

del(17p) in non-Hodgkin's lymphoma (NHL)

Identity

Note the 17p- chromosome is a secondary change in most cases of NHL

Clinics and Pathology

Disease virtually all histologic subsets of NHL may harbour a 17p- chromosome; there is variation in the reported incidence due to heterogeneity of histologic classification and to the different sensitivity of the detection methods

10 to 15% of [follicle centre cell lymphoma \(FCCL\)](#) and [mantle cell lymphomas \(MCL\)](#) may carry a 17p- chromosome; minority of [marginal zone B-cell lymphomas](#) may be associated with 17p deletion

this anomaly is rarely found in T-cell NHL

Prognosis the 17p- chromosome was reported to predict for a poor prognosis in low grade lymphomas; any abnormality of chromosome 17 was also reported to negatively affect survival in lymphomas of all histologic grades

Cytogenetics

Cytogenetics the deleted segment may vary in size and many cases with sub-Morphological microscopic deletions involving the 17p13 band were reported by FISH; cases with unbalanced 17p translocations leading to 17p loss were also described; these cases may be associated with dicentric rearrangements

the 17p- is usually associated with transformation of a low-grade FCCL with [t\(14;18\)](#) into a high grade lymphoma; likewise, there is a higher incidence of 17p- in the blastoid variant of MCL with [t\(11,14\)](#) than in the typical form

Cytogenetics the deletion may be detected by G or R-banding; FISH using a Molecular 17p13/p53 probe is recommended, this technique being more sensitive than conventional cytogenetics

Genes involved and Proteins

Note the majority of cases with 17p- carry a [p53](#) gene deletion, associated with mutation of the remaining allele; there may be a small fraction of cases with a more distal deletion involving an as yet unidentified locus

External links

Other [del\(17p\) in non-Hodgkin's lymphoma database \(NHL\)](#) [Mitelman database \(CGAP - NCBI\)](#)

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Written 12-2000 Antonio Cuneo, Gianluigi Castoldi

Citation

This paper should be referenced as such :

Cuneo A and Castoldi G . del(17p) in non-Hodgkin's lymphoma (NHL). Atlas Genet Cytogenet Oncol Haematol. December 2000 .

URL :

<http://www.infobiogen.fr/services/chromcancer/Anomalies/del17pNHLID2083.html>

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