

# Leukaemia Section

## Short Communication

### t(7;12)(q36;p13)

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## Clinics and pathology

### Phenotype/cell stem origin

ANLL of various subtypes: M1, M3V (with t(15;17) FISH negative), M4, M5, M7, and RAEB-t.

### Epidemiology

At least 9 cases known; may be overlooked, and therefore underestimated; was found in 3% of children cases of ANLL, that was also 15% of infant cases of ANLL under 18 months; sex ratio 3M/3F, age : 0-20 months (n= 9), median 8 months (n=6).

### Clinics

WBC range 8-230 x 10<sup>9</sup>/L, median 12 x 10<sup>9</sup>/L; organomegaly, central nervous system involvement in 3 of 6 cases.

### Prognosis

Poor prognosis: of 6 cases, one case had no remission and died at 7 months; 4 case had relapse (duration first remission 1-20 months), 2 cases are still alive (16 months + and 33 months +).

## Cytogenetics

### Cytogenetics morphological

May be misdiagnosed as del(12)(p13).

### Cytogenetics molecular

Therefore, molecular cytogenetics is recommended.

### Additional anomalies

+19 in 4 of 6 cases.

## Genes involved and proteins

**Note:** The gene in 7q36 is still unknown.

### ETV6

**Location:** 12p13

### DNA/RNA

9 exons; alternate splicing.

### Protein

Contains a Helix-Loop-Helix and ETS DNA binding domains; wide expression; nuclear localisation; ETS-related transcription factor.

## References

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