Condition: Smith-Lemli-Opitz syndrome

Inheritance:

Autosomal recessive.

Genetic etiology:

Mutation in *DHCR7* gene, which encodes 7-dehydrocholesterol reductase.

Frequency:

1/20,000 - 1/40,000 births.

Clinical features:

Smith-Lemli-Opitz syndrome is a multiple congenital anomaly disorder due to failure in cholesterol synthesis due to deficiency of 7-dehydrocholesterol reductase. Features include growth retardation, microcephaly, severe mental retardation, cleft palate, cardiac defects, polydactyly, syndactyly of the second and third toes, and underdevelopment of male genitalia.

Management:

Supportive care; dietary supplementation with cholesterol.

Genetic counseling:

Based on autosomal recessive inheritance; molecular genetic testing available.