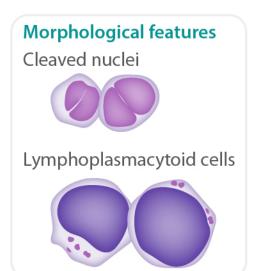
The unique morphology, immunophenotype and cytogenetics of chronic lymphocytic leukemia (CLL) with +12

Chromosomal abnormali	ties in CLLs	+12
13q14 deletion	46%	999
trisomy 12	20-25%	
11q23.3-q23.1 deletion	18%	
17p13 deletion	12%	AAA





Prognostic risk with +12

Median time for treatment: 33 months Median overal survival: 14 months

Stereotype B-cell receptor prevalence

High prevalence of IGHV 4-39 gene
IGHV 4-39*01 (stereotype) > IGHV 1-3*01

Molecular abnormalities

TP53 mutations: rare

NOTCH1 mutations: frequent (30-40%)

Immunophenotype

Immunophenotype panel: CD5+, CD23+, FMC7-, surface immunoglobulin (slg)dim, CD22dim-, CD79bdim-

High expression of: CD19, CD22, CD20, CD79b, CD24, CD27, CD38, CD49d, slgM, slgk, slgλ

Low expression of: CD43

Integrings: CD11b, CD18, CD29, ITGB7 **Adhesion molecules**: CD25, CD54, CD95