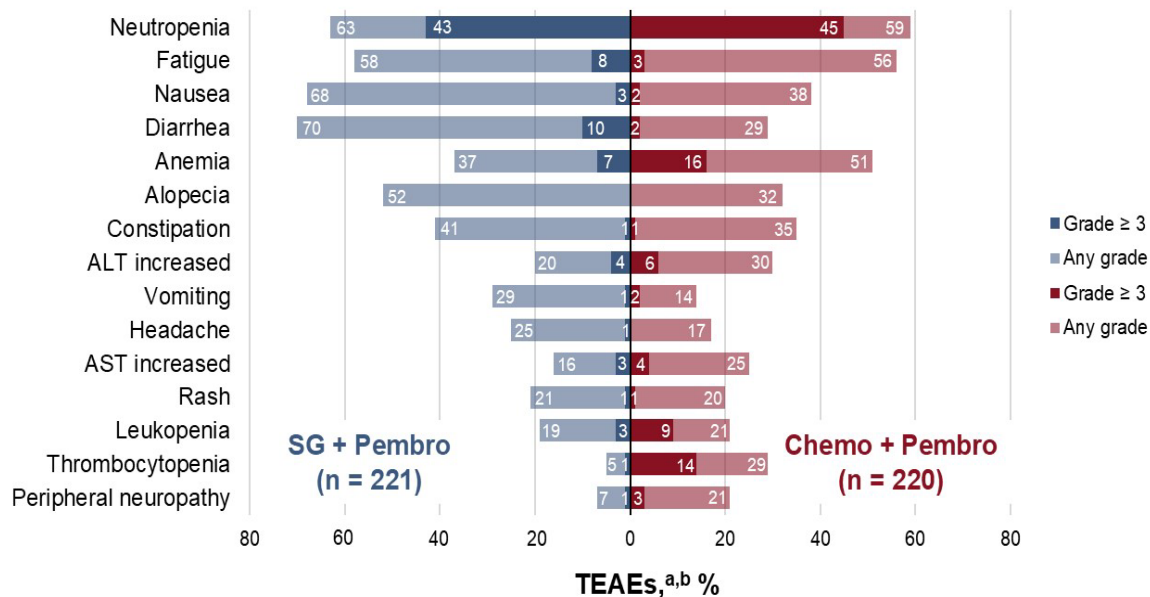
Variable	SG + Pembro (n = 221)	Chemo + Pembro (n = 222)
Objective response rate^a (95% CI), %	60 (52.9-66.3)	53 (46.4-59.9)
Stratified odds ratio (95% CI)	1.3 (0.9-1.9)	
Best overall response, n (%)		
Complete response	28 (13)	18 (8)
Partial response	104 (47)	100 (45)
Stable disease	70 (32)	70 (32)
Stable disease ≥ 6 months	23 (10)	29 (13)
Progressive disease	9 (4)	26 (12)
Not evaluable	10 (5)	8 (4)
Time to response,^b median (range), months	1.9 (1.0-9.3)	1.9 (1.1-11.4)



A substantially longer duration of response and a higher overall response rate (including an increased complete response rate) was observed for SG + pembro vs chemo + pembro

ASCENT-05/KEYNOTE- D19- powikłania

Most Common Adverse Events (≥20% in any group)



n (%)	SG + Pembro (n = 221)	Chemo + Pembro (n = 220)
Any TEAE	220 (> 99)	219 (> 99)
Grade ≥ 3	158 (71)	154 (70)
Treatment-emergent SAE	84 (38)	68 (31)
Treatment-related	61 (28)	42 (19)
TEAEs leading to treatment discontinuation^a	26 (12)	68 (31)
TEAEs leading to dose interruption	171 (77)	162 (74)
TEAEs leading to dose reduction^b	78 (35)	96 (44)
TEAEs leading to death^c	7 (3)	6 (3)
Treatment-related	3 (1)	1 (< 1)

The AEs observed are consistent with the known profiles of both SG and pembro

Despite longer duration of treatment with SG + pembro, rates of grade ≥ 3 AEs were similar for both groups. TEAEs leading to dose reduction or treatment discontinuation were lower with SG + pembro

OptiTROP- Breast 05- projekt badania

Multicenter, open-label phase II study (NCT05445908)



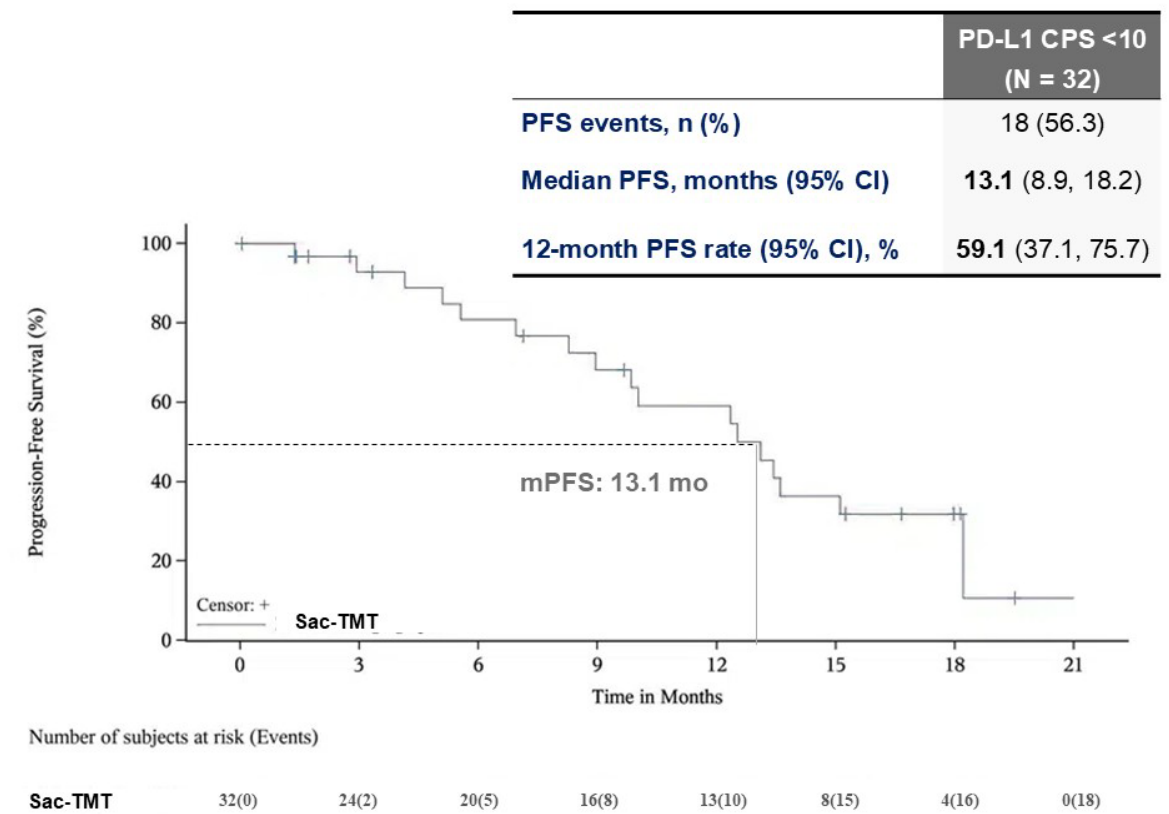
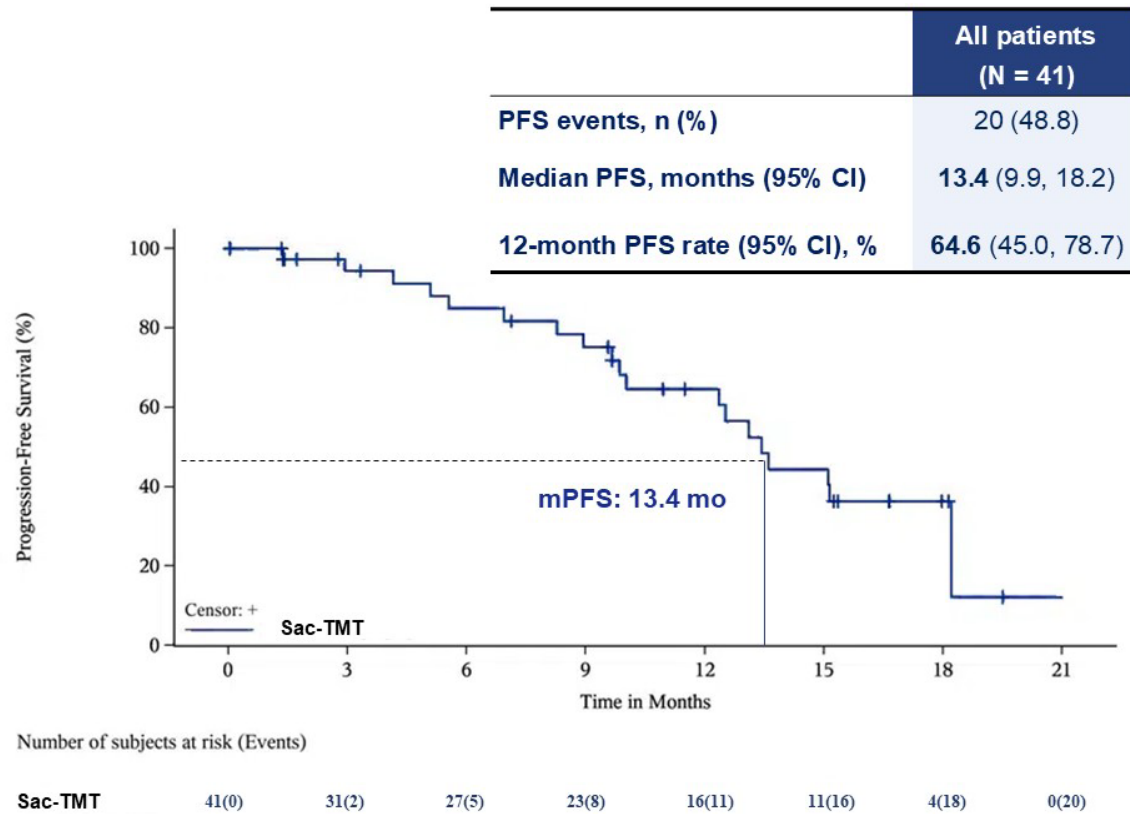
Tumor assessment

- Every 6 weeks for the first 18 months and every 12 weeks afterward.

Characteristic	Sac-TMT (N = 41)	Characteristic	Sac-TMT (N = 41)
Female, n (%)	41 (100)	Disease-free interval, n (%)	
Median age (range), yr	55 (34, 75)	De novo metastasis	12 (29.3)
≥65 years, n (%)	5 (12.2)	6-12 months	8 (19.5)
ECOG PS, n (%)		≥12 months	21 (51.2)
0	23 (56.1)	Prior treatments, n (%)	
1	18 (43.9)	Radiotherapy	15 (36.6)
Location of metastasis, n (%)		Chemotherapy	27 (65.9)
Visceral sites ^a	25 (61.0)	Hormonal therapy	6 (14.6)
Lung	19 (46.3)	PD-L1 expression,^b n (%)	
Bone	8 (19.5)	CPS <10	32 (78.0)
Liver	6 (14.6)	CPS ≥10	9 (22.0)

OptiTROP- Breast 05: PFS

PFS benefits were observed regardless of PD-L1 expression.

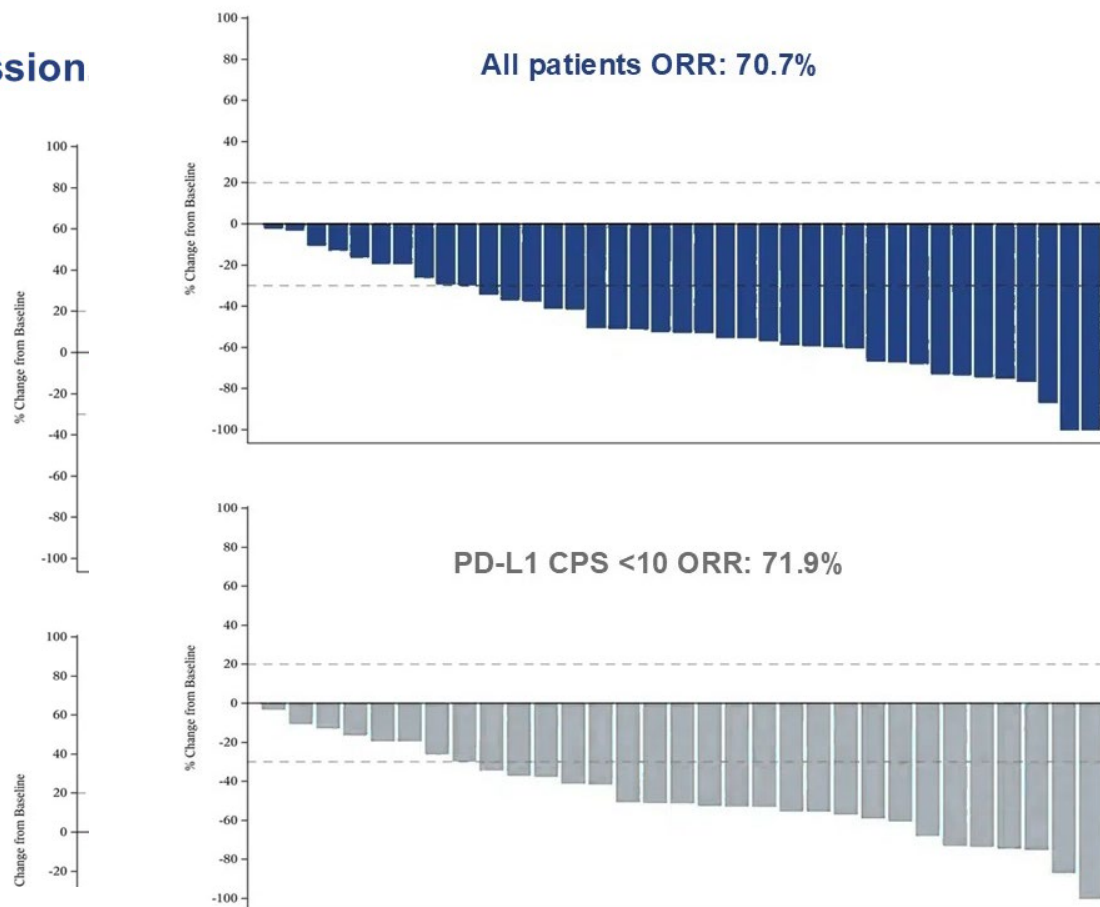


Tylko 7.3% chorych przerwało leczenie z powodu powikłań

OptiTROP- Breast 05:ORR

Antitumor Responses were observed regardless of PD-L1 expression

	All patients (N = 41)	PD-L1 CPS <10 ^c (N = 32)
ORR^a, n (%) (95% CI)	29 (70.7) (54.5, 83.9)	23 (71.9) (53.3, 86.3)
CR^b, n (%)	2 (4.9)	1 (3.1)
PR, n (%)	27 (65.9)	22 (68.8)
Confirmed PR, n (%)	24 (58.5)	19 (59.4)
SD, n (%)	9 (22.0)	7 (21.9)
DCR, n (%) (95% CI)	38 (92.7) (80.1, 98.5)	30 (93.8) (79.2, 99.2)





Pięknych wakacji