

Supplemental Table 1: Univariate analysis of potential factors influencing the risk for invasive fungal disease

			Univariate analysis
	No IFD [n (%)]	Proven/probable IFD [n (%)]	P value
Country			
Italy	1985 (97.1)	60 (2.9)	<0.0001
Austria	360 (98.1)	7 (1.9)	
Switzerland	231 (96.7)	8 (3.3)	
Germany	2257 (96.5)	81 (3.5)	
Czech Republic	375 (94.0)	24 (6.0)	
Australia	292 (92.1)	25 (7.9)	
Israel	255 (93.1)	19 (6.9)	
Sex			
male	3332 (96.5)	121 (3.5)	0.25
female	2423 (95.9)	103 (4.1)	
Age			
0-<2 years	405 (96.4)	15 (3.6)	<0.0001
2-<6 years	2904 (97.3)	81 (2.7)	
6-<12 years	1495 (97.2)	43 (2.8)	
12-<15 years	525 (93.4)	37 (6.6)	
15-<18 years	426 (89.9)	48 (10.1)	
Down Syndrome			
no	5614 (96.3)	218 (3.7)	0.83
yes	141 (95.9)	6 (4.1)	
Immunophenotype*			
Precursor B All	4956 (96.7)	169 (3.3)	<0.0001
T-ALL	778 (93.5)	54 (6.5)	
Blast count in bone marrow on day 15 by flow-cytometry			
<0.1%	1979 (97.1)	61 (2.9)	<0.0001
<10%	2880 (97.0)	89 (3.0)	
≥10%	659 (91.5)	61 (8.5)	
PCR MRD (final)*			
Standard	1879 (96.9)	60 (3.1)	<0.0001
Intermedium	2893 (97.0)	90 (3.0)	
medium-SER	352 (94.9)	19 (5.1)	
High	215 (92.0)	19 (8.1)	
Risk group (final)			
Standard risk (SR)	1952 (97.4)	52 (2.6)	<0.0001
Intermedium risk (MR)	2553 (97.0)	79 (3.0)	
High risk (HR)	1250 (93.1)	93 (6.9)	

IFD invasive fungal disease

*only evaluable data included

Supplemental Table 2: Multivariate analysis of potential factors influencing the risk for invasive fungal disease

			Multivariate analysis		
#	No IFD (n (%))	Proven/probable IFD (n (%))	P value	OR	95% CI
Sex					
male	3332 (96.5)	121 (3.5)	0.09	1.3	0.96-1.7
female	2423 (95.9)	103 (4.1)			
Age					
0-<12 years	4804 (97.2)	139 (2.9)	<0.0001	2.8	2.1-3.8
12-<18 years	951 (91.8)	85 (8.2)			
Down Syndrome					
no	5614 (96.3)	218 (3.7)	0.88	0.93	0.37-2.3
yes	141 (95.9)	6 (4.1)			
Immunophenotype*					
Precursor B ALL	4956 (96.7)	169 (3.3)	0.12	1.3	0.9-1.9
T-ALL	778 (93.5)	54 (6.5)			
Blast count in bone marrow on day 15 by FCM					
<10.%	4849 (97.0)	150 (3.0)	<0.0001	2.3	1.7-3.2
≥10%	659 (91.5)	61 (8.5)			

OR Odds ratio; CI confidence interval; IFD invasive fungal disease

*only evaluable data included

first row standard

Supplemental Table 3: Multivariate analysis of factors influencing event-free survival and overall survival

#	Event-free survival			Overall survival		
	P	Hazard ratio	95% CI	P	Hazard ratio	95% CI
Age						
0-<12 years	<0.001	1.34	1.14-1.57	<0.001	1.73	1.38-2.16
12-<18 years						
Proven/probable IFD						
no	<0.001	1.88	1.43-2.47	<0.001	2.58	1.85-3.61
yes						
Immunophenotype*						
Precursor B All	0.026	0.80	0.66-0.97	0.07	1.25	0.98-1.60
T-ALL						
Genetic aberration						
others	<0.001	0.62	0.50-0.77	<0.001	0.50	0.34-0.75
ETV6/RUNX1						
Blast count in bone marrow on day 15						
<10.%	<0.001	1.52	1.26-1.83	<0.001	1.76	1.36-2.27
≥10%						
PCR MRD (final)*						
SR/MR	<0.001	2.09	1.77-2.47	<0.001	2.668	2.08-3.4
High						

CI confidence interval; IFD invasive fungal disease

*only evaluable data included

first row standard