t(X;20)(q13;q13.3)  

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Identity

Fig. 1. Partial karyotypes of the translocation t(X;20)(q13;q13.3) for cases 1-4 (top to bottom; see case report section). Arrows indicate the derivatives 20 and X.

Clinics and pathology

Disease  
Myelodysplastic syndromes (MDS): refractory anaemia with excess of blasts (RAEB-RAEBt), refractory anaemia (RA), MDS sideroblastic anemia and MDS pancytopenia and thrombocytopenia most often (5 cases); polycytemia vera --> acute myeloid leukemia (AML)-M1; myelofibrosis --> acute leukemia.

Epidemiology  
Only 7 cases to date and they are exclusively female: 0 Male/7 Female; found in older patients (Median age 61 years; range: 57-86).

Clinics  
Still poorly known.
Cytogenetics

Cytogenetics morphological
Sole abnormality in 5 MDS cases and accompanying changes +8, +9, del(13)(q21) and der(1;7)(q10;p10) in 2 cases that transformed to AML.

Cytogenetics molecular
By FISH the cytogenetic breakpoint was proximal to AR gene and hence the breakpoint on X chromosome is t(X;20)(q11.2;q12;q13.3).

To be noted

Case Report
Translocation (X;20)(q13;q13.3): a nonrandom abnormality in four patients with myeloid disorders: case 1
Translocation (X;20)(q13;q13.3): a nonrandom abnormality in four patients with myeloid disorders: case 2
Translocation (X;20)(q13;q13.3): a nonrandom abnormality in four patients with myeloid disorders: case 3

References
Gray BA, Cornfield D, Bent-Williams A and Zori RT. Translocation (X;20)(q13.1;q13.3) as a primary chromosomal finding in two patients with myelocytic disorders. Cancer Genet Cytogenet 2003;141:169-174

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