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Clinical Image

Myelodysplastic Syndrome with Isolated del (5q) Evolved to Acute Myeloid Leukemia LMA-M6 Subtype

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The 5q- syndrome is characterized by a macrocytic anemia with a normal- elevated platelet count, erythroid hypoplasia, large mononuclear (LMN) megakaryocytes and the 5q31 deletion as the sole karyotypic abnormality. It is associated with long survival and



Figure 1: A Bone Marrow (BM) aspirate showing LMN megakaryocytes (a); Blasts with round nucleus with basophilic and vacuolated cytoplasm (b-d); PAS staining and myeloperoxidase positive (e-f).

low rate of acute leukemic transformation. A 79-year-old woman presented with blood counts of Hb 98 g/L, VCM 109 fL, neutrophils 1.5x10⁹/L and platelets 87x10⁹/L. A bone marrow (BM) aspirate showed LMN megakaryocytes (Figure 1a) and a karyotype with the del (5)(q14q33). It was diagnosed of a myelodysplastic syndrome (MDS) with isolated del (5q). Months later, blood counts dropped and a BM study showed 37% of blasts with round nucleus with basophilic and vacuolated cytoplasm (Figure 1 b-d), PAS staining positive (Figure 1 e-f) and immunophenotype with CD34-, CD117+, CD71+, CD105+ (Figure 2a). Karyotype showed clonal evolution (Figure 2b). This is a rare case because of the exceptional transformation of an MDS with isolated del(5) to an acute erythroid leukemia.



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