

IDIOPATHIC SCOLIOSIS IN MONOZYGOTIC TWIN: CASE REPORT AND REVIEW OF POSSIBLE FACTOR

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Introduction: The etiology of a Idiopathic scoliosis is still unclear. Studies on concordancy for idiopathic scoliosis in monozygotic twins provide a basis for analyzing the relative influence of genetic versus environmental factors, the aim of this study is to report a case in monozygotic twins and review the literature relating to the description of similar cases

Discussion: patient is 18y.o female monozygotic twins who born in june 2002. scoliosis was diagnosed at age 17y.o. the mother's history does not include exposure to smoke, toxins or drugs during pregnancy and the family history does not feature any cases of congenital spinal malformations. no pathological findings were noted on the skin or, while the examination results for the remaining systems were within normal limits. no accompanying musculoskeletal abnormalities or neurological symptomatology noted. During AP view of whole spine x-ray, we found that cobb's angle on twin 1 is 60' with left scoliosis and twin 2 is 60' with also left scoliosis-COMLETE IDENTICAL

Conclusion: Monozygosity is defined as twins having identical DNA fingerprinting and completely similar physical characteristics Monozygotic twins are oftener concordant for AIS than dizygotic ones (1) found concordance in 12 of 13 monozygotic twin pairs Our twin-pair had no other abnormalities of the spine on clinical and radiographic examinations and had the similar physical characteristics. its not uncommon for identical twins to have scoliosis but its is uncommon for both of them to have identical severity and cobb's angle of scoliosis. Riseborough and Wynne-Davies considered that curve severity in monozygotic twins depends on a number of factors, such as the age of development, the speed of progression and environmental factors(2) .For this type of case operative surgery was offered however patient and family not keen for it