

Χαρακτηριστικά:

- Serves as a **one-stop resource** for key concepts and information on obstetric imaging and the diagnosis and management of fetal/maternal issues, including dramatic new changes in technology, guidelines, and emerging practice areas
- Covers **important new changes in technology**, including recent innovations in 3D ultrasound and fetal MR, as well as the earliest ultrasound findings seen with each condition, emphasizing first-trimester diagnosis
- Contains **new material** on microarray, whole exome, and whole genome analysis; **new guidelines** from multiple fetal-imaging organizations; and **new chapters** on fetal interventional procedures and surgery, including chest interventions, fetal neural tube treatment, urinary tract interventions, and monochorionic twin intervention
- Offers **more than 300 concise, informative chapters** arranged by organ system; includes embryology and anatomy overview chapters at the beginning of each main section; and offers comprehensive coverage of differential diagnosis throughout
- Features **3,100+ high-quality print images (with an additional 2,000+ images and 175 videos in the complimentary eBook)**, including radiology images, full-color medical illustrations, clinical photographs, and gross pathology and histology images
- Emphasizes **multidisciplinary involvement** from expert contributing authors in radiology, perinatology, cardiology, pediatrics, surgery, and clinical genetics
- Uses **succinct bulleted text and highly templated chapters** for quick comprehension of essential information at the point of care
- **Includes an eBook** that allows you access to everything in the print version as well as **new text, 175 videos, and thousands of additional images and references**, with the ability to search, customize your content, make notes and highlights, and have content read aloud; additional digital ancillary content may publish up to 6 weeks following the publication date

Περιεχόμενα:

SECTION 1: FIRST TRIMESTER

INTRODUCTION AND OVERVIEW

Embryology and Anatomy of the First Trimester

Approach to the Early First Trimester

Early Anatomy

ABNORMAL INTRAUTERINE GESTATION

Early Pregnancy Loss

Perigestational Hemorrhage

Chorionic Bump

Complete Hydatidiform Mole

ECTOPIC GESTATION

Tubal Ectopic
Interstitial Ectopic
Cesarean Scar Ectopic Pregnancy
Cervical Ectopic
Ovarian Ectopic
Heterotopic Pregnancy
Abdominal Ectopic

SECTION 2: BRAIN

INTRODUCTION AND OVERVIEW

Embryology and Anatomy of the Brain
Approach to the Supratentorial Brain
Approach to the Posterior Fossa

CRANIAL DEFECTS

Exencephaly, Anencephaly
Occipital, Parietal Cephalocele
Atretic Cephalocele
Frontal Cephalocele

MIDLINE DEVELOPMENTAL ANOMALIES

Abnormal Corpus Callosum
Interhemispheric Cyst/AVID
Aprosencephaly, Atelencephaly
Alobar Holoprosencephaly
Semilobar Holoprosencephaly
Lobar Holoprosencephaly
Septo-Optic Dysplasia
Syntelencephaly

CORTICAL DEVELOPMENTAL ANOMALIES

Schizencephaly
Lissencephaly
Malformations of Cortical Development

CYSTS

Choroid Plexus Cyst
Arachnoid Cyst

DESTRUCTIVE LESIONS

Intracranial Hemorrhage
Encephalomalacia, Porencephaly
Hydranencephaly

POSTERIOR FOSSA MALFORMATIONS

Aqueductal Stenosis
Chiari 2 Malformation
Chiari 3 Malformation
Dandy-Walker Malformation
Vermian Dysgenesis
Blake Pouch Cyst
Mega Cisterna Magna
Cerebellar Hypoplasia
Rhombencephalosynapsis

VASCULAR MALFORMATIONS

Vein of Galen Aneurysmal Malformation
Arteriovenous Fistula
Dural Sinus Malformation

TUMORS

Brain Tumors
Choroid Plexus Papilloma
Intracranial Lipoma

PERTINENT DIFFERENTIAL DIAGNOSES

Absent Cavum Septi Pellucidi
Mild Ventriculomegaly
Microcephaly
Abnormal Calvarium
Posterior Fossa Cyst/Fluid Collection

SECTION 3: SPINE

Embryology and Anatomy of the Spine
Approach to the Fetal Spine
Spina Bifida
Iniencephaly
Caudal Regression Sequence
Kyphosis, Scoliosis
Tethered Cord
Diastematomyelia
Sacrococcygeal Teratoma

FETAL INTERVENTION

Fetal Neural Tube Treatment

SECTION 4: FACE AND NECK

Embryology and Anatomy of the Face and Neck
Approach to the Fetal Face and Neck
Cleft Lip, Palate
Dacryocystocele
Coloboma
Epignathus
Epulis
Goiter
Cystic Hygroma
Cervical Teratoma

PERTINENT DIFFERENTIAL DIAGNOSES

Abnormal Orbits/Eyes
Abnormal Ears
Micrognathia
Macroglossia

SECTION 5: CHEST

Embryology and Anatomy of the Chest
Approach to the Fetal Chest
Congenital Diaphragmatic Hernia
Congenital Pulmonary Airway Malformation
Bronchopulmonary Sequestration
Bronchogenic Cyst
Congenital High Airway Obstruction Sequence (CHAOS)
Congenital Lobar Overinflation
Pulmonary Agenesis
Thoracic Lymphatic Malformations
Mediastinal Teratoma

PERTINENT DIFFERENTIAL DIAGNOSES

Solid/Echogenic Chest Mass
Cystic Chest Mass

FETAL INTERVENTION

Fetal Chest Interventions

SECTION 6: HEART

INTRODUCTION AND OVERVIEW

Embryology and Anatomy of the Cardiovascular System
Approach to the Fetal Heart

ABNORMAL LOCATION

Heterotaxy, Cardiosplenic Syndromes

Ectopia Cordis

SEPTAL DEFECTS

Ventricular Septal Defect

Atrioventricular Septal Defect

Atrial Septal Aneurysm

RIGHT HEART MALFORMATIONS

Ebstein Anomaly

Tricuspid Dysplasia

Tricuspid Atresia

Pulmonary Stenosis, Atresia

LEFT HEART MALFORMATIONS

Hypoplastic Left Heart Syndrome

Coarctation and Interrupted Aortic Arch

Aortic Stenosis

Total Anomalous Pulmonary Venous Return

CONOTRUNCAL MALFORMATIONS

Tetralogy of Fallot

Transposition of the Great Arteries

Truncus Arteriosus

Double-Outlet Right Ventricle

MYOCARDIAL AND PERICARDIAL ABNORMALITIES

Echogenic Intracardiac Focus

Cardiomyopathy

Rhabdomyoma

Pericardial Effusion

Pericardial Teratoma

ABNORMAL RHYTHM

Irregular Rhythm

Tachyarrhythmia

Bradyarrhythmia

PERTINENT DIFFERENTIAL DIAGNOSES

Vascular Rings

Abnormal Cardiac Axis

Chamber Asymmetry

CONGENITAL HEART DISEASE SURGERY

Blalock-Taussig Shunt

Norwood Procedure
Glenn Procedure
Fontan Procedure

SECTION 7: ABDOMINAL WALL AND GASTROINTESTINAL TRACT

INTRODUCTION AND OVERVIEW

Embryology and Anatomy of the Abdominal Wall and GI Tract
Approach to the Abdominal Wall and GI Tract

ABDOMINAL WALL DEFECTS

Gastroschisis
Omphalocele
Pentalogy of Cantrell
Body Stalk Anomaly
Bladder Exstrophy
Cloacal Exstrophy/OEIS Syndrome

BOWEL ABNORMALITIES

Esophageal Atresia
Duodenal Atresia
Jejunal, Ileal Atresia
Colonic Atresia
Anal Atresia
Cloacal Malformation/Urogenital Sinus
Volvulus
Enteric Duplication Cyst

PERITONEAL ABNORMALITIES

Meconium Peritonitis, Pseudocyst
Abdominal Lymphatic Malformation

HEPATOBIILIARY ABNORMALITIES

Gallstones
Choledochal Cyst
Splenic Cyst
Gestational Alloimmune Liver Disease
Biliary Atresia
Congenital Hepatic Hemangioma
Mesenchymal Hamartoma
Hepatoblastoma

PERTINENT DIFFERENTIAL DIAGNOSES

Echogenic Bowel
Ascites

Cystic Abdominal Mass
Hepatomegaly

SECTION 8: GENITOURINARY TRACT

INTRODUCTION AND OVERVIEW

Embryology and Anatomy of the Genitourinary Tract
Approach to the Fetal Genitourinary Tract
Urinary Tract Dilation

RENAL DEVELOPMENTAL VARIANTS

Unilateral Renal Agenesis
Duplicated Collecting System
Pelvic Kidney
Horseshoe Kidney
Crossed Fused Ectopia

RENAL MALFORMATIONS

Bilateral Renal Agenesis
Ureteropelvic Junction Obstruction
Urinoma
Obstructive Renal Dysplasia
Multicystic Dysplastic Kidney
Autosomal Recessive Polycystic Kidney Disease
Autosomal Dominant Polycystic Kidney Disease
Congenital Mesoblastic Nephroma

ADRENAL ABNORMALITIES

Adrenal Hemorrhage
Neuroblastoma
Congenital Adrenal Hyperplasia

BLADDER MALFORMATIONS

Posterior Urethral Valves
Prune-Belly Syndrome
Ureterocele
Urachal Anomalies

GENITAL ABNORMALITIES

Differences of Sex Development
Hypospadias
Ovarian Cyst
Hydrocolpos

PERTINENT DIFFERENTIAL DIAGNOSES

Echogenic Kidneys
Unilateral Enlarged Kidney
Suprarenal Mass
Scrotal Mass

FETAL INTERVENTION

Fetal Urinary Tract Interventions

SECTION 9: MUSCULOSKELETAL

DYSPLASIAS

Approach to Skeletal Dysplasias
Bone Length Charts
Achondrogenesis, Hypochondrogenesis
Achondroplasia, Hypochondroplasia
Amelia/Phocomelia
Atelosteogenesis
Campomelic Dysplasia
Chondrodysplasia Punctata
Cleidocranial Dysplasia
Greenberg Dysplasia
Hypophosphatasia
Metaphyseal Chondrodysplasia
Osteogenesis Imperfecta
Short Rib-Thoracic Dysplasia Syndromes
Thanatophoric Dysplasia

EXTREMITY MALFORMATIONS

Clubfoot
Rocker-Bottom Foot
Radial Ray Malformation
Clinodactyly
Polydactyly
Syndactyly
Split Hand/Foot Malformation
Arthrogryposis, Akinesia Sequence
Proximal Focal Femoral Dysplasia
Fibular/Tibial Hemimelia

PERTINENT DIFFERENTIAL DIAGNOSES

Mildly Short Femur/Humerus
Curved/Angulated Bones
Abnormal Ossification

SECTION 10: PLACENTA, MEMBRANES, AND UMBILICAL CORD

INTRODUCTION AND OVERVIEW

Approach to the Placenta and Umbilical Cord

PLACENTA AND MEMBRANE ABNORMALITIES

Placental Abruption

Placenta Previa/Low-Lying Placenta

Vasa Previa

Placenta Accreta Spectrum

Placental Lake, Intervillous Thrombus

Succenturiate Lobe

Circumvallate Placenta

Marginal and Velamentous Cord Insertion

Chorioangioma

Placental Teratoma

Placental Mesenchymal Dysplasia

UMBILICAL CORD ABNORMALITIES

Single Umbilical Artery

Umbilical Vein Varix

Persistent Right Umbilical Vein

PERTINENT DIFFERENTIAL DIAGNOSES

Placental Cysts and Masses

Umbilical Cord Cysts and Masses

SECTION 11: MULTIPLE GESTATIONS

Approach to Multiple Gestations

Dichorionic Diamniotic Twins

Monochorionic Diamniotic Twins

Monochorionic Monoamniotic Twins

Selective Fetal Growth Restriction

Twin-Twin Transfusion Syndrome

Twin Anemia-Polycythemia Sequence

Twin Reversed Arterial Perfusion

Conjoined Twins

Triplets and Beyond

Fetus-in-Fetu

FETAL INTERVENTION

Monochorionic Twin Interventions

SECTION 12: ANEUPLOIDY

Approach to Genetic Screening

Trisomy 21

Trisomy 18
Trisomy 13
Monosomy X (Turner Syndrome)
Triploidy

SECTION 13: SYNDROMES AND MULTISYSTEM DISORDERS

Approach to Syndromes
22q11 Deletion Syndrome
Aicardi Syndrome
Amniotic Band Syndrome
Apert Syndrome
Bardet-Biedl Syndrome
Beckwith-Wiedemann Syndrome
Carpenter Syndrome
CHD7-Related Disorder (CHARGE)
Cornelia de Lange Syndrome
Crouzon Syndrome
Cystic Fibrosis
Diabetic Embryopathy
Fraser Syndrome
Fryns Syndrome
Generalized Calcification of Infancy
Holt-Oram Syndrome
Joubert Syndrome
Klippel-Trenaunay Syndrome
Meckel-Gruber Syndrome
Miller-Dieker Syndrome
Muenke Syndrome
Multiple Pterygium Syndromes
Neu-Laxova Syndrome
Niemann-Pick Disease Type C
Noonan Syndrome
Oculo-Auriculo-Vertebral Spectrum (OAVS)
Pai Syndrome
Pfeiffer Syndrome
PHACES Syndrome
Pierre Robin Sequence
Sirenomelia
Smith-Lemli-Opitz Syndrome
Treacher Collins Syndrome
Tuberous Sclerosis Complex
VACTERL Association
Valproate Embryopathy
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Warfarin (Coumadin) Embryopathy
Wolf-Hirschorn Syndrome
Zellweger Spectrum Disorder

SECTION 14: INFECTION

Cytomegalovirus
Parvovirus B19
Toxoplasmosis
Varicella
Congenital Syphilis

SECTION 15: FLUID, GROWTH, AND WELL-BEING

Approach to Fetal Well-Being
Fetal Growth Restriction
Macrosomia
Fetal Anemia

PERTINENT DIFFERENTIAL DIAGNOSES

Polyhydramnios
Oligohydramnios
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SECTION 16: MATERNAL CONDITIONS IN PREGNANCY

Cervical Insufficiency/Short Cervix
Myoma in Pregnancy
Adenomyosis in Pregnancy
Müllerian Duct Anomalies in Pregnancy
Synechiae
Uterine Dehiscence/Rupture
Retained Products of Conception

PERTINENT DIFFERENTIAL DIAGNOSES

Adnexal Mass in Pregnancy
Acute Abdomen in Pregnancy
Intrauterine Linear Echoes
Postpartum Hemorrhage
Postpartum Pain/Fever