

6.2 Event-free survival

The primary analysis of the study is the comparison of EFS between the treatment arms. This will be done using multivariate Cox proportional hazards model where the treatment arm effect will be adjusted for age group (18-60 vs 61-70 years) and WHO performance status (0-1 vs 2-3) at randomization. The likelihood ratio P-value will be reported. P-value < 0.05 will be considered statistically significant.

EFS is defined as: Time from registration to no CR(u) on protocol treatment, relapse or death from any cause, whichever comes first.

6.2.1 Descriptive statistics

EFS estimates in total and by arm, accompanied by the competing risks - 'no CR(u)' (NR), relapse after CR(u)' and 'death in CR(u)'.

```
**** (Event free survival [m])
    ccr: #      ->  efs
    nr : #      ->  NR
    rel: #      ->  REL
    d  : #      ->  D
```

Time [mnth]	N	ccr #	nr #	rel #	d #	Max [m]	Med [m]	12				60														
								#at #	efs %	se %	NR %	REL %	D %	#at #	efs %	se %	NR %	REL %	D %							
Total	199	76	66	53	4	75	13	98	51	4	33	3	15	3	2	1	8	29	5	33	3	36	5	2	1	
Rnr 1 rand. arm																										
MBVP	100	37	34	27	2	75	11	49	49	5	34	5	15	4	2	1	3	28	8	34	5	36	8	2	1	
R-MBVP	99	39	32	26	2	67	15	49	52	5	32	5	14	4	1	1	5	29	7	32	5	36	7	2	2	

Legend (see results for Total):

- N : number of patients in the analysis;
- ccr : number of patients still in CR;
- nr : number of patients who did not achieve CR on protocol treatment;
- rel : number of patients with relapse after CR;
- d : number of patients who died in CR (without previous relapse);
- Max : maximum observed efs time (in months);
- Med : median efs;
- #at : number of patients at risk at 12 months (and furtheron at 60 months);
- efs : actuarial estimate of 12-months efs;
- se : standard error of estimate of 12-months efs;
- NR : actuarial estimate of 12-months 'not-in-CR';
- REL : actuarial estimate of 12-months relapse;
- D : actuarial estimate of 12-months death in CR.

For PFS, and OS, the tables will look very similar.

Time	Beg. Total	Fail	Survivor Function	Std. Error	[95% Conf. Int.]	

Total						
12	99	98	0.5057	0.0355	0.4341	0.5729
36	37	18	0.3973	0.0361	0.3264	0.4672
60	9	6	0.2872	0.0510	0.1923	0.3891
MBVP						
12	50	51	0.4900	0.0500	0.3890	0.5833
36	15	9	0.3757	0.0512	0.2763	0.4748
60	4	2	0.2775	0.0760	0.1425	0.4302
R-MBVP						
12	50	47	0.5214	0.0505	0.4183	0.6148
36	23	9	0.4156	0.0512	0.3148	0.5133
60	6	4	0.2893	0.0707	0.1613	0.4303

Note: Survivor function is calculated over full data and evaluated at indicated times; it is not calculated from aggregates shown at left.

Median EFS by arm:

```

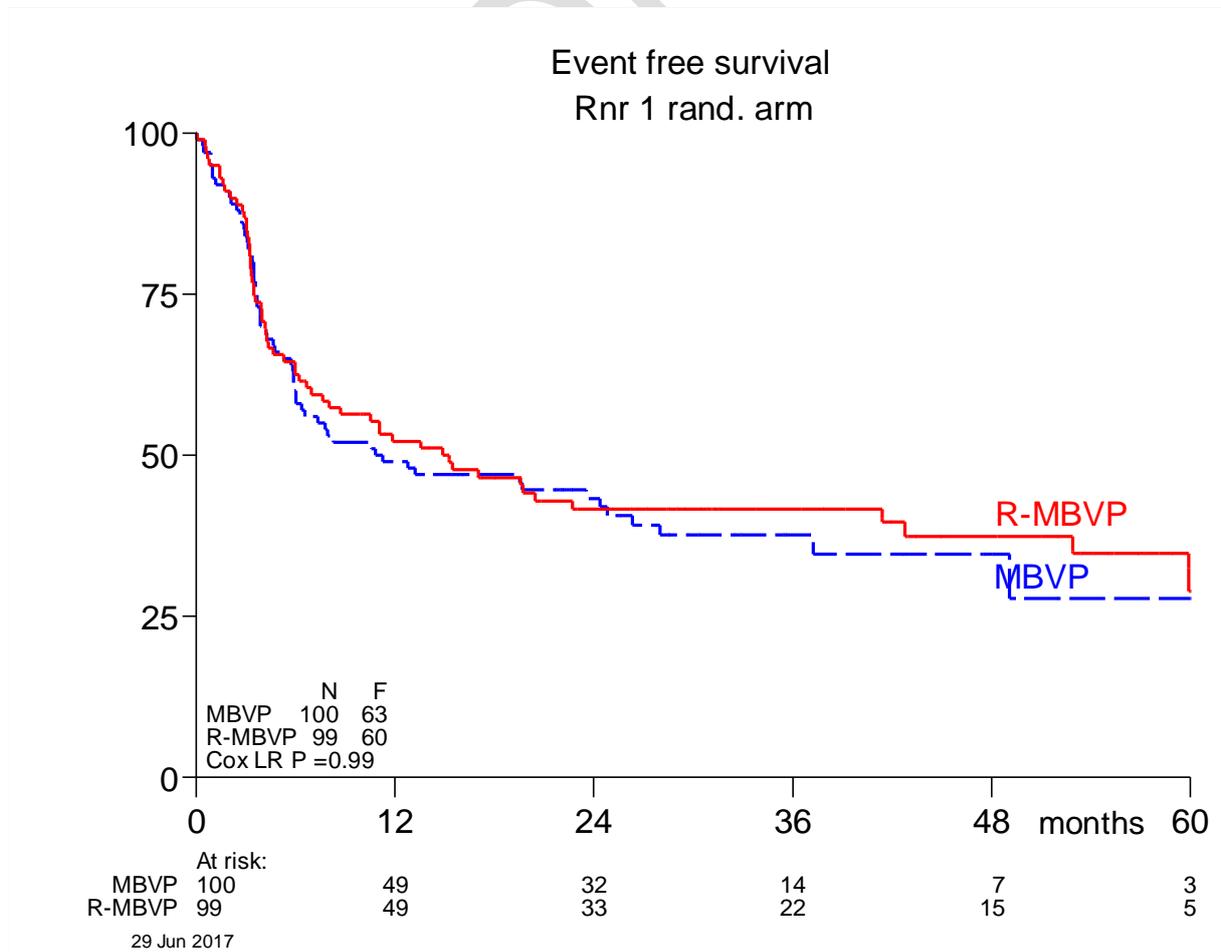
failure _d: efsi
analysis time _t: efs
    
```

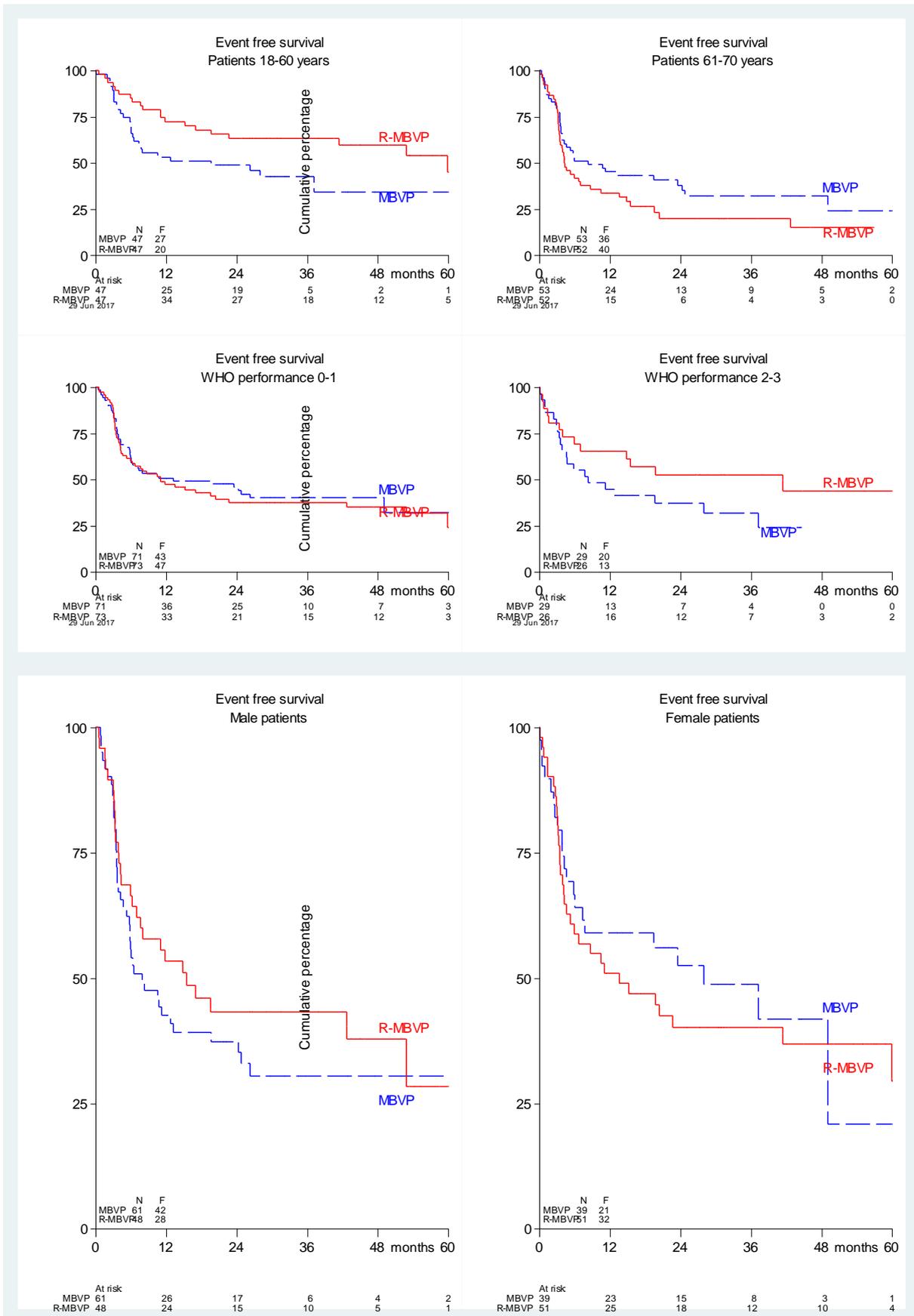
arm1	no. of subjects	50%	Std. Err.	[95% Conf. Interval]	
MBVP	100	10.80904	5.934014	5.91376	26.3162
R-MBVP	99	14.88296	4.15637	6.96509	41.3963
total	199	13.20739	4.066125	7.35934	23.5565

EFS estimates at 1,3, and 5 years by arm, and stratification factors:

**** (Event free survival [m])

Time [mnth]	N	ccr #	Max [m]	Med [m]	12			36			60		
					ef %	se	#at #	ef %	se	#at #	ef %	se	#at #
Total	199	123	75	13	51	4	98	40	4	36	29	5	8
Rnr 1 rand. arm													
MBVP	100	63	75	11	49	5	49	38	5	14	28	8	3
R-MBVP	99	60	67	15	52	5	49	42	5	22	29	7	5
Age													
<=60	94	47	70	41	63	5	59	53	5	23	38	8	6
>60	105	76	75	6	40	5	39	26	5	13	21	5	2
WHO stratum													
<=1	144	90	75	11	49	4	69	39	4	25	28	6	6
>1	55	33	67	15	54	7	29	42	7	11	34	8	2





6.2.2 Formal evaluation

Univariate Cox regression analyses

```

Cox regression
-----
Time: efs      Event free survival [m]
Fail: efsi

Variable  Nobs  Nfail  Chi2  df  P_value  RelHR  SE  [95% Conf Limits]
-----
:R-MBVP - arm1  199  123  .257  1  6.1e-01  0.91  0.17  0.64  1.30
age60      199  123  17.3  1  3.2e-05  2.15  0.40  1.49  3.11
whostrat   199  123  .0165 1  9.0e-01  0.97  0.20  0.65  1.45

```

(*) Legend (see the first 2 lines):

- Nobs = 199: indicates number of patients in this analysis;
- Nfail = 123: there are 123 patients for whom a failure has been reported; for this endpoints failures are no CR, relapse, or death, whichever comes first;
- P_value = 6.1e-01: indicated that P value = 0.61, i.e. there is not a statistically significant difference between the groups according to the variable on the subsequent line;
- :R-MBVP – arm1: this indicates that the variable of interest is 'arm1', and that the results in this line refer to the 'group' arm B; the baseline group is arm A;
- RelHR = 0.91: indicates the hazard ratio (HR) for this groups as compared to the baseline group; a value above 1 indicates a higher risk for the events, where a value below 1 indicates lower risk for the event;
- 95% Conf Limits = 0.64-1.30: indicates the 95% confidence interval for the HR. Because the value '1' is in this interval, the P value is not statistically significant .

Multivariate Cox regression analysis

```

Cox regression
-----
Time: efs      Event free survival [m]
Fail: efsi

Variable  Nobs  Nfail  Chi2  df  P_value  RelHR  SE  [95% Conf Limits]
-----
Baseline model:
age60      199  123  17.3  2  1.7e-04  2.15  0.40  1.49  3.11
whostrat   199  123  9.6e-01  1.01  0.21  0.68  1.51
Additional factors:
:R-MBVP - arm1  199  123  8.7e-05 1  9.9e-01  1.00  0.18  0.70  1.43
(Above estimates and P-values adjusted for age60 whostrat except for the variable tested)

```

Multivariate Cox regression analysis - age X arm interaction

```

_t | Haz. Ratio  Std. Err.  z  P>|z|  [95% Conf. Interval]
-----
arm1 |
R-MBVP | .5637978  .1677968  -1.93  0.054  .3146226  1.010315
age60 |
>60 | 1.37757  .3515619  1.26  0.209  .8353788  2.271664
arm1#age60 |
R-MBVP#>60 | 2.51808  .953008  2.44  0.015  1.199274  5.287136

```

In the latter model the HR of the arms is so much different from the results of the previous models because here it corresponds to the arm effect in younger patients. The arm effect among elderly patients is calculated by multiplying the young-arm effect (.56) with the elderly-arm effect difference (2.52), that is HR 1.42 with 95% CI (0.90-2.23).

6.2.3 Prognostic factors**Univariate Cox regression - all prognostic factors**

Cox regression

Time: efs Event free survival [m]
Fail: efsi

Variable	Nobs	Nfail	Chi2	df	P_value	RelHR	SE	[95% Conf Limits]
	199	123	.767	1	3.8e-01			
:F - sex	154	90	5.28	1	2.2e-02	0.85	0.16	0.60 1.22
mmse	185	115	.0979	1	7.5e-01	0.96	0.01	0.94 0.99
:Multifocal - focal	193	119	1.2e-04	1	9.9e-01	1.06	0.20	0.73 1.53
:Yes - vitfluid	181	115	.0295	1	8.6e-01	1.00	0.39	0.46 2.14
:Yes - csf	197	121	3.77	1	5.2e-02	0.97	0.19	0.65 1.43
dexa	199	123	.0165	1	9.0e-01	1.02	0.01	1.00 1.05
:>1 - whostrat	199	123	17.3	1	3.2e-05	0.97	0.20	0.65 1.45
:>60 - age60	198	122	.561	1	4.5e-01	2.15	0.40	1.49 3.11
:>ULN - ldhn					4.5e-01	1.16	0.23	0.79 1.72

Multivariate Cox regression - all prognostic factors

_t	Haz. Ratio	Std. Err.	z	P>|z|	[95% Conf. Interval]
arm1: R-MBVP	.8879495	.214211	-0.49	0.622	.5534042 1.424735
sex : F	.9776308	.2465035	-0.09	0.929	.5964166 1.602507
mmse	.9493112	.0221625	-2.23	0.026	.9068524 .9937579
Multifocal	1.27103	.3447035	0.88	0.377	.7469812 2.162727
vitfluid:Yes	1.027646	.5169617	0.05	0.957	.3833922 2.754508
csf : Yes	.9247149	.2307039	-0.31	0.754	.5670803 1.507895
dexa	1.059305	.0192919	3.16	0.002	1.022161 1.0978
whostrat: >1	.5460283	.1966505	-1.68	0.093	.2695612 1.106045
age60 : >60	2.744651	.6887502	4.02	0.000	1.678357 4.488384
ldhn : >ULN	.9085443	.2450239	-0.36	0.722	.5355338 1.541364

6.2.4 Conclusions

- The median EFS is 10.8 months in arm A and 14.9 months in arm B;
- EFS is not significantly improved in the R-MBVP arm (arm B):
 - o In the univariate Cox regression analysis, HR = 0.91, 95% CI = [0.64,1.30], P = 0.61;
 - o When adjusted for age group and WHO stratum, i.e. the primary analysis, HR = 1.00, 95% CI = [0.70,1.43], P = 0.99;
 - o In the multivariate analysis, HR = 0.89, 95% CI = [0.55,1.42], P = 0.62;
- There is an indication that the impact of R-MBVP arm on EFS was different between the age groups (18-60 vs 61-70).

6.3 Progression-free survival

PFS is defined as: Time from registration to progression, relapse or death from any cause, whichever comes first.

6.3.1 Descriptive statistics

PFS estimates in total and by arm, accompanied by the competing risks - relapse and death.

**** (Progression free survival [m])
 cpr: # -> PFS
 rel: # -> REL
 d : # -> D

Time [mnth]	N	cpr #	rel #	d #	Max [m]	Med [m]	12					36					60											
							#at #	PFS %	se %	REL %	se %	D %	se %	#at #	PFS %	se %	REL %	se %	D %	se %	#at #	PFS %	se %	REL %	se %	D %	se %	
Total	199	93	89	17	75	26	119	62	3	31	3	8	2	43	48	4	44	4	8	2	10	35	5	55	5	10	3	
Rnr 1 rand. arm																												
MBVP	100	43	48	9	75	24	57	58	5	32	5	9	3	16	42	5	49	5	9	3	4	33	8	58	8	9	3	
R-MBVP	99	50	41	8	74	43	62	65	5	29	5	6	2	27	54	5	39	5	7	3	6	37	8	53	8	10	4	

Time	Beg. Total	Fail	Survivor Function	Std. Error	[95% Conf. Int.]	
Total						
12	120	75	0.6187	0.0347	0.5469	0.6826
36	44	23	0.4821	0.0371	0.4077	0.5525
60	11	7	0.3532	0.0540	0.2497	0.4582
MBVP						
12	58	41	0.5846	0.0497	0.4809	0.6747
36	17	13	0.4225	0.0530	0.3179	0.5233
60	5	2	0.3286	0.0762	0.1874	0.4774
R-MBVP						
12	63	34	0.6529	0.0482	0.5497	0.7380
36	28	10	0.5390	0.0516	0.4329	0.6337
60	7	5	0.3733	0.0788	0.2232	0.5235

Note: Survivor function is calculated over full data and evaluated at indicated times; it is not calculated from aggregates shown at left.

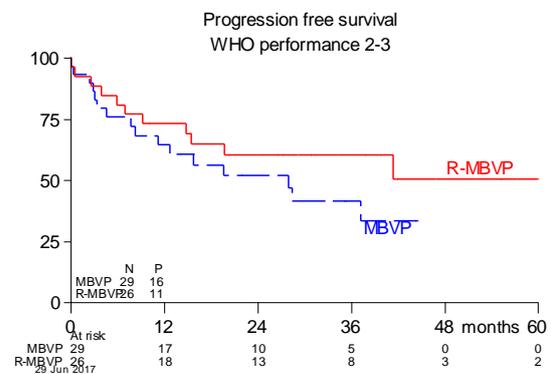
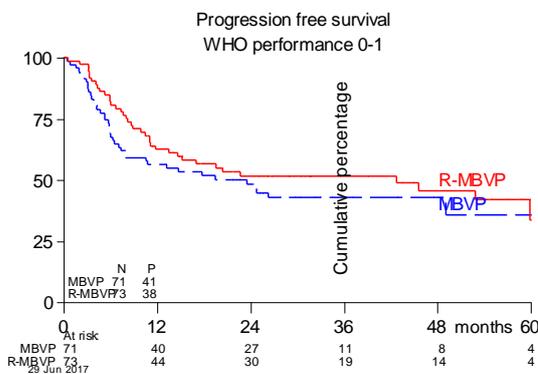
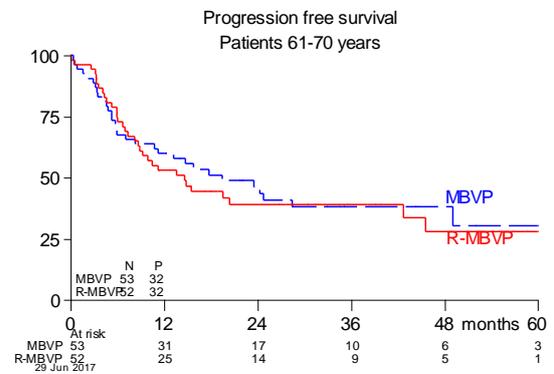
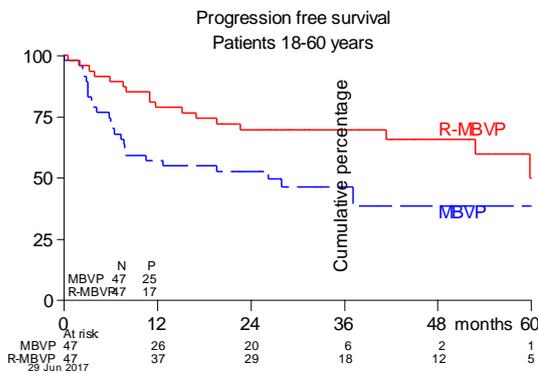
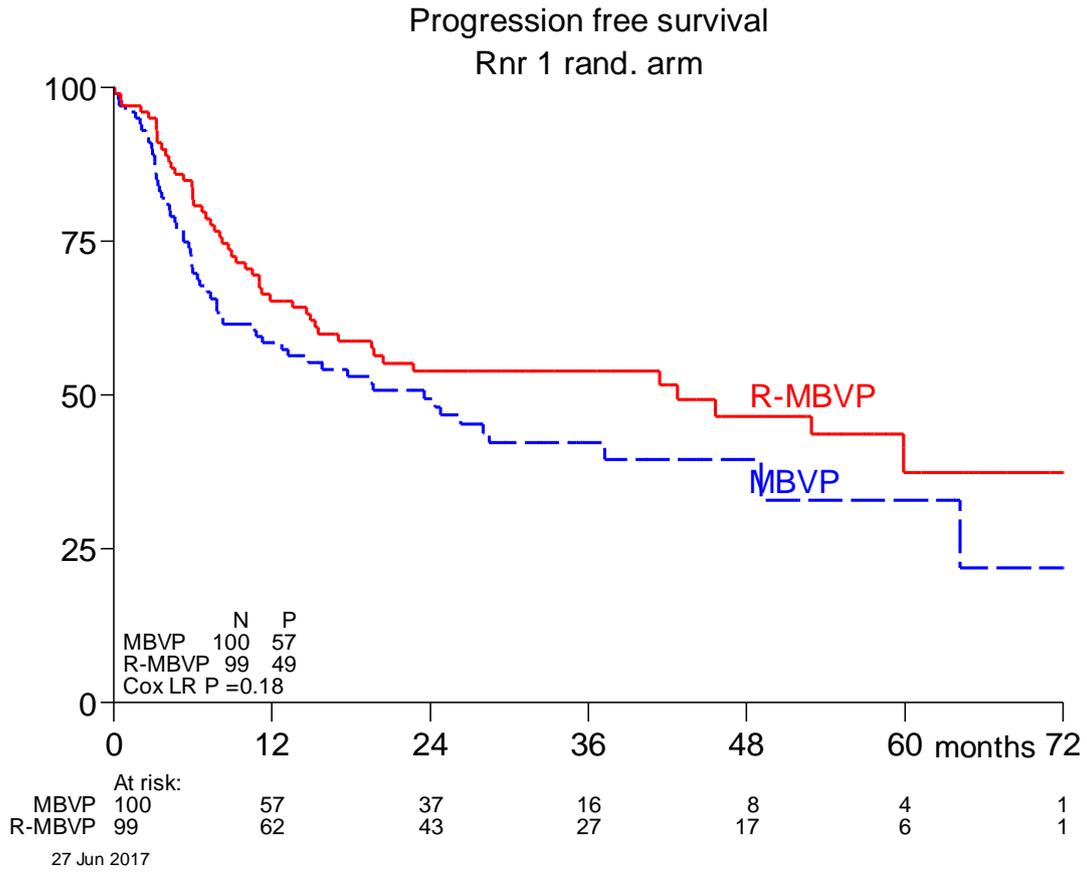
Median PFS by arm:

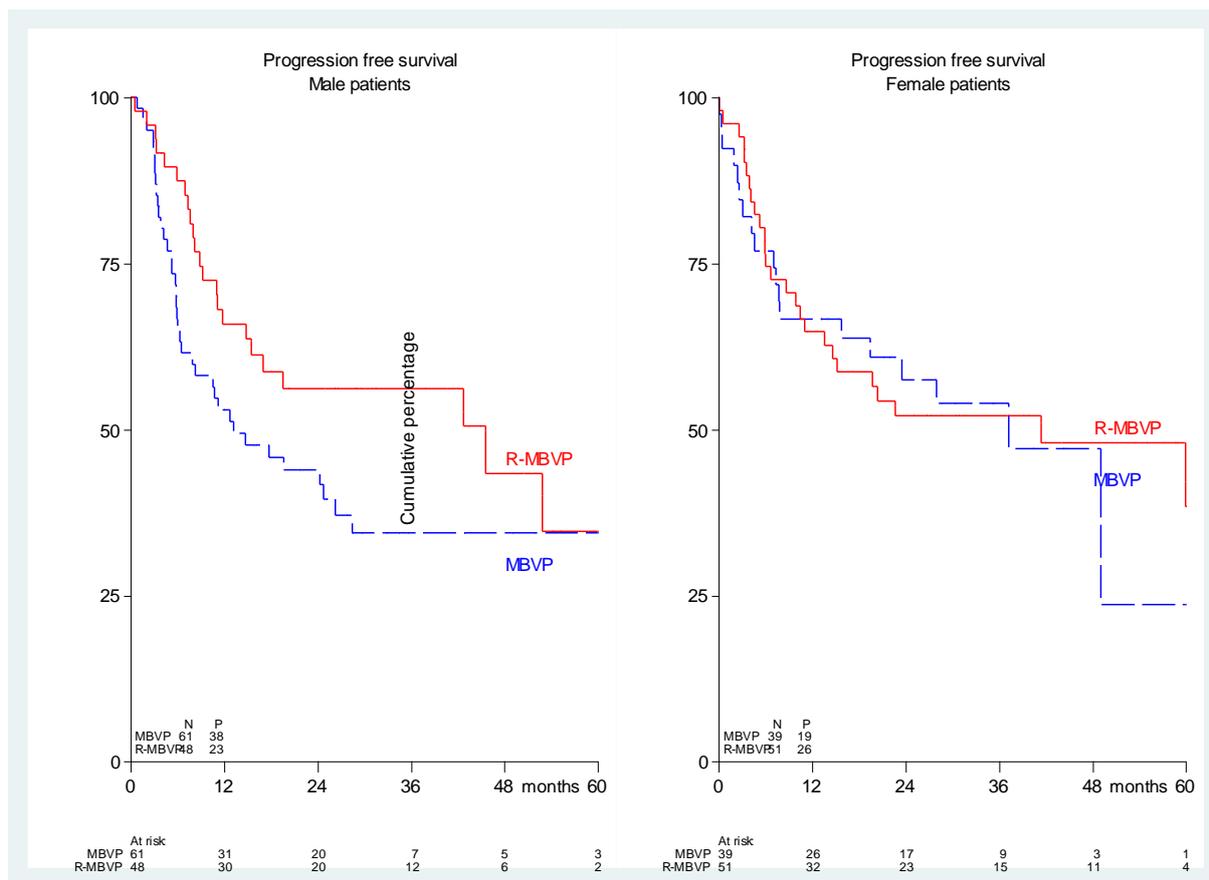
arm1	no. of subjects	50%	Std. Err.	[95% Conf. Interval]	
MBVP	100	23.55647	5.461493	10.809	49.0842
R-MBVP	99	42.77618	14.93027	15.4743	.
total	199	26.31622	7.869872	15.8029	49.0842

PFS estimates at 1,3, and 5 years by arm, and stratification factors:

**** (Progression free survival [m])

Time [mnth]	N	cpr #	Max [m]	Med [m]	12			36			60		
					PF %	se %	#at #	PF %	se %	#at #	PF %	se %	#at #
Total	199	106	75	26	62	3	119	48	4	43	35	5	10
Rnr 1 rand. arm													
MBVP	100	57	75	24	58	5	57	42	5	16	33	8	4
R-MBVP	99	49	74	43	65	5	62	54	5	27	37	8	6
Age													
<=60	94	42	70	53	68	5	63	58	5	24	42	9	6
>60	105	64	75	16	56	5	56	38	5	19	30	6	4
WHO stratum													
<=1	144	79	75	24	59	4	84	47	4	30	35	6	8
>1	55	27	67	37	68	6	35	51	7	13	42	8	2





6.3.2 Formal evaluation

Univariate Cox regression analysis

Cox regression

Time: pfs Progression free survival [m]
Fail: pfsi

Variable	Nobs	Nfail	Chi2	df	P_value	RelHR	SE	[95% Conf Limits]
:R-MBVP - arm1	199	106	2.49	1	1.1e-01	0.73	0.14	0.50 1.08
age60	199	106	6.49	1	1.1e-02	1.65	0.33	1.12 2.44
whostrat	199	106	.157	1	6.9e-01	0.92	0.20	0.59 1.42

Multivariate Cox regression analysis

Cox regression

Time: pfs Progression free survival [m]
Fail: pfsi

Variable	Nobs	Nfail	Chi2	df	P_value	RelHR	SE	[95% Conf Limits]
Baseline model:								
age60	199	106	6.54	2	3.8e-02	1.65	0.33	1.11 2.44
whostrat					8.3e-01	0.95	0.21	0.61 1.48
Additional factors:								
:R-MBVP - arm1	199	106	1.83	1	1.8e-01	0.77	0.15	0.52 1.13

(Above estimates and P-values adjusted for age60 whostrat except for the variable tested)

Multivariate Cox regression analysis - age X arm interaction

_t	Haz. Ratio	Std. Err.	z	P>|z|	[95% Conf. Interval]
arm1 R-MBVP	.4752016	.150527	-2.35	0.019	.2554156 .8841142
age60 >60	1.117877	.2990795	0.42	0.677	.6617007 1.888542
arm1#age60 R-MBVP#>60	2.21035	.8936036	1.96	0.050	1.000774 4.881869

In the latter model the HR of the arms is so much different from the results of the previous models because here it corresponds to the arm effect in younger patients. The arm effect among elderly patients is calculated by multiplying the young-arm effect (.48) with the elderly-arm effect difference (2.21), that is HR 1.05 with 95% CI (0.64-1.72).

6.3.3 Prognostic factors**Univariate Cox regression - all prognostic factors**

Cox regression

Time: pfs Progression free survival [m]
Fail: pfsi

Variable	Nobs	Nfail	Chi2	df	P_value	RelHR	SE	[95% Conf Limits]
:F - sex	199	106	1.02	1	3.1e-01	0.82	0.16	0.56 1.21
mmse	154	79	5.82	1	1.6e-02	0.96	0.02	0.93 0.99
:Multifocal - focal	185	100	.862	1	3.5e-01	0.83	0.17	0.56 1.23
:Yes - vitfluid	193	102	.0078	1	9.3e-01	1.04	0.44	0.45 2.37
:Yes - csf	181	98	.0013	1	9.7e-01	1.01	0.22	0.66 1.54
dexa	197	105	1.18	1	2.8e-01	1.01	0.01	0.99 1.04
:>1 - whostrat	199	106	.157	1	6.9e-01	0.92	0.20	0.59 1.42
:>60 - age60	199	106	6.49	1	1.1e-02	1.65	0.33	1.12 2.44
:>ULN - ldhn	198	105	1.58	1	2.1e-01	1.31	0.28	0.87 1.99

Multivariate logistic regression - all prognostic factors

_t	Haz. Ratio	Std. Err.	z	P>|z|	[95% Conf. Interval]
arm1: R-MBVP	.6901962	.1807754	-1.42	0.157	.413073 1.153236
sex : F	.7029986	.1891757	-1.31	0.190	.4148563 1.191273
mmse	.9409349	.0224717	-2.55	0.011	.897906 .9860258
Multifocal	.8092529	.2317034	-0.74	0.460	.461711 1.418398
vitfluid:Yes	1.110888	.5722685	0.20	0.838	.4047416 3.049036
csf : Yes	.9851191	.2615588	-0.06	0.955	.5854453 1.657644
dexa	1.027519	.0220257	1.27	0.205	.985244 1.071609
whostrat: >1	.6003313	.2240224	-1.37	0.171	.2889034 1.247468
age60 : >60	1.663873	.4247761	1.99	0.046	1.00882 2.744268
ldhn : >ULN	.8820839	.2539382	-0.44	0.663	.5017209 1.550806

6.3.4 Conclusion

- The median PFS is 23.5 months in arm A and 42.7 months in arm B;
- PFS is not significantly improved in the R-MBVP arm (arm B):
 - o In the univariate Cox regression analysis, HR = 0.73, 95% CI = [0.50,1.08], P = 0.12;
 - o When adjusted for age group and WHO stratum, HR = 0.77, 95% CI = [0.52,1.13], P = 0.18;
 - o In the multivariate analysis, HR = 0.69, 95% CI = [0.41,1.15], P = 0.16;
- There is indication that the impact of R-MBVP arm on EFS was very different between the age groups (18-60 vs 61-70).

6.4 Overall survival

OS is defined as: Time from registration to death from any cause.

6.4.1 Descriptive statistics

OS estimates in total and by arm.

**** (Overall survival [m])

Time [mnth]	N #	d #	Max [m]	Med [m]	12			36			60		
					OS %	se	#at #	OS %	se	#at #	OS %	se	#at #
Total	199	79	79	64	79	3	152	59	4	59	50	5	15
Rnr 1 rand. arm													
MBVP	100	41	75	57	79	4	77	61	5	28	46	8	6
R-MBVP	99	38	79	>79	79	4	75	58	6	31	53	6	9

Time	Beg. Total	Fail	Survivor Function	Std. Error	[95% Conf. Int.]	

Total						
12	153	42	0.7865	0.0292	0.7223	0.8375
36	60	30	0.5947	0.0386	0.5149	0.6656
60	16	6	0.5046	0.0487	0.4058	0.5954
MBVP						
12	78	21	0.7874	0.0412	0.6928	0.8559
36	29	15	0.6147	0.0512	0.5063	0.7062
60	7	4	0.4556	0.0848	0.2864	0.6100
R-MBVP						
12	76	21	0.7861	0.0414	0.6910	0.8549
36	32	15	0.5776	0.0568	0.4586	0.6795
60	10	2	0.5312	0.0610	0.4055	0.6419

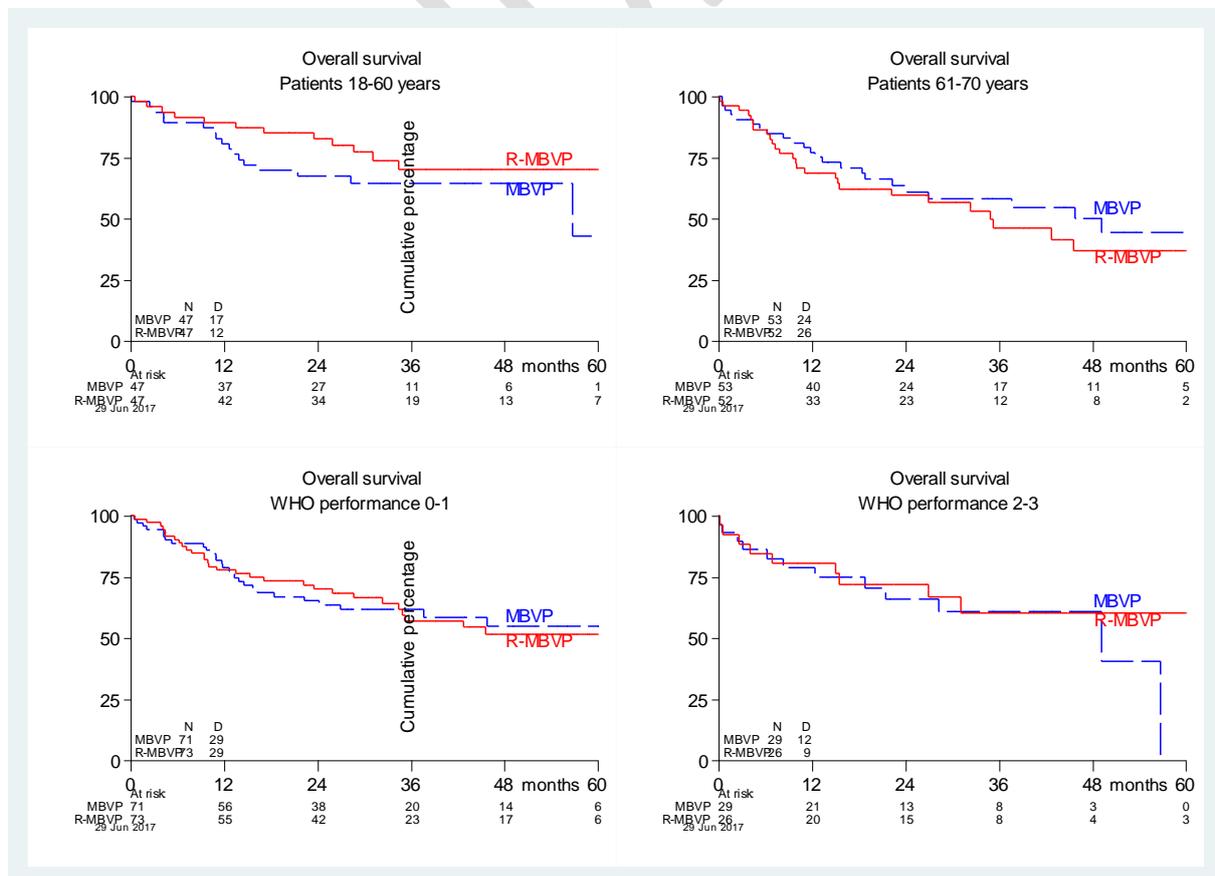
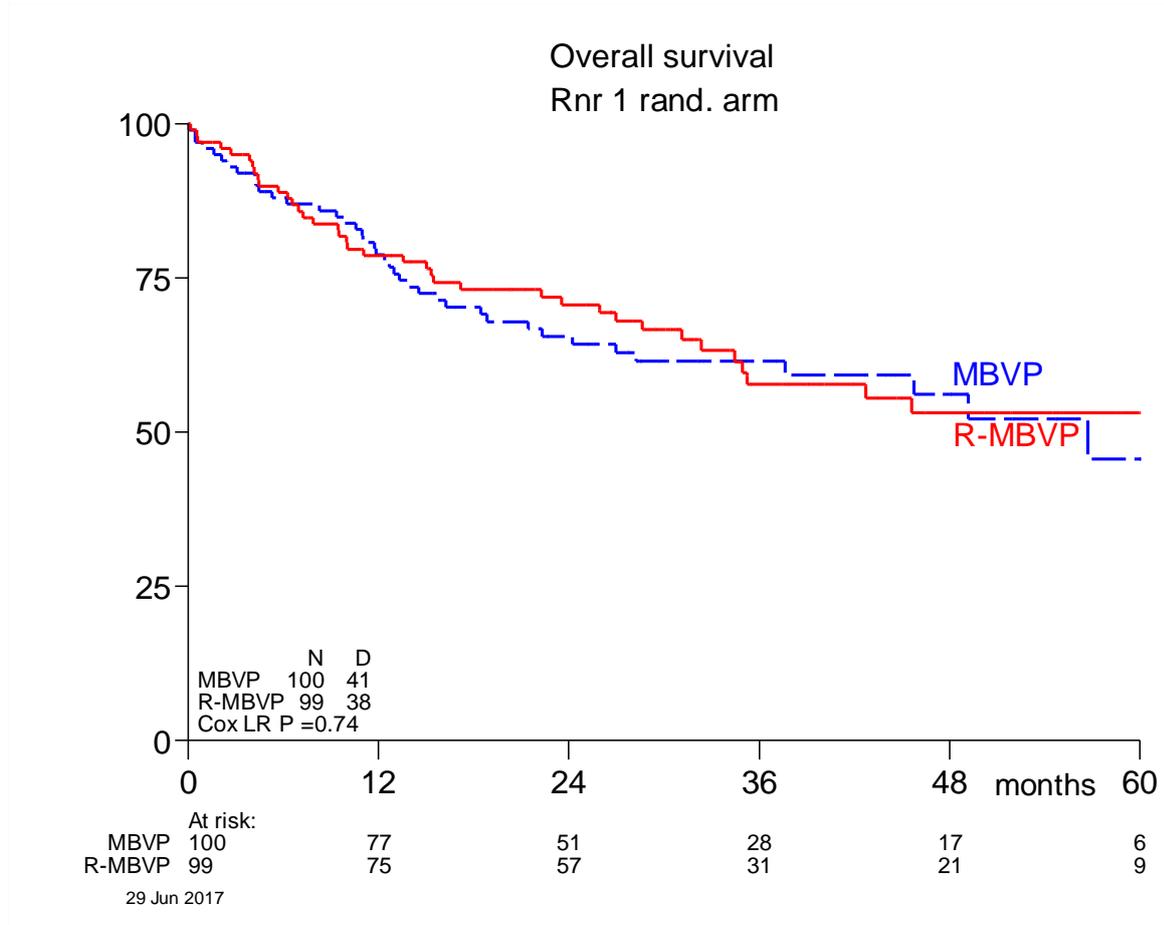
Note: Survivor function is calculated over full data and evaluated at indicated times; it is not calculated from aggregates shown at left.

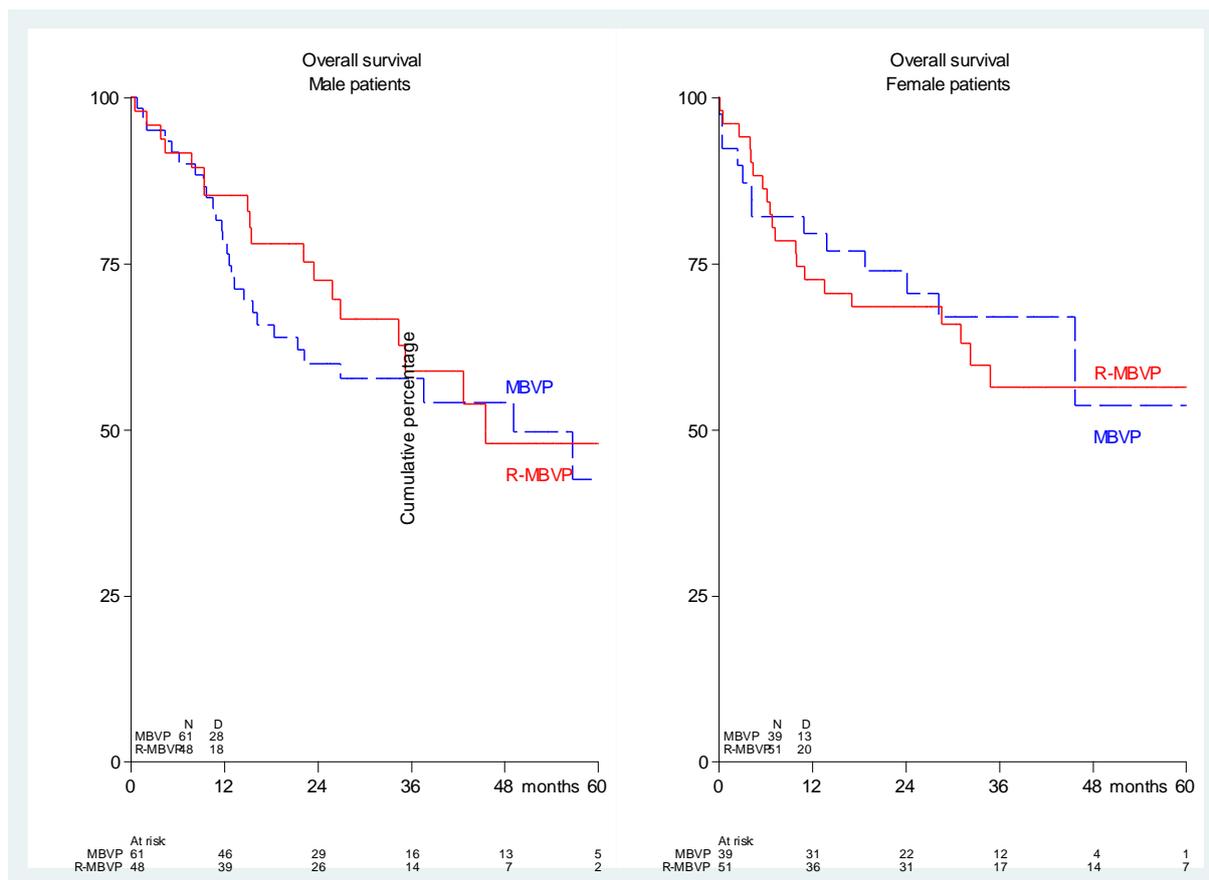
Median OS by arm:

failure analysis time	d: os	t: os	no. of subjects	50%	Std. Err.	[95% Conf. Interval]
arm1						
MBVP			100	56.73922	5.90189	37.6509 .
R-MBVP			99	.	.	34.4312 .
total			199	64.3614	.	42.7433 .

OS estimates at 1,3, and 5 years by arm, and stratification factors:

Time [mnth]	N #	d #	Max [m]	Med [m]	12			36			60		
					OS %	se	#at #	OS %	se	#at #	OS %	se	#at #
Total	199	79	79	64	79	3	152	59	4	59	50	5	15
Rnr 1 rand. arm													
MBVP	100	41	75	57	79	4	77	61	5	28	46	8	6
R-MBVP	99	38	79	>79	79	4	75	58	6	31	53	6	9
Age													
<=60	94	29	70	>70	85	4	79	67	5	30	61	7	8
>60	105	50	79	43	73	4	73	52	5	29	41	6	7
WHO stratum													
<=1	144	58	79	64	78	3	111	59	5	43	53	5	12
>1	55	21	67	57	80	5	41	61	7	16	39	14	3





6.4.2 Formal evaluation

Univariate Cox regression analysis

Cox regression

Time: os Overall survival [m]
Fail: osi

Variable	Nobs	Nfail	Chi2	df	P_value	RelHR	SE	[95% Conf Limits]
:R-MBVP - arm1	199	79	.282	1	6.0e-01	0.89	0.20	0.57 1.38
age60	199	79	6.73	1	9.5e-03	1.81	0.42	1.15 2.87
whostrat	199	79	.0339	1	8.5e-01	1.05	0.27	0.64 1.73

Multivariate Cox regression analysis

Cox regression

Time: os Overall survival [m]
Fail: osi

Variable	Nobs	Nfail	Chi2	df	P_value	RelHR	SE	[95% Conf Limits]
Baseline model:								
age60	199	79	6.86	2	3.2e-02	1.82	0.43	1.15 2.89
whostrat					7.2e-01	1.10	0.28	0.66 1.81
Additional factors:								
:R-MBVP - arm1	199	79	.114	1	7.4e-01	0.93	0.21	0.59 1.44

(Above estimates and P-values adjusted for age60 whostrat except for the variable tested)

6.4.3 Prognostic factors**Univariate Cox regression - all prognostic factors**

Cox regression

Time: os Overall survival [m]
Fail: osi

Variable	Nobs	Nfail	Chi2	df	P_value	RelHR	SE	[95% Conf Limits]
	199	79	.512	1	4.7e-01			
:F - sex					4.8e-01	0.85	0.19	0.54 1.33
mmse	154	61	3.95	1	4.7e-02			
					3.4e-02	0.96	0.02	0.93 1.00
:Multifocal - focal	185	74	1.22	1	2.7e-01			
					2.7e-01	0.77	0.18	0.48 1.23
:Yes - vitfluid	193	78	.76	1	3.8e-01			
					3.6e-01	1.48	0.63	0.64 3.41
:Yes - csf	181	73	.349	1	5.5e-01			
					5.5e-01	1.16	0.28	0.72 1.87
dexa	197	78	.756	1	3.8e-01			
					3.7e-01	1.01	0.02	0.98 1.04
:>1 - whostrat	199	79	.0339	1	8.5e-01			
					8.5e-01	1.05	0.27	0.64 1.73
:>60 - age60	199	79	6.73	1	9.5e-03			
					1.1e-02	1.81	0.42	1.15 2.87
:>ULN - ldhn	198	78	.297	1	5.9e-01			
					5.8e-01	1.15	0.29	0.70 1.88

Multivariate logistic regression - all prognostic factors

_t	Haz. Ratio	Std. Err.	z	P>|z|	[95% Conf. Interval]
arm1: R-MBVP	.801406	.239623	-0.74	0.459	.4460058 1.440007
sex : F	1.105538	.3347937	0.33	0.740	.6106633 2.001455
mmse	.9541582	.0263881	-1.70	0.090	.9038153 1.007305
Multifocal	.9820652	.302965	-0.06	0.953	.5364713 1.79777
vitfluid:Yes	1.692284	.9010471	0.99	0.323	.5960127 4.804971
csf : Yes	1.228251	.3577443	0.71	0.480	.694006 2.173756
dexa	1.029689	.023951	1.26	0.208	.9837995 1.077718
whostrat: >1	.6327604	.2642706	-1.10	0.273	.2790855 1.434634
age60 : >60	1.948139	.5725839	2.27	0.023	1.095067 3.465767
ldhn : >ULN	.9505951	.305278	-0.16	0.875	.5065673 1.783832

6.4.4 Conclusion

- The median OS has not yet been reached after 79 months of follow up in arm B and is 56.7 months in arm A;
- OS is not significantly improved in the R-MBVP arm (arm B):
 - o In the univariate Cox regression analysis, HR = 0.89, 95% CI = [0.57,1.38], P = 0.60;
 - o When adjusted for age group and WHO stratum, HR = 0.93, 95% CI = [0.59,1.44], P = 0.74;
 - o In the multivariate analysis, HR = 0.80, 95% CI = [0.45,1.44], P = 0.46;
- There is no indication that the impact of R-MBVP vs MBVP arm on OS was very different between subgroups (details not shown).

7. Adverse events

AEs and infections CTCAE (version 3.0) grade 3-4 will be shown for:

- Induction cycles 1 and 2 separately;
- Consolidation with HD-Ara-C and WBRT;
- Induction cycles together (max. grade per patient);
- Complete treatment (max. grade per patient).

The tables will be shown by treatment arm for all patient together, and separately for patients age 18-60 years and for patients 61-70 years.

7.1 First course MBVP

# Patients	1st MBVP			
	MBVP 100		R-MBVP 99	
	grade 3	grade 4	grade 3	grade 4
-Any-	30 30%	16 16%	29 29%	15 15%
Infections and infestations	12 12%	1 1%	8 8%	5 5%
Investigations	4 4%	9 9%	6 6%	6 6%
Metabolism and nutrition disorders	12 12%	.	10 10%	1 1%
Blood and lymphatic disorders	6 6%	2 2%	10 10%	2 2%
Gastrointestinal disorders	7 7%	1 1%	6 6%	.
Nervous system disorders	2 2%	1 1%	8 8%	1 1%
Cardiac disorders	1 1%	.	4 4%	1 1%
Respiratory, thoracic and mediastinal disorders	1 1%	1 1%	3 3%	1 1%
Vascular disorders	1 1%	.	3 3%	1 1%
General disorders and administration site conditions	2 2%	1 1%	1 1%	.
Renal and urinary disorders	2 2%	.	1 1%	1 1%
Psychiatric disorders	.	.	3 3%	.
Surgical and medical procedures	.	1 1%	2 2%	.
Hepatobiliary disorders	.	.	1 1%	.
Injury, poisoning and procedural complications	.	.	1 1%	.
Musculoskeletal and connective tissue disorders	.	.	1 1%	.
Skin and subcutaneous tissue disorders	1 1%	.	.	.

In patients <= 60 years:

# Patients	1st MBVP			
	MBVP 47		R-MBVP 47	
	grade 3	grade 4	grade 3	grade 4
-Any-	16 34%	4 9%	12 26%	5 11%
Blood and lymphatic disorders	2 4%	1 2%	6 13%	1 2%
Investigations	3 6%	3 6%	3 6%	1 2%
Infections and infestations	6 13%	.	1 2%	2 4%
Metabolism and nutrition disorders	4 9%	.	2 4%	.
Gastrointestinal disorders	2 4%	.	3 6%	.
Respiratory, thoracic and mediastinal disorders	1 2%	.	3 6%	.
Vascular disorders	1 2%	.	1 2%	1 2%
Nervous system disorders	2 4%	.	.	.
Renal and urinary disorders	1 2%	.	1 2%	.
Cardiac disorders	.	.	1 2%	.
General disorders and administration site conditions	1 2%	.	.	.
Musculoskeletal and connective tissue disorders	.	.	1 2%	.
Psychiatric disorders	.	.	1 2%	.
Surgical and medical procedures	.	.	1 2%	.

In patients >= 61 years:

# Patients	1st MBVP			
	MBVP 53		R-MBVP 52	
	grade 3	grade 4	grade 3	grade 4
-Any-	14 26%	12 23%	17 33%	10 19%
Infections and infestations	6 11%	1 2%	7 13%	3 6%
Metabolism and nutrition disorders	8 15%	.	8 15%	1 2%
Investigations	1 2%	6 11%	3 6%	5 10%
Blood and lymphatic disorders	4 8%	1 2%	4 8%	1 2%
Nervous system disorders	.	1 2%	8 15%	1 2%
Gastrointestinal disorders	5 9%	1 2%	3 6%	.
Cardiac disorders	1 2%	.	3 6%	1 2%

General disorders and administration site conditions	1	2%	1	2%	1	2%	.
Psychiatric disorders	.	.	.	.	2	4%	.
Renal and urinary disorders	1	2%	.	.	.	.	1 2%
Respiratory, thoracic and mediastinal disorders	.	.	1	2%	.	.	1 2%
Surgical and medical procedures	.	.	1	2%	1	2%	.
Vascular disorders	.	.	.	.	2	4%	.
Hepatobiliary disorders	.	.	.	.	1	2%	.
Injury, poisoning and procedural complications	.	.	.	.	1	2%	.
Skin and subcutaneous tissue disorders	1	2%	.	.	.	.	.

7.2 Second course MBVP

# Patients	2nd MBVP			
	MBVP 92		R-MBVP 88	
	grade 3	grade 4	grade 3	grade 4
-Any-	20 22%	12 13%	22 25%	8 9%
Blood and lymphatic disorders	7 8%	1 1%	6 7%	1 1%
Infections and infestations	5 5%	5 5%	4 5%	1 1%
Investigations	3 3%	4 4%	4 5%	4 5%
Metabolism and nutrition disorders	8 9%	.	3 3%	.
Vascular disorders	3 3%	3 3%	3 3%	1 1%
Nervous system disorders	6 7%	.	3 3%	.
Gastrointestinal disorders	3 3%	1 1%	3 3%	1 1%
Respiratory, thoracic and mediastinal disorders	2 2%	1 1%	4 5%	.
Renal and urinary disorders	.	.	4 5%	.
General disorders and administration site conditions	1 1%	.	1 1%	.
Immune system disorders	.	.	2 2%	.
Injury, poisoning and procedural complications	1 1%	.	.	.
Musculoskeletal and connective tissue disorders	.	.	1 1%	.
Psychiatric disorders	.	.	1 1%	.
Surgical and medical procedures	.	.	1 1%	.

In patients <= 60 years:

# Patients	2nd MBVP			
	MBVP 46		R-MBVP 43	
	grade 3	grade 4	grade 3	grade 4
-Any-	8 17%	5 11%	8 19%	5 12%
Infections and infestations	1 2%	2 4%	3 7%	1 2%
Investigations	1 2%	2 4%	2 5%	2 5%
Nervous system disorders	4 9%	.	2 5%	.
Blood and lymphatic disorders	1 2%	.	3 7%	1 2%
Metabolism and nutrition disorders	3 7%	.	2 5%	.
Vascular disorders	.	1 2%	2 5%	1 2%
Respiratory, thoracic and mediastinal disorders	.	.	2 5%	.
Gastrointestinal disorders	1 2%	.	.	.
Injury, poisoning and procedural complications	1 2%	.	.	.
Musculoskeletal and connective tissue disorders	.	.	1 2%	.
Renal and urinary disorders	.	.	1 2%	.

In patients >= 61 years:

# Patients	2nd MBVP			
	MBVP 46		R-MBVP 45	
	grade 3	grade 4	grade 3	grade 4
-Any-	12 26%	7 15%	14 31%	3 7%
Blood and lymphatic disorders	6 13%	1 2%	3 7%	.
Infections and infestations	4 9%	3 7%	1 2%	.
Investigations	2 4%	2 4%	2 4%	2 4%
Gastrointestinal disorders	2 4%	1 2%	3 7%	1 2%
Metabolism and nutrition disorders	5 11%	.	1 2%	.
Vascular disorders	3 7%	2 4%	1 2%	.
Respiratory, thoracic and mediastinal disorders	2 4%	1 2%	2 4%	.
Nervous system disorders	2 4%	.	1 2%	.
Renal and urinary disorders	.	.	3 7%	.
General disorders and administration site conditions	1 2%	.	1 2%	.
Immune system disorders	.	.	2 4%	.
Psychiatric disorders	.	.	1 2%	.
Surgical and medical procedures	.	.	1 2%	.

7.3 Max AE on induction

Adverse events - Induction cycles - - Max grade in periods 1 2 - CTC grades: 3, 4

# Patients	MBVP 100		R-MBVP 99	
	grade 3	grade 4	grade 3	grade 4
-Any-	32 32%	24 24%	40 40%	19 19%
Infections and infestations	15 15%	5 5%	12 12%	6 6%
Investigations	5 5%	10 10%	10 10%	7 7%
Blood and lymphatic disorders	11 11%	3 3%	14 14%	2 2%
Metabolism and nutrition disorders	16 16%	.	12 12%	1 1%
Nervous system disorders	8 8%	1 1%	11 11%	1 1%
Gastrointestinal disorders	7 7%	2 2%	7 7%	1 1%
Vascular disorders	4 4%	3 3%	6 6%	2 2%
Respiratory, thoracic and mediastinal disorders	3 3%	2 2%	7 7%	1 1%
Renal and urinary disorders	2 2%	.	5 5%	1 1%
Cardiac disorders	1 1%	.	4 4%	1 1%
General disorders and administration site conditions	3 3%	1 1%	2 2%	.
Psychiatric disorders	.	.	4 4%	.
Surgical and medical procedures	.	1 1%	3 3%	.
Immune system disorders	.	.	2 2%	.
Injury, poisoning and procedural complications	1 1%	.	1 1%	.
Musculoskeletal and connective tissue disorders	.	.	2 2%	.
Hepatobiliary disorders	.	.	1 1%	.
Skin and subcutaneous tissue disorders	1 1%	.	.	.

7.4 Consolidation with HD-Ara-C

# Patients	HD-Ara-C			
	MBVP 83		R-MBVP 78	
	grade 3	grade 4	grade 3	grade 4
-Any-	13 16%	5 6%	8 10%	3 4%
Infections and infestations	6 7%	.	3 4%	.
Investigations	1 1%	4 5%	2 3%	2 3%
Blood and lymphatic disorders	4 5%	1 1%	1 1%	2 3%
Nervous system disorders	3 4%	.	2 3%	.
Metabolism and nutrition disorders	3 4%	.	.	.
Congenital, familial and genetic disorders	1 1%	.	.	.
Ear and labyrinth disorders	.	.	1 1%	.
Gastrointestinal disorders	.	.	1 1%	.
Psychiatric disorders	1 1%	.	.	.
Skin and subcutaneous tissue disorders	.	.	1 1%	.
Vascular disorders	1 1%	.	.	.

In patients <= 60 years:

# Patients	HD-Ara-C			
	MBVP 41		R-MBVP 39	
	grade 3	grade 4	grade 3	grade 4
-Any-	7 17%	2 5%	2 5%	3 8%
Infections and infestations	5 12%	.	1 3%	.
Blood and lymphatic disorders	3 7%	.	.	2 5%
Investigations	.	2 5%	1 3%	2 5%
Nervous system disorders	2 5%	.	1 3%	.
Metabolism and nutrition disorders	2 5%	.	.	.
Psychiatric disorders	1 2%	.	.	.
Skin and subcutaneous tissue disorders	.	.	1 3%	.

In patients >= 61 years:

# Patients	HD-Ara-C			
	MBVP 42		R-MBVP 39	
	grade 3	grade 4	grade 3	grade 4
-Any-	6 14%	3 7%	6 15%	.
Investigations	1 2%	2 5%	1 3%	.
Blood and lymphatic disorders	1 2%	1 2%	1 3%	.
Infections and infestations	1 2%	.	2 5%	.
Nervous system disorders	1 2%	.	1 3%	.
Congenital, familial and genetic disorders	1 2%	.	.	.
Ear and labyrinth disorders	.	.	1 3%	.
Gastrointestinal disorders	.	.	1 3%	.
Metabolism and nutrition disorders	1 2%	.	.	.

Vascular disorders 1 2% . . .

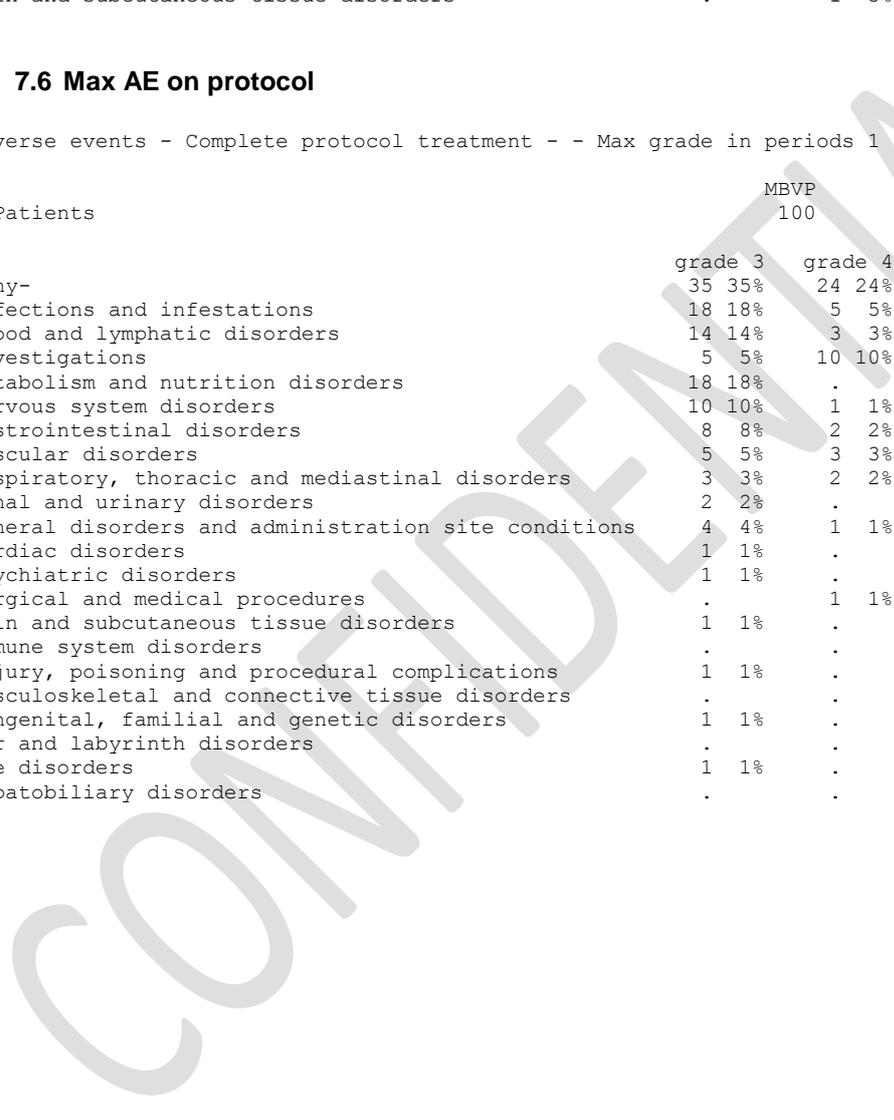
7.5 Consolidation with WBRT

# Patients	WBRT	
	MBVP 34	R-MBVP 36
-Any-	3 9%	3 8%
Eye disorders	1 3%	.
Gastrointestinal disorders	1 3%	.
General disorders and administration site conditions	1 3%	.
Infections and infestations	.	1 3%
Nervous system disorders	.	1 3%
Skin and subcutaneous tissue disorders	.	1 3%

7.6 Max AE on protocol

Adverse events - Complete protocol treatment - - Max grade in periods 1 2 3 4 - CTC grades: 3, 4

# Patients	MBVP 100		R-MBVP 99	
	grade 3	grade 4	grade 3	grade 4
-Any-	35 35%	24 24%	44 44%	19 19%
Infections and infestations	18 18%	5 5%	15 15%	6 6%
Blood and lymphatic disorders	14 14%	3 3%	13 13%	3 3%
Investigations	5 5%	10 10%	10 10%	7 7%
Metabolism and nutrition disorders	18 18%	.	12 12%	1 1%
Nervous system disorders	10 10%	1 1%	14 14%	1 1%
Gastrointestinal disorders	8 8%	2 2%	8 8%	1 1%
Vascular disorders	5 5%	3 3%	6 6%	2 2%
Respiratory, thoracic and mediastinal disorders	3 3%	2 2%	7 7%	1 1%
Renal and urinary disorders	2 2%	.	5 5%	1 1%
General disorders and administration site conditions	4 4%	1 1%	2 2%	.
Cardiac disorders	1 1%	.	4 4%	1 1%
Psychiatric disorders	1 1%	.	4 4%	.
Surgical and medical procedures	.	1 1%	3 3%	.
Skin and subcutaneous tissue disorders	1 1%	.	2 2%	.
Immune system disorders	.	.	2 2%	.
Injury, poisoning and procedural complications	1 1%	.	1 1%	.
Musculoskeletal and connective tissue disorders	.	.	2 2%	.
Congenital, familial and genetic disorders	1 1%	.	.	.
Ear and labyrinth disorders	.	.	1 1%	.
Eye disorders	1 1%	.	.	.
Hepatobiliary disorders	.	.	1 1%	.



8. Serious adverse events

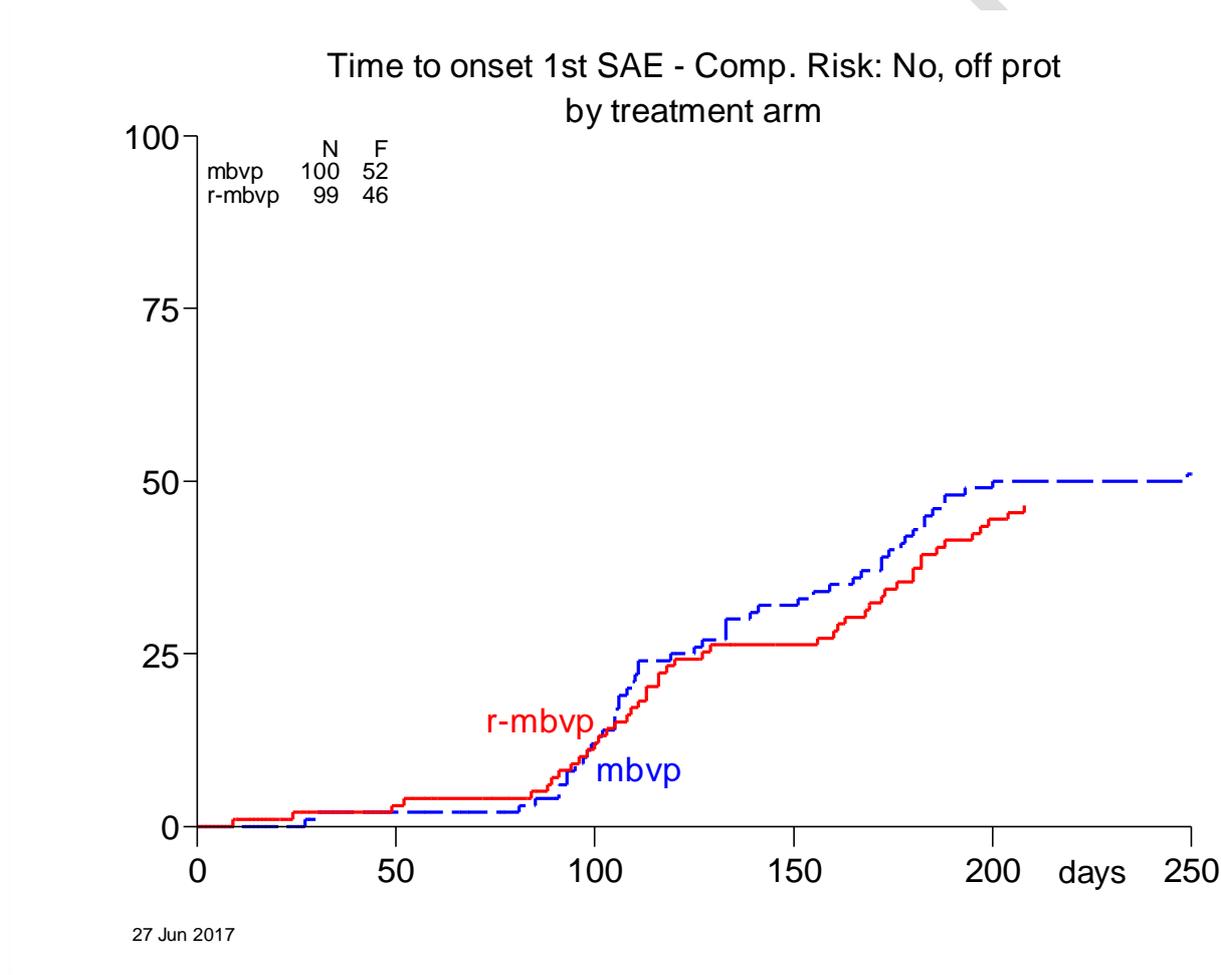
	Arm 1st randomisation				Total	
	mbvp		r-mbvp			
	[# and column %]		[# and column %]			
Total	100	100%	99	100%	199	100%
SAE report(s)						
No	52	52%	46	46%	98	49%
Yes	40	40%	48	48%	88	44%
Yes, dead	8	8%	5	5%	13	7%
# SAE's						
0	52	52%	46	46%	98	49%
1	29	29%	33	33%	62	31%
2	16	16%	15	15%	31	16%
3	2	2%	4	4%	6	3%
4	1	1%	1	1%	2	1%
	Rnr 1 rand. arm				Total	
	mbvp		r-mbvp			
	[# and column %]		[# and column %]			
Total SAEs	71	100%	79	100%	150	100%
Reason AE is Serious						
death	4	6%	2	3%	6	4%
life-threatening	8	11%	8	10%	16	11%
hospitalization	55	77%	60	76%	115	77%
disability	3	4%	1	1%	4	3%
other condition	1	1%	8	10%	9	6%
Relationship to any trial medication						
unrelated	16	23%	14	18%	30	20%
unlikely	16	23%	17	22%	33	22%
possible	18	25%	18	23%	36	24%
probable	15	21%	24	30%	39	26%
definite	4	6%	6	8%	10	7%
.	2	3%	-		2	1%
Outcome of SAE						
resolved completely	48	68%	63	80%	111	74%
resolved with sequelae	5	7%	3	4%	8	5%
ongoing	4	6%	3	4%	7	5%
death	7	10%	5	6%	12	8%
ongoing at death	2	3%	3	4%	5	3%
ongoing closed	4	6%	2	3%	6	4%
.	1	1%	-		1	1%

8.1 Time to onset 1st SAE per patient

	Arm 1st randomisation				Total	
	mbvp		r-mbvp			
	[# and column %]		[# and column %]			
Total	100	100%	99	100%	199	100%
SAE indicator						
SAE	48	48%	53	54%	101	51%
No, off prot.	52	52%	46	46%	98	49%
**** (Time to 1st SAE or OFF, or censored at dlc [months])						
no : #	-> NO					
sae : #	-> SAE					
off : #	-> OFF					

Time [mnth]	1														2													
	N	sae	off	Max	Med	#at	NO	se	SAE	se	OFF	se	#at	NO	se	SAE	se	OFF	se									
	#	#	# [m]	[m]	#	%	%	%	%	%	%	#	%	%	%	%	%	%	%									

Total	199	101	98	9	3	143	72	3	26	3	2	1	116	58	3	39	3	3	1
Arm 1st randomisation																			
mbvp	100	48	52	9	3	75	75	4	23	4	2	1	64	64	5	34	5	2	1
r-mbvp	99	53	46	7	3	68	69	5	29	5	2	1	52	53	5	43	5	4	2
Time [mnth]																			
	N	sae	off	Max	Med	3						6							
	#	#	#	[m]	[m]	#at	NO	se	SAE	se	OFF	se	#at	NO	se	SAE	se	OFF	se
						#	%	%	%	%	%	%	#	%	%	%	%	%	%
Total	199	101	98	9	3	93	47	4	46	4	7	2	16	8	2	51	4	41	3
Arm 1st randomisation																			
mbvp	100	48	52	9	3	51	51	5	43	5	6	2	9	9	3	48	5	43	5
r-mbvp	99	53	46	7	3	42	42	5	49	5	8	3	7	7	3	54	5	39	5



27 Jun 2017

Cox regression

Time: onset1 Time to 1st SAE or OFF, or censored at dlc [days]
 Fail: onsetli

Variable	Nobs	Nfail	Chi2	df	P_value	RelHR	SE	[95% Conf Limits]
:r-mbvp - arml	199	101	.912	1	3.4e-01	1.21	0.24	0.82 1.79

8.2 Conclusions

- The proportion of patients with at least one SAE is 48% in arm A, versus 54% in arm B;
- The actuarial proportion of patients with an SAE within 1 months is 23% and 29% in arm A and arm B, respectively, and doubles at 6 months (48% vs. 54%).