



Ovarian <sup>b</sup>	1 (17)	2 (33)	2 (33)	9 (69) <sup>e</sup>	7 (64)	2 (22)	3 (50)	1 (17)	4 (67)	2 (29)	4 (67)	13 (72)	12 (71)	13 (72)	16 (100)	15 (100)	16 (100)	15 (100)
Breast	0	0	1 (17)	4 (31)	4 (36)	3 (33)	2 (33)	3 (50)	2 (33)	3 (43)	2 (33)	5 (28)	5 (29)	5 (28)	0	0	0	0
Colorectal	3 (50)	1 (17)	0	0	0	3 (33)	0	0	0	0	0	0	0	0	0	0	0	0
Pancreas	0	0	0	0	0	1 (11)	0	0	0	0	0	0	0	0	0	0	0	0
Lung	1 (17)	1 (17)	1 (17)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Prostate	0	1 (17)	0	0	0	0	0	1 (17)	0	0	0	0	0	0	0	0	0	0
Other	1 (17)	1 (17)	2 (33)	0	0	0	1 (17)	1 (17)	0	2 (29)	0	0	0	0	0	0	0	0
Prior chemotherapy regimes, <i>n</i> (%)																		
0	0	2 (33)	1 (17)	0	0	0	0	1 (17)	0	1 (14)	0	0	0	1 (6)	0	0	0	0
1	2 (33)	1 (17)	2 (33)	0	2 (18)	0	1 (17)	0	0	1 (14)	2 (33)	1 (6)	2 (12)	3 (17)	2 (13)	1 (7)	1 (6)	2 (13)
2	0	2 (33)	0	2 (15)	3 (27)	3 (33)	2 (33)	1 (17)	2 (33)	3 (43)	0	2 (11)	1 (6)	4 (22)	2 (13)	1 (7)	2 (13.5)	5 (33)
3	0	0	2 (33)	2 (15)	3 (27)	1 (11)	2 (33)	1 (17)	0	1 (14)	2 (33)	3 (17)	8 (47)	3 (17)	5 (31)	6 (40)	3 (19)	4 (27)
4	0	0	0	2 (15)	0	2 (22)	0	0	3 (50)	1 (14)	0	5 (28)	1 (6)	5 (28)	5 (31)	3 (20)	5 (31)	2 (13)
≥5	4 (67)	1 (17)	1 (17)	7 (54)	3 (27)	3 (33)	1 (17)	3 (50)	1 (17)	0	2 (33)	7 (39)	3 (18)	2 (11)	2 (13)	4 (27)	5 (31)	2 (13)
Median	5	2	2	6	3	4	3	4	4	2	3	4	3	3	3	3	4	3
<i>BRCA</i> mutation status, <i>n</i> (%)																		
<i>BRCA1/2m</i>	NC	NC	NC	13 (100)	10 (91)	NC	NC	NC	NC	NC	NC	18 (100)	17 (100)	18 (100)	16 (100)	15 (100)	16 (100)	15 (100)
Negative				0	0							0	0	0	0	0	0	0
Unknown				0	1 (9)							0	0	0	0	0	0	0
Baseline haemoglobin CTCAE grade, <sup>c</sup> <i>n</i> (%)	CSP (400 mg BD CAP)																	
0		9 (53)		7 (58)	9 (82)	4 (57)	5 (83)	3 (50)	4 (67)	3 (50)	3 (50)	6 (33)	8 (47)	12 (67)	11 (69)	11 (73)	13 (81)	10 (67)
1		8 (47)		5 (42)	2 (18)	3 (43)	1 (17)	3 (50)	2 (33)	3 (50)	3 (50)	10 (56)	6 (35)	6 (33)	5 (31)	4 (27)	3 (19)	5 (33)
2		0		0	0	0	0	0	0	0	0	2 (11)	3 (18)	0	0	0	0	0

Patient demographic and baseline characteristic for ovarian cancer patients included in efficacy analyses											
Ovarian cancer patients only		8 (62) <sup>e</sup>	7 (64)		13 (72)	12 (71)	13 (72)	16 (100)	15 (100)	16 (100)	15 (100)
Platinum-sensitivity, <sup>d</sup> n (%)											
Sensitive		NC	NC		3 (23)	6 (50)	7 (54)	6 (38)	4 (27)	5 (31)	9 (60)
Resistant					7 (54)	5 (42)	6 (46)	10 (63)	11 (73)	11 (69)	6 (40)
No prior plat					1 (8)	0	0	0	0	0	0
Unknown					2 (15)	1 (8)	0	0	0	0	0
<i>BRCA</i> mutation status, n (%)											
<i>BRCA</i> 1/2m		8 (100)	7 (100)		13 (100)	12 (100)	13 (100)	16 (100)	15 (100)	16 (100)	15 (100)
Negative		0	0		0	0	0	0	0	0	0
Unknown		0	0		0	0	0	0	0	0	0

(%), percentage of patients treated with olaparib; NC, data not collected; PKP, pharmacokinetic phase

<sup>a</sup>Used to directly compare steady-state CAP and TAB PK; <sup>b</sup>Includes patients with primary peritoneal or fallopian tube tumour; <sup>c</sup>Patients with a baseline value and at least one on-treatment value; percentages have been calculated using the number of patients at baseline; <sup>d</sup>Assessed by the investigator; <sup>e</sup>One patient was mis-stratified as having a primary tumour location of breast cancer, when this should have been stratified as ovarian cancer. This patient was excluded from the ovarian cancer subset as this was based on randomisation stratification data but included as ovarian cancer in summaries of primary tumour location

**Table 2. Steady-state PK parameters (day 29) for olaparib following multiple dosing with TAB and CAP during the efficacy expansion phase of groups 1 and 6**

	Olaparib CAP and TAB dose during the dose-expansion phase				
	Dose expansion 1 (group 1)		Dose expansion 2 (group 6)		
	200 mg BD TAB	400 mg BD CAP	300 mg BD TAB	400 mg BD TAB	400 mg BD CAP
Day 29 <sup>a</sup>	(n = 11)	(n = 10)	(n = 17)	(n = 10)	(n = 17)
C <sub>max,ss</sub> , µg/mL	6.88 (4.01–10.4)	5.70 (2.38–10.9)	9.37 (2.28–14.7)	12.0 (8.45–16.9)	6.36 (3.88–13.3)
C <sub>min,ss</sub> , µg/mL	1.00 (0.28–3.10)	1.86 (0.53–6.67)	1.84 (0.34–3.83)	2.01 (0.76–3.61)	1.04 (0.23–8.49)
AUC <sub>0–12,ss</sub> , µg·h/mL	36.1 (16.0–69.0)	43.1 (18.1–98.6)	58.4 (23.1–96.0)	72.8 (44.8–106)	41.5 (18.7–147)

<sup>a</sup>Only subjects remaining on the starting dose at day 29 were included in the summary statistics. All data expressed as gmean (range)

**Table 3. Summary of actual treatment exposure and AEs of grade  $\geq 3$  (occurring in more than one patient) in the dose-expansion phase for groups 1 (200 mg TAB and 400 mg CAP) and 6 and dose-escalation groups 3, 4, 5, 5.1 and 5.2**

	Group 1		Group 3	Group 4	Group 5	Group 5.1	Group 5.2	Group 6		
	200 mg BD	400 mg BD	250 mg BD	300 mg BD	350 mg BD	400 mg BD	450 mg BD	300 mg BD	400 mg BD	400 mg BD
	TAB	CAP	TAB	TAB	TAB	TAB	TAB	TAB	TAB	CAP
	<i>n</i> = 13	<i>n</i> = 11	<i>n</i> = 6	<i>n</i> = 6	<i>n</i> = 6	<i>n</i> = 6	<i>n</i> = 6	<i>n</i> = 18	<i>n</i> = 17	<i>n</i> = 18
<b>Actual olaparib</b>										
<b>treatment</b>	114	193	249.5	326.5	115.5	110.5	207	135	166	178
<b>exposure, days,</b>	(0–844)	(34–416)	(22–551)	(50–491)	(8–380)	(44–196)	(57–240)	(53–281)	(17–281)	(62–277)
<b>median (range)</b>										
<b>Any Grade <math>\geq 3</math> AE, <i>n</i> (%)</b>	5 (39)	2 (18)	1 (17)	4 (67)	2 (33)	5 (83)	4 (67)	11 (61)	10 (59)	7 (39)
<b>Blood and lymphatic system disorders</b>										
Anaemia	0	0	0	2 (33)	1 (17)	1 (17)	3 (50)	4 (22)	5 (30)	4 (22)
Neutropenia	0	0	0	0	0	1 (17)	1 (17)	2 (11)	0	1 (6)
Thrombocytopenia	0	0	0	0	0	0	1 (17)	0	3 (18)	0
<b>Gastrointestinal disorders</b>										
Abdominal pain	1 (8)	0	0	0	0	1 (17)	0	2 (11)	0	0
Diarrhoea	0	1 (9)	0	0	0	0	0	2 (11)	0	0
Nausea	1 (8)	1 (9)	0	0	0	0	0	0	2 (12)	0
Vomiting	1 (8)	1 (9)	0	0	0	0	0	0	0	1 (6)
<b>General disorders</b>										
Oedema										
peripheral	0	1 (9)	0	0	0	0	0	0	0	0
Fatigue	5 (39)	1 (9)	0	0	0	2 (33)	0	3 (17)	2 (12)	0

Non-cardiac chest pain	1 (8)	0	0	0	0	0	0	0	0	0	
<b>Metabolism and nutritional disorders</b>											
Decreased appetite	1 (8)	0	0	0	0	0	0	0	0	0	
<b>Musculoskeletal disorders</b>											
Back pain	1 (8)	0	0	0	0	0	0	0	0	0	
Musculoskeletal pain	0	0	0	0	0	0	0	0	1 (6)	0	
<b>Respiratory, thoracic and mediastinal disorders</b>											
Dyspnoea	1 (8)	1 (9)	0	0	0	0	1 (17)	0	1 (6)	0	

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**Table 4. Summary of actual treatment exposure and number (%) of patients who had at least one AE of any grade (occurring in more than three patients in any treatment group) and AEs of grade  $\geq 3$  (occurring in more than one patient) in group 8 (expansion phase, alternative dosing schedules)**

Olaparib randomized tablet formulation for group 8								
		200 mg TID TAB cont	250 mg TID TAB inter (2 weeks on, 1 week off)	400 mg BD TAB inter (1 week on, 1 week off)	400 mg OD TAB cont			
		<i>n</i> =16	<i>n</i> =15	<i>n</i> =16	<i>n</i> =15			
<b>Actual olaparib treatment exposure, median (range)</b>								
		164 (4–390)	221 (5–413)	271 (58–366)	211 (26–463)			
AE, <i>n</i> (%)	All grades	Grade $\geq 3$	All grades	Grade $\geq 3$	All grades	Grade $\geq 3$	All grades	Grade $\geq 3$
Any AE	15 (94)	6 (38)	15 (100)	7 (47)	16 (100)	6 (38)	14 (93)	5 (33)
<b>Blood and lymphatic system disorders</b>								
Anaemia	3 (19)	1 (6)	5 (33)	3 (20)	1 (6)	0	3 (20)	1 (7)
Thrombocytopenia	0	0	2 (13)	2 (13)	0	0	0	0
<b>Gastrointestinal disorders</b>								

Abdominal pain	3 (19)	0	4 (27)	1 (7)	6 (38)	1 (6)	3 (20)	2 (13)
Constipation	2 (13)	0	6 (40)	0	6 (38)	0	7 (47)	0
Diarrhoea	2 (13)	1 (6)	2 (13)	0	9 (56)	1 (6)	3 (20)	0
Nausea	13 (81)	0	12 (80)	1 (7)	13 (81)	2 (13)	10 (67)	0
<b>Small intestinal</b>								
obstruction	0	0	1 (7)	0	0	0	2 (13)	2 (13)
Vomiting	8 (50)	1 (6)	10 (67)	1 (7)	12 (75)	3 (19)	6 (40)	1 (7)
<b>General disorders</b>								
Fatigue	8 (50)	2 (13)	8 (53)	0	10 (63)	1 (6)	10 (67)	0
<b>Gamma-</b>								
<b>glutamyltransferase</b>								
increased	0	0	0	0	0	0	2 (13)	2 (13)
<b>Infections</b>								
Urinary tract infection	0	0	0	0	2 (13)	0	4 (27)	0
<b>Metabolism and nutritional disorders</b>								
Decreased appetite	4 (25)	1 (6)	6 (40)	0	5 (31)	0	5 (33)	0



**Musculoskeletal disorders**

Arthralgia	2 (13)	0	0	0	4 (25)	0	3 (20)	0
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**Nervous system disorders**

Dysgeusia	5 (31)	0	2 (13)	0	4 (25)	0	0	0
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**Respiratory, thoracic and mediastinal disorders**

Cough	1 (6)	0	1 (7)	0	3 (19)	0	4 (27)	0
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Dyspnoea	0	0	2 (13)	0	4 (25)	0	1 (7)	0
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**Table 5. Analysis of percentage change in tumour size at week 8 and week 16 – dose-expansion group 1 and group 6 – patients with ovarian cancer**

	Group 1		Group 6		
	200 mg BD TAB (n=8)	400 mg BD CAP (n=7)	300 mg BD TAB (n=13)	400 mg BD CAP (n=13)	400 mg BD TAB (n=12)
<b>Week 8</b>					
Unadjusted mean	-3.7%	-12.4%	-16.8%	-17.0%	-28.7%
LS mean <sup>a</sup>	-3.7%	-12.4%	-16.1%	-17.9%	-28.4%
<b>Treatment effect<sup>a</sup></b>					
Difference in LS means	8.6%		1.8%		-10.5%
80% CI	-10.7, 28.0		-14.0, 17.6		-26.6, 5.6
95% CI	-22.5, 39.8		-22.8, 26.4		-35.5, 14.6
Two-sided <i>P</i> value	0.557		0.881		0.401
One-sided 80% UCL	21.1		12.1		0.0
<b>Week 16</b>					

Unadjusted mean	2.0%	-15.3%	-11.5%	-16.3%	-26.6%
LS mean <sup>a</sup>	1.9%	-15.2%	-10.6%	-17.6%	-26.2%
<b>Treatment effect<sup>a</sup></b>					
Difference in LS means	17.1%		7.0%		-8.6%
80% CI	-9.8, 44.1		-16.1, 30.0		-32.1, 14.9
95% CI	-26.2, 60.5		-28.9, 42.8		-45.1, 28.0
Two-sided <i>P</i> value	0.406		0.696		0.637
One-sided 80% UCL	34.5		22.0		6.8

CI, confidence interval; LS, least squares; UCL, upper confidence limit. <sup>a</sup>Adjusted for baseline tumour size

**Table 6. Analysis of percentage change in tumour size at week 8 and week 16 – randomized dose-expansion groups 1 and 6, and group 8 – patients with ovarian cancer**

	Group 1 and 6		Group 8		
	400 mg BD CAP cont (n=20)	200 mg TID TAB cont (n=15)	250 mg TID TAB inter (2 weeks on, 1 week off) (n=14)	400 mg BD TAB inter (1 week on, 1 week off) (n=16)	400 mg OD TAB cont (n=15)
<b>Week 8</b>					
Unadjusted mean	-15.4%	-17.8%	-5.1%	-15.8%	-9.0%
LS mean	-19.35%	-16.4%	-5.4%	-14.8%	-3.4%
Treatment effect versus 400 mg BD CAP <sup>a</sup>					
Difference in LS means		2.91%	13.9%	4.6%	15.9%
80% CI		-9.1, 14.9	1.2, 26.7	-7.6, 16.8	3.6, 28.3
95% CI		-15.6, 21.4	-5.7, 33.6	-14.1, 23.4	-3.1, 34.9
Two-sided <i>P</i> value		0.756	0.162	0.627	0.099

One-sided 80% UCL		10.8	22.3	12.6	24.0
<b>Week 16</b>					
Unadjusted mean	-15.9%	-12.8%	-7.2%	-14.4%	-11.3%
LS mean	-19.7%	-10.6%	-9.1%	-14.3%	-3.3%
Treatment effect versus 400 mg BD CAP <sup>a</sup>					
Difference in LS means		9.1%	10.6%	5.4%	16.4%
80% CI		-8.5, 26.7	-8.0, 29.2	-12.5, 23.2	-1.7, 34.4
95% CI		-18.0, 36.2	-18.1, 39.3	-22.1, 32.8	-11.4, 44.1
Two-sided <i>P</i> value		0.507	0.465	0.699	0.245
One-sided 80% UCL		20.6	22.8	17.0	28.2

<sup>a</sup>Data from the 400 mg BD capsule arm from ovarian cancer patients in groups 1 and 6 have been combined to use as a comparator in analyses.

Analysis for group 8 was performed using an analysis of covariance with factors for treatment group, baseline sum of target lesions, prior platinum chemotherapy status, number of prior chemotherapy regimens and whether there was peritoneal involvement at baseline

