Clinical Outcomes by Age Subgroups in the Phase 3 TROPiCS-02 Study of Sacituzumab Govitecan vs Treatment of Physician's Choice in HR+/HER2- Metastatic Breast Cancer

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Key Findings

- PFS, OS, ORR, and CBR benefit were observed with SG vs TPC regardless of age subgroup in patients with pretreated endocrine-resistant HR+/HER2- mBC
- As expected, older patients had higher ECOG PS scores and more preexisting comorbidities
- Similar rates of TEAEs were observed regardless of age subgroup, and improved efficacy was observed at higher vs lower RDI in patients who were < 65 years
- TTD for fatigue was significantly longer for SG vs TPC in patients who were < 65 years

Conclusions

Consistent with prior results in the intent-to-treat population, efficacy benefit was observed with SG vs TPC regardless of age subgroup, with manageable safety



SG demonstrated a favorable benefit/risk profile in older patients, supporting the use of SG vs TPC in this patient population, which is known to experience greater toxicity and lower efficacy with chemotherapy treatment

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Introduction

- HR+/HER2- mBC^{5,6}
- with worse efficacy and greater toxicity from chemotherapy⁷

Objective

TROPiCS-02

Methods

- endocrine-resistant HR+/HER2- mBC⁵ (Figure 1)

Figure 1. Study design^a

Metastatic or locally recurrent inoperable HR+/HER2- breast cancer that progressed after^b

- At least 1 endocrine therapy, taxane, and CDK4/6 inhibitor in any setting
- At least 2, but no more than 4, lines of chemotherapy for metastatic disease
- Measurable disease by RECIST v1.1

N = 543

treatment of physician's choice randomization.

Results

Baseline characteristics by age subgroup

- (ECOG PS) of 1 than 0

Breast cancer is the second most common cause of cancer-related death in women.¹ and the most common form, hormone receptor-positive (HR+)/human epidermal growth factor receptor 2-negative (HER2-; immunohistochemistry [IHC] 0, IHC1+, or IHC2+ and in situ hybridization-negative [ISH-]) breast cancer, represents approximately 70% of breast cancers²

• Sacituzumab govitecan (SG), an antibody-drug conjugate targeted to trophoblast cell-surface antigen 2 (Trop-2), has been approved in the United States³ and European Union⁴ for the treatment of pretreated HR+/HER2- metastatic breast cancer (mBC) and in multiple countries for the treatment of pretreated metastatic triple-negative breast cancer

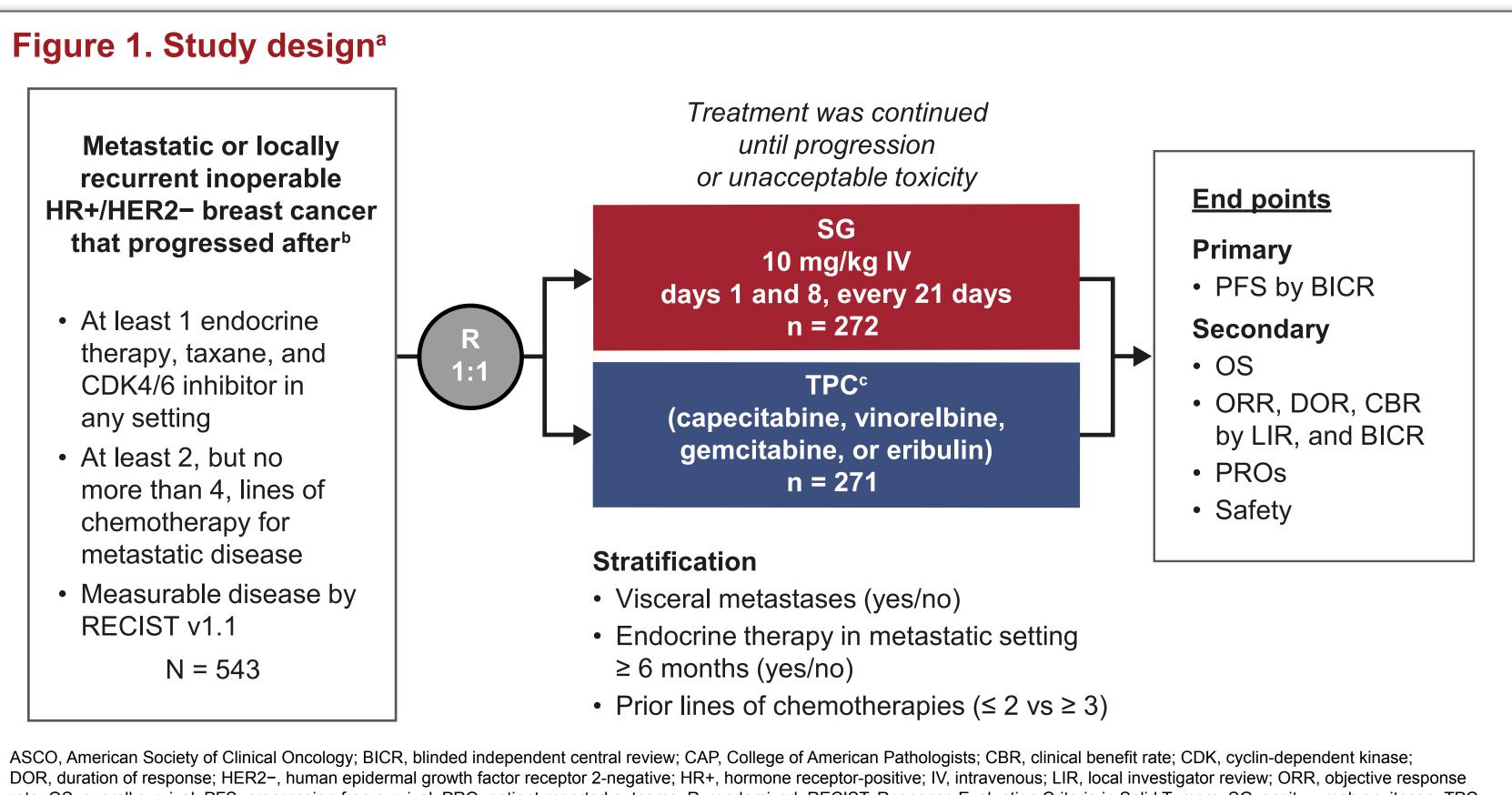
SG showed significantly improved progression-free survival (PFS) vs treatment of physician's choice (TPC; median 5.5 vs 4.0 months; HR, 0.66; $P = .0003)^5$ and significantly improved overall survival (OS; median 14.4 vs 11.2 months; HR, 0.79; $P = .020)^6$ with manageable safety in the phase 3 TROPiCS-02 study of patients with pretreated, endocrine-resistant

The most important risk factor for breast cancer is age: advanced age is associated with a higher rate of comorbidities, and

We present a post hoc analysis of efficacy, safety, and quality of life (QoL) outcomes by age subgroup with SG vs TPC from

TROPiCS-02 is a phase 3, randomized, open-label study of SG vs TPC for the treatment of patients with pretreated,

• The data cutoff date was July 1, 2022, except for PFS, which was January 3, 2022

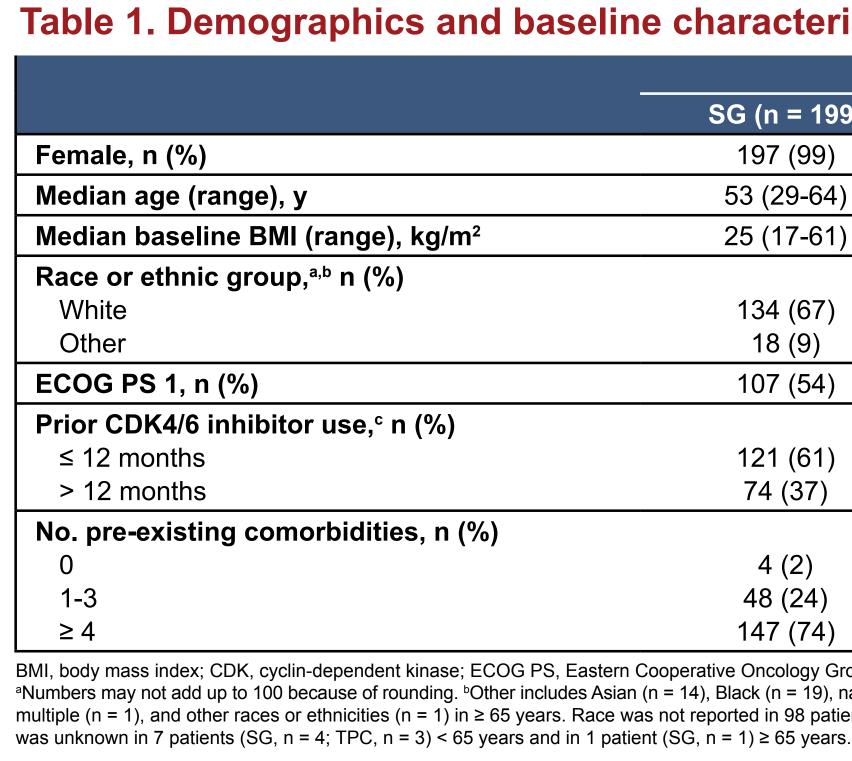


rate: OS. overall survival: PFS. progression-free survival: PRO. patient-reported outcome: R. randomized: RECIST. Response Evaluation Criteria in Solid Tumors: SG. sacituzumab govitecan: TPC. ^aClinicalTrials.gov. NCT03901339. ^bDisease histology based on the ASCO/CAP criteria. ^cSingle-agent standard-of-care treatment of physician's choice was specified by the investigator prior to

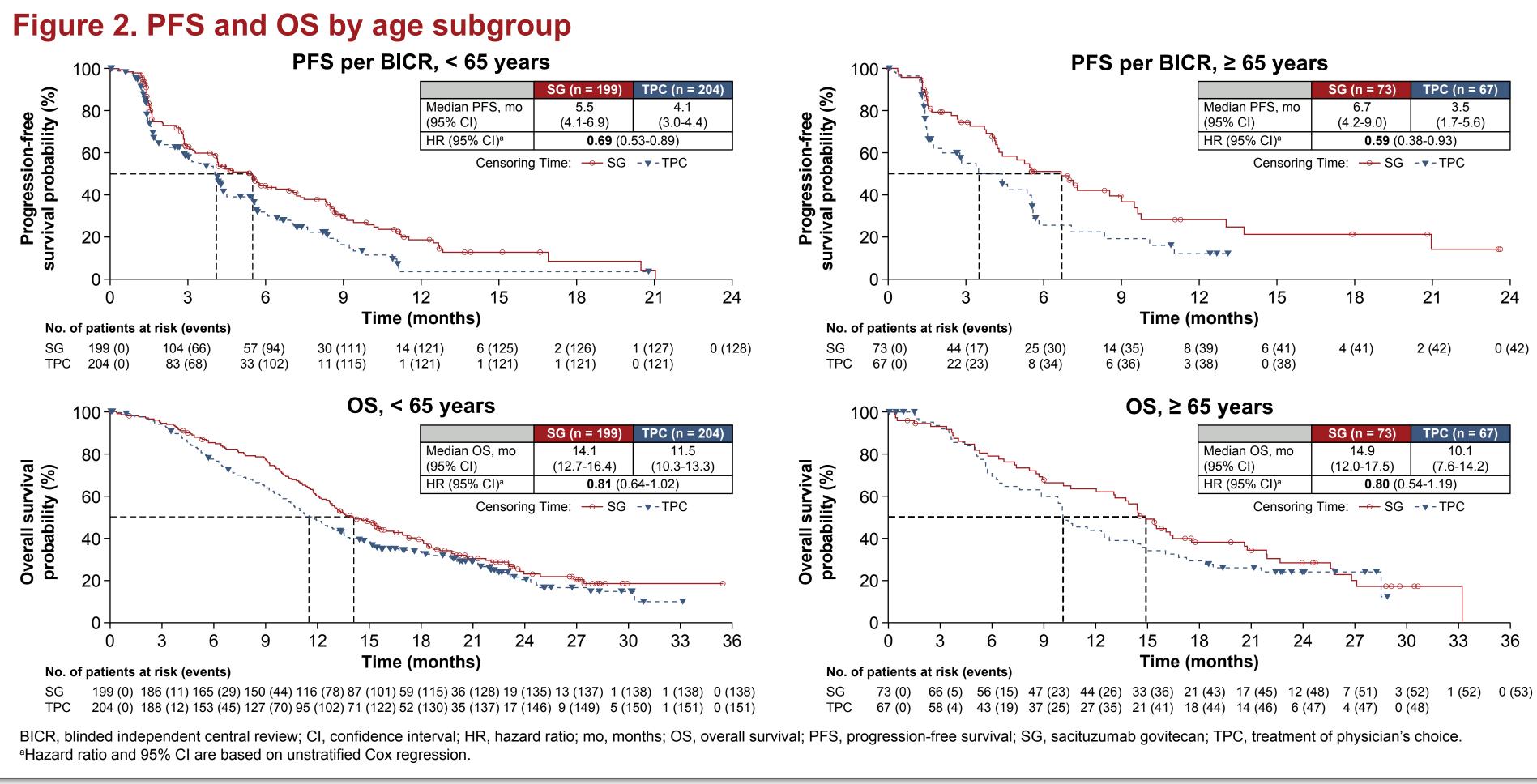
• Baseline characteristics were generally consistent among patients across age subgroups and across treatment groups (Table 1) • A total of 543 patients were randomized to receive SG (n = 272) or TPC (n = 271)

• In both age subgroups, a higher proportion of patients had Eastern Cooperative Oncology Group performance status

Results



Efficacy by age subgroup



SG demonstrated improved ORR, CBR, and DOR vs TPC in patients age < 65 and \geq 65 (Table 2)

Table 2. Responses by age subgroup

				≥ 65 years			
BICR analysis	SG (n = 199)	TPC (n = 204)	Odds ratio (95% Cl)	SG (n = 73)	TPC (n = 67)	Odds ratio (95% CI)	
ORR, n (%)	42 (21)	28 (14)	1.68 (1.00-2.84)	15 (21)	10 (15)	1.47 (0.61-3.55)	
CBR, n (%)	66 (33)	47 (23)	1.66 (1.07-2.57)	26 (36)	13 (19)	2.30 (1.06-4.97)	
Median DOR,ª mo (95% CI)	8.3 (6.5-9.7)	5.6 (3.8-7.9)	_	6.9 (5.8-NE)	4.3 (2.3-NE)	_	

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Table 1. Demographics and baseline characteristics

	< 65	years	≥ 65 years			
	SG (n = 199)	TPC (n = 204)	SG (n = 73)	TPC (n = 67)		
	197 (99)	202 (99)	73 (100)	66 (99)		
	53 (29-64)	52 (27-63)	71 (65-86)	69 (65-78)		
J/m²	25 (17-61)	24 (16-45)	24 (16-36)	24 (16-38)		
	134 (67)	135 (66)	50 (68)	43 (64)		
	18 (9)	18 (9)	1 (1)	5 (7)		
	107 (54)	100 (49)	50 (68)	45 (67)		
6)						
	121 (61)	129 (63)	40 (55)	37 (55)		
	74 (37)	72 (35)	32 (44)	30 (45)		
n (%)						
	4 (2)	7 (3)	0	1 (1)		
	48 (24)	44 (22)	8 (11)	12 (18)		
	147 (74)	153 (75)	65 (89)	54 (81)		

COG PS, Eastern Cooperative Oncology Group performance status: SG, sacituzumab govitecan: TPC, treatment of physician's choice cludes Asian (n = 14). Black (n = 19). native Hawaiian or other Pacific Islander (n = 1), and other races or ethnicities (n = 2) in < 65 years and Asian (n = 2), Black (n = 2) multiple (n = 1), and other races or ethnicities (n = 1) in \geq 65 years. Race was not reported in 98 patients (SG, n = 47; TPC, n = 51) < 65 years and in 41 patients (SG, n = 22; TPC, n = 19) \geq 65 years. Prior CDK4/6 inhibitor use

• PFS and OS favored SG over TPC regardless of age < 65 or age \geq 65 years (Figure 2)

Safety by age subgroup

Table 3. TEAEs by age subgroup All TEAEs,^a n Grade ≥ 3 **TEAEs** leading **TEAEs** leading **TEAEs** leadin Most commor Neutropenia Nausea Diarrhea Alopecia Fatigue Constipation

Anemia AE, adverse event; SG, ^aTEAEs were defined as in \geq 30% of patients in ei

Quality of life by age subgroup

able 4. TTD by age subgroup									
			< 65 years		≥ 65 years				
EORTC QLQ C-30 domain		SG	TPC	HR (95% CI) <i>P</i> value	SG	TPC	HR (95% CI) <i>P</i> value		
Global health status/QoL	Median TTD, mo (95% CI)	4.4 (3.2-6.4)	3.0 (2.2-4.4)	0.81 (0.64-1.02) <i>P</i> = .066	3.4 (2.1-5.7)	2.9 (1.4-4.9)	0.71 (0.47-1.06) <i>P</i> = .094		
Fatigue	Median TTD, mo (95% CI)	2.0 (1.5-2.8)	1.1 (1.0-1.8)	0.76 (0.61-0.96) <i>P</i> = .021	2.2 (1.2-4.4)	2.3 (1.3-3.7)	0.82 (0.55-1.22) P = .32		
Pain	Median TTD, mo (95% CI)	3.7 (2.8-5.2)	4.6 (3.1-6.3)	1.00 (0.79-1.27) P = .97	4.4 (1.5-5.3)	2.6 (1.7-3.6)	0.73 (0.49-1.09) <i>P</i> = .12		

CI, confidence interval; EORIC QLQ-C30, European Organization for Research and Treatment of Cancer Quality of Life Questionnaire; HR, hazard ratio; QoL, quality of life; SG, sacituzumab govitecan; TPC, treatment of physician's choice: TTD, time to deterioration A clinically meaningful deterioration using the predefined EORTC QLQ C-30 scales was defined as at least a 10-point worsening from baseline. Death is considered as an event. HR and P values were estimated using a Cox proportional hazards regression analysis with treatment arm (SG vs TPC) as a covariate in the model for each subgroup level. Subjects with baseline score > 90 for QLQ C-30 fatigue and pain domains and baseline score < 10 for global health status/QoL were excluded from the QoL analysis.

Efficacy by relative dose intensity

Table 5. Efficacy by relative dose intensity

		< 65 years			≥ 65 years			
	RDI ≤ 74% (n = 60)	RDI > 74% and ≤ 90% (n = 73)	RDI > 90% (n = 61)	RDI ≤ 74% (n = 28)	RDI > 74% and ≤ 90% (n = 16)	RDI > 90% (n = 27)		
Median PFS (95% Cl),ª mo	2.9 (1.6-5.6)	4.7 (3.3-6.9)	8.5 (4.4-9.4)	5.5 (2.7-21.0)	5.5 (3.8-NE)	6.7 (2.4-9.0)		
Median OS (95% CI), mo	13.0 (11.4-15.3)	13.6 (11.7-18.4)	18.1 (12.8-19.8)	13.9 (8.1-20.6)	25.6 (5.3-NE)	15.4 (8.5-21.9		
ORR,ª n (%)	8 (13)	14 (19)	19 (31)	5 (18)	3 (19)	6 (22)		
CBR,ª n (%)	15 (25)	23 (32)	27 (44)	9 (32)	6 (38)	10 (37)		

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• Patients experienced more treatment-emergent adverse events (TEAEs) leading to dose reduction and treatment discontinuation with SG vs TPC in the ≥ 65 years subgroup, and TEAEs with SG leading to dose reduction and treatment discontinuation were more common in the ≥ 65 years subgroup vs < 65 years (Table 3)

• Grade ≥ 3 TEAEs and TEAEs leading to treatment interruptions occurred at higher rates in patients treated with SG vs TPC, and the rates of these TEAEs were similar across age subgroups (Table 3)

	< 65 years				≥ 65 years			
	SG (n = 196)		TPC (n = 188)		SG (n = 72)		TPC (n = 61)	
(%)	196 (100) 144 (73)		178 (95) 72		72 (100)	61 (100)	
			113 (60)		54 (75)		37 (61)	
ng to dose reduction	63 (32)		65 (35)		27 (38)		17 (28)	
ng to treatment interruption	129 (66)		82 (44)		49 (68)		27 (44)	
ng to treatment discontinuation		5 (3) 8 (4)		· /	12 (17)́		3 (5)	
TEAEs, ^{a,b} n (%)	Any grade	Grade ≥ 3	Any grade	Grade ≥ 3	Any grade	Grade ≥ 3	Any grade	Grade ≥ 3
	142 (72)	106 (54)	106 (56)	75 (40)	47 (65)	32 (44)	30 (49)	22 (36)
	117 (60)	2 (1)	69 (37)	6 (3)	40 (56)	1 (1)	18 (30)	1 (2)
	112 (57)	15 (8)	40 (21)	2 (1)	54 (75)	12 (17)	17 (28)	1 (2)
	98 (50)	0	31 (16)	0	30 (42)	Ô	15 (25)	0
	78 (40)	8 (4)	59 (31)	7 (4)	27 (38)	8 (11)	23 (38)	2 (3)
	72 (37)	1 (1)	45 (24)	0 ´	21 (29)	Õ	16 (26)	0 ´
	70 (36)	12 (6)	51 (27)	8 (4)	28 (39)	8 (11)	18 (30)	1 (2)

• SG was favored (ie, had significantly longer time to deterioration [TTD]) over TPC for fatigue (P = .021) in the < 65 years subgroup (Table 4) • SG was also numerically favored over TPC for global health status/QoL in both age subgroups and for pain score in the \geq 65 years subgroup (Table 4)

• Patients with relative dose intensity (RDI) > 90% in the < 65 years subgroup experienced numerically higher median PFS, median OS, ORR, and CBR than patients with lower RDI (Table 5)

— Patients in the \geq 65-year subgroup also experienced PFS benefit in RDI > 90% vs lower RDI