**i(5)(p10) in acute myeloid leukemia**

Claudia Schoch

MLL Münchner Leukämielabor GmbH, Max-Lebsche-Platz 31, 81377 München, Germany (CS)

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**Identity**

**Note**
The isochromosome of the short arm of chromosome 5 - i(5)(p10) - has only been described in a few cases of myeloid leukemia. So far it has not been described as the sole abnormality. In four cases the i(5)(p10) was accompanied by trisomy 8, in three cases the i(5)(p10) occurred in addition to two normal chromosomes 5. An i(5)(p10) was also described in cases with a complex aberrant karyotype.

**Clinics and pathology**

**Phenotype/cell stem origin**
Classified as AML, predominantly AML M5a.

**Etiology**
Unclear.

**Epidemiology**
Mean age 40-50 yrs.

**Clinics**
Blood data WBC 8-40 x 10^9/l, platelet counts 15-114 x 10^9/l.

**Cytology**
Typical cytomorphological features of AML M5a with more than 80% of bone marrow cells being monoblasts showing strong cytochemical reaction with nonspecific esterase. Expression of CD33 and CD65.

**Treatment**
According to AML protocols.

**Prognosis**
Unclear due to low number of cases, seems to be poor.

**Cytogenetics**

**Cytogenetics morphological**
Isochromosome of the short arm of chromosome 5.

**Additional anomalies**
Trisomy 8, gain of chromosome 5.

**Genes involved and proteins**

**Note**
Gene dosage effect of genes located on the short arm of chromosome 5?

**References**


This article should be referenced as such: