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An unusual karyotype in leiomyoma: Case report and literature review

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Abstract

Vascular leiomyoma are uncommon, clinically benign smooth muscle tumors. Here we report a case of an otherwise typical leiomyoma with unusual cytogenetic changes including t(1;10). Reports from the existing literature suggest that approximately 40-50% of leiomyomas contain nonrandom chromosomal abnormalities of which a subset is tumor specific. t(12;14)(q15;q24) is one of the most common translocations, which occur in approximately 20% of karyotypes. Additional aberrations include del(7)(q22-q32), trisomy 12, and 6p21 rearrangements. Other recurrent abnormalities include monosomy 22, monosomy 10, del(10q), and structural rearrangements of chromosome 3.

Keywords: Leiomyoma; Leiomyosarcoma; Smooth muscle tumors; t(1 ;10).

Figures

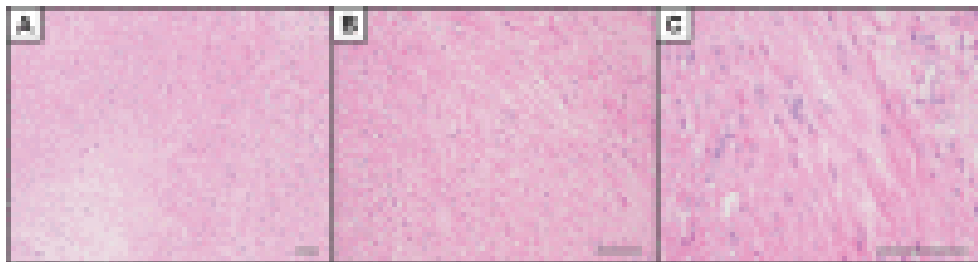


Fig. 1

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Histologic appearance of tumor. (A–C)...



Fig. 2

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Cytogenetic findings. Chromosome analysis reveals...