Scenario	Response	Response	VRS	/RS Total APEX sample			1-prior therapy sample			
	criterion	level	cycles	nRi (a)	pRi (b)	rOS_vi (c)	nRi (d)	pRi (e)	rOS_vi (f)	
5	M-protein	CR+PR	3							
6			4							
7		CR+PR+MR	3							
8			4							

pRi - represents the percent of responders after the ith cycle of all responders by end of APEX. rOS_vi — percent reduction in Velcade survival associated with implementing a stopping rule at the ith cycle.

 The absolute number of responders by the ith cycle, nRi, is lower in subgroup of patients with 1-prior therapy than in the overall APEX trial population; compare columns (a) and (d)
The percentage of responders after the th cycle of all responders in the sample, pRi, is not statistically different between the overall APEX trial sample population and the 1-prior therapy sample population; compare columns (b) and (e).
The effect on the percent reduction in Velcade survival there is changed by ≤1% in all scenarios; compare columns (c) and (f).

0.0%	0.0%
0.0%	0.0%

Scenario	Response	Response	Stopping	VRS	Total APEX sample			1-prior therapy sample			
	criterion	level	cycles	cycles	Inc. cost (a)	Inc QALY (b)	CE (c)	Inc. cost (d)	Inc QALY (e)	CE (f)	
5	M-protein	CR+PR		Not options							
6							Νοι οριιοπ	5			
7		CR+PR+MR	3	0	£21,733	8.2	£31,994	£21,576	7.9	£32,669	
8			4	0	£22,570	8.4	£32,316	£22,410	8.2	£32,991	
9			3	3	£19,177	8.2	£28,231	£19,020	7.9	£28,799	
10			4	4	£19,145	8.4	£27,417	£18,986	8.2	£27,950	

Inc. costs are lower < £200 in 1-prior therapy sample than total APEX sample; compare columns (a) and (d).
Inc. OALY is < 0.3 months lower in 1-prior therapy sample than total APEX sample; compare columns (b) and (e).
S. CE differs by < £700 between 1-prior therapy sample and total APEX sample; compare columns (c) and (f).

Full incremental CE analyses

Applying the VRS rule lowers costs without affecting OS and both are below £30,000.
Costs are lower with 4-cycle stopping rule than 3-cycle rule while inc. OS is higher.
Hence, scenario 10 dominants scenarios 7-9 in higher inc. OS and lower costs.

Effect of adding MR to response on TTP

 We modeled the effect of the stopping rule only on survival because the initial submission in 2006 considered life-years gained on CR+PR. For consistency sake, we did not change the computations to consider effect on TTP.

2. The effect on rOS_vi by adding MR is < 0.5% in the full sample and <2.5% in the 1-prior therapy sample.

3. The effect of a reduction of 0.5 - 2.5% on QALY is slight considering that the difference in utilities between TTP and post-progression is only 0.166, perhaps amounting to a change in QALY 56 ro Velcade of -0.1 to -0.2 months.