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Genetic Disorders and the Fetus: Diagnosis, Prevention, and Treatment

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The definitive reference work on prenatal diagnosis, Genetic Disorders and the Fetus is now available in a completely revised and updated fifth edition reflecting the most current advances in research, technology, and clinical care.

Written by an international team of experts, the volume provides an in-depth critical analysis and synthesis of the latest work in prenatal diagnosis of genetic disorders and fetal malformations. This volume represents a substantial repository of facts and emphasizes important advances in the prenatal detection and screening for cystic fibrosis, neural tube defects, chromosomal abnormalities, hemoglobinopathies, and fragile X syndrome. Technical advances in fetal blood sampling, abortion, and fetal therapy are highlighted, and an enormous personal experience with chorionic villus sampling provides valuable lessons and guidance. The extensive compilation of information concerning the prenatal detection of chromosomal abnormalities is essential to all those engaged daily in prenatal genetic diagnosis.

Other topics include: multianalyte screening for neural tube and chromosomal defects, with special reference to the first-trimester screening; fetal imaging; advances in molecular genetics that facilitate prenatal diagnosis and the indications, limitations, pitfalls, and guidelines for this type of testing; and the prenatal diagnosis of lipid, mucopolysaccharide, amino acid, folate, and other metabolic disorders, congenital adrenal hyperplasia, and immunodeficiency disorders. A comprehensive review and synthesis of the medicolegal and ethical aspects of prenatal genetic diagnosis completes this heavily referenced, up-to-date volume.

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