

**Supplemental Table1** - Number of Patients by Molecular Response at Study Time-points

	<b>At CR</b>	<b>3mos</b>	<b>6mos</b>	<b>9 mos</b>	<b>12 mos</b>
<b>CMR</b>	13	26	21	22	17
<b>MMR</b>	23	26	26	21	16
<b>No MMR</b>	26	6	8	4	4

**Legend** – CR: complete response; mos: months; CMR: complete molecular response; MMR: Major molecular response

**Figure 5 (Supplement)** – Survival by comparing patients achieving CMR, to those with MMR at different time points. None of the P values are significant when comparing these 2 subgroups.

Figure 5a - Supplement

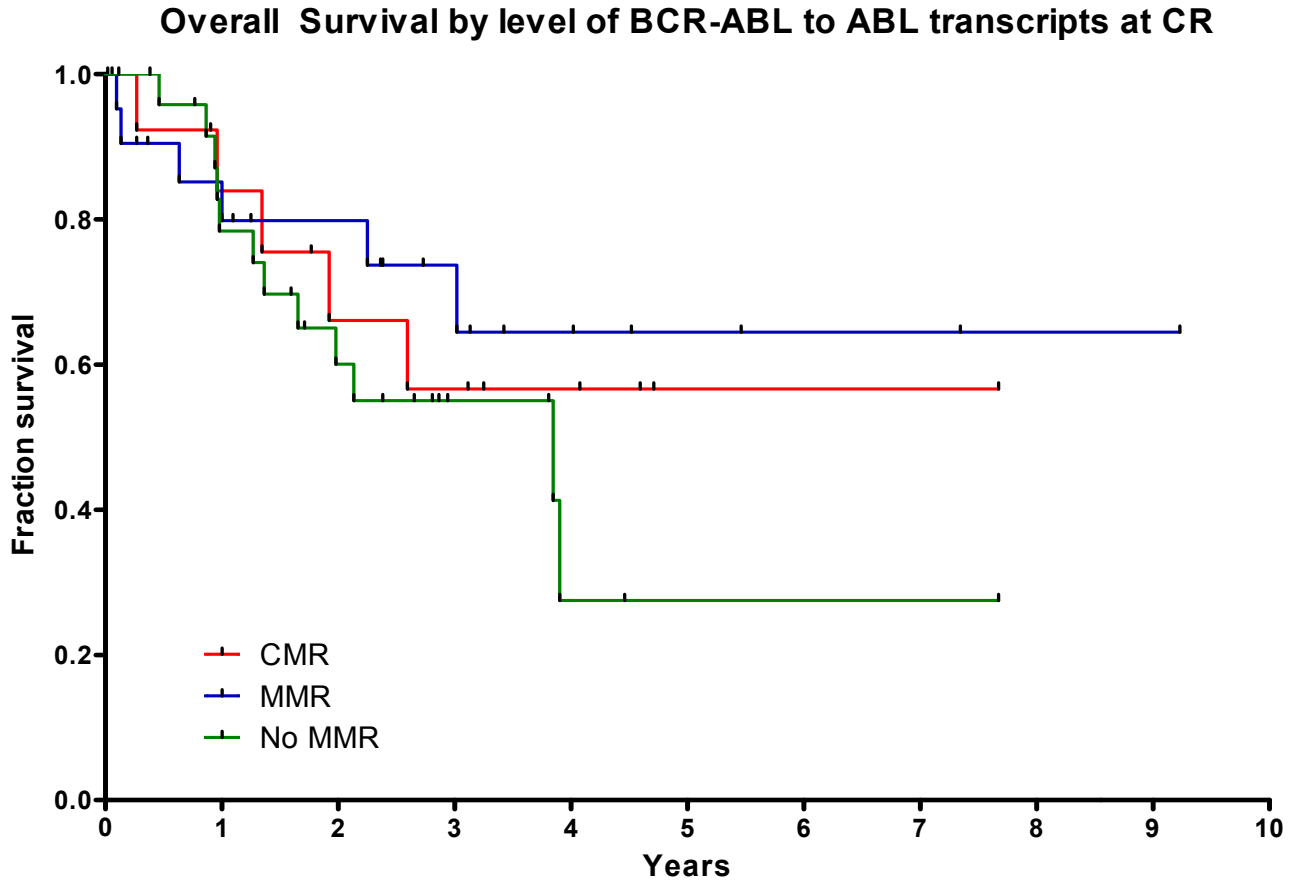


Figure 5b - Supplement

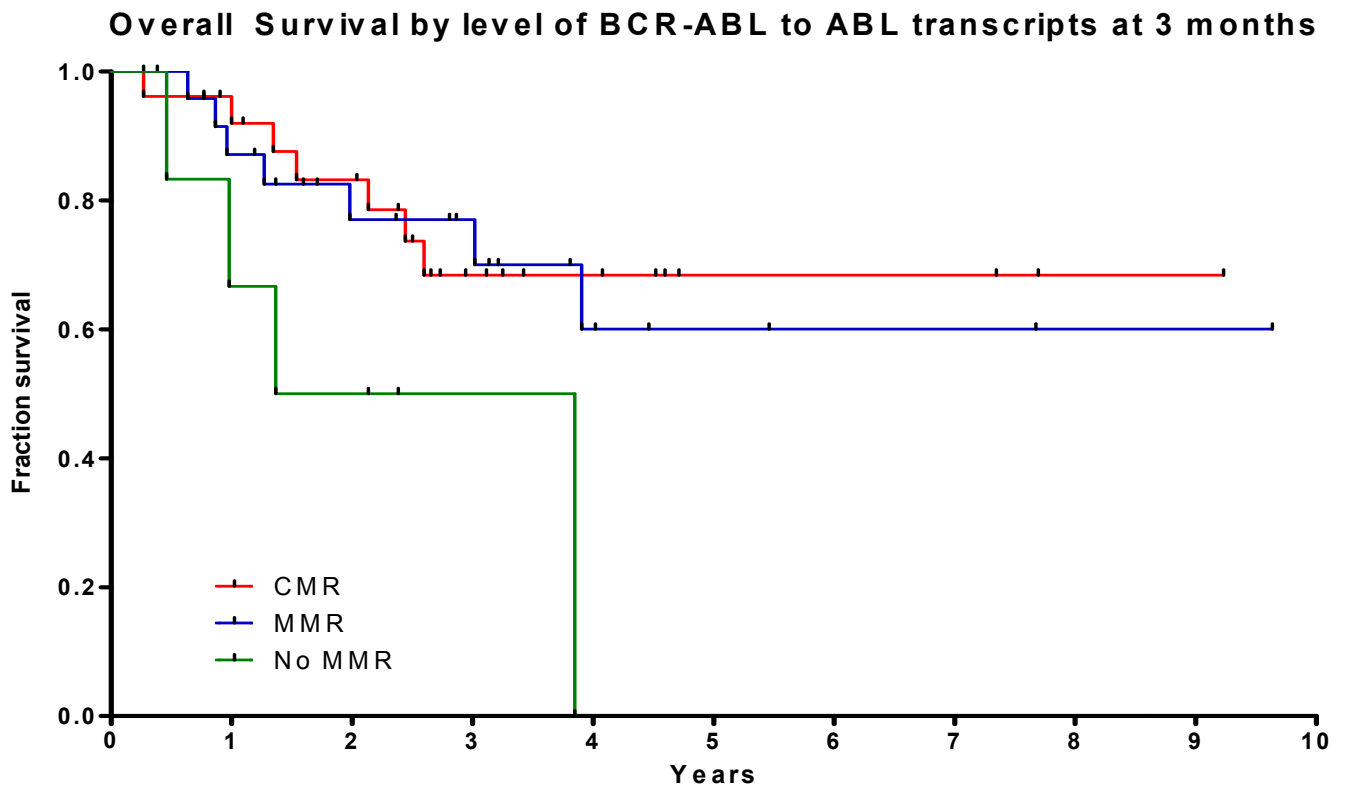


Figure 5c - Supplement

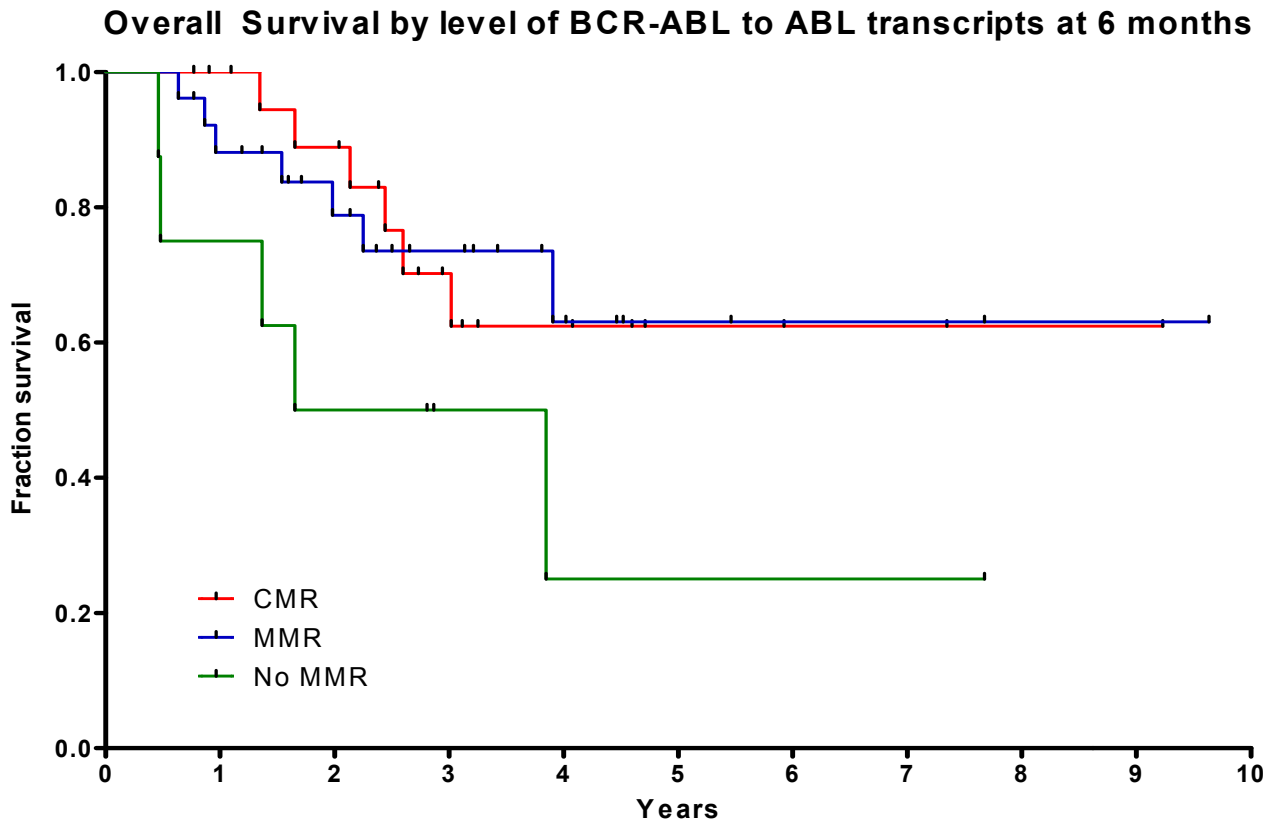


Figure 5d - Supplement

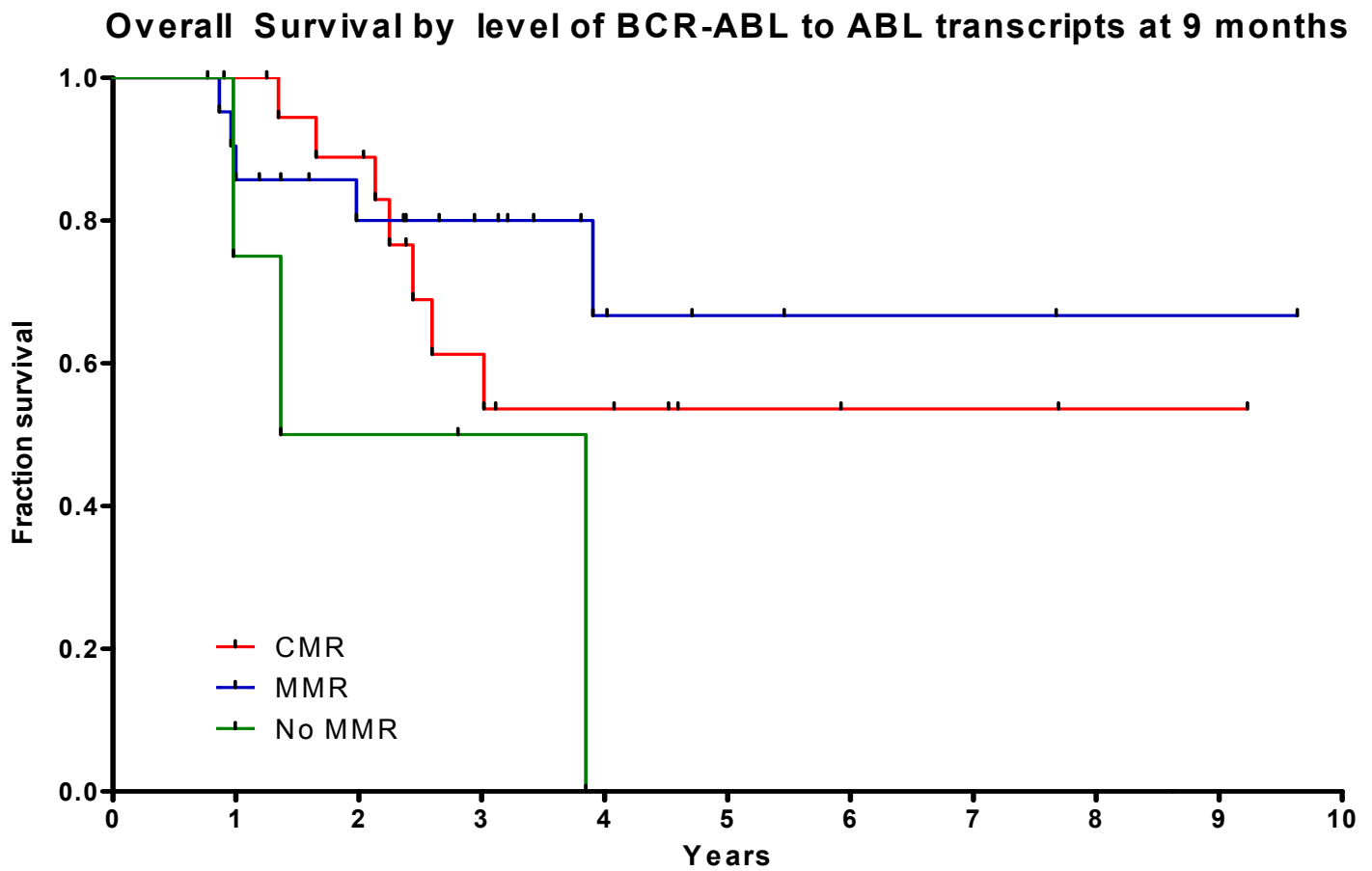
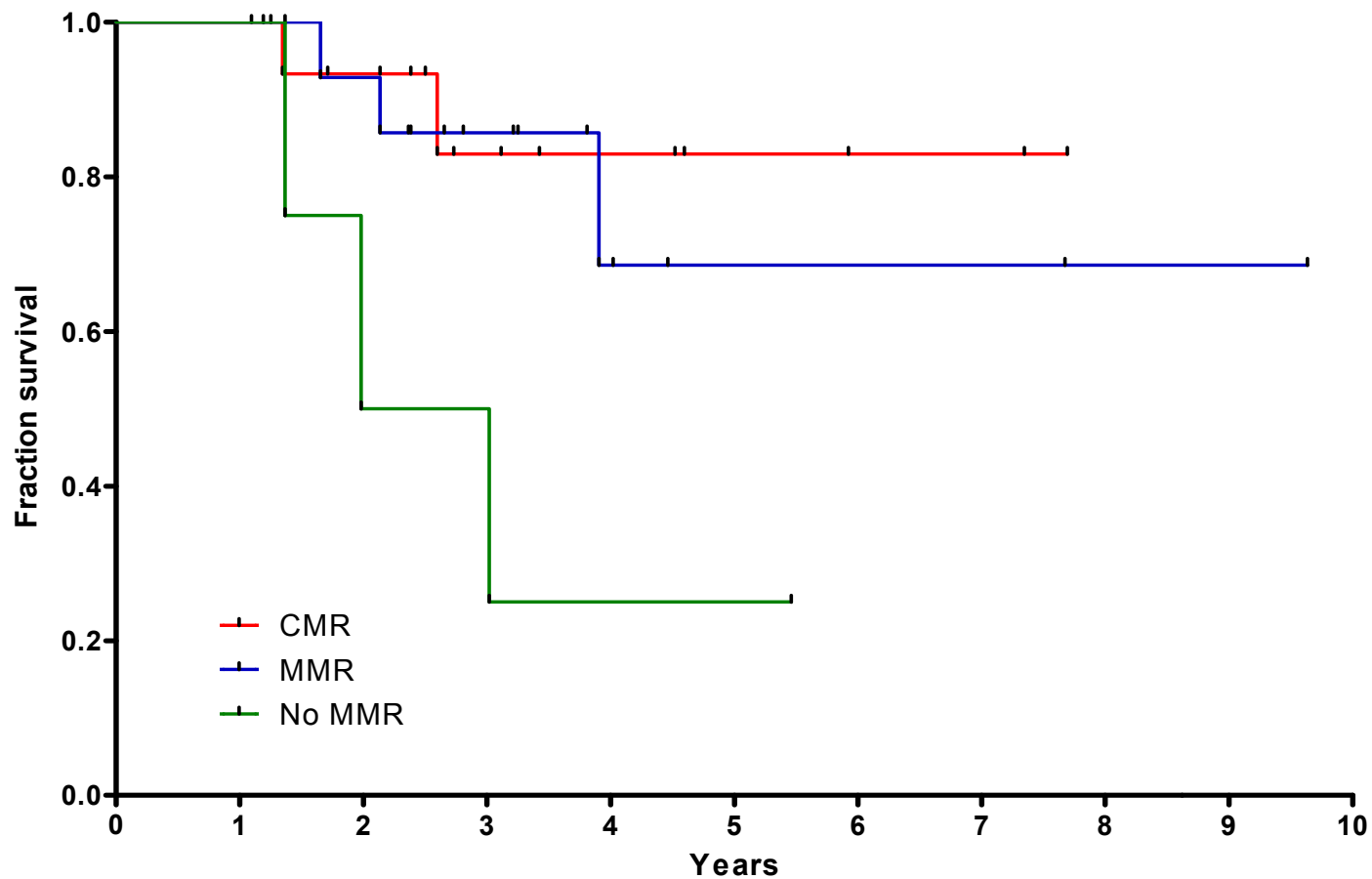


Figure 5e - Supplement

### Overall Survival by level of BCR-ABL to ABL transcripts at 12 months



**Supplemental Table 2** - Kinetics of MRD in 44 patients who had at least one positive test by MFC or value of  $\geq 0.1$  by PCR for *BCR-ABL* between CR and 12 months after therapy.

HCVAD+Imatinib		CR	3 mos	6 mos	9 mos	12 mos	Relapse Status	Vital Status
							Time from start	Time from start
Pt 1	BCR-ABL	Pos	Pos	Pos	Pos	ND	Relapse	Died
	IGH	Neg	Neg	ND	Neg	ND	38 mos	46 mos
	MFC	Neg	Neg	Neg	Neg	ND		
	Cyto (%Ph+)	Neg	Neg	Neg	25	ND		
	FISH (%Ph+)	ND	Neg	Neg	26.5	ND		
Pt 2	BCR-ABL	Pos	ND	Pos	CMR	MMR	Relapse	Died
	IGH	Pos	ND	Neg	Neg	Neg	20 mos	21 mos
	MFC	1.2	Neg	ND	Neg	Neg		
	Cyto (%Ph+)	Neg	ND	Neg	Neg	Neg		
	FISH (%Ph+)	Neg	ND	Neg	Neg	Neg		
Pt 3	BCR-ABL	Pos	MMR	ND	Relapse		Relapse	Died
	IGH	Neg	Neg	Neg			9 mos	15 mos
	MFC	Neg	0.02-0.04	Neg				
	Cyto (%Ph+)	Neg	Neg	Neg				
	FISH (%Ph+)	Neg	Neg	2.5				
Pt 4	BCR-ABL	Pos	MMR	MMR	MMR	MMR	Relapse	Died
	IGH	Pos	Pos	Pos	Neg	Neg	43 mos	47 mos
	MFC	ND	ND	Neg	Pos	Pos		
	Cyto (%Ph+)	Neg	Neg	Neg	Neg	Neg		
	FISH (%Ph+)	Neg	Neg	Neg	Neg	Neg		
Pt 5	BCR-ABL	Pos	CMR	CMR	CMR	MMR	Relapse	Died
	IGH	Pos	Neg	Neg	Neg	Neg	16 mos	26 mos
	MFC	Pos	ND	Neg	Neg	0.13		
	Cyto (%Ph+)	Neg	Neg	Neg	Neg	Neg		
	FISH (%Ph+)	1.5	Neg	Neg	ND	ND		
Pt 6	BCR-ABL	MMR	MMR	ND	MMR	Relapse	Relapse	Died
	IGH	Neg	Neg	ND	Neg		12 mos	12 mos
	MFC	0.01	Neg	ND	Neg			
	Cyto (%Ph+)	Neg	Neg	ND	Neg			
	FISH (%Ph+)	ND	Neg	ND	ND			
Pt 7	BCR-ABL	CMR	ND	ND	ND	ND	Relapse	Died
	IGH	Neg	ND	ND	ND	ND	22 mos	23 mos
	MFC	Pos	ND	ND	ND	ND		
	Cyto (%Ph+)	Neg	ND	ND	ND	ND		
	FISH (%Ph+)	8	ND	ND	ND	ND		
Pt 8	BCR-ABL	Pos	Pos	Pos	Pos	Pos		Died in CR
	IGH	Neg	Neg	Neg	Neg	Neg		16 mos
	MFC	Neg	Neg	Neg	Neg	Neg		
	Cyto (%Ph+)	10	5	15	5	10		
	FISH (%Ph+)	4.5	4	11	6.5	4.5		
Pt 9	BCR-ABL	Pos	Pos	Pos	Died			Died in CR
	IGH	ND	Neg	Neg				6 mos
	MFC	0.12	Neg	Neg				
	Cyto (%Ph+)	Neg	Neg	Neg				
	FISH (%Ph+)	ND	Neg	Neg				
Pt 10	BCR-ABL	ND	ND	Pos	Died			Died in CR
	IGH	Neg	ND	Neg				6 mos
	MFC	Neg	ND	Neg				
	Cyto (%Ph+)	ND	ND	Neg				
	FISH (%Ph+)	ND	ND	Neg				

HCVAD+Imatinib cont.		CR	3 mos	6 mos	9 mos	12 mos	Relapse Status Time from start	Vital Status Time from start
Pt 11	BCR-ABL	Pos	MMR	MMR	MMR	Died		Died in CR
	IGH	Neg	Neg	Pos	ND			12 mos
	MFC	Neg	Neg	Neg	Neg			
	Cyto (%Ph+)	Neg	Neg	Neg	Neg			
	FISH (%Ph+)	2.5	Neg	Neg	ND			
Pt 12	BCR-ABL	Pos	MMR	Pos	ND	ND		Alive
	IGH	Neg	ND	ND	ND	ND		
	MFC	ND	ND	ND	ND	ND		
	Cyto (%Ph+)	20	Neg	21				
	FISH (%Ph+)	13.5	Neg	11				
Pt 13	BCR-ABL	MMR	MMR	MMR	MMR	Pos		Alive
	IGH	Neg	Neg	Neg	Neg	Neg		
	MFC	ND	Neg	Neg	ND	Neg		
	Cyto (%Ph+)	Neg	Neg	Neg	Neg	Neg		
	FISH (%Ph+)	Neg	Neg	Neg	Neg	Neg		
Pt 14	BCR-ABL	MMR	CMR	CMR	ND	CMR		Alive
	IGH	Neg	Neg	Neg	ND	ND		
	MFC	ND	Neg	Pos	ND	ND		
	Cyto (%Ph+)	Neg	Neg	Neg	ND	Neg		
	FISH (%Ph+)	Neg	Neg	Neg	ND	Neg		
Pt 15	BCR-ABL	Pos	MMR	MMR	ND	MMR		Alive
	IGH	Neg	Neg	ND	ND	Neg		
	MFC	Neg	Neg	Neg	ND	Neg		
	Cyto (%Ph+)	Neg	Neg	Neg	ND	Neg		
	FISH (%Ph+)	Neg	Neg	ND	ND	ND		
Pt 16	BCR-ABL	ND	ND	CMR	CMR	CMR		Alive
	IGH	ND	ND	Neg	Neg	Neg		
	MFC	0.03	ND	Neg	Neg	Neg		
	Cyto (%Ph+)	Neg	ND	Neg	Neg	Neg		
	FISH (%Ph+)	ND	ND	Neg	Neg	ND		

HCVAD+Dasatinib		CR	3 mos	6 mos	9 mos	12 mos	Relapse Status	Vital Status
							Time from start	Time from start
Pt 17	BCR-ABL	Pos	MMR	MMR	CMR	Pos	Relapse	Died
	IGH	ND	Neg	Neg	Neg	Neg	14 mos	24 mos
	MFC	0.21	Neg	Neg	Neg	0.6		
	Cyto (%Ph+)	Neg	Neg	Neg	Neg	Neg		
	FISH (%Ph+)	ND	ND	ND	ND	ND		
Pt 18	BCR-ABL	MMR	MMR	CMR	CMR	Pos	Relapse	Died
	IGH	Pos	ND	ND	ND	Susp	17 mos	36 mos
	MFC	0.01	ND	Neg	Neg	0.08		
	Cyto (%Ph+)	Neg	ND	Neg	Neg	Neg		
	FISH (%Ph+)	Neg	ND	ND	ND	ND		
Pt 19	BCR-ABL	Pos	ND	ND	Relapse		Relapse	Died
	IGH	Pos	Pos	ND			8 mos	11 mos
	MFC	0.04	0.04	ND				
	Cyto (%Ph+)	Neg	Neg	ND				
	FISH (%Ph+)	ND	ND	ND				
Pt 20	BCR-ABL	Pos	MMR	Pos	ND	ND	Relapse	Alive
	IGH	Neg	Neg	Neg	ND	ND	19 mos	
	MFC	Neg	Neg	Neg	ND	ND		
	Cyto (%Ph+)	ND	Neg	Neg	ND	ND		
	FISH (%Ph+)	ND	ND	ND	ND	ND		
Pt 21	BCR-ABL	Pos	MMR	MMR	MMR	MMR	Relapse	Alive
	IGH	Neg	Neg	ND	ND	Neg	29 mos	
	MFC	Neg	Neg	Neg	Neg	Neg		
	Cyto (%Ph+)	Neg	ND	ND	ND	Neg		
	FISH (%Ph+)	Neg	ND	ND	ND	ND		
Pt 22	BCR-ABL	Pos	MMR	MMR	MMR	Relapse	Relapse	Alive
	IGH	ND	Neg	Neg	ND		12 mos	
	MFC	ND	Neg	Neg	ND			
	Cyto (%Ph+)	Neg	Neg	ND	ND			
	FISH (%Ph+)	ND	ND	ND	ND			
Pt 23	BCR-ABL	Pos	Pos	ND	Pos	Died		Died in CR
	IGH	Neg	ND	ND	ND			12 mos
	MFC	Neg	Neg	ND	ND			
	Cyto (%Ph+)	15	5	ND	5			
	FISH (%Ph+)	ND	ND	ND	4			
Pt 24	BCR-ABL	Pos	MMR	MMR	MMR	Died		Died in CR
	IGH	ND	Neg	Neg	ND			10 mos
	MFC	ND	Neg	Neg	ND			
	Cyto (%Ph+)	Neg	Neg	Neg	ND			
	FISH (%Ph+)	4.5	Neg	Neg	ND			
Pt 25	BCR-ABL	Pos	MMR	Died				Died in CR
	IGH	ND	Pos					6 mos
	MFC	2.5	0.005-0.01					
	Cyto (%Ph+)	Neg	Neg					
	FISH (%Ph+)	Neg	ND					
Pt 26	BCR-ABL	MMR	Died					Died in CR
	IGH	Pos						2 mos
	MFC	0.04						
	Cyto (%Ph+)	Neg						
	FISH (%Ph+)	Neg						



HCVAD+Dasatinib cont.		CR	3 mos	6 mos	9 mos	12 mos	Relapse Status Time from start	Vital Status Time from start
Pt 27	BCR-ABL	MMR	Died					Died in CR
	IGH	Neg						1 mos
	MFC	0.06						
	Cyto (%Ph+)	ND						
	FISH (%Ph+)	Neg						
Pt 28	BCR-ABL	ND	Died					Died in CR
	IGH	Neg						2 mos
	MFC	0.02						
	Cyto (%Ph+)	Neg						
	FISH (%Ph+)	Neg						
Pt 29	BCR-ABL	MMR	MMR	MMR	MMR	MMR		Alive
	IGH	Neg	ND	Neg	ND	ND		
	MFC	0.02	Neg	Neg	Neg	ND		
	Cyto (%Ph+)	Neg	Neg	ND	ND	ND		
	FISH (%Ph+)	Neg	ND	ND	ND	ND		
Pt 30	BCR-ABL	Pos	MMR	MMR	ND	CMR		Alive
	IGH	ND	ND	ND	ND	ND		
	MFC	0.2	ND	Neg	ND	Neg		
	Cyto (%Ph+)	5	ND	Neg	ND	Neg		
	FISH (%Ph+)	2	ND	Neg	ND	Neg		
Pt 31	BCR-ABL	ND	MMR	MMR	MMR	MMR		Alive
	IGH	ND	Pos	Neg	Neg	Neg		
	MFC	ND	Neg	Neg	Neg	Neg		
	Cyto (%Ph+)	Neg	Neg	Neg	Neg	Neg		
	FISH (%Ph+)	ND	ND	ND	ND	Neg		
Pt 32	BCR-ABL	Pos	Pos	ND	MMR	MMR		Alive
	IGH	Neg	ND	ND	ND	ND		
	MFC	Neg	Neg	ND	Neg	Neg		
	Cyto (%Ph+)	Neg	Neg	ND	Neg	Neg		
	FISH (%Ph+)	ND	ND	ND	ND	ND		
Pt 33	BCR-ABL	Pos	Pos	MMR	CMR	CMR		Alive
	IGH	ND	ND	Neg	ND	ND		
	MFC	Neg	Neg	Neg	Neg	Neg		
	Cyto (%Ph+)	ND	ND	Neg	Neg	Neg		
	FISH (%Ph+)	3.5	ND	Neg	Neg	ND		
Pt 34	BCR-ABL	Pos	MMR	Pos	Pos	MMR		Alive
	IGH	Pos	ND	ND	ND	ND		
	MFC	Pos	ND	ND	ND	Neg		
	Cyto (%Ph+)	Neg	ND	ND	Neg	ND		
	FISH (%Ph+)	Neg	ND	ND	ND	ND		
Pt 35	BCR-ABL	MMR	CMR	MMR	CMR	CMR		Alive
	IGH	Neg	Neg	Neg	Neg	Neg		
	MFC	0.05	0.001	Neg	Neg	Neg		
	Cyto (%Ph+)	Neg	Neg	Neg	Neg	Neg		
	FISH (%Ph+)	ND	Neg	ND	ND	ND		
Pt 36	BCR-ABL	Pos	ND	ND	ND	ND		Alive
	IGH	Pos	Pos	ND	ND	ND		
	MFC	0.32	0.02	ND	ND	ND		
	Cyto (%Ph+)	5	Neg	ND	ND	ND		
	FISH (%Ph+)	ND	ND	ND	ND	ND		

HCVAD+Dasatinib cont.		CR	3 mos	6 mos	9 mos	12 mos	Relapse Status Time from start	Vital Status Time from start
Pt 37	BCR-ABL	Pos	MMR	MMR	MMR	MMR		Alive
	IGH	Neg	Neg	Pos	Neg	Neg		
	MFC	Neg	Neg	Neg	Neg	Neg		
	Cyto (%Ph+)	Neg	Neg	Neg	Neg	Neg		
	FISH (%Ph+)	4.6	ND	ND	ND	ND		
Pt 38	BCR-ABL	Pos	CMR	CMR	MMR	ND		Alive
	IGH	Pos	Neg	ND	ND	ND		
	MFC	Pos	Neg	Neg	Neg	Neg		
	Cyto (%Ph+)	Neg	Neg	Neg	ND	Neg		
	FISH (%Ph+)	4	ND	Neg	ND	Neg		
Pt 39	BCR-ABL	Pos	MMR	MMR	CMR	ND		Alive
	IGH	ND	ND	ND	ND	ND		
	MFC	Neg	Neg	Neg	Neg	ND		
	Cyto (%Ph+)	Neg	ND	Neg	Neg	Neg		
	FISH (%Ph+)	Neg	ND	Neg	Neg	ND		
Pt 40	BCR-ABL	ND	MMR	MMR	MMR	MMR		Alive
	IGH	Pos	Neg	ND	Neg	Neg		
	MFC	Pos	Neg	ND	Neg	Neg		
	Cyto (%Ph+)	Neg	Neg	ND	Neg	Neg		
	FISH (%Ph+)	ND	ND	ND	ND	ND		
Pt 41	BCR-ABL	MMR	CMR	CMR	ND	CMR		Alive
	IGH	Neg	Neg	Neg	Neg	Pos		
	MFC	<0.01	Neg	Neg	Neg	Neg		
	Cyto (%Ph+)	Neg	Neg	Neg	Neg	Neg		
	FISH (%Ph+)	ND	ND	ND	ND	ND		
Pt 42	BCR-ABL	ND	CMR	MMR	ND	CMR		Alive
	IGH	Neg	ND	Neg	ND	Neg		
	MFC	0.023	Neg	Neg	ND	Neg		
	Cyto (%Ph+)	ND	Neg	Neg	ND	Neg		
	FISH (%Ph+)	ND	ND	ND	ND	ND		
Pt 43	BCR-ABL	MMR	ND	ND	ND	ND		Alive
	IGH	Pos	ND	ND	ND	ND		
	MFC	0.015	ND	ND	ND	ND		
	Cyto (%Ph+)	Neg	ND	ND	ND	ND		
	FISH (%Ph+)	Neg	ND	ND	ND	ND		
Pt 44	BCR-ABL	MMR	ND	ND	ND	ND		Alive
	IGH	Neg	Neg	ND	ND	ND		
	MFC	0.02	Neg	ND	ND	ND		
	Cyto (%Ph+)	Neg	Neg	ND	ND	ND		
	FISH (%Ph+)	ND	Neg	ND	ND	ND		