

**Supplementary Table 1 The results from univariate analysis and multivariate analysis of prognostic factor of chronic lymphocytic leukemia.** The univariate analysis showed that 11 univariate variables with  $P < 0.05$  contributed to be poor prognostic factor. The factors with univariate analysis  $p < 0.1$  were included in the multivariate model for stepwise regression analysis. The variables in bold are statistically significant within the multivariable analysis.

Factors	univariate analysis			Multivariable analysis		
	P value	HR	95%CI	P value	HR	95%CI
Female	0.826	1.088	0.512-2.313			
Age						
<45		1				
≥45, <65	0.035	0.366	0.143-0.933			
≥65	0.082	0.389	0.135-1.126			
<b>CLL-IPI High risk</b>	<b>&lt;0.001</b>	6.758	3.134-14.573	<b>0.025</b>	2.824	1.136-7.02
del(13q)	0.113	1.977	0.851-4.591			
<b>del(11q)</b>	<b>0.002</b>	3.388	1.546-7.424	<b>0.002</b>	3.772	1.615-8.807
del(17p)	<0.001	5.474	2.060-14.545			
TP53 mutation	0.059	2.765	0.963-7.938			
IGHV Unmutated	0.044	2.082	1.018-4.255			
Initial WBC ( $\times 10^9/L$ )						
≥100		1				
≥50, <100	0.938	0.941	0.206-4.307			
<50	0.114	0.308	0.071-1.329			
Initial HGB (g/L)						
≥110		1				
≥90, <110	0.3	1.679	0.63-4.474			
<90	<0.001	7.759	2.999-20.074			
<b>Initial PLT(&lt;100<math>\times 10^9/L</math>)</b>	<b>&lt;0.001</b>	6.373	2.764-14.691	<b>0.003</b>	<b>4.261</b>	<b>1.626-11.165</b>
Initial LYM (%)						
≥80		1				
≥50, <80	<b>0.022</b>	0.319	0.12-0.846			
<50	0.79	1.142	0.430-3.032			
Initial LYM( $\times 10^9/L$ )						
>100		1				
≥50, <100	0.754	1.292	0.260-6.418			
<50	0.143	0.339	0.080-1.444			
Bulky disease	0.035	2.625	1.071-6.432			
Extranodal	0.807	1.196	0.285-5.021			
Hepatomegaly	0.996	0.997	0.237-4.184			
<b>Splenomegaly</b>	<b>0.002</b>	3.651	1.629-8.181	<b>0.009</b>	<b>3.239</b>	<b>1.344-7.806</b>
EGR2 mutation	<0.001	5.5	2.2-14			
FBXW7 mutation	0.0014	4.4	1.8-11			

