## Planned withdrawal of dexamethasone after pomalidomide low-dose dexamethasone induction for lenalidomide-refractory multiple myeloma (ALLG MM14)

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## Supplementary files

- Supplementary Table 1. Mass cytometry antibodies (Clone and Tag)
- Supplementary Table 2. All grade adverse events >20% incidence (CTCAE version 4.0) plus AEs of interest (infections and haematologic) regardless of causality
- Supplementary Figure 1. Post progression therapy

**Supplementary Table 1. Mass cytometry antibodies (Clone and Tag)** Cells were barcoded using the Cell-ID 20-Plex Pd barcoding kit (Fluidigm) followed by staining with sub-set defining antibodies (targeting myeloid, B, T and NK cells). Samples were acquired on a Helios mass cytometer (Fluidigm) instrument.

NO	Antibody	Clone	Тад	
1	Anti-Human CD8	RPA-T8	PA-T8 115In	
2	Anti-Human CD24	ML5	161Dy	
3	Anti-Human CD335 NKp46	9E2 FG	141Pr	
4	Anti-Human CD194 (CCR4)	L291H4	150Nd	
5	Anti-Human CD158b (KIRDL2/L3, NKAT2)	DX27	DX27 173Yb	
6	Anti-Human CD197 (CCR7)	G043H7	175Lu	
7	Anti-Human CD158a(KIR2DL1)	LS-C16155	156Gd	
8	Anti-Human CD336	p44-8	168Er	
9	Anti-Human CD159a	Z199	165HO	
10	Anti-Human IgD	IA6-2	146Nd	
11	Anti-Human CD19	HIB19	142Nd	
12	Anti-Human CD4	RPA-T4	145Nd	
13	Anti-Human CD20	2H7 171Yb		
14	Anti-Human CD16	3G8	209Bi	
15	Anti-Human CD127	A019D5	176Yb	
16	Anti-Human CD38	HIT2	167Er	
17	Anti-Human CD25	2A3	149Sm	
18	Anti-Human CD3	UCHT1 154Sm		
19	Anti-Human CD56	B159 155Gd		
20	Anti-Human CD57	HCD57	163Dy	

21	Anti-Human CD28	CD28.2	160Gd	
22	Anti-Human CD11c	Bu15	162Dy	
23	Anti-Human CD27	L128	158Gd	
24	Anti-Human CD45RA	HI100	143Nd	
25	Anti-Human CD304/Neuropilin-1	12C2	169Tm	
26	Anti-Human CD14	M5E2	151Eu	
27	Anti-Human CD274/PD-L1	29E.2A3	148Nd	
28	Anti-Human CD45RO	UCHL1	164Dy	
29	Anti-Hu HLA-DR	L243	170Er	
30	Anti-Human CD66b	80H3	152Sm	
31	Anti-Human CD314/NKG2D	ON72	166Er	
32	Anti-Human CD337/NKp30	Z25	159Tb	
33	Anti-Human CD279/PD-1	EH12.2H7	174Yb	
34	Anti-Human CD45	HI30 89Y		
35	Foxp3	PCH101	147SM	
36	Anti-Human CD11b/Mac-1	ICRF44	144Nd	

Supplementary Table 2. All grade adverse events >20% incidence (CTCAE version 4.0) plus AEs of

	POM LoDEX (n = 38)		POM (n = 40)		Excluded from mITT (n = 76)	
	All grades		All grades		All grades	
	n (%)	Grade 3+4	n (%)	Grade 3+4	n (%)	Grade 3+4
Adverse Event		1		1		
Fatigue	17 (44.7)	2	16 (40)	0	25 (32.9)	5
Musculoskeletal and connective						
tissue disorder - Other	14 (36.8)	1	7 (17.5)	0	4 (5.3)	0
Constipation	12 (31.6)	0	9 (22.5)	0	14 (18.4)	0
Dyspnoea	12 (31.6)	2	6 (15)	0	9 (11.8)	2
Peripheral sensory neuropathy	12 (31.6)	1	5 (12.5)	0	8 (10.5)	0
Diarrhea	11 (28.9)	2	6 (15)	0	9 (11.8)	1
Nausea	10 (26.3)	0	6 (15)	0	15 (19.7)	0
Pain	10 (26.3)	0	6 (15)	1	7 (9.2)	4
Back pain	9 (23.7)	1	4 (10)	1	5 (6.6)	2
Oedema (peripheral)	8 (21.1)	0	5 (12.5)	0	7 (9.2)	0
Infections						
Lung infection	21 (55.2)	9	9 (22.5)	4	13 (17.1)	8
Upper respiratory infection	18 (47.4)	4	12 (30)	0	7 (9.2)	0
Infections, Other	8 (21.1)	4	7 (17.5)	2	5 (6.6)	2
Skin infection	5 (13.2)	0	2 (5)	0	3 (3.9)	1
Urinary tract infection	3 (7.9)	1	4 (10)	4	3 (3.9)	0
Soft tissue infection	2 (5.3)	1	1 (2.5)	0		
Haematologic Toxicity		•		1		
Anaemia	14 (36.8)	4	9 (22.5)	3	32 (42.1)	17
Neutrophil count decreased	11 (28.9)	11	16 (40)	15	19 (25.0)	16
Febrile neutropenia	2 (5.3)	2	1 (2.5)	1	11 (14.5)	11
Thrombocytopenia	4 (10.5)	4	5 (12.5)	3	11 (14.5)	11

interest (infections and haematologic) regardless of causality

**Supplementary Figure 1.** Post progression therapy (Kaplan-Meier survivor functions): Of the mITT population (n=78), 39 patients had post progression therapy data available (POM n=21, POM-LoDEX n=18). Of the remainder, 18 were palliated and 21 did not have available data. (Noting that this is not a randomized comparison and should be interpreted in conjuction with results in Figure 1). (a) Median second PFS (defined from commencement of post progression therapy) significantly favoured patients previously treated in the POM arm: median 12.7m (IQR 6.7–17.2m) versus POM-LoDEX arm: median 4.6m (IQR 1.74–0.2m) (P=0.034) (Figure 2a). (b) Patients randomised to the POM arm also tended to have superior OS: median OS (from commencement of post progression therapy) for POM 19.4m (IQR 12.1m–NA) versus 12.5m (IQR 6.3–17.4m) for POM-LoDEX (P=0.092). There was no difference in response to salvage therapy between the two arms, and no difference in PFS/OS between individual treatment groups (bortezomib, carfilzomib, chemotherapy, thalidomide, LEN or other).

(a) Second PFS

(b) OS



