Case Report Section
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A case of Down syndrome with acute lymphoblastic leukemia and t(8;14)(q11;q32)

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Clinics

Age and sex
17 years old male patient.

Previous history
No preleukemia. No previous malignancy. Inborn condition of note Down syndrome patient.

Organomegaly
No hepatomegaly, no splenomegaly, no enlarged lymph nodes, no central nervous system involvement.

Blood

WBC: 32.9X 10⁹/l
HB: 7.7g/dl
Platelets: 9X 10⁹/l
Blasts: 90%

Cyto-Pathology Classification

Cytology
ALL - L1

Immunophenotype

CD10 (CALLA) positive; CD66 positive.

Diagnosis
Early pre-B ALL.

Survival

Date of diagnosis: 04-2001
Treatment: Treated on protocol BFM 95 - medium risk group.
Complete remission was obtained.
Status: Dead.
Survival: The patient died 1 month after diagnosis as a result of sepsis.

Karyotype

Sample: Bone marrow.
Culture time: 24h
Banding: R
Results: 47,XY, der(14)t(8;14)(q11;q32),+21 "c" [17]/47,XY,+21 "c" [3]
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Comments

Call for Collaborations

- Both bone marrow samples are stored: Bone marrow cell suspension, isolated RNA and DNA from the first examination you can get at address: Dr. Jan Trka - jan.trka@lfmoto1.cuni.cz.
- Isolated nucleic acids (both RNA and DNA) and cDNA from the second examination are available at the address below: Dr. Zdenek Fiedler - fiedler@fhk.cuni.cz

References

- Lee AC, Chan LC, Kwong KW. Down syndrome, acute lymphoblastic leukemia, and t(8;14)(q11;q32) Cancer Genet Cytogenet. 1996 May;88(1):92

This article should be referenced as such: