	PPs	EMPs	P value
	N= 230	N=26	
Gender (male), n (%)	133 (57.8%)	15 (57.6%)	
Age (years), median(range)			
ISS , n(%)*			
•	84 (50%)	8 (47%)	NS
• 11	47 (27.9%)	3 (17.6%)	NS
•	37 (22%)	6 (35%9	NS
Heavy chain type, n(%)			
• IgG	110 (47.8%)	14 (53.8%)	NS
• IgA	58 (25.2%)	7 (26.9%)	NS
Ligh chain	47 (20.4%)	3 (11.5%)	NS
• IgD	4 (1.7%)	-	NS
• IgM	2 (0.8%)	-	
Non- secretory	7 (3%)	1 (3.8%)	NS
Biclonal	2 (0.8%)	-	
Unknown		1 (3.8%)	
Ligh chain type, n (%)			
• Карра	129 (56%)	11 (42.3%9	NS
• Lambda	91 (39.5%)	12 (46.1%)	NS
Non-secretory	7 (3%)	1 (3.8%)	NS
Biclonal	2 (0.08%)	-	
Unknown	1 (0.04%)	2 (7.6%)	
Serum M-protein s (g/L)(mean±SD)	24.05±21.3	29.07±18.2	NS
Bone marrow plasma cells	31±28	31±35	NS
(%)(mean±SD)			

Supplementary table 1: Baseline characterisitics of the patients with PPs and EMPs

*Available in 185 patients

Supplementary table S2: Initial therapy in the overall series according to the presence or absence of Ps

	Patients without Ps	Patients with Ps	P value
	N=1048	N=256	
QT	728 (69.4%)	145 (56.6%)	<0.001
PI	134 (12.7%)	46 (17.9%)	0.03
IMiD	55 (5.2%)	15 (5.8%)	NS
PI+IMiD	106 (10.1%)	44 (17.1%)	0.001
MAb	13 (1.2%)	3 (1.1%)	NS

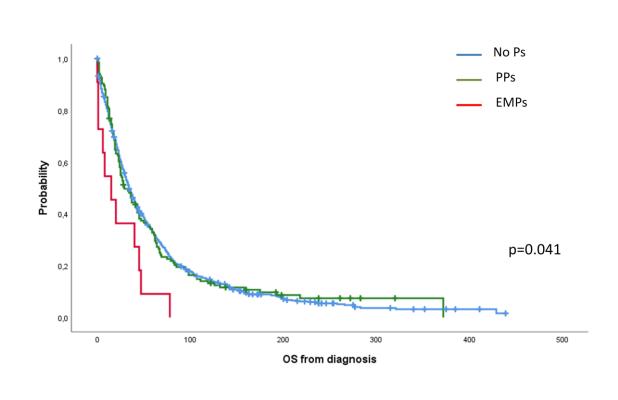
Supplementary table 3: detailled therapy at initial diagnosis in the overall series according to the presence or absence of Ps

	Patients	Patients with	P value
	without Ps	Ps	
	N=1048	N=256	
QT	728 (69.4%)	145 (56.6%)	<0.001
Melphalan/prednisone	285 (27.1%)	45 (17.5%)	
Cyclophosphamide/dexa or	120 (11.4%)	19 (7.4%)	
prednisone			
• VCMP/VBAP	106 (10.1%)	22 (8.5%)	
VBMCP/VBAD	103 (9.8%)	28 (10.9%)	
• VAD	26 (2.4%)	7 (2.7%)	
Others	88 (8.3%)	24 (9.3%)	
PI	134 (12.7%)	46 (17.9%)	0.03
Bortezomib/dexamethasone	67 (6.3%)	19 (7.4%)	
• MPV	36 (3.4%)	19 (7.4%)	
Others	31 (2.9%)	8 (3.1%)	
IMiD	55 (5.2%)	15 (5.8%)	NS
• Thal/dex	20 (1.9%)	10 (3.9%)	
• Len/dex	16 (1.5%)	5 (1.9%)	
LEn/dex/clarithromicyn	12 (1.1%)	-	
Others	5 (0.4%)		
PI+IMiD	106 (10.1%)	44 (17.1%)	0.001
• VTD	71 (6.7%)	30 (11.7%)	
• VRD	18 (1.7%)	8 (3.1%)	
• MPV/Rd	10 (0.9%)	3 (1.1%)	
Others	7 (0.6%)	3 (1.1%)	
MAb	13 (1.2%)	3 (1.1%)	NS
MPV-daratumumab	7 (0.6%)	2 (0.7%)	
Lena/dexa/elotuzumab	5 (0.4%)	1 (0.3%)	

Supplementary table 4: detailled therapy at first relapse in the overall series according to the presence or absence of Ps

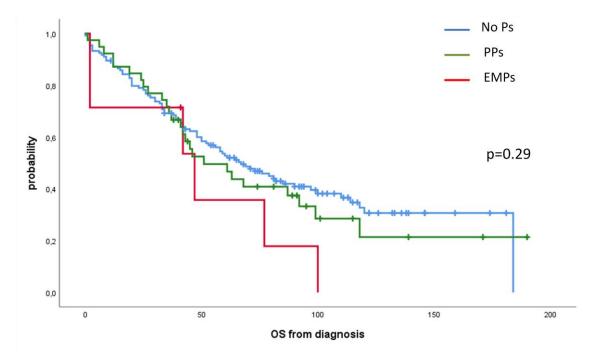
	Patients without Ps	Patients with Ps	P value
	N=775	N=192	
Received salvage therapy	N= 576	N= 178	
QT	298	88	NS
Melphalan/prednisone	66	9	
 Cyclophosphamide/dexa or prednisone 	87	22	
VCMP/VBAP	21		
VBAD or VBAP	54	20	
Others	70	30	
PI	118	40	NS
Bortezomib/dexamethasone	45	15	
bortezomib	23	7	
Carfilzomib/dexamethasone	12	2	
MPV	10	2	
Others	28	14	
IMiD	94	16	0.01
• Len/dex	66	9	
Thalidomide	23	5	
Others	5	2	
PI+IMiD	38	17	NS
• KRd	29	14	
Others	9	3	
MAb	25	-	
• DRd	10		
• DVd	7		
• DKd	6		
Others	2		

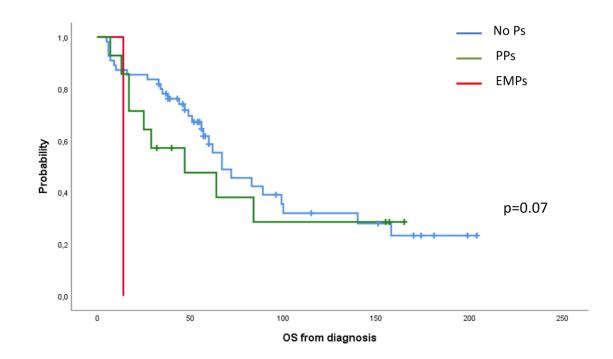
Supplementary figure 1: overall survival from diagnosis according to the initial therapy a) conventional chemotherapy, b) PI-based, c) IMiD-based, d) PI+IMiD-based



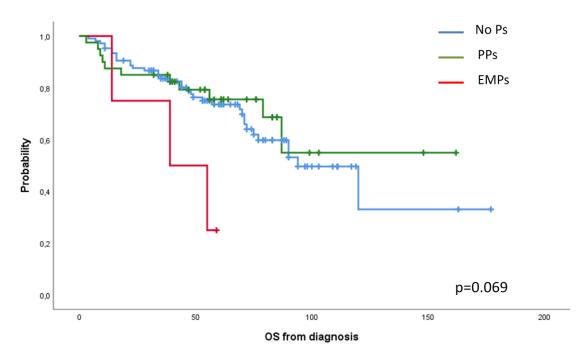
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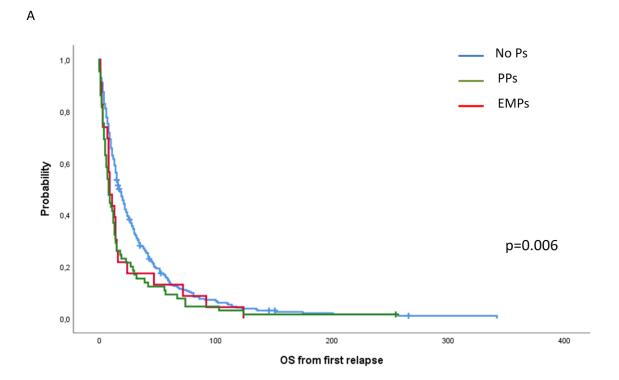




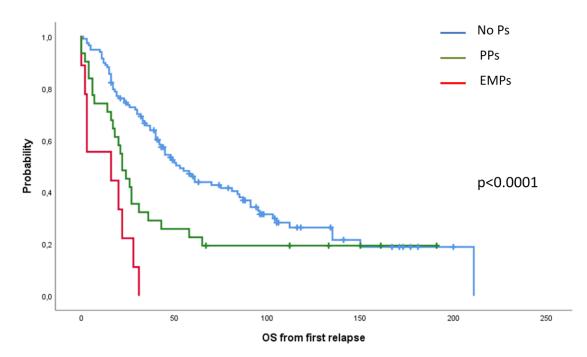


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Supplementary figure 2: overall survival from first relapse according to salvage therapy a) conventional chemotherapy, b) PI-based, c) IMiD-based, d) PI+IMiD-based







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