Randomized Study of Domvanalimab Combined With Zimberelimab in Front-Line, PD-L1–High, Locally Advanced or Metastatic Non-Small Cell Lung Cancer (NSCLC): Results From ARC-10 Part 1

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Objective

• To investigate the efficacy and safety of domvanalimab and zimberelimab combination therapy in front-line, PD-L1-high, stage IIIB-IV non-small cell lung cancer (NSCLC)

Conclusions

- Combination of domvanalimab, an Fc-silent anti-TIGIT antibody, plus zimberelimab, an anti-PD-1 antibody, was associated with greater progression-free survival, overall survival, and objective response rate compared with zimberelimab monotherapy and chemotherapy in front-line, PD-L1-high, stage IIIB-IV NSCLC
- Domvanalimab plus zimberelimab was generally well tolerated, and the addition of domvanalimab to zimberelimab did not show any new safety concerns
- Ongoing phase 3 studies are evaluating domvanalimab in combination with zimberelimab and chemotherapy in NSCLC and upper gastrointestinal adenocarcinoma, as well as domvanalimab in combination with durvalumab in localized unresectable NSCLC

Introduction

- Although targeted inhibition of the PD-1/PD-L1 pathway has demonstrated survival benefits over chemotherapy (chemo) in PD-L1-high non-small cell lung cancer (NSCLC),¹ many patients do not respond to monotherapy or develop resistance to treatment over time²
- Novel immunotherapy combinations are needed to improve outcomes in PD-L1-high NSCLC
- TIGIT and PD-1 have distinct non-redundant functions in controlling anti-tumor immune response, and combined inhibition may lead to enhanced immune cell activation³
- Dual blockade of TIGIT and PD-1 with domvanalimab (dom), an Fc-silent anti-TIGIT monoclonal antibody, and zimberelimab (zim), an anti-PD-1 monoclonal antibody, has been associated with longer progression-free
- alone in patients with metastatic PD-L1–high NSCLC⁴
- immune-related toxicities
- combination therapy vs zim and also evaluated zim vs platinum-doublet chemo in front-line, PD-L1–high, stage IIIB–IV NSCLC
- ARC-10 was initiated and conducted as a randomized, phase 3 pembrolizumab (Part 2)
- Data are shown here for patients treated in Part 1 of the study

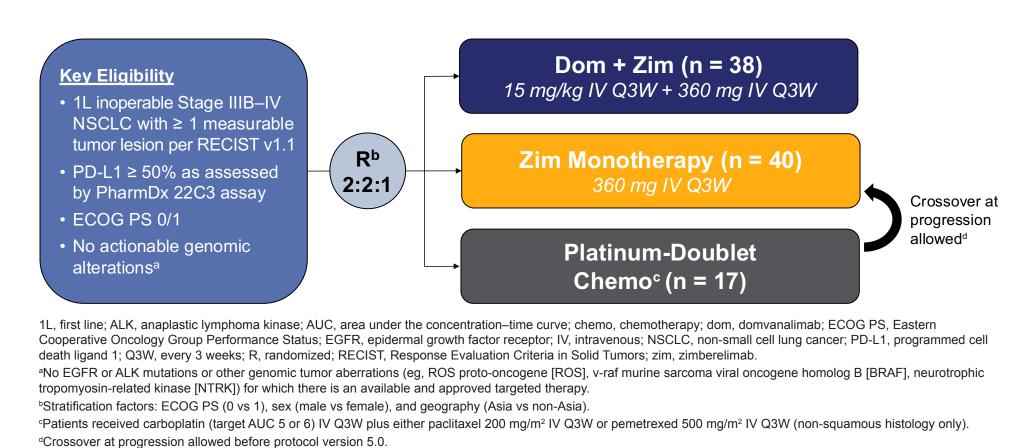
Methods

Study Design and Treatment

- ARC-10 is a global, multicenter, randomized, open-label trial (NCT04736173)
- Patients were randomized (2:2:1) to receive dom + zim combination therapy, zim monotherapy, or platinum-doublet chemo every 3 weeks (Figure 1)
- At the time of protocol development, platinum-doublet chemo was selected as the control arm in countries where anti-PD-(L)1 therapy was not yet the standard of care

• Tumor assessments were performed every 9 weeks

Figure 1. ARC-10 Part 1: Randomized, Open-Label Trial in Front-Line, PD-L1–High, Stage IIIB–IV NSCLC

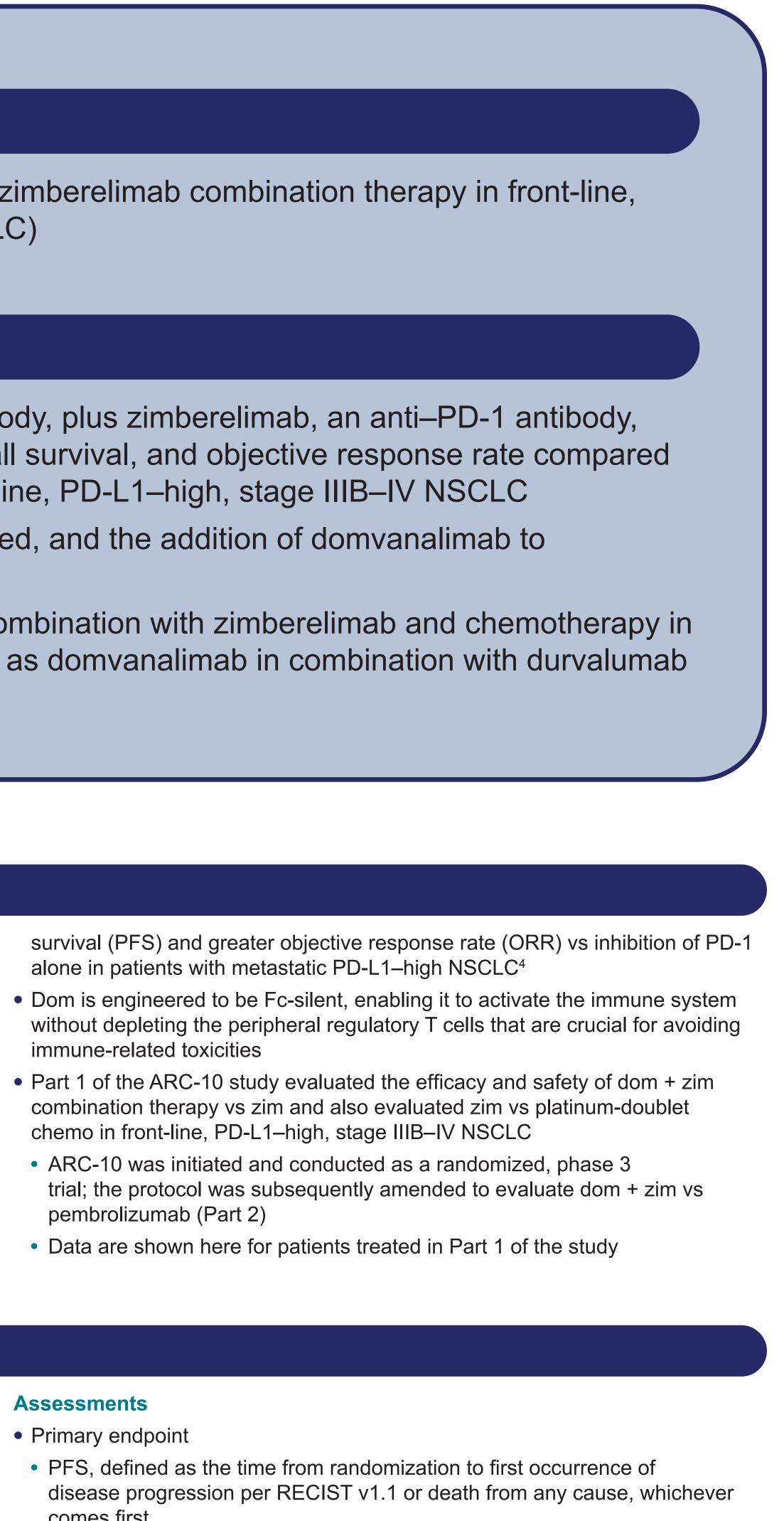


Assessment

- Primary endpoint
- PFS. defined as the time from randomization to first occurrence of comes first
- Secondary endpoints
- Overall survival (OS), defined as the time from randomization to death from any cause
- Confirmed investigator-assessed ORR, defined as the proportion of patients with a confirmed best overall response of complete or partial response per RECIST v1.1 Safety
- Exploratory endpoint
- Duration of response, defined as the time of first complete or partial response until disease progression or death, whichever comes first

Statistical Analysis

- PFS, OS, and duration of response were estimated by Kaplan-Meier methodoloav
- 95% Cls for ORR were calculated using the Clopper-Pearson exact method



Hazard ratios (HR) were estimated by Cox proportional hazards modeling

Results

Patients

- Of 98 randomized patients, 95 received treatment
- Most patients were male, Asian, former or current smokers, and had stage IV lung adenocarcinoma (Table 1)
- Median time from randomization to data cutoff (May 17, 2024) was 24.5 months (range: 16.8–38.5 months)
- 22 patients remained on front-line treatment (dom + zim, n = 11; zim, n = 10; chemo, n = 1)

Efficacy

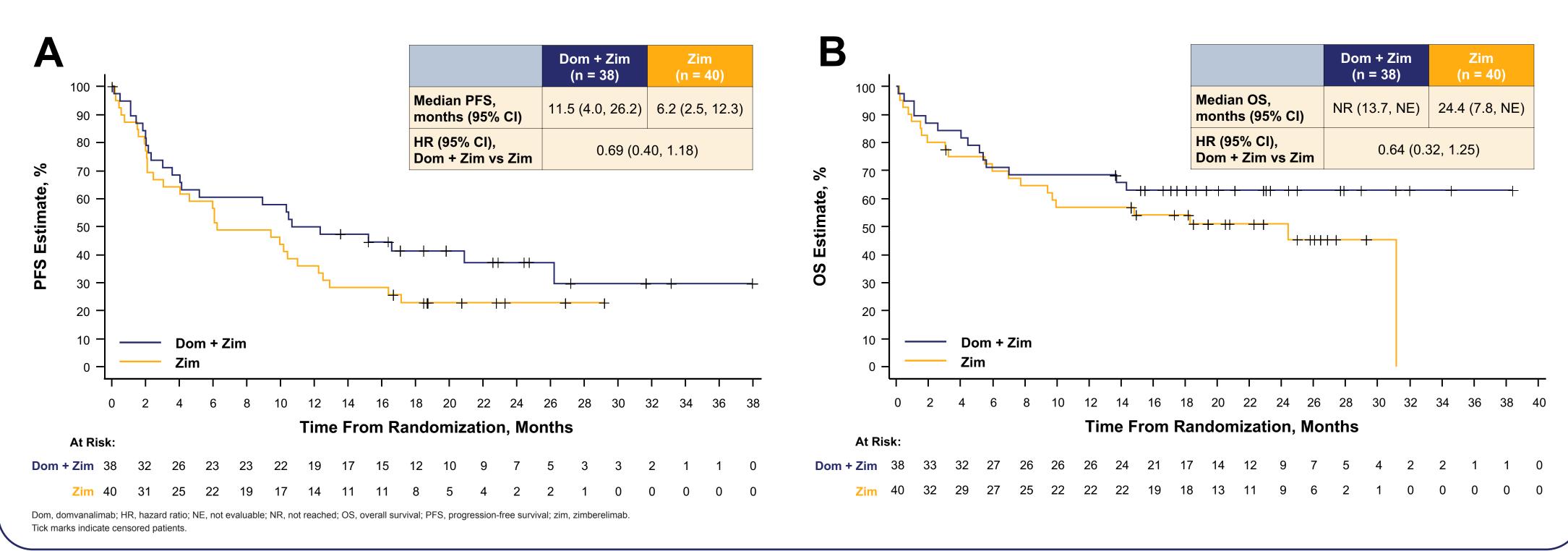
- PFS and OS were greater with dom + zim than with either zim or chemo (Table 2; Figure 2)
- OS was greater with zim than with chemo

Table 1. Baseline Characteristics

Dom + Zim $(n = 38)$	Zim (n = 40)	Chemo (n = 17)
(11 – 30)	(11 – 40)	(11 – 17)
62 5 (44 83)	62 5 (41 81)	61.0 (42, 82)
		10 (58.8)
	20 (02.0)	10 (00.0)
30 (78.9)	29 (72 5)	13 (76.5)
	, , , , , , , , , , , , , , , , , , ,	4 (23.5)
0 (21.1)	11 (27.0)	+ (20.0)
33 (86.8)	31 (77 5)	14 (82.4)
		0
		0
		0
		3 (17.6)
1 (2.0)	1 (2.0)	0 (17.0)
7 (18 4)	7 (17 5)	2 (11.8)
		10 (58.8)
		5 (29.4)
		10 (58.8)
	01 (11.0)	10 (00.0)
21 (55 3)	23 (57 5)	11 (64.7)
		4 (23.5)
		2 (11.8)
3 (13.2)	1 (2.0)	2 (11.0)
4 (10 5)	5 (12 5)	3 (17.6)
		2 (11.8)
		9 (52.9)
		3 (17.6)
		0 (17.0)
9 (23 7)	13 (32 5)	2 (11.8)
		2 (11.8)
87.5 (50, 100)	85.0 (60, 100)	90.0 (60, 100)
_	$(n = 38)$ $62.5 (44, 83) \\ 20 (52.6)$ $30 (78.9) \\ 8 (21.1)$ $33 (86.8) \\ 0 \\ 3 (7.9) \\ 1 (2.6) \\ 1 (2.6) \\ 1 (2.6) \\ 1 (2.6) \\ 1 (2.6)$ $7 (18.4) \\ 23 (60.5) \\ 8 (21.1) \\ 27 (71.1)$ $21 (55.3) \\ 12 (31.6) \\ 5 (13.2)$ $4 (10.5) \\ 3 (7.9) \\ 14 (36.8) \\ 17 (44.7)$ $9 (23.7) \\ 9 (23.7)$	(n = 38) $(n = 40)$ $62.5 (44, 83)$ $62.5 (41, 81)$ $20 (52.6)$ $25 (62.5)$ $30 (78.9)$ $29 (72.5)$ $8 (21.1)$ $11 (27.5)$ $33 (86.8)$ $31 (77.5)$ 0 $3 (7.5)$ $3 (7.9)$ $3 (7.5)$ $1 (2.6)$ $2 (5.0)$ $1 (2.6)$ $2 (5.0)$ $1 (2.6)$ $2 (5.0)$ $1 (2.6)$ $2 (5.0)$ $1 (2.6)$ $2 (5.0)$ $1 (2.6)$ $2 (5.0)$ $23 (60.5)$ $22 (55.0)$ $8 (21.1)$ $11 (27.5)$ $27 (71.1)$ $31 (77.5)$ $21 (55.3)$ $23 (57.5)$ $12 (31.6)$ $16 (40.0)$ $5 (13.2)$ $1 (2.5)$ $4 (10.5)$ $5 (12.5)$ $3 (7.9)$ $1 (2.5)$ $14 (36.8)$ $18 (45.0)$ $17 (44.7)$ $16 (40.0)$ $9 (23.7)$ $13 (32.5)$ $9 (23.7)$ $12 (5.5)$

AJCC, American Joint Committee on Cancer; chemo, chemotherapy; dom, domvanalimab; ECOG PS, Eastern Cooperative Oncology Group Performance Status; PD-L1, programmed cell death ligand 1; TPS, tumor proportion score; zim, zimberelimab.

Figure 2. (A) PFS and (B) OS Were Greater With Dom + Zim Combination Therapy vs Zim Monotherapy

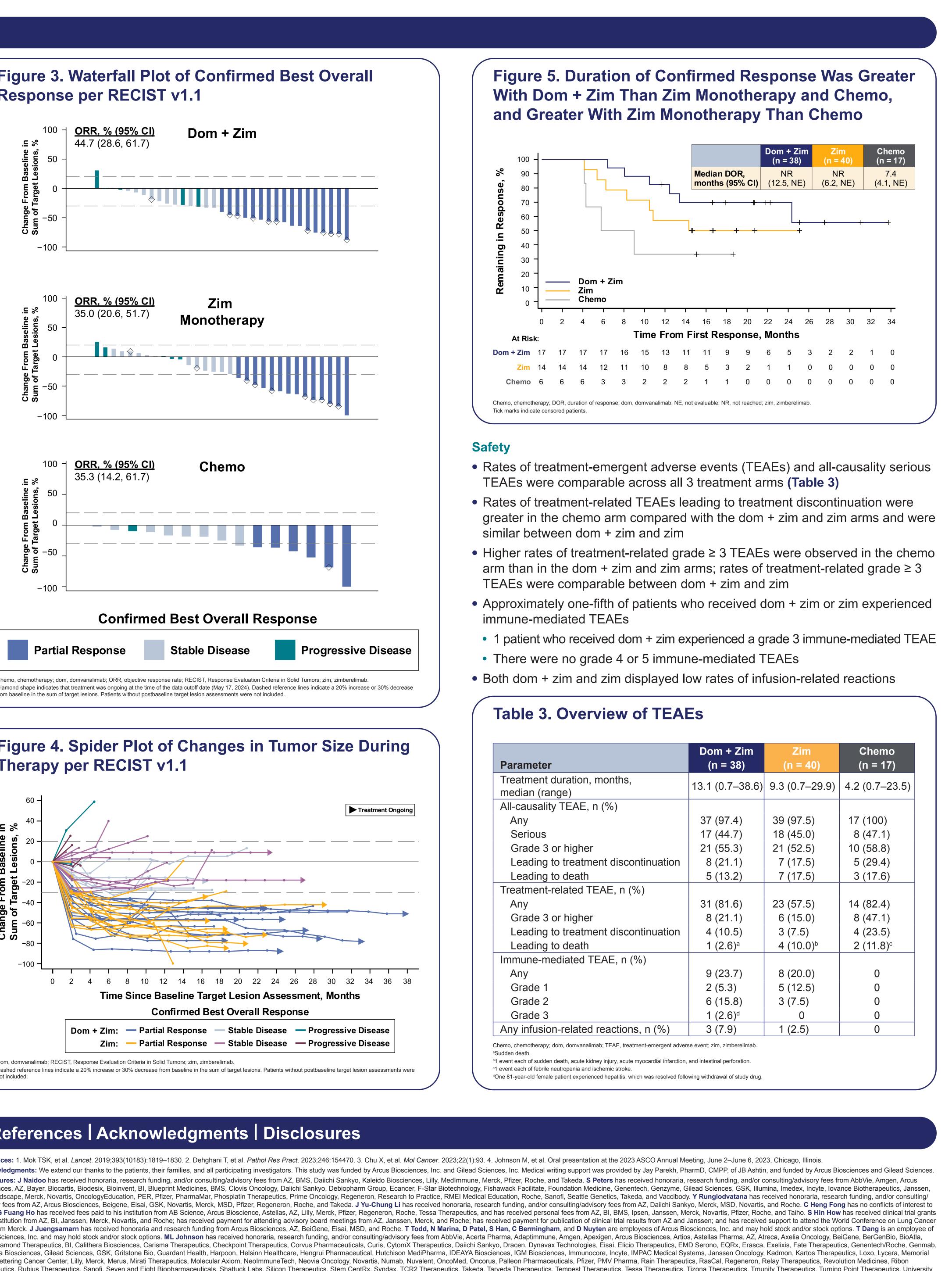


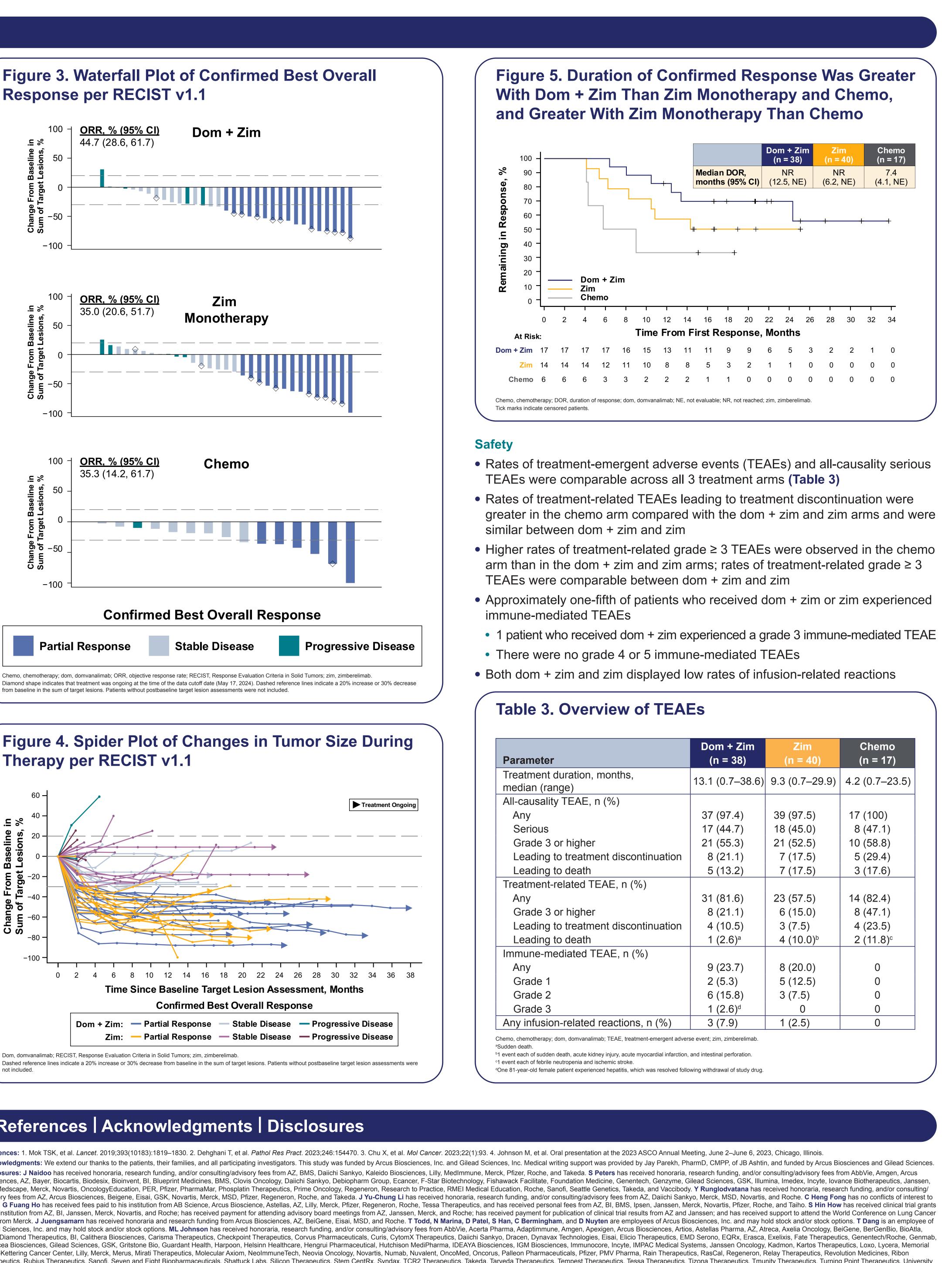
Presented at the SITC 2024 Annual Meeting, November 8–10, 2024, Houston, Texas

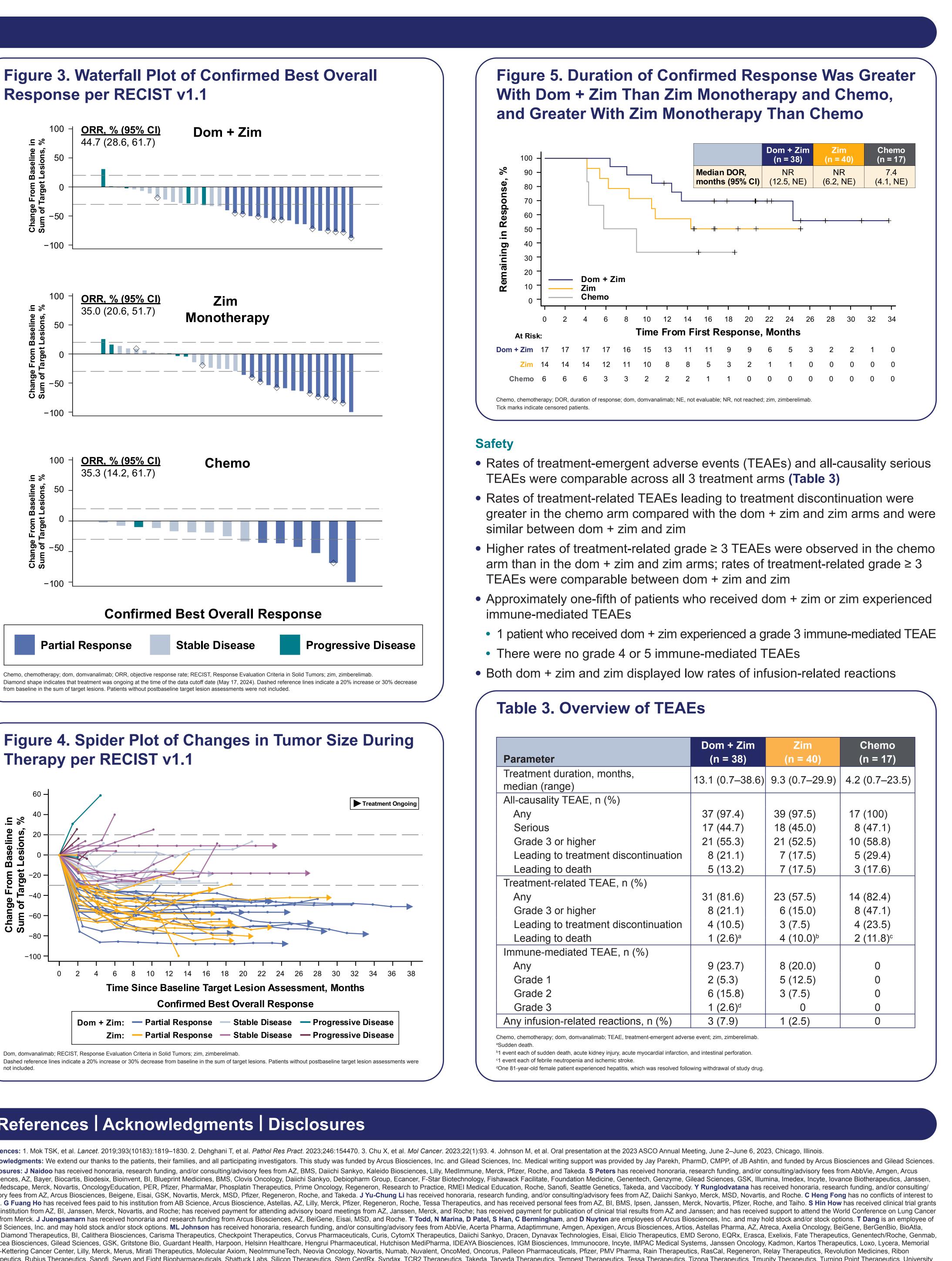
- Median OS was not reached for dom + zim
- 12-month OS rates were 68%, 57%, and 50% for the dom + zim, zim, and chemo arms, respectively
- OS favored dom + zim over zim in patients with a PD-L1 tumor proportion score of 50%–89% (HR, 0.67 [95% CI: 0.28, 1.61]) and ≥ 90% (HR, 0.64 [95% CI: 0.21, 1.90])
- Among patients with brain metastases at baseline, the risk of death was lower for dom + zim compared with zim (HR, 0.52 [95% CI: 0.14, 1.95])
- ORR was greater for dom + zim than for either zim or chemo (Figure 3)
- By month 4.5, the majority of patients treated with dom + zim or zim had tumor reduction of \geq 30% from baseline (Figure 4)
- Median duration of response was not reached in the dom + zim and zim arms and was 7.4 (95% CI: 4.1, not evaluable) months in the chemo arm (Figure 5)

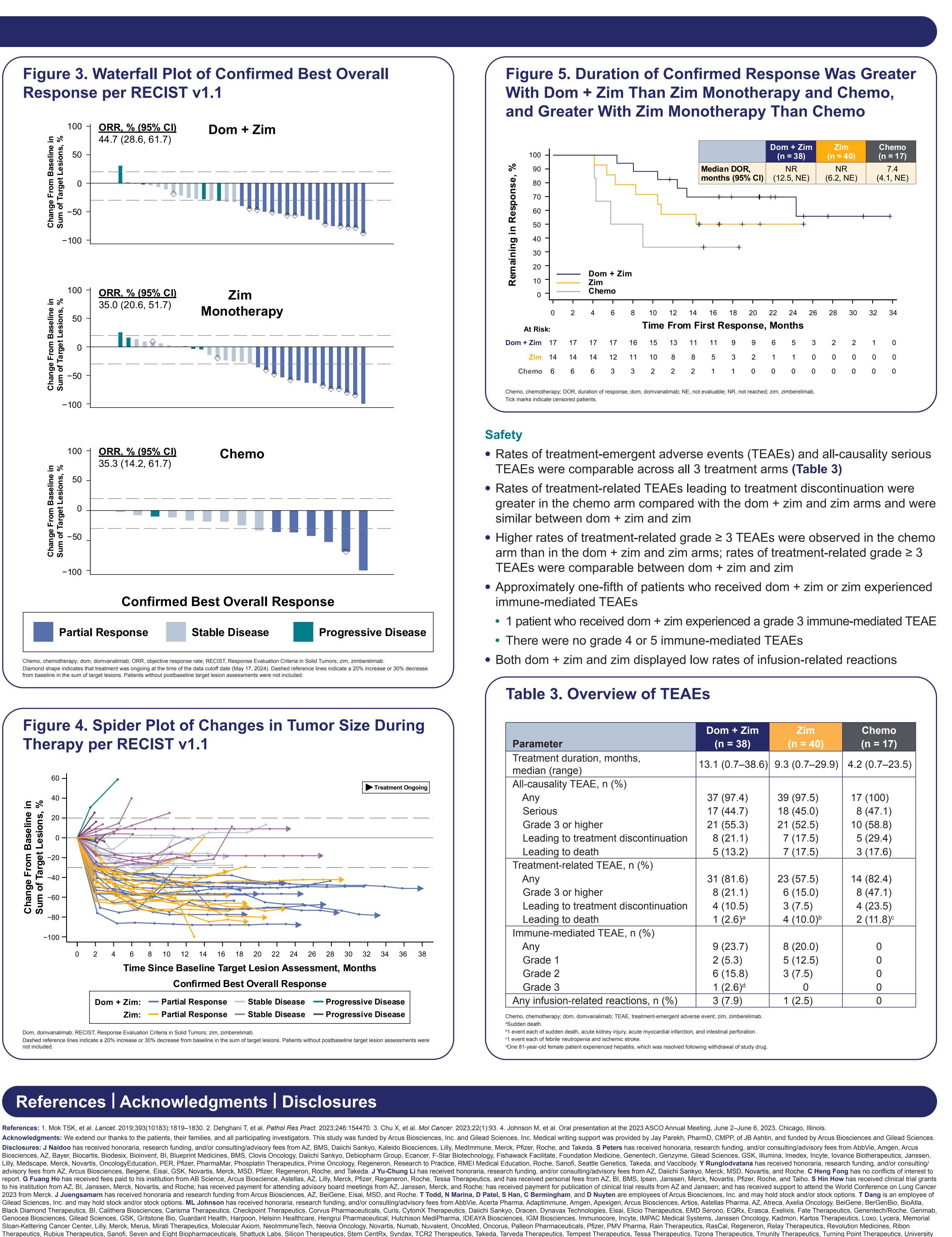
Table 2. Summary of Efficacy Endpoints

Endpoint	Dom + Zim (n = 38)	Zim (n = 40)	Chemo (n = 17)
PFS			
Median, months (95% CI)	11.5 (4.0, 26.2)	6.2 (2.5, 12.3)	9.6 (2.6, 16.4)
Events, n (%)	24 (63.2%)	30 (75.0%)	13 (76.5%)
HR (95% CI)			
Zim vs chemo		1.07 (0.56, 2.05)	
Dom + zim vs zim	0.69 (0.40, 1.18)	—	
Dom + zim vs chemo	0.69 (0.35, 1.38)	—	
OS			
Median, months (95% CI)	NR (13.7, NE)	24.4 (7.8, NE)	11.9 (2.7, NE)
Events, n (%)	14 (36.8%)	21 (52.5%)	12 (70.6%)
HR (95% CI)			
Zim vs chemo		0.63 (0.30, 1.29)	
Dom + zim vs zim	0.64 (0.32, 1.25)	—	
Dom + zim vs chemo	0.43 (0.20, 0.93)	—	
Confirmed ORR			
n (%)	17 (44.7%)	14 (35.0%)	6 (35.3%)
[95% CI]	[28.6, 61.7]	[20.6, 51.7]	[14.2, 61.7]
Duration of confirmed response ^a			
Median, months (95% CI)	NR (12.5, NE)	NR (6.2, NE)	7.4 (4.1, NE)
Events, n (%)	6 (35.3%)	7 (50.0%)	4 (66.7%)
HR (95% CI)			
Zim vs chemo		0.52 (0.15, 1.80)	_
Dom + zim vs zim	0.54 (0.18, 1.64)		_
Dom + zim vs chemo	0.25 (0.07, 0.96)		—









of Michigan, VBL Therapeutics, Vyriad, and Y-mAbs Therapeutics.