

Surgery notes for competitive examinations

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Intervals, Durations etc.

Abdomen

- Interval appendicectomy - two months after acute attack
- Appendicular mass resolves within three days or else it forms appendicular abscess by 5 to 10 days.
- Appendicular mass is to be operated immediately after it resolves.
- Cholecystectomy for acute cholecystitis is preferably done after 8 to 10 weeks.
- Colostomy matures after two months and it can be closed thereafter.
- In carcinoma pancreas, death usually occurs in six months after obstructive jaundice.
- Chronic intestinal ischaemia—Pain in abdomen occurs in 30 minutes after food intake.
- Return of intestinal motility after operation occurs after 16 hours.
- Duodenal blow out occurs on 4th postoperative day of gastrectomy.
- Stoma should be open after polygastrectomy by 3rd day.
- Stoma should be open after Billroth 1 operation in five days.
- Postoperative obstruction by fibrinous adhesions occurs in three to six postoperative days, m) Postoperative obstruction by fibrous adhesions—anytime,
- Splenectomy in hereditary spherocytosis done best at 7 years (if asymptomatic),
- Schistosomiasis (Egyptian splenomegaly)—Survival after ascites only 6 to 12 months,
- Obstructive appendicitis—Gangrene occurs in 12-18 hours.
- Choledochal cysts are seldom seen before six months of age.
- Acute pancreatitis—Pseudopancreatic cyst may form at the end of 2nd week. Abscess after 3rd week.

General

- Wound tensile strength approaches that of normal tissue by six months but 100% normal after 2 year only.
- Primary suture of wound—within six hours.
- Crushed and devitalised wounds. Delayed primary suture in 4 to 6 days after injury.
- Embolectomy is to be done within 10 hours.
- Graft rejection - Inflammation appears by 4th day (first set response). Sloughs appear by 10th day. If again grafted from same donor (second set response) sloughs by 6th day.
- After starting treatment with stilbesterol, for prostatic carcinoma histological changes in 48 hr. Symptoms improve in 2 weeks and prostate smaller in size by 3 to 4 weeks. ;
- In thyrotoxicosis
 - Treatment with carbimazole, symptoms relieved after 7 to 14 days.
 - Treatment with I131 in 8 to 12 weeks, patient becomes asymptomatic.
 - Repeat the dose after 12 weeks if necessary. -1 Antithyroid drugs can be given 48 hr after I¹³¹.
- Postoperative thyroid insufficiency manifests in 2 to 3 days after thyroidectomy.
- Response to iodine in thyrotoxicosis is seen in 24 hours (quickest acting).
- Parathyroid tetany manifests on 2nd or 3rd postoperative day after thyroidectomy.
- Pregnancy is contraindicated for 3 years after operation for breast carcinoma.
- In haemorrhage, physiologically fluid loss is replaced immediately.
- Stored blood for transfusion, platelets live for 3 days.
- RBC are suitable for transfusion for 3 weeks after collection.
- RBC become functional in the body 3 days after transfusion.
- Phenindione and dicumarol start acting after 36—48 hr.
- Prothrombin estimation not valid within 6 hr after heparin.

Paediatric Surgery

- Cleft lip operated at 3 months of age.
- Cleft palate operated at 1½ to 2 years.
- Exomphalos major operated within few hours.
- Surgery for sacrococcygeal teratoma—soon after birth
- Orchiopexy for undescended testes—2 years (essentially before puberty)
- Operation for Hirschsprung's disease—after the child gains 8 kg weight and is well thriving
- Hirschsprung's disease, symptoms appear in 3 days after birth
- Congenital hypertrophic pyloric stenosis—symptoms appear at 3 to 6 weeks of age
- Ectopia vesicae—Diversion of urine best done at 4 to 6 weeks.
- Operation for patent vitellointestinal duct at 6 months of age
- Neonatal tetanus occurs within 5-15 days. Usually around 8th day. So called 8th

dayisease.

- Operation for ASD—first decade
- Operation for PDA—before the child goes to school
- Fallot's tetralogy in infancy—palliative correction
- Posterior fontanelle closes at the age of 4 months.
- Anterior fontanelle closes at the age of 9-18 months,
- Newborn passes urine usually within 24 hours,
- Newborn passes meconium usually within 12 hours,
- Witch's milk appears on 3rd day; disappears in 3 weeks,
- Alpha-fetoprotein disappears in a few weeks after birth.

Neurosurgery

- Reaction of degeneration occurs in 3 weeks after nerve injury.
- Irreversible changes at motor end plates after denervation seen after 18 months.
- Meningitis after head injury develops in 3-5 days.
- Extradural haemorrhage usually presents before 18 hours after injury.
- In head injury, prophylactic anticonvulsants are given for 6 weeks.
- In post-traumatic epilepsy, or after major head injury, antiepileptics are given for 3 years.
- Idiopathic epilepsy is rare before 6 years and after 30 years, h) Spinal concussion—Recovery occurs in 24-48 hours.
- Spinal injury—Mass reflex appears at 3-6 weeks.

Orthopaedics

- Menisci injury heals in 6 weeks.
- X-ray signs in osteomyelitis seen in 2-3 weeks.
- Angular deformities of limbs (genu valgum or varus) and in-toeing spontaneously correct by 6 weeks. If necessary, correction done after 6 weeks
- In-toeing in girls for cosmetic purpose—operation at about 11 years of age.
- Earliest X-ray sign in myositis ossificans is a cloud of new bone by 4-6 weeks after injury

Medicine

- Pulmonary infarction signs detectable in X-ray in 12 hours.
- X-ray positive for pneumonia 12-18 hours after symptoms appear.
- Vitamin C stores last for 2 1/2 to 3 months.
- B12 stores last for 3 years.
- Thiamine stores last for few weeks.
- Drug induced hepatitis occurs within 2 weeks after drug intake.
- Recovery of vision in multiple sclerosis occurs usually 4-6 weeks after attack.
- Post streptococcal glomerulonephritis—1 to 3 weeks after streptococcal infection. Post streptococcal rheumatic fever 2-3 weeks after sore throat,
- After myocardial infarction, leukocytosis peaks on 1st day, fever peaks on 3rd or 4th day
- Dressier's syndrome - few weeks or months after myocardial infarction; recovers in a few days.
- Myocardial infarction surgical repair lesions after 6 weeks.
- Time to reach normal counts in CML with busulphan: 12-18 weeks,
- Idiopathic thrombocytopenic purpura remits in young in 2-3 weeks,
- Rose-Waaler test in rheumatoid arthritis positive after 18 months,
- Reiter's disease—1-3 weeks after sexual intercourse or dysentery.

Gynaecology and Obstetrics

- Myomectomy—6 months after caesarian.
- Time for Huhner's test or Sim's test—2 hours after and within 16 hours of intercourse.
- Fistulas develop 10 days after ureteral ligation or interfering with its blood supply.
- In prolonged labour, the urinary fistulae develop usually on 5th day.
- Forceps etc., instrumentation—the urinary fistulas develop immediately.

Commonest Site of Lesion

- | | |
|---------------------------------|----------------------------------|
| 1) Erysipelas | Face and scrotum |
| 2) Cellulitis | Scrotum and scalp |
| 3) Sebaceous cyst | Scalp, face, scrotum |
| 4) Keloid | Sternum, face, neck |
| 5) Lymphangioma and haemangioma | Tongue, lip |
| 6) Carbuncle | Back, nape of neck and shoulders |
| 7) Implantation dermoid | Hand and finger |

8) Dermoid cyst	External angle of eye
9) Subcutaneous lipoma	Shoulder, back, buttock
10) Perforating ulcer	Under the base of 1st metatarsal
11) Instrumental perforation of oesophagus	Cricopharyngeal area
12) Dercum's disease	Trunk
13) Soft fibroma	Face
14) Gangrene by ergot	Fingers, nose & ear
15) Phlebolith	Pelvic veins
16) Molluscum fibrosum	Neck, trunk & face
17) Sclerosing angioma (dermatofibroma or subepidermal nodular fibrosis)	Limbs
18) Kaposi's sarcoma	Limbs
19) Granuloma pyogenicum	Face, fingers, toes
20) Corn	Toes, feet
21) Callosity Hand	(gardener's hand)
22) Malignant melanoma	Male—trunk, females—leg
23) Hutchinson's melanotic freckle .	Sun exposed area
24) Subungual exostosis	Great toe
25) Hyperpigmentation in Addison's disease	Exposed areas and creases of palms
26) Pregnancy tumour	Gums and tongue
27) Pseudo tumour in hyperparathyroidism	Jaws
28) Erythema multiforme	Extensor surfaces
29) Psoriasis	Knee, elbow, scalp
30) Inverse psoriasis	Body folds (severe itching present)
31) Miliaria	Covered areas
32) Chronic discoid lupus	Face (tack like scales)
33) Tinea versicolor	Trunk
34) Keratoderma blenorrhagicum	Sole of the foot

Commonest Site of Intestinal Lesions

Lesion	Area
1) Lipoma	Caecum
2) Lymphoma (non-Hodgkins)	Stomach
3) Adenomatous polypi	Sigmoid, rectum
4) Polypi in Puetz-Jeghers syndrome	Always jejunum is involved
5) Familial polyposis and Gardner's syndrome	Colon
6) ZES gastrinoma	Pancreas
7) Carcinoma small intestine	Jejunum
8) Carcinoma colon Sigmoid colon & rectosigmoid junction	
9) Tuberculous ulcer	Small intestine (transverse)
10) Typhoid ulcer	Small intestine (longitudinal)
11) Crohn's disease	Starts at or near ileocaecal valve
12) Ulcerative colitis	Starts at rectum
13) Hirschsprung's disease	Usually upper limit is rectosigmoid junction
14) Diverticulosis 90% in	Sigmoid (rectum is never involved)
15) Perforation in typhoid	Small intestine near ileocaecal junction
16) Pneumatosis cystoids	Small intestine
17) Immobile part of colon	Last 7.5 cm of pelvic colon
18) Loop colostomy	Transverse colon
19) Commonest type of intussusception	Ileocaecal intussusception
20) Intussusception in infant	Last 50 cm of ileum
21) Intussusception in old people	Colocolic by papillary carcinoma
22) Intussusception in adolescent	Think of inverted Meckel's diverticulum
23) Volvulus neonatorum	Midgut (whole small intestine & caecum)
24) Volvulus small intestine	Lower ileum
25) Ischaemic colitis	Splenic flexure
26) Dilatation of gut in	Chagas disease Oesophagus & colon
27) Rupture in blast injury	Pelvic colon
28) Amoebiasis	Sigmoid colon

Habitat of Parasites

a) Whip worm (T. trichura)	Caecum, lower ileum, colon & appendix
b) Thread worm (Enterobius)	Develops in small intestine, lives in large intestine
c) Stongyloidosis	Upper small intestine
d) C. mesnili.	Caecum
e) T. tenax	Teeth and gums
f) E. hominis & E. intestinalis	Large intestine

- g) Taenia solium & saginata
- h) Giardia intestinalis
- i) H. nana

- Upper jejunum
- Jejunum
- Distal ileum

Common in Females

- Postcricoid carcinoma
- Carcinoid
- Retroperitoneal lipoma
- Gall stones
- Choledochus cyst (4 times)
- Ca. gall bladder & bile ducts
- Osteoclastoma
- Chromophobe adenoma
- Basophil adenoma
- Meningiomas of spinal cord
- Glossodynia
- Cushing's
- Takayasu disease
- Raynaud's phenomenon
- Subclinoid aneurysms

Common in Males

- Carcinoma oesophagus
- Carcinoma larynx
- Carcinoma colon
- Symptomatic Meckel's diverticulum
- Volvulus sigmoid colon
- Carcinoma stomach, carcinoma pancreas
- Kaposi's sarcoma
- Rhinophyma
- Nasopharyngeal fibroma
- Pilonidal sinus
- Ischiorectal abscess
- Neurofibromas of spinal cord
- Quinsy
- Buerger disease
- Ainhum, (Negroes)
- Carbuncle
- Dupuytren's contracture
- Mastitis of puberty
- Congenital hypertrophic pyloric stenosis (1st born male child)
- Hirschsprung's disease
- Presbyoesophagus (diffuse spasm)

- Ulcerative colitis
- Volvulus caecum
- Redundant colon
- Pneumococcal peritonitis

- Mallory-Weiss syndrome
- Chronic DU
- Egyptian splenomegaly
- Chronic relapsing pancreatitis
- Horse shoe kidney
- Ectopia vesicae
- Renal stones
- Renal TB
- Hallux rigidus
- Perthe's disease
- Prolapse disc
- Slipped femoral epiphysis
- Multiple exostosis
- Shoveller's fracture
- Ankylosing spondylitis (9 times)
- Polyarteritis nodosa
- Aplastic anaemia
- Polycythaemia vera
- CLL
- Multiple myeloma
- Waldenstrom's macroglobulinaemia
- Hairy cell leukaemia
- Non-Hodgkin's lymphoma
- General paralysis of insane
- Tabes dorsalis
- Motor neuron disease
- Coarctation of aorta
- Mycosis fungoides

- Pseudomyxoma peritonei
- Congenital cystic kidney
- Ureterocele
- Urethrocele
- Hallux valgus
- Idiopathic scoliosis
- Polymyositis (3 times)
- Scleroderma (3 times)
- Rh. arthritis (3 times)
- SLE (9 times)
- Sjorgrens's (9 times)
- Myasthenia
- Senile osteoporosis
- Trigeminal neuralgia
- Pernicious anaemia
- ASD, PDA Mitral valve prolapse

Alternative Names

1) Corn	Grain
2) Boil	Furuncle
3) Stye	Hordeolum
4) Sebaceous cyst	Wen
5) Keratoacanthoma	Molluscum sebaceum
6) Sclerosing angioma	Dermatofibroma or subepidermal nodular fibrosis
7) Malherbe's epithelioma	Benign calcifying epithelioma
8) Port wine stain	Naevus flammeus

9) Salmon patch	Stork bites
10) Basal cell carcinoma	Rodent ulcer
11) Turban tumour	Cylindroma
12) Buerger's disease	Thromboangitis obliterans
13) Acrocyanosis	Cancrum puellarum frigidum
14) Bedsores	Decubitus ulcers
15) Terminal pulp space infection	Felon
16) Osteogenesis imperfecta	Brittle bones
17) Osteopetrosis	Marble bones (Albers-Schonberg disease)
18) Melorheostosis	Candle bone (Leri's disease)
19) Osteopoikilosis	Spotted bones
20) Osteopathia striata	Striped bones
21) Progressive diaphyseal dysplasia	Englemann's disease
22) Nail-Patella syndrome	Osteo-onychodysplasia
23) Morquio-Brailford disease	Chondro-osteodystrophy
24) Hurler's syndrome	Gargoylism
25) Tibia vara	Blount's disease
26) Cleido-cranial dysostosis	Anosteoplasia
27) Multiple chondromatosis	Oilier's disease (dyschondroplasia)
28) Multiple exostosis	Diaphyseal aclasis
29) Tuberous sclerosis	Epiloia
30) Alaxia telangiectasia	Louis-Barr syndrome
31) Wilson's disease	Hepatolenticular degeneration
32) Tay-Sachs disease	Amaurotic family idiocy
33) Abeta liporproteinaemia	Acanthocytosis or Bassen-Kornweig syndrome
34) Shock lung	Adult respiratory distress syndrome
35) Adolescent coxa vara	Slipped epiphysis
36) Paget's disease	Osteitis deformans
37) Torticollis	Wry neck
38) Urticaria	Hives
39) Takayasu disease	Pulseless disease
40) Adolescent kyphosis	Scheurmann's disease
41) Kawasaki disease	Mucocutaneous lymph node syndrome
42) Riley- Dey syndrome	Familial dysautonomia

Lining Epithelium

- | | |
|---|--|
| 1) Umbilical adenoma (raspberry tumour) | Columnar epithelium rich in goblet cells |
| 2) Branchial cyst | Squamous epithelium |
| 3) Branchial fistula | Ciliated columnar epithelium |
| 4) Cystic hygroma | Endothelium with mosaic appearance |
| 5) Sebaceous cyst | Superficial squamous cells |
| 6) Dermoid cyst | Squamous epithelium |
| 7) Choledochus cyst | Lining epithelium absent |
| 8) False cyst of spleen | No lining, contains blood stained fluid and cholesterol crystals |
| 9) Pseudopolyposis | Epithelial thickening |
| 10) Pulsion diverticulum | Fibrous tissue, can cause contracture of bladder neck |
| 11) Ranula | Macrophages |
| 12) Uterus | Ciliated columnar epithelium |
| 13) Cervix | Columnar epithelium |
| 14) Ovary | Serous epithelium with peritoneum |
| 15) Vagina | Stratified squamous epithelium |
| 16) Amnion Outer layer | Mesodermal connective tissue |
| Inner layer | Ectoderm |
| 17) Chorion Outer layer | Trophoblast |
| Inner layer | Primary mesenchyme |
| 18) Pseudomucinous cyst ovary | Amniotic ectoderm |
| 19) Papillary cyst of ovary | High columnar epithelium |
| 20) Serous cyst of ovary | Ciliated columnar epithelium |
| 21) Mouth, pharynx except nasopharynx | Stratified squamous epithelium |
| 22) Tonsils | Stratified squamous epithelium |
| 23) Larynx (except vocal cords) | Ciliated columnar epithelium |
| 24) Vocal cords | Stratified squamous epithelium |
| 25) PNS nose, trachea | Stratified columnar ciliated epithelium |

26) Nasal polyp

Ciliated epithelium

Signs

- | | |
|--|--|
| 1) Balance's sign
side | In rupture spleen, shifting dullness is present on right |
| 2) Kehr sign | Irritation of dome of diaphragm produces shoulder pain |
| 3) Battle's sign | In posterior cranial fossa fracture, behind foramen
magnum, ecchymosis appears at tip of mastoid in 3-4
days |
| 4) Cullen's sign
Grey-Turner sign
AC. | Blue hue around umbilicus
Ecchymosis in loin in intraperitoneal haemorrhage &
Haemorrhagic pancreatitis |
| 5) Sign de-Dance
intussusception | Sense of emptiness in right iliac fossa in |
| 6) Homan's sign
tibial | Tenderness elicited indirectly by forcible dorsiflexion of
foot with extended knee (due to stretching of post-
vein) |
| 7) Moses sign
tenderness
(thrombophlebitis of leg) | Squeezing calf muscles from side to side elicits |
| 8) Acute appendicitis | |
| i) Rovsing's sign | Pressure in left iliac fossa causes pain in Rt. iliac fossa |
| ii) Cooper's sign | Tenderness is best elicited in left lateral position |
| 9) Murphy's sign | Catch of breath in inspiration |
| 10) Moynihan's sign | In acute cholecystitis |
| 11) Boas sign
in cholecystitis | Hyperaesthesia below 9th rib, posteriorly on right side |
| 12) Troisier's sign | Enlarged supraclavicular lymph node in Ca. stomach |
| 13) Blumberg's sign | Rebound tenderness |
| 14) Mathe's sign
in
perinephric | Normally in erect posture, kidney is at lower level than
lying down posture. No change is seen in
abscess |
| 15) Marion's sign | Seen in benign prostatic enlargement |
| 16) Victor Horsely's sign | Temperature 1-2 deg higher on paralysed side |
| 17) Step sign
dislocation | In spondylolisthesis and also in acromioclavicular |
| 18) Tent sign
like a tent | In ovarian cyst, the vaginal fornix on that side is deep |
| 19) Verumontan sign
prostate | In complete rupture of urethra, P/R shows floating |
| 20) Milian's ear sign
they do not | In erysipelas, vesicles extend into ear; in cellulitis, |
| 21) Hook sign | In tenosynovitis, flexion of fingers produces severe pain |
| 22) Tinel's sign
from distal end to proximal end induces | Percussion along the course of a regenerating nerve
tingling sensation |
| 23) Kanavel's sign
ulnar bursitis | Tenderness in between transverse palmar creases in |
| 24) Vascular sign of Narath
Scarpa's triangle | In anterior dislocation of hip, femorals are felt easily in |
| 25) Nicoladoni's or Branham sign
rate | In AV aneurysm, proximal compression decreases pulse |
| 26) Chvostek's sign
tetany | Tapping the side of facial nerve elicits spasm in latent |
| 27) Trousseau's sign
pressure in the cuff around the arm | Eliciting carpal spasm in latent tetany by raising the |
| 28) Corrigan's sign | Prominent carotid pulsations |
| i) De-Musset's | Nodding of head with each systole |
| ii) Hill's sign
brachial and femoral arteries | Exaggeration of systolic pressure difference between |
| iii) Duroziez's sign
compression All these are seen in aortic | Systolic & diastolic murmurs over femoral arteries on
regurgitation |
| 29) Von Grafe's sign | Upper eyelids lag behind when looking downwards |

- i) Moebius sign Converging of eyes is difficult
 ii) Stellwag's sign Infrequent blinking of eyelids and upper lids appear retracted
 All these are seen in thyrotoxicosis
- 30) Sunset sign Seen in hydrocephalus
 31) Macewen's sign Cracked pot resonance in hydrocephalus
 32) Tripod sign Seen in poliomyelitis
 33) Rope sign Acute angulation between chin and larynx due to weakness of hyoid muscles
 34) Kernig sign Brudzinski's sign Seen in meningitis
 35) Flag sign Seen in kwashiorker
 36) Ball sign Collapsed spine on X-ray in intrauterine death
 37) Robert's sign Air in major vessels on X-ray in intrauterine death
 38) Ewart's sign Bronchial breath sounds and aegophony in a patient with pericardial effusion
 39) Alder's sign Presence of fixed abdominal tenderness even on turning the patient to the sides (in ruptured ectopic gestation)

Hernias (H)

1) Littre's hernia	Meckel's diverticulum is the content
2) Richter's hernia	Partial circumference of bowel is the content (usually complicates femoral H.)
3) Maydle's hernia	W shaped hernia; inner loop strangulates
4) Laugier's femoral H.	'Hernia through gap in lacunar lig (Gimbernaut's lig.). Nearly always hernia is strangulated
5) Narath's femoral H.	Seen in CDH due to lateral displacement of psoas. Contents lie behind blood vessels
6) Cloquet's femoral H.	.Sac lies under the fascia covering pectineus
7) SpigelianH.	Interparietal H. through superficial fascia usually at arcuate line
8) Rolling hernia	Is a paraoesophageal hernia. It is a hiatus hernia
9) Sacless hernia	H. through pleuroperitoneal canal (a diaphragmatic hernia)
10) Neckless hernias	(i) Incisional hernia, (ii) Direct inguinal hernia
11) Constricting ring in inguinal hernia	In adult, neck, In children, external abdominal ring
12) Constricting ring in femoral hernia	Gimbernaut's ligament
13) Loculated hernia	Large para umbilical hernia
14) Hernia common in females	(i) Obturator hernia, (ii) Femoral hernia, (iii) Para umbilical hernia
15) Hernia common in right side	(i) Femoral hernia, (ii) Inguinal hernia up to 10 yr
16) Obturator hernia	Patient comes with strangulation of Richter type of hernia
17) Strangulation common with	Femoral hernia
18) Nearly always bilocular hernia is	Intermuscular hernia
19) Prolapse rectum is a type of	H. englissade
20) Direct inguinal H. which may strangulate	Prevesical H

21) H. commonly associated with incompletely descended testes - inguinoperitoneal (interparietal type) H

22) Sliding H. common on left side—Almost exclusively in males

Tumours (T)

1) Desmoid tumour	A kind of fibroma which arises from deeper parts of rectus sheath
2) Pancoast tumour	Bronchogenic carcinoma at the apex of lung
3) Schneeberg cancer	Carcinoma lung induced by radioactive substance
4) Phantom tumour	Collection of fluid in horizontal fissure of lung appears as coin lesion in X-ray
5) Brown tumour	Osteitis fibrosa cystica (hyperparathyroidism)
6) Cock's peculiar tumour	Ulcerated multiple sebaceous cysts of scalp
7) Pott's puffy tumour	Oedema of scalp in osteomyelitis of cranial bones
8) Giant cell tumour	Osteoclastoma

9) Grawitz's tumour	Hypernephroma (adults)
10) Wilms tumour	Nephroblastoma (children)
11) Cherry tumour	Juvenile, polyps of colon
a) Potato tumour, or	Carotid body tumour
b) Berry tumour, or	
c) Hutchinson's tumour	
12) Bunn shaped tumour	Solid carcinoma of bladder
13) Pregnancy tumour	Hypertrophied gum in pregnancy
14) Ubiquitous tumour	Lipoma or universal tumour
15) Burkitt tumour	A type of non-Hodgkin's lymphoma
16) Krukenberg tumour	Atypical secondaries of ovaries
17) Raspberry tumour	Umbilical adenoma

Ulcers (U)

1) Mortarell's U. seen	In hypertensive patients
2) Marjolin's ulcer	Malignant ulcer on the scar of burns
3) Barrets ulcer	Ulcer in oesophagus at the junction of squamous and columnar epithelium
4) Hunner's ulcer	Interstitial cystitis peculiar to women
5) Elusive ulcer	Hot ulcer in A-V fistula
6) Chickleros ulcer	Caused by Leishmania mexicana
7) Flask shaped ulcer	Seen in amoebiasis
8) Bottle neck shaped U.	Intestinal amoebiasis
9) Punched out ulcer on fauces	In herpangina
10) Bazin's ulcer	Indolent ulcers over the calves of adolescent female
11) Trophic ulcer	Are neurogenic ulcers
12) Snail track ulcer on mucosa	Syphilis
13) Meleney's ulcer	Due to symbiotic action of micro-aerophilic beta-haemolytic streptococci and haemolytic Staphylococcus aureus

Lymph Nodes

1) Lymph node of Lund	Sentinel lymph node—Cystic lymph node draining lymphatics of gallbladder
2) Poirier's gland	Lymph node where uterine artery crosses ureter
3) Cloquet's gland	Present in femoral canal
4) Delfian node	Pretracheal lymph node
5) Tonsillar lymph n.	Jugulodigastric lymph node
6) Stahr's gland	(has to be removed in Ca.tongue during surgery) where mandible is crossed by facial artery
7) Lymph node of Gerota	Pararectal lymph node

Usual Complications

1) Carcinoma tongue	Inhalation bronchopneumonia
2) Carcinoma penis	Erosion of femoral blood vessels (common cause of death)
3) Kyphoscoliosis & ankylosing spondylitis	Respiratory complications
4) Polycystic kidney.	Infection
5) Paraplegia	Renal failure (60% of deaths)
6) Malignant diverticulum	Haemorrhage from rectum, intussusception, diverticulitis
7) Small intestinal tumour	Intussusception, intestinal bleeding
8) Ulcerative colitis	Haemorrhage; anaemia
9) Enterogenous cyst	Recurrent impaction of food
10) Acute pancreatitis	Pseudocyst formation
11) Retroperitoneal lipoma	Myxomatous degeneration; sarcomatous changes

' ** Serious drawback of truncal vagotomy is diarrhoea (6-30%)

Nerves Injured in Surgery

a)	Sub-mandibular gland	Lingual nerve
b)	Parotid gland	Facial nerve
c)	Branchial cyst	Hypoglossal & accessory N
d)	Cervical lymph node dissection	i) Spinal accessory ii) Mandibular branch of facial iii) Hypoglossal nerves

**Disease of Organs
Head and Neck****LIPS**

Diseases	Common Site
a) Syphilis chancre b) Short frenum c) Ectopic salivary tumour	Upper lip
d) Carcinoma e) Mucus sinus f) Bichelis (prolapse of the mucous membrane of lip)	Lower lip

TEETH & GUMS**Diseases**

- a) Absent
 - i) Impaction
 - ii) Lingual burst
 - iii) Dentigerous cyst
- b) Relations to maxillary antrum
- c) Hyperplastic gingivitis
- d) Ludwig's hernia
- e) Parotid duct opens opposite to
- f) No relation to antrum

Tooth commonly involved

- 3rd molar & upper 2nd incisor
- Lower 3rd molar
- Upper lateral incisor
- Upper 3rd molar, lower 3rd molar
- 2nd premolar, 1st & 2nd molar
- Upper incisor—labial aspect
- Impacted 3rd molar often is the cause
- Upper 2nd molar
- Incisors

TONGUE**Diseases**

- a) Hutchison's wart
- b) Carcinoma
- c) Tuberculosis
- d) Gumma
- e) Snail-track ulcers
- f) Median rhomboid glossitis
- g) Lingual thyroid

Commonest site

- Midline
- Anterior 2/3rd of lateral margin
- Tip, margins & dorsum
- Midline dorsum
- Sides & undersurface
- Just anterior to the foramen caecum
- Ant. to foramen caecum
- i) Congenital fissures are horizontal
- ii) Syphilitic fissures are longitudinal
- iii) Unilateral enlargement is seen in neurofibroma and haemangioma
- iv) Bilateral enlargements - Lymphangiomas

SALIVARY GLANDS

Diseases	Causative Organisms
a) Parotitis	Mumps virus, coxsackie virus
b) Postoperative parotitis	Staphylococci
c) Metastatic abscess of parotid	Staphylococci
d) Parotitis after duct obstruction	Streptococci viridans and pneumococci

NECK

a) Branchial cyst	Upper 1/3rd of neck along sternomastoid
b) Branchial fistula	Lower 1/3rd of neck along sternomastoid
c) Sternomastoid tumour	Middle 1/3rd of neck along sternomastoid
d) Cystic hygroma	Lower 1/3rd of posterior triangle
e) Superficial cellulitis above hyoid	Dangerous as laryngeal oedema may develop
f) Deep cellulitis in lower third	Not dangerous

BREAST

Lesion	Characteristic finding
a) Duct ectasis	Worm like swelling

b) Mondor's disease	Vas deferens like consistency attached to skin
c) Fibroadenosis	Saucer like edge, cut section India rubber consistency
d) Pericanalicular fibroadenoma	'Breast mouse'
e) Scirrhus carcinoma	Cut section—unripe pear, grates while cutting
f) Tuberculosis breast	Multiple fistulae, abscesses present, blue attenuated
g) Sarcoma	skin
	Pale friable consistency on cut section

ABDOMEN

Pain in the abdomen.

- Leucocyte count is normal in tuberculosis of abdomen.
- Leucocytosis of more than 30,000 with 90% polymorphs is indicative of pneumococcal peritonitis.
- In non-specific lymphadenitis, total WBC count is 10,000 to 20,000 on the first day
- Pain that keeps the patient awake—Reflux oesophagitis and carcinoma pancreas
- Pain that wakes patient around 2 am—Duodenal ulcer
- Pain that wakes patient in early morning—Appendicitis
- Diarrhoea preceding pain abdomen is seen in—Crohn's disease

STOMACH and DUODENUM

Type of cells	Seen in	Secrete
a) Parietal or oxyntic cells	Body of stomach	Hydrochloric acid and intrinsic factor
b) 'G'cells	Antrum	Gastrin
c) Columnar cells :	Throughout	Mucus
d) Chief cells	Proximal part of gastric crypts	Pepsinogen

1) Peptic ulcer	Along lesser curvature
2) Menetrier's disease	Antrum spared
3) Gastric pacemaker	Fundus
4) Duodenal pacemaker	Immediately distal to pylorus
5) Carcinoma	Prepylorus
6) Carcinoma in pernicious anaemia	Usually fundus; polypoid in nature
7) Localised linitis plastica	Pyloric antrum
8) Leiomyosarcoma	Gastric acidity normal
9) Carcinoma stomach	Gastric acidity decreased; in 18% achlorhydria
10) Adenoma and polyp	Achlorhydria is seen
11) Adenomatous polyp	Distal half of stomach

Urology

BLADDER TUMOURS

a) Least common	Angioma
b) Most common	Transitional cell carcinoma
c) Bilharziasis: patient is prone to	Squamous cell carcinoma
d) In ectopia vesicae and in cystitis cystica: patient is prone to	Adenocarcinoma

URETHRA and PENIS

Disease

- Narrowest part of urethra
- Carcinoma in females
- Caruncle
- Prolapse
- Polypi
- Papilloma acuminata
- Priapism
- Rupture
- * Common in females

Site of lesion

- External urinary meatus (Normal)
 External urinary meatus—posterior wall
 External urinary meatus—posterior wall
 Fossa navicularis
 Verumontanum
 Coronal sulcus (commonest benign tumour)
 Glands, spongiosum not involved
 Bulbous urethra
 (i) Carcinoma, (ii) Diverticulum, (iii) Prolapse

COMMONEST SOURCES and CAUSES

- Prostatitis
etc.
 - Tuberculosis bladder
 - Tuberculosis kidney
 - Pulsion diverticulum bladder
- Haematogenous spread from furunculosis, tonsillitis
 Secondary to renal tuberculosis
 Blood borne
 Bladder neck contracture

- | | |
|------------------------------|---|
| e) Carbuncle kidney | Cutaneous lesion |
| f) Pyonephrosis | Secondary to renal calculus |
| g) Bladder stones | Secondary: Urea splitting organisms—proteus and staphylococci |
| h) Unilateral hydronephrosis | Obstruction at pelvi-ureteral junction (PUJ) |
| i) Retention of urine | Males—prostate, Females—retroverted gravid uterus |
| j) Torsion testes | Inversion of testis |
| k) Urethral fistula | Bursting of periurethral abscess |
| l) Hydrocele | Defective absorption |
| m) Cyst of epididymis | Degeneration of organ of Giralde (paradydimis) |
| n) Epididymitis | Spread from vas |
| o) For DIC | Septicaemia with Gram-negative bacilli |

Malignancies

Premalignancies etc. (The following conditions may predispose to malignancy)

- | | |
|---------------------------------|---|
| a) LGV | k) Crohn's disease |
| b) Secondary syphilis in tongue | l) Familial polyposis |
| c) Granuloma inguinale | m) Villous adenoma |
| d) Tropical ulcer | n) 5% of diverticuli of urinary bladder |
| e) Chronic ulcer | o) Bilharziasis bladder |
| f) Leukoplakia | p) Long standing penile papilloma |
| g) Bowen's disease | q) Chronic balanoposthitis |
| h) Erythroplasia of Queyrat | r) Plummer-Vinson syndrome |
| i) Scar especially of burns | s) Papilloma larynx |
| j) Ulcerative colitis | |

Malignant Tumours

Site	Commonest pathologic type
1) Countryman's lip Oral cavity Tongue, Oesophagus Anal canal Skin PNS Ear—auricle External auditory meatus Middle ear and mastoid Vulva, Vagina, Cervix	Squamous cell carcinoma
2) Gallbladder Pancreas Breast	Scirrhus
3) Mesentery	Primary lymphosarcoma
4) Spleen	Primary fibrosarcoma
5) Testes	Seminoma
6) Ovary	Papillary cystadenocarcinoma
7) Small intestine	Carcinoid tumour
8) Heart	Sarcoma
9) Liver	Hepatocarcinoma
10) Bladder	Transitional cell carcinoma
11) Pelvis & kidney	Transitional papillary tumour
12) Urethra	Transitional cell carcinoma
13) Colon	Adenocarcinoma
14) Grawitz tumour of kidney	Adenocarcinoma

Site	Commonest Clinical Type
Tongue	Fungating & ulcerating growth
Stomach	Ulcerating growth
Colon left sided mass	Stenosing growth
Colon right sided mass	Cauliflower type growth
Rectum	Ulcerating growth
Penis	Flat or infiltrating ulcer and papilliferous growth
Glottis	Papillary variety
Vagina	Cauliflower growth

Site	Commonest Tumour
a) Duodenum	Adenoma
b) Spleen	Cavernous haemangioma, lymphangioma
c) Mediastinum as a whole	Neuroblastoma
d) Posterior mediastinum	Neurogenic tumours
e) Anterior mediastinum	Teratoma
f) Larynx	Papilloma
g) Heart-	Myxoma

Treatments of Malignancy Treatment initially by radiation

- | | |
|---|-----------------------|
| a) Carcinoma cheek | h) Carcinoma breast |
| b) Carcinoma tongue (more than 2 cm size) | 1) Carcinoma penis |
| c) Carcinoma oropharynx | j) Hodgkin's lymphoma |
| d) Carcinoma oesophagus—SCC | k) Burkitt's lymphoma |
| e) Postcricoid carcinoma | 1) Ewing's sarcoma |
| f) Carcinoma cervix | m) Osteogenic sarcoma |
| g) Grape-like sarcoma of vagina | n) Carcinoma bladder |

Treatment initially by surgery

- a) Squamous cell carcinoma skin
- b) Basal cell carcinoma
- c) Malignant melanoma
- d) Intracranial tumours
- e) Pituitary tumours except basophil tumours
- f) Carcinoma thyroid
- g) Carcinoma stomach
- h) Carcinoma of pancreas, colon, rectum, anal canal, kidneys
- i) Small carcinoma tongue
- j) Salivary gland tumours
- k) Carcinoma pyriform fossa

- 1) Supraglottic carcinoma
- m) Transglottic carcinoma
- n) Carcinoma vulva
- o) Late carcinoma vagina
- p) Carcinoma of testes and ovary
- q) Osteoclastoma

Metastasis

Secondaries	Primary Commonest In
a) Cervical lymph nodes	Buccal cavity
b) Cerebral	Lung
c) Liver	GIT
d) Ovary (atypical)	Colloid carcinoma of stomach
e) Spine	Breast or prostate
f) Bones	Prostate, or breast
g) Ribs	Lung or breast
h) Oesophagus	Lung

	Primaries	Secondaries Commonest In
a)	Prostate	Pelvic bones, lumbar vertebrae
b)	Breast	Lumbar vertebrae
c)	Kidney (Wilms tumour, hypernephroma)	Lungs along veins
d)	Testes—Seminoma	Aortic lymph nodes
	Teratoma	Lungs
e)	Rectum	Liver
f)	GIT	Liver
g)	Choriocarcinoma	Lungs

Miscellaneous

URINE EXAMINATION

- a) Three glass urine test
 - i) 1 st Glass is hazy and 2nd is clear —urethritis
 - ii) 1 st Glass is clear and 2nd is cloudy —diverticulitis
 - iii) If the second glass is cloudier —cystitis
 - iv) If the first glass contains threads —Prostatitis
- b) A few drops of blood at the beginning indicate ulcer.
- c) A few drops of bright red blood at the end of micturition indicate vesical calculus.
- d) A few drops of blood stained urine or blood-stained debris at the end of micturition indicate cystitis.
- e) Painless, profuse, paroxysmal haematuria will be uniform, intermittent and painless.
- f) A drop of blood at the beginning or end of micturition indicates BPH.
- g) Urethral discharge is rare in prostatitis.
- h) Haemospermia is seen in tuberculous prostatitis and chronic seminal vesiculitis

APPEARANCE OF STOOLS

- | | |
|-----------------------------|--|
| a) Tooth paste like stools | Hirschsprung's disease |
| b) Lead paint or silvery or | Periampullary carcinoma aluminium stools |
| c) Red currant jelly stools | Intussusception |
| d) Pipe stem stools | Stricture of rectum |
| e) Pellet like stools | Irritable bowel syndrome |
| f) Rabbit stools | Cong, hypertrophic pyloric stenosis |
| g) Pea soup diarrhoea | Typhoid |

BIOPSY

- a) Incisional biopsy is contraindicated in salivary gland tumours except in minor salivary gland tumours.
- b) Excisional biopsy is done in solitary nodule of thyroid and parotid gland tumours.
- c) Excisional biopsy is never done in disease of tongue and penis.

VOMITINGS

- a) Continuous pouring out of saliva indicates oesophageal atresia.
- b) Effortless, blood stained vomiting or small amounts starting soon after birth indicates hiatus hernia.
- c) Non-bile-stained vomitus with peak incidence at 3-6 weeks after birth indicates congenital hypertrophic pyloric stenosis.
- d) Vomiting from birth often bile stained—duodenal atresia.
- e) The transduodenal band of Ladd compresses duodenum, resulting in a condition similar to duodenal stenosis.

GALLBLADDER

- a) White bile - Not white, opalescent secretion by bile duct with distal obstruction contains mucus, cholesterol and traces or none of bile salts.
- b) Limey bile - Due to gradual obstruction of common bile duct. E.g., chronic pancreatitis, carcinoma pancreas. Gallbladder clearly visible in plain X-ray.
- c) Mucocele - Obstruction of neck of sterile gallbladder by single stone

d) Pyocele or empyema: Sterile pus in inflamed obstructed gallbladder

VASCULAR NEOPLASMS

- a) Salmon pink patch Stork bites
- b) Portwine stain Persists (capillary haemangioma)
- c) Strawberry Commonest type
- haemangioma or Grows to certain age, usually disappears by 7 years
- nevous vasculosus Treatment—masterly inactivity

BURNS—FLUID REQUIREMENTS

- a) Fluids are required:
 - in adults if more than 15% is involved
 - in children if more than 10% is involved
- b) In children with burns 5% to 10% watch the patient
- c) Nasogastric tube is required if more than 35% burns
- d) Blood is required if deep burns 10-25% in 2nd ration, 25-50% in 2nd, 6th rations

MISCELLANEOUS

- a) Phlegmasia alba dolens Deep femoral vein thrombosis + lymphangitis
- b) Phlegmasia coerulea dolens Extensive thrombosis of pelvic and iliac veins
- c) Carcinoma of larynx Glottic 70%
- d) Site for free flaps Groin, scalp, dorsum foot, deltopectoral area
- e) Maximum pressure in Communicating veins lower limb veins
- f) Site of fracture in Vertebra Cushing's syndrome
- g) Tabes dorsalis involves lower thoracic and lumbar spinal cord.
- h) Bilateral congenital dislocation of hip should not be corrected after 4 yr. If unilateral, should not be corrected after 7 yr.
- i) Abscess bursts on to labial side (normally).
- j) Commonest cause of metabolic acidosis—vigorous exercise and lactic acid production
- k) Commonest cause of metabolic alkalosis—excess vomiting
- l) Commonest site of carcinoid tumour is appendix,
- m) Cervix-like feeling is seen in intussusception and acute oedema of gottis.
- n) Voracious appetite with loss of weight is seen in:
 - i) Thyrotoxicosis
 - ii) Pheochromocytoma
 - iii) Congenital hypertrophic pyloric stenosis
 - iv) Cystic fibrosis
 - v) Diabetes mellitus

Miscellaneous

1) Frog hand	In deep palmar abscess
2) 'Frog face'	Nasopharyngeal carcinoma
3) Countryman's lip	Carcinoma of lip
4) Telephonist's ear (Singapore ear)	External otitis
5) Glue ear	Seromucinous otitis media
6) Thimble bladder	Contracted tuberculous bladder
7) Putty or cement kidney	Caseous TB kidney
8) Mossy foot	Chromoblastomycosis
9) Madura foot	Mycetoma foot
10) Trench foot	In frost bite
11) Hourglass stomach	Cicatricial contraction of ulcer on lesser curvature
12) Tea pot or handbag stomach	Scarring of long standing gastric ulcer
13) Leather bottle stomach	Linitisplastica
14) Trigger finger	Stenosingtenovaginitis of flexor tendons of thumb and fingers
15) Mallet finger or baseball finger	Rupture of extensor tendon just above its insertion

	into terminal finger
16) Dequervain's d.	Stenosing tenovaginitis of common sheath of abductor pollicis longus & extensor pollicis brevis
17) Tennis elbow	Tendinitis at lateral epicondyle of humerus
18) Golfer's elbow	Tendinitis at medial epicondyle of humerus
19) Student's or miner's elbow	Olecranon bursitis
20) Footballer's ankle	Traumatic arthritis of ankle
21) Housemaid's knee	Prepatellar bursitis
22) Clergyman's knee	Subpatellar bursitis
23) Weaver's bottom	Ischial bursitis
24) Porter's shoulder	Bursa between skin and clavicle
25) Winter heel	Post calcaneal bursitis
26) Policeman's heel	Inflammation of fibrofatty tissue of heel
27) Gardener's hand	Callosity

Renal Stones

	OXALATE	PHOSPHATE	URATE	CYSTINE
Formed in	Acid urine	Alkaline urine	Acid urine	Acid urine
Shape	Mulberry (envelope crystals)	Stag horn	Faceted	Hexagonal crystals
Number	Single	Single	Multiple	Multiple
Haematuria	Early	Late	—	—
Radiopaque	Yes	Yes due to big size	By impurities	Due to sulphur

Gall Stones

	CHOLESTEROL	PIGMENT	MIXED
Number	Single	Multiple	Multiple
Frequency	6% to 8%	12%	80% commonest
Shape	—	Coral or mulberry	Faceted laminated
Formed in	Stasis bladder	—	In infection

*Cholesterol is the main component of gall stones

Needles and Instruments

a) Seldinger needle	Arteriography
b) Chiba needle	PTC
c) Menghini needle	Liver biopsy
d) Abraham needle	Pleural biopsy
e) Gabriel syringe	Sclerosant inj. for piles
f) Desjardins forceps	Removal of gall stones form CBD
g) Savage's decompressor	Intestinal obstruction
Incisions	
a) Kocher's incision	Gall bladder surgery, subcostal
b) Collar incision	Thyroidectomy
c) Sistrunk incision	Parotid
d) Me Evedy incision	Femoral hernia
e) Lanz	Appendix
f) Pfannenstiel	Uterus
g) Grid iron	Appendix
h) Rutherford Morrison	Appendix
