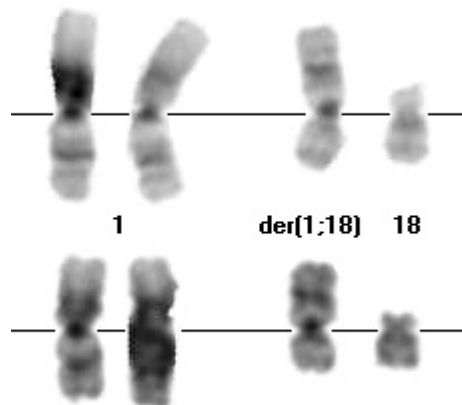


## t(1;18)(q10;q10)

### Identity



der(1;18)(q10;q10) G- banding

### Clinics and Pathology

<b>Disease</b>	Only two cases of hematological malignancy with der(1;18) are reported in the literature. In both instances der(1;18) occurs as the sole karyotypic abnormality. They are found in two patients suffering from myeloid disorders.
Phenotype / cell stem origin	Unknown, but may involve a myeloid progenitor cell as both reported cases can be grouped under myeloid malignancy
Clinics	The first case was a 23-year old male who presented as myelodysplastic syndrome that rapidly progressed to acute myeloid leukemia, and died of neutropenic sepsis at induction phase. The second case was a 65-year old female diagnosed as chronic myeloproliferative disorder, unclassifiable, and run a chronic stable clinical course for years. She however suffered from recurrent pyogenic cutaneous infection
Prognosis	Owing to the small number of cases reported, the prognostic implication of der(1;18)(q10;q10) remains to be defined. The clinical outcome of the two reported cases were markedly different, with one having rapid downhill course and short survival whereas the other one having chronic disease again if necessary

### Cytogenetics

Cytogenetics found in the unbalanced form -18, + der(1;18), with trisomy for 1q and Morphological monosomy for 18p.

### Genes involved and Proteins

Note Genes involved are unknown. Mechanistically, either trisomy 1q or monosomy 18p that results from the unbalanced translocation may

potentially contribute to leukemogenesis. Trisomy 1q, arising through duplication or unbalanced translocations, is a recurrent theme in the myeloid disorders. Examples of such rearrangements include [der\(1;7\)\(q10;q10\)](#) and [der\(Y\)t\(Y;1\)\(q12;q12\)](#). Chromosomes with large constitutive heterochromatin bands such as chromosome 1 may be at risk of centromeric instability and be predisposed to centromeric fusion with other chromosomes.

### External links

Other database [t\(1;18\)\(q10;q10\)](#) [Mitelman database \(CGAP - NCBI\)](#)

Other database [t\(1;18\)\(q10;q10\)](#) [CancerChromosomes \(NCBI\)](#)

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Br J Haematol 1997; 98: 213-215.  
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Wan TSK, Ma SK, Au WY, Chan LC.  
Cancer Genet Cytogenet 2001; 128: 35-38.  
Medline [11454427](#)

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### Citation

*This paper should be referenced as such :*

**Ma E, Wan TSK** . t(1;18)(q10;q10). Atlas Genet Cytogenet Oncol Haematol. September 2002 .

URL : <http://AtlasGeneticsOncology.org/Anomalies/t0118q10q10ID1254.html>

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