

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.

Comments : Second cytogenetic examination: 47,XY,+21[70] - complete cytogenetic response.

Status: Dead.

Survival: The patient died 1 month after diagnosis as a result of sepsis.

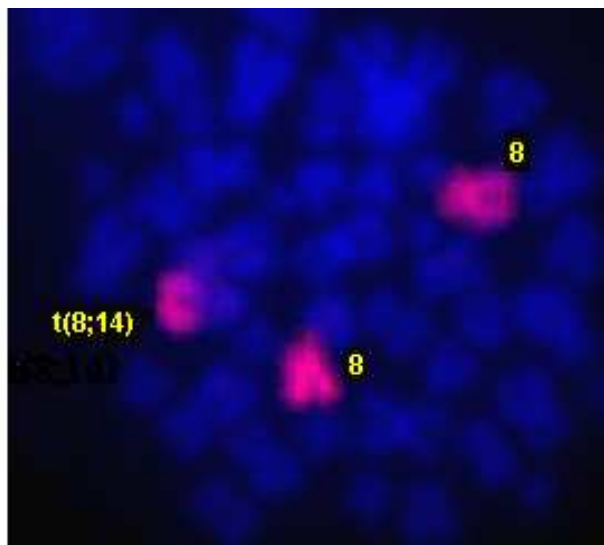
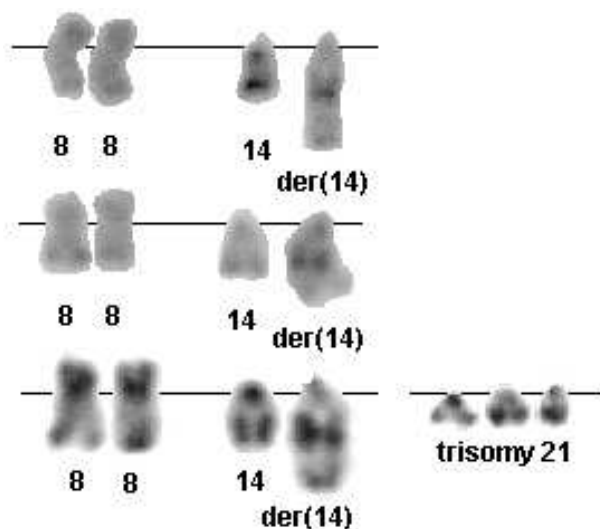
Karyotype

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]



der(14) t(8;14)(q11;q32) R- banding; the constitutional trisomy 21 is shown only on the bottom mitosis (left); chromosome 8 paint (right) - Petr Balicek, Jana Rabasova, Jiri Hak.

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@lfmotol.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@lfhk.cuni.cz

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