Slide No: 001 System: Digestive

Acute Diffuse suppurative appendicitis

Section in the appendix shows

- The surface epithelium is shedded in the appendicular lumen. - The lamina propria and serosa show dilated congested capillaries, fluid exudate with infiltration by polymorph nuclear leukcoytes (PMNLs), few macrophages and large number of pus





Slide No: 001 System: Digestive Acute Diffuse suppurative appendicitis

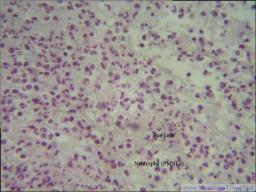
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Slide No : Acute Diffuse suppurative appendicitis System: Digestive Section in the appendix shows: - The surface epithelium is shedded in the appendicular lumen. - The lamina propria and serosa show dilated congested capillaries, fluid exudate with infiltration by polymorph nuclear leukocytes (PMNLs), few macrophages and large number of pus

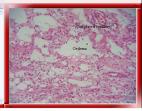


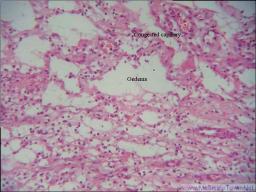
Allergic nasal polyp

Section shows polypoid structures composed of:

 Central connective tissue core shows allergic inflammation (dilated congested capillaries, marked oedema, large number of eosinophils, plasma cells and few PMNLs with hyperplastic nucous glands). This core is covered by:

- Epithelial covering; nasal mucosa (pseudo-stratified columnar ciliated epithelium) with foci of squamous metanlasia





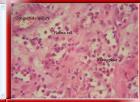
Slide No: 002 System: Respiratory

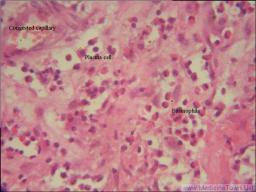
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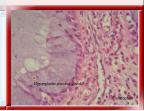
Slide No: 002 System: Respiratory

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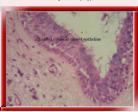


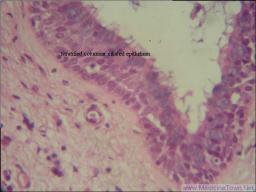
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Section shows polypoid structures composed of:

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- Epithelial covering: nasal mucosa (pseudo-stratified columnar ciliated epithelium) with foci of squamous metanlasia





Slide No: 003 System: Digestive

Serofibrinous peritonitis

Section in the small intestine shows

- The mucosa, submucosa and musculosa are normal.
- The serosa is widened to show acute inflammation (dilated congested capillants, PANULS, macrophages and fluid exudate containing fibrin). The serosal cells are swollen or shedded and covered by a network of fibrin entangling PANULS and macrophages.





Slide No: 003 System: Digestive

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Section in the small intestine shows

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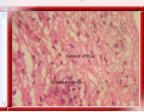


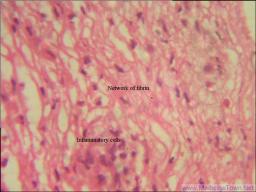


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Slide No : System: Digestive

hna

Section in the gall bladder shows: - The surface epithelium is ulcerated or hyperplastic and extends deep in the

musculosa - The lamina propria and serosa show

end arteritis obliterans, chronic inflammatory cells as macrophages, plasma cells and lymphocytes. Fibrosis is seen in the serosa.

Chronic non-specific inflammation





Slide No : nn4 System: Digestive

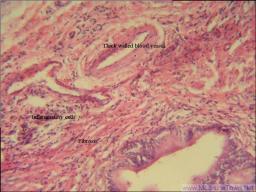
Section in the gall bladder shows:

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Chronic non-specific inflammation





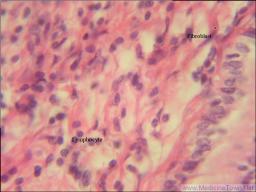
Slide No: | 184 | Chronic non-specific inflammation

Section in the gall bladder shows

is seen in the serosa.

 The surface epithelium is ulcerated or hyperplastic and extends deep in the musculosa

 The lamina propria and serosa show end arteritis obliterans, chronic inflammatory cells as macrophages, plasma cells and lymphocytes. Fibrosis Rhessia.



Slide No : hna System: Digestive

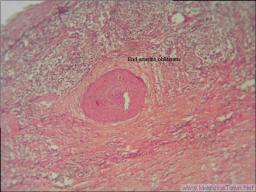
Section in the gall bladder shows:

- The surface epithelium is ulcerated or hyperplastic and extends deep in the musculosa

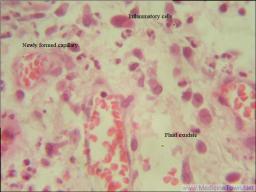
- The lamina propria and serosa show end arteritis obliterans, chronic inflammatory cells as macrophages, plasma cells and lymphocytes. Fibrosis is seen in the serosa.

Chronic non-specific inflammation





Slide No : 005 Granulation tissue System: Miscellaneous Section chows - Newly formed capillaries lined by swollen endothelium or in the form of solid buds - Fibroblasts: spindle cells with tapering ends, spindle shaped nuclei and scanty cytoplasm. - The background shows pink collagen fibers, acute inflammatory cells and fluid exudate Ehrid anidat



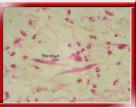
Slide No: 005
System: Miscelloneous
Granulation tissue

Section shows:

 Newly formed capillaries lined by swollen endothelium or in the form of solid buds.

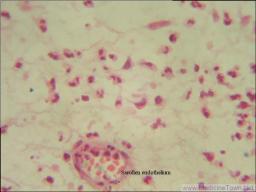
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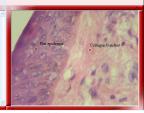


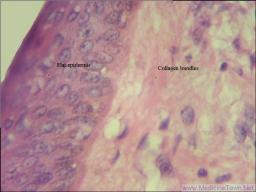
Slide No: 006
System: Miscelloneous Skin scar

Section in the skin shows:

 Areas of scar tissue showing thin flat epidermis (absent rete ridges and dermal papillae).

The dermis contains heavy hyalinized avascular collagen bundles in various directions with absent skin appendages.
 Areas of normal skin with rete ridges, dermal papillae and skin appendages.





Slide No: 006 System: Miscellaneous

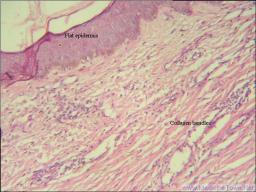
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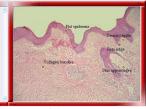
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Cloudy swelling (kidney)

Section in the kidney shows that the

 The cells are swollen, conical with eosinophilic granular cytoplasm and intect puclei.

 The lumina are narrow irregular or starshaped. The apices of cells may rupture leaving the basal portion only with widening of the tubular lumen.

 The capillaries of the interstitium are compressed by the swollen tubules.



Narrow lumen Eosinophilic granular cytoplasm Compressed capillary www.MedicineTown.Net

Slide No : 007 System : Urinary

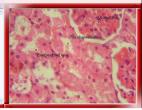
Cloudy swelling (kidney)

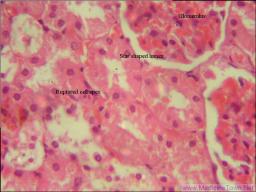
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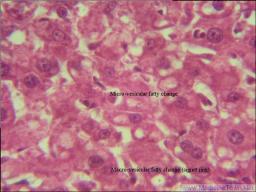
Slide No: 008 System: Digestive

Fatty change (liver)

Section in the liver shows

- Preserved liver architecture with normal portal tracts.
- Some hepatocytes show small clear fat vacuoles due to dissolution of fat globules during preparation (microvesicular).
- Other hepatocytes show large clear fat vacuoles flattening and pushing of the nucleus to one side giving signet ring appearance (macro-vesicular).

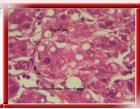


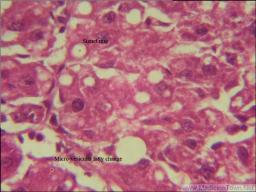


Fatty change (liver)

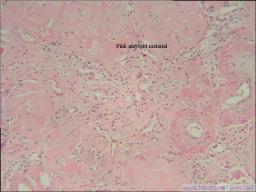
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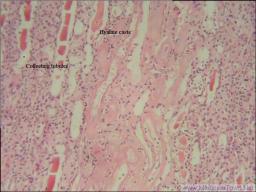




Slide No : nng Amyloidosis of the kidney System: Urinary Section in the kidney shows a homogenous structureless pink amyloid material deposited in: -The basement membrane of the glomerular capillaries. -The walls of the afferent and efferent arterioles -The basement membrane of the collecting tubules with hyaline casts in the lumen



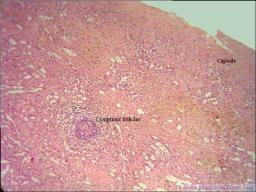
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Section in the spleen shows a homogenous pink structureless

glassy material deposited in:
-The splenic capsule and trabeculae.
-The central arterioles of the lymphoid follicles with atrophic changes in these follicles. Hyalinosis of the spleen



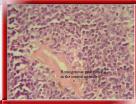


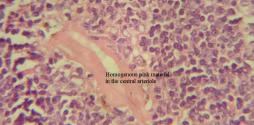
Slide No : 010 System : Lymphotic

Hyalinosis of the spleen

Section in the spleen shows a homogenous pink structureless glassy material deposited in:

-The splenic capsule and trabeculae.
-The central arterioles of the lymphoid follicles with atrophic changes in these follicles.





Slide No:	011
System:	Respiratory

Chronic venous congestion (lung)

0 0 0 0 0

Section in the lung shows that:
-The alveolar septa are thickened by
transudate and fibrosis and the alveolar

capillaries are dilated and congested.

-The alveolar spaces contain:

* Homogenous pink transudate.

* Intact & hamolyzed RBCs with

haemosiderin.

* Heart failure cells (large rounded macrophages engulfing RBCs & haemosiderine).



ransudate Heart failure cells Anthracosis

Slide No: 011 System: Respiratory

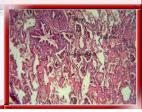
Chronic venous congestion (lung)

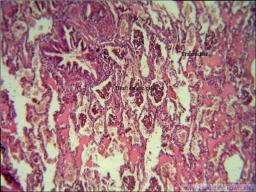
Section in the lung shows that:

-The alveolar septa are thickened by transudate and fibrosis and the alveolar capillaries are dilated and congested. -The alveolar spaces contain:

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* Heart failure cells (large rounded macrophages engulfing RBCs & haemosiderine).





Slide No: 011 System: Respiratory

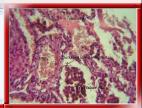
Chronic venous congestion (lung)

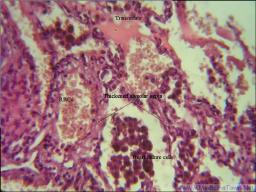
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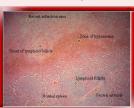
Slide No : 012 System : Lymphatic

Infraction of the spleen

-By N/E section shows two zones dark & pale zones.

-Under M/E section of the dark zone shows: Normal spierio tissue formed of white pulp, red pulp & splenic trabeculae. -The pale zone of recent infarction is formed of ghosts of the normal structures (follicles, blood vessels & trabeculae) with pyknosis & karyorrhexis of the nuclei.

 -Zone of hyperaemia and congestion in between the previous two zones.



Recent infarction area Zone of hyperaemia Ghost of lymphoid follicle Lymphoid follicle Central arteriole Normal spleen

Slide No : 012 System : Lymphatic

Infraction of the spleen

-By N/E section shows two zones dark & pale zones:

-Under M/E section of the dark zone shows: Normal splenic tissue formed of white pulp, red pulp & splenic trabeculae. -The pale zone of recent infarction is formed of ghosts of the normal structures (follicles, blood vessels & trabeculae) with pyknosis & karyorrhexis of the nuclea.

 -Zone of hyperaemia and congestion in between the previous two zones.



White pulp

Red pulp

Trabeculae (T/S)

Slide No: 012 System: Female Reproductive

Infraction of the spleen

-By N/E section shows two zones dark & pale zones:

-Under M/E section of the dark zone shows: Normal splenic tissue formed of white pub, red pulp & splenic trabeculae.
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trabeculae) with pyknosis & karyorrhexi of the nuclei. -Zone of hyperaemia and congestion in between the previous two zones.





Slide No: 013
System: Circulatory

A transverse section of a blood vessels with a thrombus shows.

The head of the thrombus is attached to one side of the blood vessel.

The substance (la) of the thrombus is formed of alternation (la) of the thrombus is formed of alternation.

Lines of Zahn homogenous prik line
Fibrio protvork entangling RBCs and VMCB between lines of Zhin and VMCB between lines of Zhin homogenous prik line.

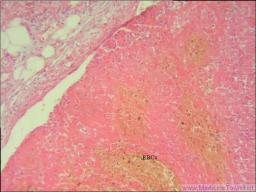
www.MedicineTown.Net

Entangled BRCs



Slide No: 013
System: Circulatory

A transverse section of a blood vessels with a thrombus shows
The head of the innormatic is attached to the section of th



Slide No: 014 System: Lymphotic

Early T.B of the lymph node

Section in the lymph node shows:

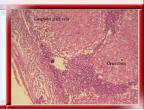
 A large number of pale pink rounded tubercles formed of: +Epithelioid cells; large swollen

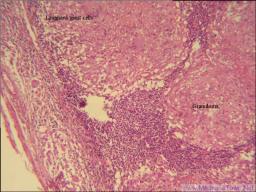
cells with ill-defined cell borders, pale eosinophilo cytoplasm & large vesicular nuclei. •Gaint cells: large cells with

abundant eosinophilic cytoplasm & multiple nuclei arranged as a horseshoe (typical Langhans cells) or may be unipolar, bipolar, central or irregular.

 Peripheral zone of Tlymphocytes

•No or minimal caseation





Slide No: 014 System: Lymphatic

Early T.B of the lymph node

Section in the lymph node shows

 A large number of pale pink rounded tubercles formed of: +Epithelioid cells; large swollen

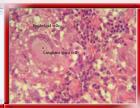
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abundant eosinophilic cytoplasm & multiple nuclei arranged as a horseshoe (typical Langhans cells) or may be unipolar, bipolar, central or irregular.

 Peripheral zone of Tlymphocytes

+No or minimal caseation



Epithelioid cells



Slide No : 015 System : Lymphotic

Late T.B of the lymph node

Section of the lymph node shows: -Most of the lymph node substance is replaced by caseous homogenous structureless pink material.

-The periphery of the lymph node show tubercles most of them are caseating formed of:

* Central pink homogenous caseation. * Epithelioid cells: large swollen

cells with ill-defined cell borders, pale eosinophilo cytoplasm & large vesicular nuclei.

" Giant cells: large cells with abundant eosinophilic cytoplasm & multiple nuclei arranged as a horseshoe [





Slide No: h15 System: Lymphatic

Section of the lymph node shows: -Most of the lymph node substance is replaced by caseous homogenous

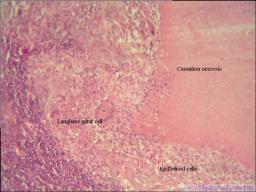
structureless pink material. -The periphery of the lymph node show tubercles most of them are caseating formed of:

* Central pink homogenous

* Epithelioid cells: large swollen cells with ill-defined cell borders, pale eosinophilo cytoplasm & large vesicular

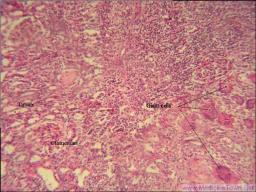
* Giant cells: large cells with abundant eosinophilic cytoplasm & Late T.B of the lymph node





Slide No : his T.B Pyelonephritis System: Urinary Section in the kidney at the corticomedullary junction shows -T.B granuloma (caseating and noncaseating) formed of: Central pink homogenous. caseation *Epithelioid cells large swollen cells with ill-defined cell borders, pale eosinophilo cytoplasm & large vesicular ·Gaint cells (fused epithelioid cells) large cells with abundant eosinophilic

cyloplasm & multiple nuclei arranged as a horse-shoe (typical langhans cells) or may be unipolar, bipolar, central or



Slide No : [016 T.B Pyelonephritis System: Urinary Section in the kidney at the corticomedullary junction shows -T.B granuloma (caseating and noncaseating) formed of: Central pink homogenous. caseation *Epithelioid cells large swollen cells with ill-defined cell borders, pale eosinophilo cytoplasm & large vesicular ·Gaint cells (fused epithelioid cells) large cells with abundant eosinophilic cytoplasm & multiple nuclei arranged as

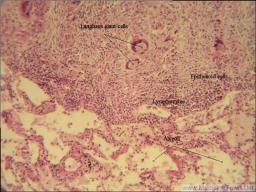
a horse-shoe (typical langhans cells) or may be unipolar, bipolar, central or

Thick walled blood vessel

Chronic inflammatory cells

Slide No : 017 Pulmonary T.B System: Respiratory Section in the lung shows: -T.B reaction caseating & non-caseating formed of +Central pink homogenous caseation . Epithelioid cells large swollen cells with ill-defined cell borders, pale eospinohilo cytoplasm & large vesicular ·Giant cells (fused epithelioid cells: large cells with abundant eosinophilic cytoplasm & multiple nucle arranged as a horse-shoe (typical Langhans cells) or may be unipolar. bipolar, central or irregular.

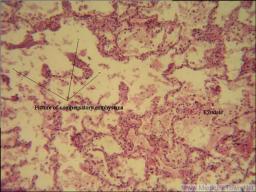
*Peripheral zone of T-



Slide No : Pulmonary T.B System: Respiratory Section in the lung shows: -T.B reaction caseating & non-caseating formed of +Central pink homogenous caseation +Epithelioid cells large swollen cells with ill-defined cell borders, pale eospinohilo cytoplasm & large vesicular ·Giant cells (fused epithelioid cells: large cells with abundant eosinophilic cytoplasm & multiple nucl arranged as a horse-shoe (typical Langhans cells) or may be unipolar. bipolar, central or irregular. *Peripheral zone of T-







Slide No: 019 System: Nervous

Actinomycosis (madura foot).

Section in the skin & subcutaneous

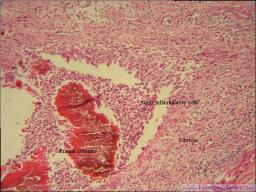
-The epidermis is hyperkeratotic. -The dermis shows suppurative granulomas formed of:

* Central Fungal colonies: yellowish brown formed of rounded peripheral clubs & central hyphae (filaments). * Zone of acute inflammatory.

reaction: neutrophils, pus cells & foarny macrophages.

* Outer zone of chronic inflammatory reaction and fibrosis.





Actinomycosis (madura foot).

Section in the skin & subcutaneous

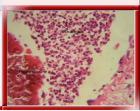
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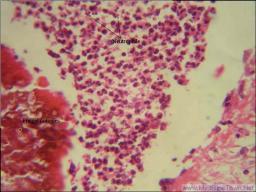
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reaction: neutrophils, pus cells & foamy macrophages.

* Outer zone of chronic

 Outer zone of chronic inflammatory reaction and fibrosis.









Slide No : 020 Hydatid cyst System: Miscellaneous Section in the cvst wall formed of -Inner germinal layer where the scolices -Intermediate thick laminated structureless chitinous laver -Outer fibrous layer of compressed and atrophied outer tissue. structureless chitinous layer



Slide No : 021 System : Urinary

shows:

Bilharziasis of the urinary bladder

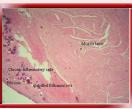
Section in the urinary bladder

-The Mucosa shows areas of ulceration, hyperplasia or squamous metaplasia.

-The lamina propria shows bilharzial granulomatous reaction formed of: * Bilharzial ova: fresh red

rounded or oval according to direction of the sectioning with terminal spine may be seen & covered with yellowish brown refractile shell. Meracidium epithelium with pin point nuclei may be seen.

* Chronic inflammatory reaction (eosinophils, plasma cells, macrophages, lymphocytes & foreign



Muscle layer Chronic inflammatory cells Fibrosis Calcified Bilharzial ova

shows:

Bilharziasis of the urinary bladder

Section in the urinary bladder

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Slide No: 021 System: Urinary

shows:

Bilharziasis of the urinary bladder

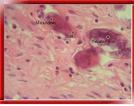
Section in the urinary bladder

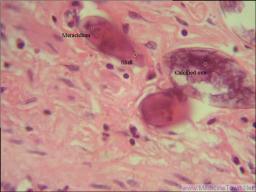
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" Chronic inflammatory reaction (eosinophils, plasma cells, macrophages, lymphocytes & foreign





Slide No: 022 System: Digestive

Bilharziasis of the large intestine

Section in the large intestine shows -The submucosa contains bilharzial

-The submucosa contains bilharzial granulomatous reaction formed of:

* Bilharzial ova: fresh red, rounded or oval with lateral spine (may be seen) & covered with vellowish

brown refractile shell. The meracidium has expansile cytoplasm & pin point nuclei.

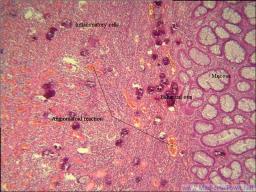
* Chronic inflammatory reaction (eosinophils, plasma cells, macrophages, lymphocytes & foreign

body giant cells).

* Granulation tissue & fibrosis.

* Angiomatoid formation & bilharzial worms may be seen.





Slide No : D22 System: Digestive

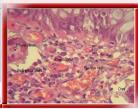
Section in the large intestine shows -The submucosa contains bilharzial granulomatous reaction formed of

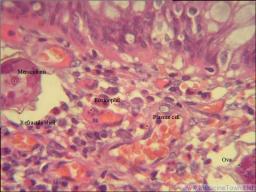
* Bilharzial ova: fresh red, rounded or oval with lateral spine (may be seen) & covered with vellowish brown refractile shell. The meracidium has expansile cytoplasm & pin point

* Chronic inflammatory reaction (eosinophils, plasma cells, macrophages, lymphocytes & foreign

body giant cells). * Granulation tissue & fibrosis * Angiomatoid formation & bilharzial worms may be seen.

Bilharziasis of the large intestine





Section in the liver shows

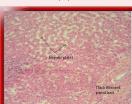
-Preserved hepatic architecture.
-The portal tracts are wide & fibrosed with thick portal vein branches, thrombosis, proliferation of bile duct & bilharzial granulomatous reaction.

formed of:

* Bilharzial ova: blue calcified or fresh red, rounded or oval with terminal spine & covered with yellowish brown refractile shall

 Chronic inflammatory reaction (eosinophils, plasma cells, macrophages, lymphocytes & foreign

body giant cells).
* Granulation tissue & fibrosis



Hepatic plates Thick fibrosed

portal tract

Slide No: 023 System: Digestive

Bilharzial periportal fibrosis

Section in the liver shows

-Preserved hepatic architecture.
 -The portal tracts are wide & fibrosed with thick portal vein branches, thrombosis, proliferation of bile duct & bilharzial granulomatous reaction.

formed of:

* Bilharzial ova: blue calcified or
fresh red, rounded or oval with terminal
spine & covered with vellowish brown

refractile shell.

* Chronic inflammatory reaction
(eosinophils, plasma cells,
macrophages, lymphocytes & foreign

body giant cells).
* Granulation tissue & fibrosis





Slide No: 023 System: Digestive

Bilharzial periportal fibrosis

Section in the liver shows

-Preserved hepatic architecture.
-The portal tracts are wide & fibrosed with thick portal vein branches, thrombosis, proliferation of bile duct & bilharzial granulomatous reaction.

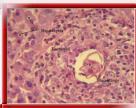
formed of:

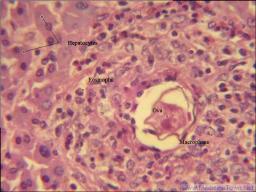
* Bilharzial ova: blue calcified or
fresh red, rounded or oval with terminal
spine & covered with yellowish brown

refractile shell.

* Chronic inflammatory reaction
(eosinophils, plasma cells,
macrophages, lymphocytes & foreign

body giant cells).
* Granulation tissue & fibrosis





Slide No: | 025 System: Female Reproductive

Fibro-adenoma (Breast)

Section shows a capsulated lobulated benign mixed tumor formed of two elements:

 Loose fibrous tissue replacing the breast fat.

fibroadenoma).

•Elongated, compressed breast ducts with branching & invaginations by the fibrous tissue (intra-canalicular fibroadenoma).





Slide No: 025 System: Female Reproductive

Fibro-adenoma (Breast)

Section shows a capsulated

lobulated benign mixed tumor formed of two elements: 1- Loose fibrous tissue replacing the breast fat.

 Proliferating breast ducts:
 Rounded or oval with patent lumen & lined by inner cubical cells & outer flat cells (peri-canalicular

fibroadenoma).

•Elongated, compressed breast ducts with branching & invaginations by the fibroad tissue (intra-canalicular fibroadenoma).





Slide No : 026 System: Miscellaneous

Squamous cell papilloma

Section of a compound branched papilloma shows:

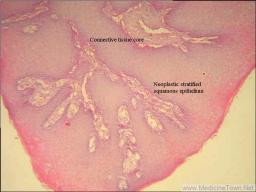
-A central connective tissue core containing blood vessels, lymphatics & -A cover of neoplastic squamous

epithelium showing: * Hyperkeratosis: increased thickness of keratin

kertain layer.

* Parakeratosis: nucleated * Neoplastic thickening of the prickle cell laver. * Proliferation of the basal layer.





Side No: | 1926 | Squamous cell papilloma |
Section of a compound branched papilloma shows: | President desired band cell light |
Application of the Compound by Insulation of the Compoun

Freidress's based on lique

Their pacies will lique

Hypinkernaens

www.MedicineTown.Net

containing blood vessels, lymphatics &

* Neoplastic thickening of the

* Proliferation of the basal layer.

-A cover of neoplastic squamous epithelium showing:

" Hyperkeratosis: increased thickness of keratin

" Parakeratosis: pucleated

kertain layer.

nrickle cell laver.

Proliferated basal cell layer Thick prickle cell layer Hyperkeratosis www.MedicineTown.Net

Senile prostatic hyperplasia

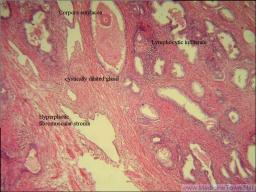
Section in the prostate shows variable-sized nodules formed by the hyperplastic prostatic tissue. Each nodule shows:

- Glands: increased in number (adenosis), variable in size & lined by one or more layers of columnar epithelium (epitheliosis). Some are cystically dilated and others show papillary projections (papillomatosis). The acin may conten laminated hyaline bodies (corpora amylacea).

- The stroma: shows hyperplastic

fibromuscular tissue with focal lymphocytic infiltrate.





Slide No: 027 System: Male Reproductive

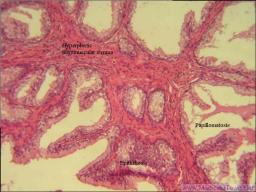
Senile prostatic hyperplasia

Section in the prostate shows variable-sized nodules formed by the hyperplastic prostatic tissue. Each nodule shows:

- Glands: increased in number (adenosis), variable in size & lined by one or more layers of columnar epithelium (epitheliosis). Some are cystically dilated and others show papillary projections (papillomatosis). The acini may contain laminated hyaline bodies (corpora amylaces).

 The stroma: shows hyperplastic fibromuscular tissue with focal lymphocytic infiltrate.



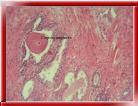


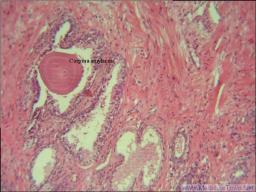
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 The stroma: shows hyperplastic fibromuscular tissue with focal lymphocytic infiltrate.





Slide No: | 1)28 | Columnar cell papilloma
System: Digestive | Columnar cell papilloma

Section in the large intestine shows

mucosal exophytic growth forming villous papillary projections composed of -Core: Delicate fibrovascular

connective tissue
-Covering: hyperplastic over
crowded mucin-secreting columnar

enithelium

Bleropherida est.

Blyrinetatur

columin replichium



Slide No: 028 System: Digestive

Columnar cell papilloma

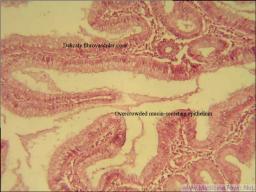
Section in the large intestine shows

mucosal exophytic growth forming villous papillary projections composed of

connective tissue

-Covering: hyperplastic over
crowded mucin-secreting columnar
enithelium





Slide No: 028 System: Digestive

connective tissue

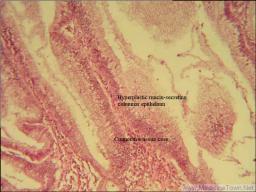
Columnar cell papilloma

Section in the large intestine shows

mucosal exophytic growth forming villous papillary projections composed of

-Covering: hyperplastic over crowded mucin-secreting columnar enithelium





Capillary haemangioma

Section of the skin shows:

-The epidermis: Thin & atrophic.
-The dermis: contains a non-capsulated harnartomatous lesion formed of:

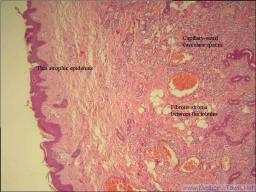
 Lobules of small capillary-sized spaces variable in shape (round, oval, irregular or obliterated) lined by flat endothelial cells and filled with blood and

separated from each other.

• Solid areas of immature endothelial burds

Delicate fibrous stroma in between.





Slide No : 029 System: Miscellaneous

Capillary haemangioma

Section of the skin shows:

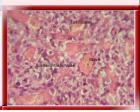
-The epidermis: Thin & atrophic. -The dermis: contains a non-capsulated

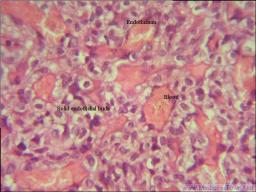
hamartomatous lesion formed of . Lobules of small capillary-sized spaces variable in shape (round, oval. irregular or obliterated) lined by flat

endothelial cells and filled with blood and separated from each other. . Solid areas of immature

endothelial huds

. Delicate fibrous stroma in between.





Slide No: 030 System: Digestive

Cavernous haemangioma

Section of the skin shows:

-The epidermis: Thin & atrophic.
-The dermis: contains a non-capsulated

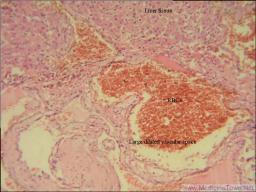
hamartomatous lesion formed of:
Lobules of small capillary-sized
spaces variable in shape (round, oval,
irregular or obliterated) lined by flat
endothelial cells and filled with blood and
separated from each other.

\$ 0 old reas of immature.

endothelial buds.

 Delicate fibrous stroma in between.





Slide No : han System: Digestive

Cavernous haemangioma

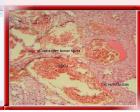
Section of the skin shows:

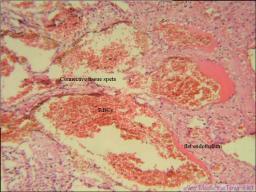
-The epidermis: Thin & atrophic. -The dermis: contains a non-capsulated

harnartomatous lesion formed of: . Lobules of small capillary-sized spaces variable in shape (round, oval. irregular or obliterated) lined by flat endothelial cells and filled with blood and separated from each other. . Solid areas of immature

endothelial huds

. Delicate fibrous stroma in between.



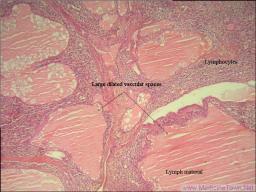


Cavernous lymphangioma

Specimen shows

A non capsulated harmarformatous lesion formed of large dilated irregular communicating vascular spaces lined by flat endothelial cells and contain homogenous pink material (jmph). The spaces are separated by connective tissue septla. Mature lymphocyles are found in the connective tissue septla missible the hymnogenous pinking the hymnogenous provides are found in the connective tissue septla or inside the hymnogenous provides are found in the connective tissue septla or inside the hymnogenous provides are found in the connective tissue septla or inside the hymnogenous provides are found in the connective tissue septla or inside the hymnogenous provides are found in the connection of the





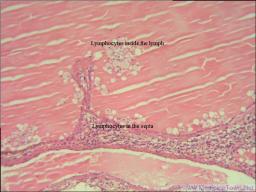
Slide No : 031 System : Muscular

Cavernous lymphangioma

System: Muscular

A non capsulated harmarformatous lesion formed of large dilated irregular communicating vascular spaces lined by flat endothelial cells and contain homogenous pink material (jmph). The spaces are separated by connective tissue septla. Mature lymphocyles are found in the connective tissue septla missible the hymnogenous pinking the large pinking to the properties of the





Slide No: N32 Lipoma System: Miscellaneous A capsulated benign tumor composed of:

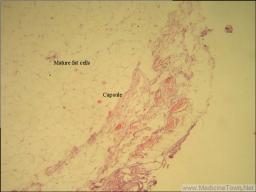
- Outer fibrous cansule

- Fibrous septa dividing the tumor into lobules & contain blood vessels. - Lobules of mature fat cells: large polygonal cells with vacuolated cytoplasm & flat eccentric nuclei (signet

ring appearance). - Few embryonic fat cells; small rounded cells with basophilic cytoplasm & small

central nuclei

Matura fat cal



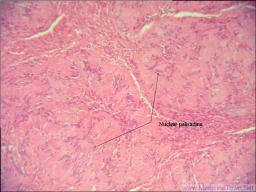
Slide No : | D2 | Lipoma |

A capsulated benign tumor composed of composed of

central nuclei

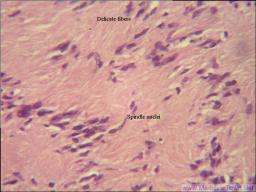


Slide No : 033 Neurilemmoma (Schwannoma) System: Nervous A capsulated lobulated benign tumor composed of: - Interlacing bundles formed of spindle parallel cells with spindle rod shaped nuclei showing nuclear palisading. - Cells are separated by delicate pink reticular fibers



Slide No : 033 Neurilemmoma (Schwannoma) System: Nervous A capsulated lobulated benign tumor composed of: Delicate 5h - Interlacing bundles formed of spindle parallel cells with spindle rod shaped nuclei showing nuclear palisading.

- Cells are separated by delicate pink reticular fibers



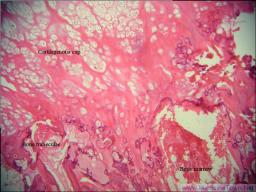
Osteochondroma (Ecchondroma)

A non capsulated hamartomatous lesion composed of two elements:

 -A cap of hyaline cartilage: normal chondrocytes arranged perpendicular to the perichondrium & surrounded by hyaline matrix.

-Cancellous bone: trabeculae separated by bone marrow fat & haemopoietic





Slide No : h35 System: Skeletal

A non capsulated hamartomatous lesion composed of two elements:

-A cap of hyaline cartilage: normal chondrocytes arranged perpendicular to the perichondrium & surrounded by hyaline matrix.

-Cancellous bone: trabeculae separated by hone marrow fat & haemonoietic

Osteochondroma (Ecchondroma)



Cartilagenous cap Bone marrow

Bone trabeculae

Slide No: 035 System: Skeletal

Osteochondroma (Ecchondroma)

A non capsulated hamartomatous lesion composed of two elements.

 A cap of hyaline cartilage: normal chondrocytes arranged perpendicular to the perichondrium & surrounded by hyaline matrix.

-Cancellous bone: trabeculae separated by bone marrow fat & haemopoietic





(extra-cellular).

Benign melanoma (Naevus)

A non capsulated hamartomatous lesion composed of Groups of melanocytes (Naevus cells): -Small, rounded or polyhedral with

scanty cytoplasm and large vesicular nuclei. -The cells are separated by collagen

bundles & present in the upper part of the dermis.

-The melanin pigment is present in the melanocytes, melanophages or free





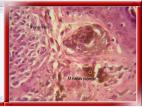
Benign melanoma (Naevus)

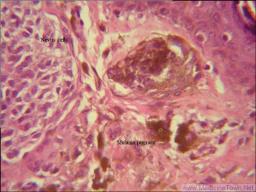
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-The cells are separated by collagen bundles & present in the upper part of the dermis.

 The melanin pigment is present in the melanocytes, melanophages or free (extra-cellular).





Slide No : 037
System : Miscellaneous

Malignant melanoma

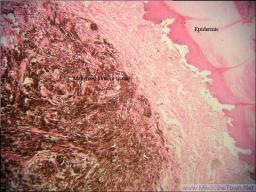
Section shows a highly malignant tumor formed of groups of malignant melanocytes:

Rounded or polyhedral (melanocarcinoma) or spindle (melanosarcoma) showing the criteria of malignancy (pleomorphic cells with large dark hyperchromatic pleomorphic nuclei with abnormal mitosis & prominent nucleoii)

nucleoil).

The cells infiltrate the dermis with ulceration of the epidermis, hemorrhage & necrosis with excess melanin formation in the cytoplasm or outside the cells.





Slide No: 037

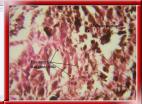
System: Miscellaneous

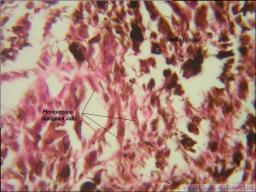
Malignant melanoma

Section shows a highly malignant turnor formed of groups of malignant melanocytes:

Rounded or polyhedral (melanocaroinoma) or spindle (melanosarcoma) showing the criteria of malignancy (pleomorphic cells with large dark hyperchromatic pleomorphic nuclei with abnormal mitosis & prominent nuclei

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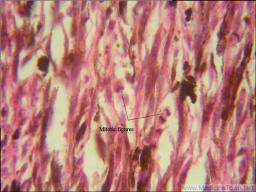
Malignant melanoma

Section shows a highly malignant turnor formed of groups of malignant melanocytes:

-Rounded or polyhedral (melanocarcinoma) or spindle (melanosarcoma) showing the criteria of malignancy (pleomorphic cells with large dark hyperchromatic pleomorphic nuclei with abnormal mitosis & prominent nucleoii).

-The cells infiltrate the dermis with ulceration of the epidermis, hemorrhage & necrosis with excess melanin formation in the cytoplasm or outside the cells:





Slide No: 038
System: Miscellaneous

Squamous cell carcinoma

A specimen in the skin showing

The optiormis: is ulcerated.
The demis: is infiltrated by sheets of malignant squamous epithelium show the criteria of malignancy (pleomorphic cells having dark hyperchromatic pleomorphic nuclei with abnormal mitosis and prominent nucleoil) that form cell nests formed of (peripheral prickle cell layers, intermediate flat cells and central keratinization).





Slide No: 038

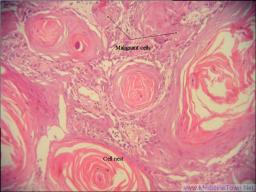
System: Miscellaneous

Squamous cell carcinoma

A specimen in the skin showing

-The epidermis: is ulcorated
-The dermis: in infiltrated by sheets of
malignant squamous epithelium show
the criterio of malignancy (pleomorphis
cells having dark hyperchromatic
pleomorphis outsel with abnormal
mitosis and prominent nucleoil) that
form cell nests formed of (peripheral
prickle cell layers, intermediate flat cells
and central keratinization).

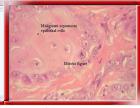


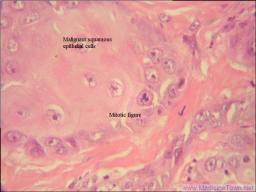


Squamous cell carcinoma

A specimen in the skin showing

-The epidermis: is ulcerated.
-The dermis: is infiltrated by sheets of malignant squamous epithelium show the criteria of malignancy (pleomorphis cells having dark hyperchromatic pleomorphis nuclei with athormal mitosis and prominent nucleoil) that form cell nests formed of (peripheral prickle cell layers, intermediate flat cells and central keratinization).

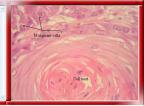




Squamous cell carcinoma

A specimen in the skin showing

-The epidermis: is ulcerated
-The dermis: is infiltrated by sheets of
malignant squamous epithelium show
the criteria of malignancy (pleomorphis
cells having dark hyperchromatic
pleomorphis nuclei with abnormal
mitosis and prominent nucleoi) that
form cell nests formed of (peripheral
prickle cell layers, intermediate flat cells
and central kertanization).





Slide No : 039 System : Miscellaneous

Basal cell carcinoma

A specimen in the skin showing

The epidermis: is ulcorated.

The dermis: is infiltrated by sheets 8 groups of malignant basal cells which show the criteria of malignancy (pleomorphis or small cells with dark hyperchromatic pelomorphis nuclei with abnormal motosis 8 prominent nucleoil). The sheets of malignant cells show basal cells with peripheral palsading. No cell nest formation or central (scratinization).





Slide No : 039 System : Miscellaneous

Basal cell carcinoma

A specimen in the skin showing

-The optiormis: is ulcorated.
-The demis: is infilitated by sheets 8
groups of malignant basal cells which
show the criteria of malignancy
(pleomorphic small cells with dark
hyperchromatic peleomorphic nuclei with
abnormal mitosis & prominent nucleoil).
The sheets of malignant cells show
the sheet of malignant cells and
cell rest formation or central
certainization or central



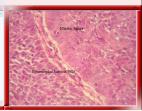


Slide No : | |039 System : Miscellaneous

Basal cell carcinoma

A specimen in the skin showing

-The optiormis: is ulcorated - The derms is infiltrated by sheets 8 groups of malignant basal cells which show the criteria of malignancy (pleomorphic small cells with dark hyperchromatic pelcorophic nuclei with shanomal micosis & prominent nucleoil). The sheets of malignant cells show basal cells with peripheral palisading. No cell nest formation or central (certainization.)





Slide No: 040 Adenocarcinoma (colon)
System: Diagestive

Specimen in the colon shows

Area of normal intestine. Other areas are infiltrated by

- malignant acini characterized by:
 * Irregular in shape with no basement
- Lined by malignant cells (pleomorphic cells with hyperchromatic pleomorphic nuclei with abnormal mitosis and prominent nucleol).
- * Irregular eccentric or obliterated lumen.
- * Some are cystically dilated (cystadenocarcinoma) or with papillae
- (papillary cystadenocarcinoma).

 * Present in abnormal sites (infiltrate submucosa, musculosa or serosa).





Slide No: 040 System: Digestive

Adenocarcinoma (colon)

Specimen in the colon shows

- Area of normal intestine.
 Other areas are infiltrated by
- malignant acini characterized by:

 * Irregular in shape with no basement
 membrane
- Lined by malignant cells (pleomorphic cells with hyperchromatic pleomorphic nuclei with abnormal mitosis and prominent nucleol).
- * Irregular eccentric or obliterated lumen. * Some are cystically dilated
- (cystadenocarcinoma) or with papillae
- (papillary cystadenocarcinoma).

 * Present in abnormal sites (infiltrate submucosa, musculosa or serosa).





Slide No: 040 System: Digestive

Adenocarcinoma (colon)

Specimen in the colon shows

- Area of normal intestine.
 Other areas are infiltrated by
- malignant acini characterized by:

 * Irregular in shape with no basement membrane.
- Lined by malignant cells (pleomorphic cells with hyperchromatic pleomorphic nuclei with abnormal mitosis and prominent nucleol).
- * Irregular eccentric or obliterated lumen. * Some are cystically dilated
- (cystadenocarcinoma) or with papillae
- (papillary cystadenocarcinoma).
 * Present in abnormal sites (infiltrate submucosa, musculosa or serosa).



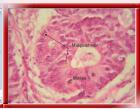


Slide No : Adenocarcinoma (colon) System: Digestive

Specimen in the colon shows

Area of normal intestine

- Other areas are infiltrated by malignant acini characterized by: * Irregular in shape with no basement
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- prominent nucleoli) * Irregular eccentric or obliterated lumen.
- * Some are cystically dilated
- (cystadenocarcinoma) or with papillae (papillary cystadenocarcinoma). submucosa, musculosa or serosa).
- * Present in abnormal sites (infiltrate





Slide No: 041 System: Digestive

Mucoid adenocarcinoma (colon)

Specimen in the colon shows

-Area of normal intestine.
-The wall is infiltrated by pools of pale blue mucin containing scattered signet

ring cells and ruptured malignant acini characterized by.

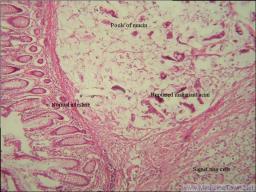
* Lined by malignant cells (pleomorphic cells with hyperchromatic pleomorphic nuclei with abnormal mitosis and prominent nucleoli).

* Irregular in shape with no

basement membrane.

* There are areas of hemorrhage, necrosis & round cell infiltrate.





Mucoid adenocarcinoma (colon)

Specimen in the colon shows

basement membrane.

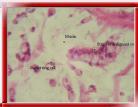
* There are areas of hemorrhage, necrosis & round cell infiltrate.

-Area of normal intestine.
-The wall is infiltrated by pools of pale blue mucin containing scattered signet ring cells and ruptured malignant acini

characterized by:

* Lined by malignant cells
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pleomorphic nuclei with abnormal
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* Irregular in shape with no





Slide No: | 041 System: Digestive

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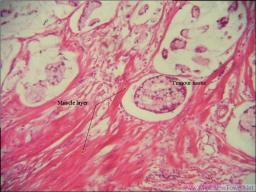
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The pressures



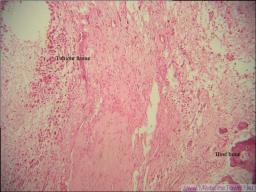
Slide No: 042 System: Skeletal

Osteosarcoma

A highly malignant tumor composed

-Malignant osteoblasts (sarcoma cells): pleomorphic spindle cells with pleomorphic dark nuclei that may fuse to form tumor giant cells. -Osteoid & osseus matrix: homogenous pink and lace-like in between the cells. -Areas of haemorrhage & necrosis.

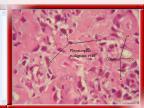




Slide No: 042
System: Skeletal
Skeletal

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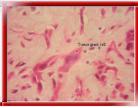




Slide No : h42 Osteosarcoma System: Skeletal

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Slide No: 043
System: Skeletel

A malignant tumor composed of: - Malignant chondrocytes:

Rounded with clear cytoplasm & few mitoses (in well Differentiated tumors). Or pleomorphic spindle cells with frequent mitoses (in undifferentiated timors).

 Chondroid hyaline matrix abundant if differentiated & few if less differentiated.
 Areas of haemorrhage, necrosis & calcification are present.





Slide No: 043 System: Skeletal

Chondrosarcoma

A malignant tumor composed of: - Malignant chondrocytes:

Rounded with clear cytoplasm & few mitoses (in well Differentiated tumors) Or pleomorphic spindle cells with frequent mitoses (in undifferentiated tumors)

 Chondroid hyaline matrix: abundant if differentiated & few if less differentiated.
 Areas of haemorrhage, necrosis & calcification are present.





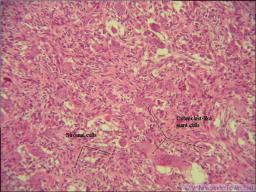
Giant cell tumor (Osteoclastoma)

A locally malignant tumor composed

 Stromal cells: spindle cells with dark hyperchromatic nuclei & variable number of mitosis.

-Several reactive osteoclast-like giant cells; evenly distributed large cells with up to 100 small round vesicular nuclei. -Scanty fibro-vascular stroma.



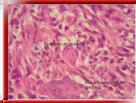


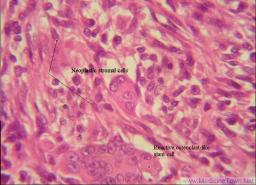
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A locally malignant tumor composed

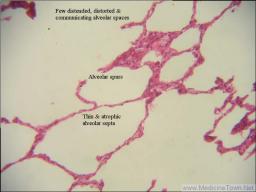
-Stromal cells: spindle cells with dark hyperchromatic nuclei & variable number of mitosis.

-Several reactive osteoclast-like giant cells: evenly distributed large cells with up to 100 small round vesicular nuclei. -Scanty fibro-vascular stroma.





Slide No : 0.45 Emphysema System: Respiratory Section of the lung shows: -Alveolar spaces: are few distended & communicating alveolar spaces distorted. Some of them rupture & communicate with each other to form wide spaces with remnants of septa. (alveolar spurs). -Alveolar septa: are thin & atrophic with decrease of elastic tissue. The alveolar capillaries are compressed. -The bronchioles: show chronic Thin & atrophi hronchiolitis alveolar septs -Areas of anthracosis



Slide No: 845 System: Respiratory

Emphysema

Section of the lung shows

-Alveolar spaces: are few distended & distorted. Some of them rupture & communicate with each other to form wide spaces with remnants of septa (alveolar sours).

-Alveolar septa: are thin & atrophic with decrease of elastic tissue. The alveolar capillaries are compressed. -The propositions: show obronic

bronchiolitis.
-Areas of anthracosis





Slide No : [h46

System: Respiratory

Section in the nasal masses show -The epithelium: metaplastic squamous

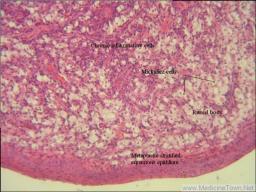
enithlium -The sub-enithelium contains: * A background of chronic inflammatory cells: plasma cells.

macrophages & lymphocytes). * Mickulicz cells: groups of vacuolated macrophages engulfing the bacteria & undergo hydropic

degeneration. * Bussel bodies: scattered red homogenous oval bodies with pyknotic eccentric nuclei due to hvaline degeneration of plasma cells.

Rhinoscleroma





Slide No :

System: Respiratory

Section in the nasal masses show

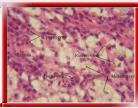
-The epithelium: metaplastic squamous enithlium -The sub-enithelium contains:

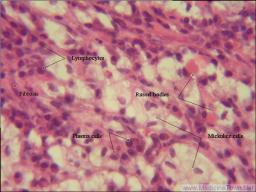
* A background of chronic inflammatory cells: plasma cells. macrophages & lymphocytes).

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* Bussel bodies: scattered red homogenous oval bodies with pyknotic eccentric nuclei due to hvaline degeneration of plasma cells.

Rhinoscleroma





Slide No: 047 System: Respiratory

Oat cell carcinoma

Section shows infiltration of the lung

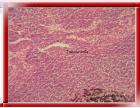
-A non-capsulated malignant tumor formed of groups of small, lymphocytes-like malignant cells. The

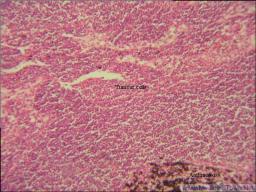
cells are oval, rounded or spindle with scanty cytoplasm & oval dark nuclei (oat cells). The cells are separated by scanty fibrous stroma.

-Some areas of the lung show collapse

or compensatory emphysema.

-Other areas show haemorrhage and necrosis





Slide No: | 147 | Oat cell carcinoma

Section shows infiltration of the lung

-A non-capsulated malignant tumor formed of groups of small, lymphocytes-like malignant cells. The

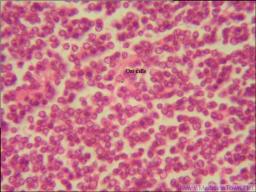
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Out to 1



Section shows infiltration of the lung

System: Respiratory

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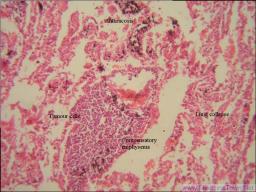
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-Other areas show haemorrhage and necrosis.





Slide No: 048 System: Digestive

Typhoid ulcer (small intestine)

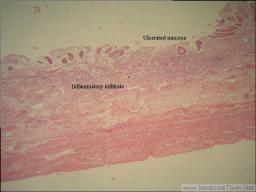
Section in the small intestine shows

of peyer's patches with underlying typhoid reaction.

The sumbucosa shows acute inflammation; dilated congested capillaries & large number of macrophages enquifing bacilli & RBCs,

hymphocytes & plasma cells.

-The floor, base & margins of the ulcer show, necrosis & granulation tissue. Ulterated machas

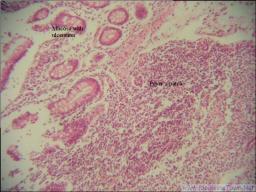


Typhoid ulcer (small intestine)

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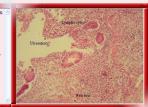


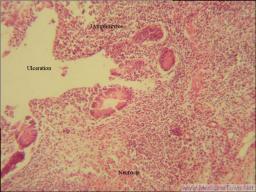
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Slide No: 049 System: Digestive

Liver cirrhosis

Section in the liver shows

 Loss of normal hepatic architecture with replacement by:

 Regeneration nodules: Variable in size & shape formed of irregular cords with loss of sinusoidal pattern. The cells are variable in size with bi-nucleated forms & variable fat vacuoles. The central veins are absent eccentric or doubled.

-Fibrous septa: thick around regeneration nodules containing chronic inflammatory cells, bile duct proliferation & capillaries





Slide No: 049 System: Digestive

Liver cirrhosis

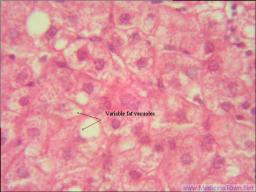
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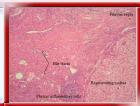
Liver cirrhosis

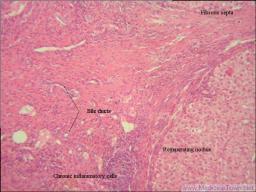
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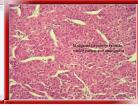
Slide No: 050 System: Digestive

Hepatocellular carcinoma (Hepatoma)

Section of the liver shows

-A tumor proliferation formed of sheets, cords, acini & trabculae formed of malignant hepatocytes. -The cells are polyhedral, pleomorphic

with large hyperchromatic pleomorphic nuclei & frequent mitoses. The tumor contains scently fibro-vascular stroma. -The rest of the liver shows the picture of liver cirrhosis (loss of normal hepatic architecture with replacement by regeneration nodules surrounded by fibrous senta.





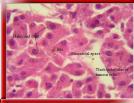
Slide No: 050 System: Digestive

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Metastatic adenocarcinoma (liver)

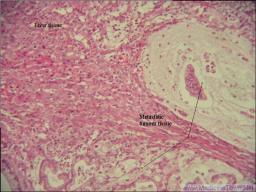
Section in the liver shows

normal architecture with infiltration by malignant acini. -The acini are irregular in shape with no

basement membrane. They are lined by malignant cells (pleomorphic cells with hyperchromatic pleomorphic nuclei with abnormal mitosis & prominent nucleoli). The acini are surrounded by

desmoplastic stroma & contain areas of mucoid degenration.





Metastatic adenocarcinoma (liver)

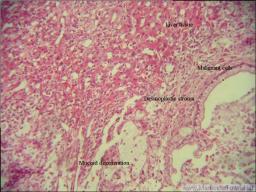
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Slide No : 053 System : Urinary

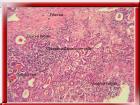
Chronic pyelonephritis

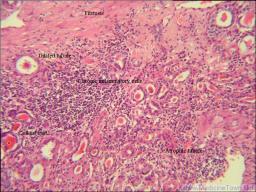
Section in the kidney shows that

-The interstitial tissue shows chronic non-specific inflammatory reaction in the form of chronic inflammatory cells (lymphocytes, plasma cells, macrophages), end arteritis oblitrans &

-The tubules some are fibrotic, others are cystically dilated & contain colloid cast resembling thyroid follicles (thyroidization).

-The glomeruli are few in number & surrounded by peri-glomerular fibrosis.





Slide No: 053 System: Urinary

Chronic pyelonephritis

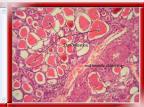
Section in the kidney shows that:

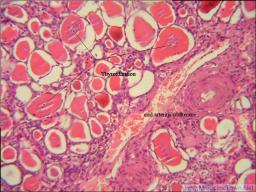
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Chronic pyelonephritis

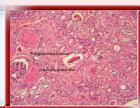
Section in the kidney shows that

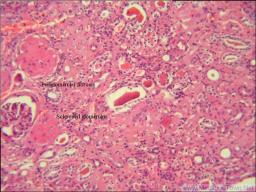
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 -The glomeruli are few in number & surrounded by peri-glomerular fibrosis.





Slide No: 054
System: Urinary
Wilm's tumour

Section of the kidney shows a highly malignant embryonal tumor formed

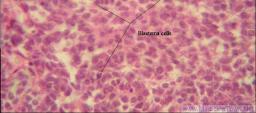
of: *A sarcomatous background: shows malignant embryonal (blastema) cells:

spindle, oval or rounded with dark nuclei. *Abortive glomeruli & tubules: lined by

cubical cells with no definite basement membrane.

*Mixed stromal element: fibrous tissue, muscle, bone & cartilage.





Slide No: 054 System: Urinary

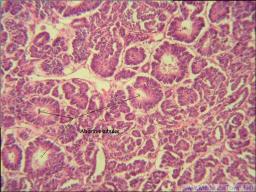
Wilm's turnour

Section of the kidney shows a highly malignant embryonal tumor formed of: *A sarcomatous background: shows

- malignant embryonal (blastema) cells; spindle, oval or rounded with dark
- *Abortive glomeruli & tubules: lined by cubical cells with no definite basement membrane
 - *Mixed stromal element: fibrous tissue, muscle, bone & cartilage.







Slide No: | 154 |
System: Urinary | Wilm's turnour

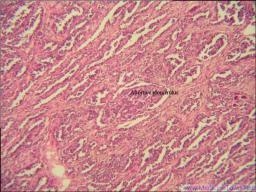
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*Abortive glomeruli & tubules: lined by

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Slide No: | 1954 | Wilm's turnour | System: Urinary

Section of the kidney shows a highly malignant embryonal tumor formed

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nuclei.
*Abortive glomeruli & tubules: lined by

cubical cells with no definite basement membrane.

*Mixed stromal element: fibrous tissue, muscle, bone & cartilage.



Fibrous tissue

Malignant cells

Slide No: 055
System: Unimary
Renal cell carcinoma (Hypernephroma)

Section in the kidney shows a malignant tumor formed of:

 Sheets, groups & cords of malignant cells separated by delicate fibro-vascular stroma.

-The cells are large polyhedral with clear or granular cytoplasm due to high content of lipids & glycogen. The nuclei are small dark & hyperchromatic. -Areas of haemorrhage and necrosis.



Sheets of malignant cells Delicate fibro-vascular stroma

Slide No: | p55 | Renal cell carcinoma (Hypernephroma)

System: Urinary | Renal cell carcinoma (Hypernephroma)

Section in the kidney shows a malignant tumor formed of:

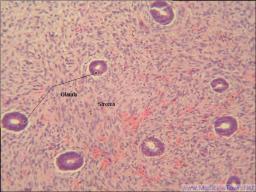
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Slide No : hss Proliferative endometrium System: Female Reproductive Section in the endometrium shows: -The glands are uniform in size & distribution, tubular or rounded in shape & lined by columnar epithelium. -The stromal cells are spindle-shaped with deeply stained nuclei.

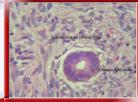


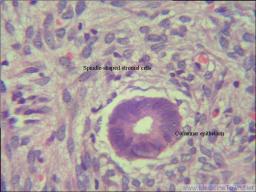
Slide No : 056 System: Female Reproductive

Proliferative endometrium

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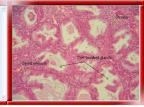
Slide No: 057 System: Female Reproductive

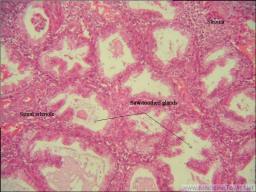
Secretory endometrium

Section of the endometrium shows

-The glands: are uniform in size & distribution, tortuous with saw-toothed appearance & lined by cubical epithelium.

-The stromal cells rounded with abundant cytoplasm. The stroma is congested, cedematous with spiral arterioles & stromal granulocytes.



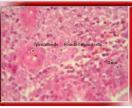


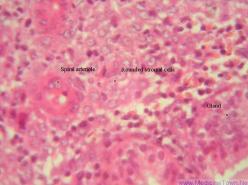
Secr

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Slide No :

058

System: Female Reproductive

Section in the endometrium shows:

-The glands are increased in number, variable in size with cystically dilated forms. They are lined by hyperplastic tall columnar epithelium that may form papillae.

-The stromal cells are over crowded spindle with scanty cytoplasm & the stroma is congested, oedematous with Cystic endometrial hyperplasia





Slide No :

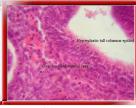
058

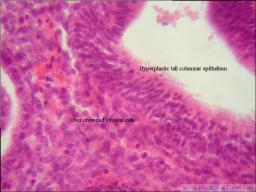
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Section in the endometrium shows:

-The glands are increased in number. variable in size with cystically dilated forms. They are lined by hyperplastic tall columnar epithelium that may form

papillae. -The stromal cells are over crowded spindle with scanty cytoplasm & the stroma is congested, gedematous with Cystic endometrial hyperplasia

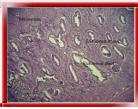


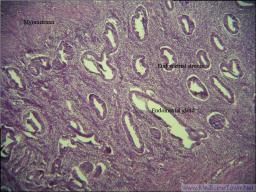


Ademoyosis (Endometriosis interna)

Section in the thickened myometrium shows : foci of endometrium formed of

endometrial glands lined by single layer of columnar epithelium & spindleshaped stroma with foci of haemorrhage. Round cell infiltrate around such endometrium is also seen

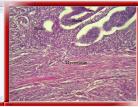


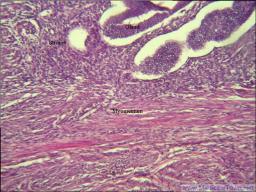


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Slide No: 060

System: Female Reproductive

Section of composite tumor shows

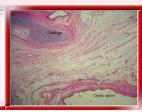
the three germ cell layers as (brain tissue, retina, cartilage, bone & muscle).

mixture of structures derived from the three germ cell layers (endoderm, ectoderm & mesoderm).

-The Tumor shows multi-cystic structures lined by squamous, respiratory & intestinal epithelium.

-The septa between the cysts show many different structures derived from

Teratoma (benign cystic)





Slide No:

060

System: Female Reproductive

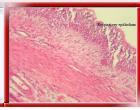
Section of composite tumor shows

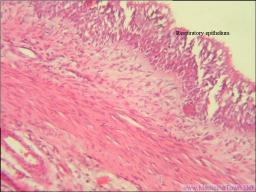
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Teratoma (benign cystic)





System: Female Reproductive

Section of composite tumor shows

three germ cell layers (endoderm, ectoderm & mesoderm).

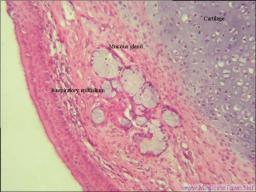
-The Tumor shows multi-cystic structures lined by squamous.

respiratory & intestinal epithelium.

-The septa between the cysts show many different structures derived from the three germ cell layers as (brain tissue, retina, cartilage, bone & muscle).

Teratoma (benign cystic)





Slide No : 060 System : Female Reproductive

eproductive Terator

Section of composite tumor shows

three germ cell layers (endoderm, ectoderm & mesoderm).

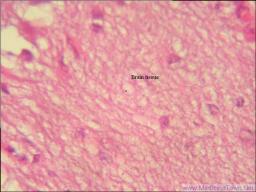
-The Tumor shows multi-cystic structures lined by squamous,

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-The septa between the cysts show many different structures derived from the three germ cell layers as (brain tissue, retina, cartilage, bone & muscle).

Teratoma (benign cystic)



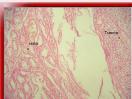


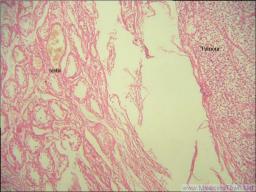
Slide No : 061 Seminoma System: Male Reproductive

Section shows a malignant non-

lymphocytic infiltrate

capsulated tumor formed of -Sheets of malignant cells: large polyhedral with abundant pale cytoplasm, large vesicular nuclei & prominent nucleoli. -Stroma: Delicate reticular stroma with -Areas of haemorrhage & necrosis.



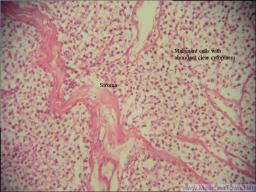


lymphocytic infiltrate.
-Areas of haemorrhage & necrosis.

Seminoma

Section shows a malignant noncapsulated turnor formed of: -Sheets of malignant cells: large polyhedral with abundant pale cytoplasm, large vesicular nuclei & prominent nucleoli. -Stroma: Delicate reticular stroma with





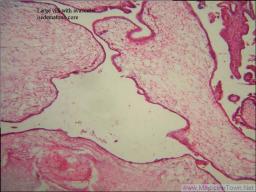
Section shows a malignant noncapsulated tumor formed of: -Sheets of malignant cells: large polyhedral with abundant pale cytoplasm, large vesicular nuclei &

prominent nucleoli.
-Stroma: Delicate reticular stroma with lymphocytic infiltrate.
-Areas of haemorrhage & necrosis. Seminoma





Slide No : 062 Vesicular mole System: Female Reproductive Section shows a benign placental tumor formed of large chorionic villi composed of: -Core is formed of avascular oedematous connective tissue -Covering: proliferating cyto- & syncytiotrophoblast with polarization. -May contain foetal membrane, decidua & haemorrhage.



MEDICINETOWN ATLAS OF PATHOLOGY
Side No: | 1862
System: Female Reproductive

Vesicular mole

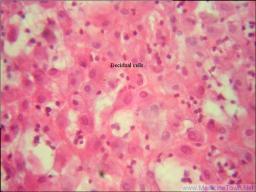
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codematous connective tissue.
 Covering: proliferating cyto- & syncytiotrophoblast with polarization.
 -May contain foetal membrane, decidua & haemorrhage.





Slide No : hs2 Vesicular mole System: Female Reproductive Section shows a benign placental tumor formed of large chorionic villi composed of: -Core is formed of avascular oedematous connective tissue -Covering: proliferating cyto- & syncytiotrophoblast with polarization. -May contain foetal membrane, decidua & haemorrhage



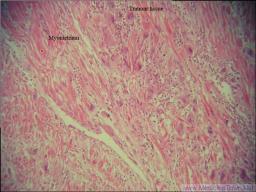
Slide No : 063 System: Female Reproductive

A highly malignant tumor of the trophoblast shows that -The myometrium is infiltrated by sheets

of malignant cytotrophoblast (polygonal cells vary in size with dark nuclei) & malignant syncytiotrophoblast (sheets of cytoplasm with no cell borders & large

dark nuclei -Extensive haemorrhage & necrosis. Choriocreinoma





Slide No: 063 System: Female Reproductive

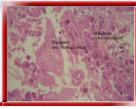
Bennductive

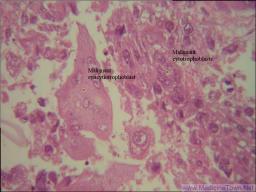
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Choriocreinoma





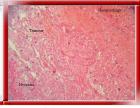
Slide No : hes System: Female Reproductive

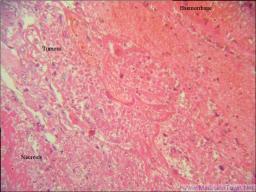
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-Extensive haemorrhage & necrosis.

Choriocreinoma





Slide No : [064 System: Female Reproductive

Section in the breast shows - The breast ducts show

* Adenosis (increased number of

* Epitheliosis (increased lining cells of the ducts). * Papillomatosis may be seen as

small papillae with no connective tissue * Ovst formation: macro-or micro-

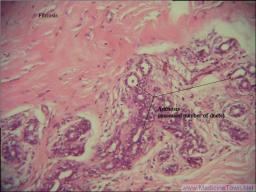
cysts lined by flat cells or apocrine cells * Apocrine metaplasia: cells with eosinophilic granular cytoplasm and

small central nuclei - The stroma: show lymphocytic

infiltration & fibrosis

Fibrocystic disease of the breast





Slide No: 064 System: Female Reproductive

Fibrocystic disease of the breast

Section in the breast shows

The breast ducts show:
 * Adenosis (increased number of

* Epitheliosis (increased lining cells of the ducts).

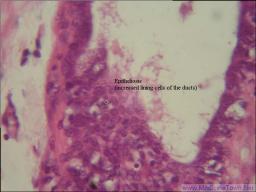
* Papillomatosis may be seen as small papillae with no connective tissue

 Cyst formation: macro-or microcysts lined by flat cells or apocrine cells
 Apocrine metaplasia: cells with eosinophilic granular cytoplasm and

small central nuclei.

The stroma: show lymphocytic infiltration & fibrosis





Slide No : hs4 System: Female Reproductive

Section in the breast shows - The breast ducts show

* Adenosis (increased number of

* Epitheliosis (increased lining cells of the ducts). * Papillomatosis may be seen as

small papillae with no connective tissue * Ovst formation: macro-or micro-

cysts lined by flat cells or apocrine cells * Apocrine metaplasia: cells with eosinophilic granular cytoplasm and

small central nuclei - The stroma: show lymphocytic infiltration & fibrosis

Fibrocystic disease of the breast





Slide No : hs4 Fibrocystic disease of the breast

System: Female Reproductive Section in the breast shows - The breast ducts show

* Adenosis (increased number of * Epitheliosis (increased lining cells

of the ducts). * Papillomatosis may be seen as

small papillae with no connective tissue * Ovst formation: macro-or microcysts lined by flat cells or apocrine cells

* Apocrine metaplasia: cells with eosinophilic granular cytoplasm and

small central nuclei - The stroma: show lymphocytic

infiltration & fibrosis





Slide No: 064 System: Female Reproductive

Fibrocystic disease of the breast

Section in the breast shows: - The breast ducts show:

* Adenosis (increased number of ducts). * Epitheliosis (increased lining cells

of the ducts).

* Papillomatosis may be seen as small papillae with no connective tissue

core.

* Oyst formation: macro-or microcysts lined by flat cells or apocrine cells

* Apocrine metaplasia: cells with

eosinophilic granular cytoplasm and small central nuclei.

The stroma: show lymphocytic infiltration & fibrosis





Slide No : [

065

System: Female Reproductive

Section in the breast shows that the breast ducts are dilated &

distended with malignant duct epithelium

(pleomorphic cells with dark hyperchromatic nuclei & prominent

nucleoli).

- The ducts show different patterns:

.Solid: ducts are completely

occluded by the malignant cells.

+Papillary: dilated ducts with

papillary projections. .Comedo: necrosis of the central

cells that appear granular and red.

»No invasion of the basement

membrane

-Intact fibro-fatty stroma.

Intra-duct carcinoma





Slide No :

has Section in the breast shows

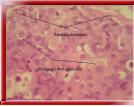
System: Female Reproductive

that the breast ducts are dilated & distended with malignant duct epithelium (pleomorphic cells with dark hyperchromatic nuclei & prominent

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papillary projections. .Comedo: necrosis of the central cells that appear granular and red. »No invasion of the basement

membrane -Intact fibro-fatty stroma. Intra-duct carcinoma





Slide No : 066 System : Female Reproductive

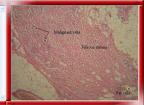
Infiltrating duct carcinoma

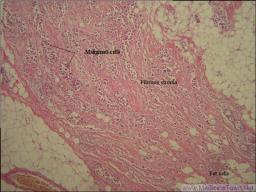
Section shows a malignant tumor composed of:

-Sheets & groups of rounded to polygonal malignant epithelial cells. -The malignant cells are pleomorphic

with dark hyperchromatic nuclei & prominent nucleoli.

-The malignant cells are separated by fibrous stroma.





Slide No : 066 System : Female Reproductive

Infiltrating duct carcinoma

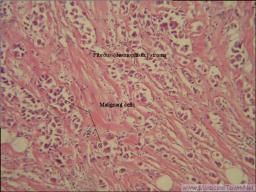
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-The malignant cells are separated by fibrous stroma.





Slide No: | 1)67 System: Endocrine

Simple nodular goiter

Section of the thyroid gland shows: -The gland is divided by fibrous septa into variable sized nodules. -Each nodule shows thyroid follicles:

into variable sized nodules.

-Each nodule shows thyroid follicles; small, large or cystically dilated & contain excess homogenous pink colloid & lined by flat to cubical enithelium.

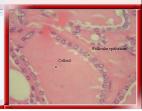


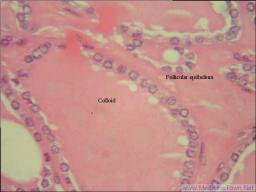


Simple nodular goiter

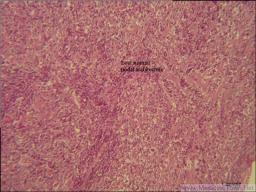
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-The gland is divided by fibrous septa into variable sized nodules. Each nodule shows thyroid follicles; small, large or cystically dilated & contain excess homogenous pink colloid & lined by flat to cubical eaith





*Non-neoplastic (reactive) cells: mbdure of mature lymphocytes, plasma cells, eosinophils, histoiocytes & neutrophils. - Areas of fibrosis, haemorrhage &



Slide No : hes Hodgkin's lymphoma System: Lymphatic

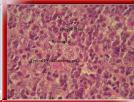
Section in the lymph node shows: - Loss of normal nodal architecture with infiltration by:

* Neoplastic cells (Typical Reed-Stemberg cells): large giant cells with abundant amphophilic cytoplasm & two mirror image kidney-shaped vesicular nuclei containing prominent eosinophilic nucleoli.

Mononuclear Hodgkin's cells may be

*Non-neoplastic (reactive) cells: mixture of mature lymphocytes, plasma cells, eosinophils, histoiocytes & - Areas of fibrosis, haemorrhage &

neutrophils.

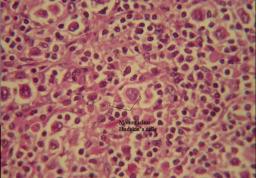


Lymphocytes

200

Typical Reed-Stemberg cell





Slide No : 069 System : Lymphotic

Section in the lymph node shows:
-Partial replacement of the lymphoid
tissue by malignant tissue (metastatic

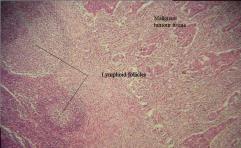
carcinoma).

-The tumor is arranged in solid sheets or acini. The cells show the malignant characters (loss of polarity, cellular pleomorphism with pleomorphic dark typerchromatic nuclei & prominent.

nucleoli).

-Areas of haemorrhage, necrosis & lymphatic tumor emboli are also seen. Metastatic carcinoma (lymph node)





Slide No : 069 System : Lymphatic

Metastatic carcinoma (lymph node)

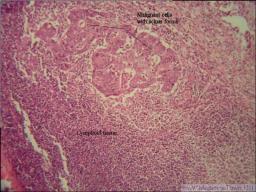
Section in the lymph node shows -Partial replacement of the lymphoid

 Partial replacement of the lymphoid tissue by malignant tissue (metastatic carcinoma).
 The tumor is arranged in solid sheets.

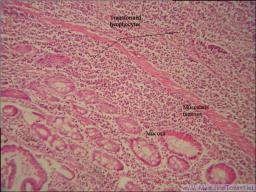
or acini. The cells show the malignant characters (loss of polarity, cellular pleomorphism with pleomorphic dark hyperchromatic nuclei & prominent nucleoii).

-Areas of haemorrhage, necrosis & lymphatic tumor emboli are also seen.





Slide No : hzn Intestinal lymphoma System: Digestive Section in the small intestine shows -Diffuse infiltration of all layer of the intestine by large transformed (malignant) lymphocytes uniform in size & shape with coarse chromatin granules & irregular nuclear membrane with prominent nucleoli & scanty cytoplasm. -Areas of haemorrhage & necrosis are



Slide No : 070 Intestinal lymphoma System: Digestive Section in the small intestine shows -Diffuse infiltration of all layer of the intestine by large transformed (malignant) lymphocytes uniform in size & shape with coarse chromatin granules & irregular nuclear membrane with prominent nucleoli & scanty cytoplasm. -Areas of haemorrhage & necrosis are

Intestinal mucosal glands

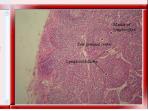
Transformed lymphocytes

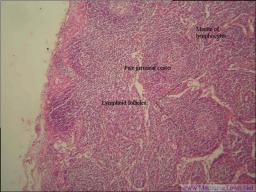
Slide No : 071 System : Lymphotic

Follicular hyperplasia of the lymph node

Section in the lymph node shows:

-Mary large reactive lymphoid follicles variable in size & shape with prominent pale germinal center & surrounded by dark mantle (zone) of lymphocytes. -The follicles are scattered in the cortex & medular.



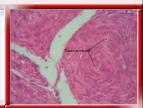


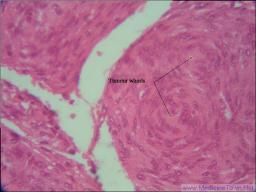
Meningioma

Section of a benign tumor of the meninges shows:

-Whorls of meningiothelial cells (rounded or oval cells with vesicular nuclei & ill-defined cell borders) separated by loose vascular connective

-Some whorts show hyaline changes in their center forming homogeneous pink eosinophilic bodies that may become blue dark calcified bodies (Psammoma hodies)





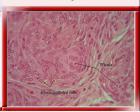
Slide No : 072 System : Nervous

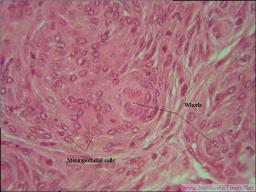
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Slide No : 072 System : Nervous

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-Some whorls show hyaline changes in their center forming homogeneous pink eosinophilic bodies that may become blue dark calcified bodies (Psammoma bodies).





Slide No : 073

System: Female Reproductive

Section in the uterus shows a benign tumor formed of:

-Interlacing bundles of smooth muscle fibers running in various directions. The fibers are spindled with rounded ends, abundant cytoplasm & rod-shaped

nuclei.

 Fibrous stroma mixed with the smooth muscle fibers (fibroblasts) that are spindled with tapering ends & flat nuclei.
 The fibrous stroma may be abundant (fibromyoma or fibroid).





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Slide No :	D73						

System: Female Reproductive

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