

What Placentas to Examine

What Placentas to Examine? Slide 1 Maternal Conditions

What Placentas to Examine? Slide 2 Fetal Neonatal Conditions

What Placentas to Examine? Slide 3 Placental Pathology

Umbilical Cord

Cord Anatomy

Identical Twins Slide 1	Checkoff Form
Identical Twins Slide 2	Normal Umbilical Cord
Identical Twins Slide 3	Two Arteries Joining
Identical Twins Slide 4	Tortuous Vessels
Identical Twins Slide 5	Cord Variability in Diameter
Identical Twins Slide 6	Velamentous Insertion
Identical Twins Slide 7	Velamentous Insertion
Identical Twins Slide 8	Thin Umbilical Cord
Identical Twins Slide 9	Hemorrhage in Wharton's Jelly

Cord Length and Abnormalities

Identical Twins Slide 1	True Knot
Identical Twins Slide 2	Short Cords(under 30 cms)
Identical Twins Slide 3	Long Cords(over 90 cms)
Identical Twins Slide 4	True Knot
Identical Twins Slide 5	True Knot
Identical Twins Slide 6	True Knot
Identical Twins Slide 7	False Knot
Identical Twins Slide 8	Triangular Configuration of Vessels
Identical Twins Slide 9	False Knotting of Cord
Identical Twins Slide 10	False Knots of Cord
Identical Twins Slide 11	Looping of Cord Around Neck
Identical Twins Slide 12	Intertwined Long Cord
Identical Twins Slide 13	Nuchal Cord
Identical Twins Slide 14	Nuchal Cord Strangulation
Identical Twins Slide 15	Cord Strangulation of Lower Extremity
Identical Twins Slide 16	Thrombosis in Subchorionic Vessel
Identical Twins Slide 17	Large Villus with Thrombosis
Identical Twins Slide 18	Hemorrhage in Large Stem Villus
Identical Twins Slide 19	Attenuated Umbilical Cord
Identical Twins Slide 20	Attenuated Umbilical Cord
Identical Twins Slide 21	Attenuated Umbilical Cord/Fetal Demise
Identical Twins Slide 22	Spiraling of Cord
Identical Twins Slide 23	Spiraling of Cord
Identical Twins Slide 24	Spiraling of Cord and Thrombosis
Identical Twins Slide 25	Hemorrhage of Wharton's Jelly
Identical Twins Slide 26	Thrombosis of Umbilical Vein
Identical Twins Slide 27	Omphalomesenteric Duct Dilatation
Identical Twins Slide 28	Funisitis

Identical Twins Slide 29 Acute Funisitis
Identical Twins Slide 30 Squiggly Smooth Muscle Nuclei
Identical Twins Slide 31 Ring Around Cord
Identical Twins Slide 32 Candida Chorioamnionitis
Identical Twins Slide 33 Candida Infection
Identical Twins Slide 34 Special Fungal Stains
Identical Twins Slide 35 Amniotic Web(chorda)
Identical Twins Slide 36 Vascular Congestion of Subchorionic Vessels
Identical Twins Slide 37 Hydropic Changes in Villi
Identical Twins Slide 38 Swelling of Cord
Identical Twins Slide 39 Hemangioma of Cord
Identical Twins Slide 40 Thrombosis of Large Vessel

Fetal Membranes

Normal Findings

Identical Twins Slide 1 Check-off Form
Identical Twins Slide 2 Maternal Side of Membranes
Identical Twins Slide 3 Stripping of Amnion from Plate
Identical Twins Slide 4 Microscopic Appearance of Membrane
Identical Twins Slide 5 Amnion Removed and Yolk Sac
Identical Twins Slide 6 Microscopic Appearance of Yolk Sac
Identical Twins Slide 7 Subchorionic Cysts
Identical Twins Slide 8 Subchorionic Cyst with Overlying Vessel
Identical Twins Slide 9 Subchorionic Cysts Cutaway View
Identical Twins Slide 10 Subchorionic Cyst at Cord Attachment
Identical Twins Slide 11 Subchorionic Cyst Opened
Identical Twins Slide 12 Subchorionic Fibrin
Identical Twins Slide 13 Subchorionic Nodule
Identical Twins Slide 14 Fetal Arteries over Veins
Identical Twins Slide 15 Strip Amnion from Plate
Identical Twins Slide 16 Dark Vessels on Plate
Identical Twins Slide 17 Cloudy Vessels in Chorioamnionitis

Chorioamnionitis

Chorioamnionitis Slide 1 Definition
Chorioamnionitis Slide 2 Subchorionic Vessel with Neutrophils
Chorioamnionitis Slide 3 Acute Intervillositis
Chorioamnionitis Slide 4 Acute Intervillositis High Power
Chorioamnionitis Slide 5 Inflammation in Decidua Capsularis
Chorioamnionitis Slide 6 Severe Acute Chorioamnionitis
Chorioamnionitis Slide 7 Severe Acute Chorioamnionitis High Power
Chorioamnionitis Slide 8 Early Incipient Chorioamnionitis
Chorioamnionitis Slide 9 Few Neutrophils in Decidua Capsularis
Chorioamnionitis Slide 10 Ghost Villus
Chorioamnionitis Slide 11 Culture Underneath Amnion
Chorioamnionitis Slide 12 NEJM article

Chorioamnionitis Slide 13	Culturing Technique
Chorioamnionitis Slide 14	Listeria Microabscess
Chorioamnionitis Slide 15	Listeriosis
Chorioamnionitis Slide 16	Unusual Leukotaxis
Chorioamnionitis Slide 17	Reaction to Placental Tissue?

Meconium and Other Findings

Meconium Slide 1	Meconium Present \geq 3hrs.
Meconium Slide 2	Meconium Present < 3hrs.
Meconium Slide 3	Pigmented Macrophages
Meconium Slide 4	Meconium-laden Macrophages
Meconium Slide 5	Prolonged Meconium Staining
Meconium Slide 6	Duration of Meconium Exposure
Meconium Slide 7	UC with Meconium Exposure
Meconium Slide 8	Luna Ishak Stain
Meconium Slide 9	Types of Meconium
Meconium Slide 10	Amnionodosum
Meconium Slide 11	Larger Amnionodosum
Meconium Slide 12	Sq. metaplasia vs Amnionodosum
Meconium Slide 13	Amnionodosum Microscopic View
Meconium Slide 14	Amnionodosum
Meconium Slide 15	Amniotic Debris
Meconium Slide 16	Extensive Amnionodosum
Meconium Slide 17	Potter's Syndrome
Meconium Slide 18	Pulmonary Hypoplasia
Meconium Slide 19	Squamous Metaplasia
Meconium Slide 20	Amniotic Band Syndrome
Meconium Slide 21	Fine Amniotic Band
Meconium Slide 22	Amniotic Band Rupture
Meconium Slide 23	Amniotic Bands Between Toes
Meconium Slide 24	Cranial Anomalies
Meconium Slide 25	Body Stalk Abnormality

Placental Disc (Parenchyma)

Gross Findings

Disc Gross Findings Slide 1	Check Off List
Disc Gross Findings Slide 2	Cotyledons
Disc Gross Findings Slide 3	Dystrophic Calcification
Disc Gross Findings Slide 4	Dystrophic Calcification
Disc Gross Findings Slide 5	Chorionic Villi
Disc Gross Findings Slide 6	Syncytial Knots
Disc Gross Findings Slide 7	Vascularity in Villi
Disc Gross Findings Slide 8	Vascular Congestion
Disc Gross Findings Slide 9	Villi at 36 wks.
Disc Gross Findings Slide 10	Congested Villi
Disc Gross Findings Slide 11	Villi at 32 wks.

Disc Gross Findings Slide 12	Villi at 23 wks.
Disc Gross Findings Slide 13	Villi at 6 wks.
Disc Gross Findings Slide 14	Abnormal Shapes
Disc Gross Findings Slide 15	Circumvallate Placenta
Disc Gross Findings Slide 16	Placenta Extrachorialis
Disc Gross Findings Slide 17	Bipartite Placenta
Disc Gross Findings Slide 18	Bipartite Placenta
Disc Gross Findings Slide 19	Atrophy of Chorionic Villi
Disc Gross Findings Slide 20	Velamentous Insertion
Disc Gross Findings Slide 21	Placenta Membranatia
Disc Gross Findings Slide 22	Casheating Granulomas
Disc Gross Findings Slide 23	Fetal Demise Placenta Previa
Disc Gross Findings Slide 24	Placenta Mebranatia
Disc Gross Findings Slide 25	Membranes Removed
Disc Gross Findings Slide 26	Macerated Fetus, Large Placenta
Disc Gross Findings Slide 27	Gestational Age vs. Weight (Graph)
Disc Gross Findings Slide 28	Low Placental Weight
Disc Gross Findings Slide 29	Heavy Placentas

Pale Placentas

Pale Placentas Slide 1	Fetal Anemia
Pale Placentas Slide 2	Normal Beefy Red Placenta
Pale Placentas Slide 3	Boggy Pale Placenta
Pale Placentas Slide 4	Diffuse Placental Edema
Pale Placentas Slide 5	Diffuse Edema Microscopic View
Pale Placentas Slide 6	Stromal Edema In Villi

Hemolytic Disease

Hemolytic Disease Slide 1	Rh Incompatibility
Hemolytic Disease Slide 2	Severe Hemolytic Disease
Hemolytic Disease Slide 3	Discoloration From Hemosiderin Granules
Hemolytic Disease Slide 4	Edematous Infant
Hemolytic Disease Slide 5	Numerous Erythroblasts

TORCH Infections

TORCH Slide 1	Hydropic Infant
TORCH Slide 2	Facial Edema
TORCH Slide 3	Pale Placenta with Infarct
TORCH Slide 4	Bullous Skin Lesions
TORCH Slide 5	Ulceration on Toes
TORCH Slide 6	Necrotic Lesions on Fingers
TORCH Slide 7	Destructive Villitis
TORCH Slide 8	Fibrinous Degeneration
TORCH Slide 9	Fibrotic Villi Trichrome Stain
TORCH Slide 10	Lymphocytes And Plasma Cells
TORCH Slide 11	Pancreatic Fibrosis

TORCH Slide 12 Edematous Pale Placenta
TORCH Slide 13 Amnion Nodosum
TORCH Slide 14 Unusual Facies
TORCH Slide 15 Compression Defects of LE
TORCH Slide 16 Inflammation of Villi
TORCH Slide 17 Owl's Eye Inclusion
TORCH Slide 18 Dilated Ventricles in Brain
TORCH Slide 19 Periventricular Calcifications on X-Ray
TORCH Slide 20 CMV Inclusions In Brain
TORCH Slide 21 CMV Inclusions In Kidney
TORCH Slide 22 Mild Inflammation Of Placenta
TORCH Slide 23 Marked Villous Inflammation
TORCH Slide 24 Immunoperoxidase For CMV
TORCH Slide 25 Listeriosis
TORCH Slide 26 Microabscess in Listeriosis
TORCH Slide 27 Fibrinopurulent Reaction
TORCH Slide 28 Purulent Inflammation

Villitis of Unknown Etiology (VUE)

VUE Slide 1 Villitis Of Unknown Origin (text)
VUE Slide 2 Nodular Appearance
VUE Slide 3 Lymphohistiocytic Response
VUE Slide 4 Reaction Invading Chorionic Villi
VUE Slide 5 Lifting Off Trophoblastic Layer
VUE Slide 6 Destroying Trophoblastic Layer
VUE Slide 7 Infiltrate Under Trophoblastic Layer
VUE Slide 8 Infiltrate Surrounding Villus
VUE Slide 9 Villitis of Unknown Etiology (text)
VUE Slide 10 Endovasculitis
VUE Slide 11 Vessel Wall Thickening

Fetal-Maternal Hemorrhage

FMH Slide 1 Intervillous Thrombosis
FMH Slide 2 Pale Placenta
FMH Slide 3 Edematous Villi
FMH Slide 4 Scattered NRBCs
FMH Slide 5 More NRBCs
FMH Slide 6 Intervillous Thrombus
FMH Slide 7 Laminated Thrombus
FMH Slide 8 Kleihauer-Betke Test (text)
FMH Slide 9 Fetal-Maternal Hemorrhage (text)
FMH Slide 10 Chronic Hemorrhage (text)

Maternal Floor Infarction

MFI Slide 1 IUGR Fetus (text)
MFI Slide 2 Pale Firm Placenta

- MFI Slide 3 Small Cystic Structures
- MFI Slide 4 Cystic Space with X-Cells
- MFI Slide 5 Perivillous Fibrin
- MFI Slide 6 Ischemic Hyalinized Appearance
- MFI Slide 7 Ischemic Villi vs Normal
- MFI Slide 8 X-Cells Lining Space
- MFI Slide 9 IF Stain for Myelin Basic Protein
- MFI Slide 10 Subchorionic Cyst
- MFI Slide 11 Pale Dry Placenta
- MFI Slide 12 X-Cell Cysts
- MFI Slide 13 Pale Bloodless Placenta
- MFI Slide 14 Ruptured Uterus
- MFI Slide 15 Perivillous Fibrin
- MFI Slide 16 Ischemic Villi
- MFI Slide 17 Summary (text)
- MFI Slide 18 Recurrent Pregnancy Problems (text)

Nucleated Fetal Red Blood Cells

- NRBC Slide 1 Fetal NRBC (text)
- NRBC Slide 2 Cluster of NRBC
- NRBC Slide 3 Ischemic Villus
- NRBC Slide 4 Fetal Hypoxia And Anemia (text)
- NRBC Slide 5 Acute Blood Loss vs Chronic Hypoxia (text)
- NRBC Slide 6 Summary (text)

Chorangiosis

- Chorangiosis Slide 1 Chorangiogenesis (text)
- Chorangiosis Slide 2 Definition
- Chorangiosis Slide 3 Fetal NRBCs
- Chorangiosis Slide 4 Chronic Intrauterine Hypoxia
- Chorangiosis Slide 5 Another Example
- Chorangiosis Slide 6 Ischemic Villi
- Chorangiosis Slide 7 Perivillous Fibrin
- Chorangiosis Slide 8 Microdystrophic Calcification
- Chorangiosis Slide 9 More Extensive Calcification
- Chorangiosis Slide 10 Dense Fine Calcification

Metabolic Storage Diseases

- Storage Dz Slide 1 Foamy Trophoblasts
- Storage Dz Slide 2 I-Cell Disease
- Storage Dz Slide 3 Galactosialidosis
- Storage Dz Slide 4 Pale Foamy Trophoblasts
- Storage Dz Slide 5 Higher Power View
- Storage Dz Slide 6 Vacuolar Inclusions (EM)
- Storage Dz Slide 7 Lipid Bodies (EM)
- Storage Dz Slide 8 Myelin Figures (EM)

Uteroplacental Insufficiency

- UPI Slide 1 Vascular Insufficiency (text)
- UPI Slide 2 Palpation of Placenta
- UPI Slide 3 Brown-tan Infarct
- UPI Slide 4 Collapse of Chorionic Villi
- UPI Slide 5 Gelatinous Thrombosis
- UPI Slide 6 Lamellar Appearance
- UPI Slide 7 Laminated Appearance Microscopic View
- UPI Slide 8 Marginal Infarction
- UPI Slide 9 Numerous Infarcts
- UPI Slide 10 Cocaine Abuse Infarcts
- UPI Slide 11 Formalin Fixation
- UPI Slide 12 Early Infarct
- UPI Slide 13 Neutrophilic Infiltrate
- UPI Slide 14 Smudging of Trophoblast Nuclei
- UPI Slide 15 Older Infarct
- UPI Slide 16 Ghost Outlines Of Villi
- UPI Slide 17 Atherosclerosis Of Eclampsia
- UPI Slide 18 Atherosclerosis Of Decidual Vessel
- UPI Slide 19 Foamy Change In Vessel
- UPI Slide 20 Villous Edema
- UPI Slide 21 Higher Power View
- UPI Slide 22 Villi Collapsed Together
- UPI Slide 23 Areas Of Hypermaturity
- UPI Slide 24 Breus Mole
- UPI Slide 25 Large Pale Area
- UPI Slide 26 Intervillous Hematoma
- UPI Slide 27 Maternal Vessel Thrombosis
- UPI Slide 28 Calcification In Chorionic Vessel
- UPI Slide 29 Villous Necrosis
- UPI Slide 30 Villous Ischemic Change
- UPI Slide 31 Brownish Hemosiderin Pigment

Abruption

- Abruption Slide 1 Three Gross Findings
- Abruption Slide 2 Flattened Placenta
- Abruption Slide 3 Abruption At 24 Wks
- Abruption Slide 4 IUD Causing Abruption
- Abruption Slide 5 Abruption At 17 Wks.
- Abruption Slide 6 Clot Compressing Placenta
- Abruption Slide 7 Abruption And Infarction
- Abruption Slide 8 Placenta Previa
- Abruption Slide 9 Laminated Blood Clot
- Abruption Slide 10 Severe Maternal Hypertension
- Abruption Slide 11 Summary (text)

- Abruption Slide 12 Early Infarction
- Abruption Slide 13 More Advanced Infarction
- Abruption Slide 14 Hemosiderin Pigment

Implantation

- Implantation Slide 1 Normal Uterus Implantation
- Implantation Slide 2 Bizarre Cells In Myometrium
- Implantation Slide 3 Trophoblasts In Myometrium
- Implantation Slide 4 Normal Implantation Site
- Implantation Slide 5 Human Placental Lactogen Stain
- Implantation Slide 6 Human Chorionic Gonadotropin Stain
- Implantation Slide 7 HPL Stain In Early Villi
- Implantation Slide 8 HPL Stain In Decidual Vessels
- Implantation Slide 9 Trophoblast Cell Types (text)
- Implantation Slide 10 US Placenta Percreta
- Implantation Slide 11 Oval Placenta Percreta
- Implantation Slide 12 Hemorrhagic Placenta Percreta
- Implantation Slide 13 Pushing Border
- Implantation Slide 14 Placenta Previa
- Implantation Slide 15 Accreta vs Percreta
- Implantation Slide 16 Pushing Border
- Implantation Slide 17 Effaced Myometrial Wall
- Implantation Slide 18 Pushing Border, Fibrinoid Material
- Implantation Slide 19 Irregular Border
- Implantation Slide 20 Villous Invasion

Chorangiomas

- Chorangiomas Slide 1 Definition
- Chorangiomas Slide 2 Reddish Solid Tumor Mass
- Chorangiomas Slide 3 Clinical Associations
- Chorangiomas Slide 4 Benign Small Vessels
- Chorangiomas Slide 5 Lymphoma Invading Villi

Moles And Trophoblastic Disease

- Molar Dz Slide 1 Trophoblastic Disease (text)
- Molar Dz Slide 2 True Mole
- Molar Dz Slide 3 Smaller Grape-Like Clusters
- Molar Dz Slide 4 Hydropic Villi
- Molar Dz Slide 5 Trophoblastic Proliferation
- Molar Dz Slide 6 Very Few Fetal Vessels
- Molar Dz Slide 7 Extensive Trophoblastic Proliferation
- Molar Dz Slide 8 Profiles of Syncytiotrophoblasts
- Molar Dz Slide 9 Areas of Necrosis
- Molar Dz Slide 10 Cytotrophoblasts
- Molar Dz Slide 11 Partial Mole
- Molar Dz Slide 12 Partial Mole

Molar Dz Slide 13	Grape-Like Lesions
Molar Dz Slide 14	Hydropic Degeneration
Molar Dz Slide 15	No Trophoblastic Proliferation
Molar Dz Slide 16	True Mole vs Partial Mole
Molar Dz Slide 17	Angiomatosis
Molar Dz Slide 18	Small Grape-Like Lesions
Molar Dz Slide 19	Turner Syndrome
Molar Dz Slide 20	Hydropic Changes
Molar Dz Slide 21	Molar Degeneration
Molar Dz Slide 22	Molar Pregnancies Summary (text)
Molar Dz Slide 23	Chorioadenoma Destruens (gross)
Molar Dz Slide 24	Marked Trophoblastic Proliferation
Molar Dz Slide 25	Invasion of Myometrium
Molar Dz Slide 26	Cytotrophoblasts Invade Myometrium
Molar Dz Slide 27	Multinucleated Cells
Molar Dz Slide 28	Placental Site Trophoblastic Tumor
Molar Dz Slide 29	Intermediate Trophoblasts
Molar Dz Slide 30	Choriocarcinoma
Molar Dz Slide 31	Syncytiotrophoblasts
Molar Dz Slide 32	No Villi Present
Molar Dz Slide 33	Cyto and Syncytiotrophoblasts
Molar Dz Slide 34	Incipient Choriocarcinoma
Molar Dz Slide 35	Marked Cytologic Atypia
Molar Dz Slide 36	Large Dilated Vessels (gross)
Molar Dz Slide 37	Hydropic Change from Obstruction (gross)
Molar Dz Slide 38	Villous Hydrops
Molar Dz Slide 39	Occasional Normal Villi
Molar Dz Slide 40	Small Vessels Present
Molar Dz Slide 41	Recurrent Molar Pregnancy (gross)
Molar Dz Slide 42	Breus Mole (gross)

Multiple Pregnancy

Multiple Pregnancy Slide 1	Quadruplet Placenta (gross)
Multiple Pregnancy Slide 2	Velamentous Insertion (gross)
Multiple Pregnancy Slide 3	Degenerated Twin (gross)
Multiple Pregnancy Slide 4	Fetal Reduction of Twins (gross)
Multiple Pregnancy Slide 5	Previous Fetal Demise (gross)
Multiple Pregnancy Slide 6	Breus Mole (gross)
Multiple Pregnancy Slide 7	Macerated Fetus (gross)
Multiple Pregnancy Slide 8	Anencephalic Fetus (gross)
Multiple Pregnancy Slide 9	Velamentous Insertion (gross)
Multiple Pregnancy Slide 10	Vessels Traverse Membrane (gross)
Multiple Pregnancy Slide 11	Twin Dividing Membranes (diagram)
Multiple Pregnancy Slide 12	Vessels Cross Membrane (gross)
Multiple Pregnancy Slide 13	Vessels Within Membrane (gross)
Multiple Pregnancy Slide 14	Atrophic Vessels in Membrane (gross)

Multiple Pregnancy Slide 15 Triplets (gross)
Multiple Pregnancy Slide 16 Atrophic Vessels in Membrane (gross)
Multiple Pregnancy Slide 17 Membrane Roll Di-Di
Multiple Pregnancy Slide 18 Membrane Roll Di-Di
Multiple Pregnancy Slide 19 Membrane Roll Di-Mono
Multiple Pregnancy Slide 20 Monoamniotic Monochorionic (gross)
Multiple Pregnancy Slide 21 Twin Placentation Summary (text)

Identical and Conjoined Twins

Identical Twins Slide 1 Joined Umbilical Cords (gross)
Identical Twins Slide 2 Conjoined Twins (gross)
Identical Twins Slide 3 Conjoined Twins (gross)
Identical Twins Slide 4 Monozygotic Twinning (diagram)

Twin Transfusion and Acardia

Twin Transfusion Slide 1 Macerated Identical Twins (gross)
Twin Transfusion Slide 2 Rule Out Twin Transfusion (gross)
Twin Transfusion Slide 3 Twin Transfusion (gross)
Twin Transfusion Slide 4 Pale Anemic Parenchyma (gross)
Twin Transfusion Slide 5 Pale Parenchyma (gross)
Twin Transfusion Slide 6 Chorionic Plate (gross)
Twin Transfusion Slide 7 Pale vs. Plethoric Parenchyma (gross)
Twin Transfusion Slide 8 Fetuses with Twin Transfusion (gross)
Twin Transfusion Slide 9 Organs of Fetuses (gross)
Twin Transfusion Slide 10 Fetus Papyraceous (gross)
Twin Transfusion Slide 11 Multiple Births Complications (text)
Twin Transfusion Slide 12 Acardiac Fetus (gross)
Twin Transfusion Slide 13 Acardiac Fetus (x-ray)
Twin Transfusion Slide 14 Acardiac Twin Anastomosis (diagram)
Twin Transfusion Slide 15 Acardiac Twin (gross)
Twin Transfusion Slide 16 Acardiac Twin (x-ray)
Twin Transfusion Slide 17 Acardiac Twin (gross)
Twin Transfusion Slide 18 Dissected Acardiac Twin (gross)
Twin Transfusion Slide 19 Fetus Acardius Amorphous (gross)
Twin Transfusion Slide 20 Bizarre Acardiac Fetus (gross)
Twin Transfusion Slide 21 Vascular Anastomoses (gross)
Twin Transfusion Slide 22 Acardiac Fetus/ Suchorionic Nodule (gross)
Twin Transfusion Slide 23 Twinning Summary (text)

Medical-Legal Considerations

Medico-Legal Slide 1 Timing of Pathology
Medico-Legal Slide 2 The End

