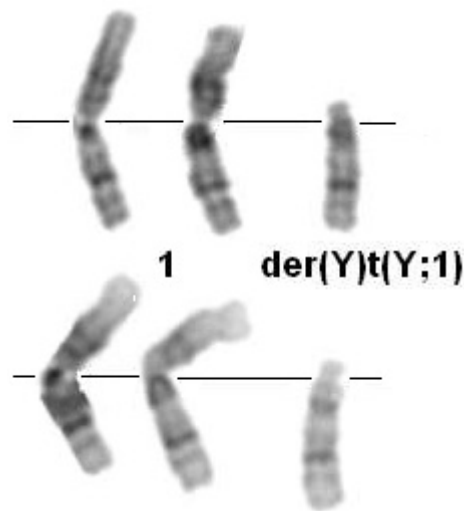


t(Y;1)(q12;q12)

Identity



der(Y)t(Y;1)(q12;q12) G-banding

Clinics and Pathology

- Disease** 10 cases of hematological malignancy with der(Y)t(Y;1) had been reported to date. There were 8 cases of myelodysplastic syndrome, 1 case of polycythemia vera and 1 case of myelofibrosis.
- Phenotype / cell stem origin** Suggested involvement of a pluripotent stem cell or a myeloid progenitor cell
- Etiology** Presence of der(Y)t(Y;1)(q12;q12) abnormality is relatively restricted to myelodysplastic syndrome.
- Prognosis** Owing to the small number of cases reported, the prognostic implication of der(Y)t(Y;1) remains to be defined. It is however known to be compatible with long survival of up to 13 ÷ 15 years. This aberration occurs as a transient abnormality in one case.

Cytogenetics

Cytogenetics found it the unbalanced form + der(Y)t(Y;1)(q12;q12)
Morphological

Genes involved and Proteins

Note Genes involved are unknown. Whether an increased dosage of gene products located at 1q12-qter or the breakpoint at chromosomal location of Yq12 is important in the pathogenesis of MDS remains to be elucidated. Furthermore, since juxtaposition of heterochromatin and euchromatin has been shown to affect gene function, this may contribute to the pathogenic mechanism underlying der(Y)t(Y;1) as the heterochromatin at Yq12 is involved in the translocation.

External links

Other database [t\(Y;1\)\(q12;q12\)](#) [Mitelman database \(CGAP - NCBI\)](#)

Other database [t\(Y;1\)\(q12;q12\)](#) [CancerChromosomes \(NCBI\)](#)

To be noted

Additional cases are needed to delineate the epidemiology of this rare entity:
you are welcome to submit a paper to our new [Case Report section](#).

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Written 05-2002 Thomas SK Wan and Edmond SK Ma

Citation

This paper should be referenced as such :

Wan TSK, Ma ESK . t(Y;1)(q12;q12). Atlas Genet Cytogenet Oncol Haematol. May 2002 .

URL :

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