

EQUIPMENT (for various departments in the College and Hospitals).

A. NON CLINICAL DEPARTMENTS

1. DEPARTMENT OF ANATOMY

NAME OF THE ARTICLE

Table with marble for stainless steel tops 6' 1" x 2' x 3'

Tables with marble top or stainless steel,
Half standard size.

Drill machine

Hand saw

Band saw for sectioning body and limbs

Stools, preferably metal

Brain knife

Mortuary cooler with arrangement to keep
at least 8 bodies or suitable alternative arrangement.

Storage tank to hold 10 cadavers, made of
concrete with copper lid.

Plastic tanks for storing soft and dissected parts.

Trolley Table (Steel, Light).

Projectors including overhead projectors

X-ray Viewing lobby.

Charts, Diagrams, Models, Slides etc.

Dissecting instruments

Meat cutting machine for thin body sections
(trans and vertical) for gross anatomy sectional study

NAME OF THE ARTICLE

(a) APPARATUS AND INSTRUMENTS FOR HISTOLOGY

Microscopes, Monocular
Dissection microscope
Microtomes, rotary
Microtomes, Sledge, large cutting
Cabinet for slides (1000)
Incubators
Paraffin embedding bath
Hot plates for flattening sections
Hot air cover for drying slides (45⁰C)
Balance Analytical capacity 200 grms.
and Sensitivity 1/10 mg.
Balance Earanger capacity 6 kilos Sensitivity, 1/5 gram
Refrigerators
Distilled water still menesty type capacity gallon per hour
Diamond pencils
7 colour marking pencils

Anatomy Museum

Skeletons articulated
ones (Dis-articulated) sets
Specimen jars
Racks steel
Embalming machines for cadavers
Computer for keeping student records, marks, stores etc,

2. DEPARTMENT OF PHYSIOLOGY

NAME OF THE ARTICLE

Electric time makers, 100/sec.
Tuning fork, time marker, 100/sec.
Electrodes, X-blocks, burette clamps,
enamel bowls brass uprights, with
coarse and fine adjustments basin,
spirit lamps, cooper wire (double
cotton covered) Kymograph paper etc.

(b) MAMMALIAN EXPERIMENTS

Large extension kymographs-Brodie-
Starling complete with respiration
pump, motor time marker
manometer etc.
Operation table
Volume recorders
Dale's bath for internal organ
Isolated Organs. Bath for students

complete with liver etc.
Animal Weighing Machine, for
small and big animals (for each)
Mary's Tambour
Venus and arterial canula (different sizes) (each)
Smoking outfit, with fume cupboard
Varnishing outfit, for long and short papers
Anaesthesia boxes.
Surgical instruments for operative
procedures, syringes, pulleys, etc.

(c) HUMAN AND OTHER EXPERIMENTS:

Microscopes, Oil immersion
Demonstrations eye piece
Double Demonstration eye piece
Stage incubator
Wastergen's Pipettes for E.S.R.
on Stand (with space pipettes)
Perimeter Priestly Smith S/LP.984 B & T
Haemoglobinometer, Sahil or hellige (with spaces)
Haemocytometers
Sphygmomanometer
Stethoscopes
Stethoscopes, Demonstration with
Multiple ear pieces
Polygraphs
Venus Pressure apparatus
Spirometer, Ordinary
Gas analysis apparatus, Haldane's students type
Van Slyko's apparatus manometric

Gas analyzer – automatic for CO², O², N²
Douglas bag, complete
Basal metabolism apparatus
Erogograph Mosse's
Clinical thermometer
Compass
Thermanaesthesiometer
Algometer
Apparatus for passive movement
Knee hammer
Stethograph
Bicycle ergometer
Olfactometer
Ophthalmoscope
Schematic eye
Phakoscope
Perimeters, with charts
Colour perception lantern Edridge Green
Maddox rod
Newtons colour wheel
Tuning forks to test hearing 32-10,000 cps (sets)
Dynamometer
Otorhinolaryngoscope
Steriliser Electric
Instrument trolley
Stop watches

(d) GENERAL

Physiograph, 3 channels, complete with accessories
Physiograph, single channel, with accessories
Centrifuge, high speed with technometer etc.
Calorimeter, photo-electric
pH meter, electric
Refrigerator, 9-10c ft.
Oxygen Cylinder with trolley
Co cylinder with trolley
Electronic stimulator
Water distillation still, with spare heating elements
All glass distillation apparatus double stage
Voltage stabilizer
Stepdown transformers
Thermometers, balances, microslides and glassware

3. DEPARTMENT OF BIOCHEMISTRY

Fume cupboards
Boiling Water baths, with lids having 8-12 Holes
Autoclave electric

Balance open pan
Balance semi micro
Balance micro
Vortex mixers
Urinometers
Constant temperature water bath
Ryles tube
Incubator electric with thermostat
Hot air oven
Magnetic stirrer
Pump vacuum
Calorimeters
Refrigerators
Flame Photometer
Thermometers 0-250⁰C
Thermometers 0-110⁰C
Cork borer set
Stop watch
Spirit lamp
Chromatographic chamber
Water distillation plant (metallic)
All glass distillation apparatus
Desiccators large size
Desiccators small size
Centrifuge clinical for 12 tubes
PH meters
Homogeniser
Microscopes
Ultra Violet (U.V.) lamp
Tools for small workshop for glass
blowing and mending
Bottle dispensers
Samplers (autopipettes) different
volume range
Electrophoresis apparatus with
power supply for Paper PAGE AGAROSE
Spectrophotometer
Binocular research microscopes
Glass ware as required by standard
lab. Like pipettes, beakers and conical flasks, etc.

4. DEPARTMENT OF PATHOLOGY

(b) Morbid Histology and Morbid Anatomy Sections

Weighing machine for cadavers
Rotary Microtomes
Freezing Microtome with a stand for
carbondioxide cylinder
Hot plates
Hot air (50 degree Celsius) for special staining
@ Paraffin embedding bath (Ordinary)

@ Electric vacuum embedding baths
@ if Histo Kinetite is not available.
Autoclave electric
Distilled water still
Water bath 57 degree Celsius
Rectangular water bath
Centrifuge machine electric Rotofix
Colorimeter Photoelectric Klett.
Cabinet for 1000 slides
Band saw
Autopsy tables
Automatic tissue processor,
Histokinmettee or similar, complete.
Staining racks for staining in bulk
Troughs for staining in bulk
Coplin jars
Water bath electric (Tissue Flootation
Balance, Chemical with weights
Balance, chemical with weights
Microscopes, Monocular, with double
nose piece, High power objective
2 eye-pieces, mechanical stage and condensor
Oil immersion lens for above
Polarising attachments for microscopes
Micrometers, ocular
Demonstration eye pieces
Magnifying lens
Blood pressure instrument
Micrometer stage
Hot plat electric
Laboratory Counter nine keys clay Adams
Laboratory stirrer
Automatic timer
Balance for weighing organs
Saws, wire for cutting bones
Slide boxes for 100 slides for students
Drill for boring glass
Blow piece with bellows for bending glass
Microphotographic apparatus
X-ray viewing box
Double Demonstration Eye piece

Microprojection apparatus
Sternal puncture needle child size
Liver Biopsy needle
Box weight analytical
Stop watch reading at 1/5 second.
Ultraviolet lamp.
pH Meter electric.
Microscope, Binocular, research.
Paper Electrophoresis apparatus vertical
Paper electrophoresis apparatus, horizontal
Water still electric
2 x 2 slide Projector.
Overhead projector
Museum jars.
Drawing instruments and colours for photo artist
Surgical instruments.
Dark room lamp, developing troughs
Chemicals etc. for photo artist
Glassware, stains, chemicals reagents
etc. for Histological work.

Clinical Laboratory:

Microscope high power with oil
immersion lens moveable stage
and condensor for the routine
microscope work.
Bottles Sp. Gravity 25 cc
Micro burretes 5 cc
PH meter, with ultra micro blood PH
electrodes and Electrical
Contrifuge One higher power
contrifuge for serological works,
one for haematological work and one other
Incubator
Haemacytometers with red and white pipettes
Haemoglobinometers, Sahili'type
Sedimentation apparatus-one wester green and
one wintrobole
Syringes disposable one set from 10 cc
to 2cc
Staining jars for slides.
Urinometers
Albuminometers, esbachs & Aufrech's type
Urine Gasset (Conical)
Water baths with lids and holes thereon for
holding test tubes etc.
Centrifuge tubes graduated
Crusible with china ltd.
Crusible Gooch with adapter

Graduated cylinders for various capacities ranging from 100 cc to 1000 cc.
Pipettes of various sizes, graduated sets
Reagent bottles.
Dropping bottles 4 ounce
Reagents
Balances-(1) Sensitive balance
(2) Chemical balance with weight boxes

5. DEPARTMENT OF MICROBIOLOGY

Incubators, electrical (large)
37 degree Celsius
Autoclave
Hot air steriliser
Arnolds steriliser
Serum inspissators
Balance, Chemical
Lovibond comparators
Flasks flat bottom 50 cc.
Microscope oil-immersion moveable stage Abbe, condenser etc.
Microscope, dark ground work with arc lamp arrangement etc.
Refrigerators
Micrometer eye pieces
Micrometer stage
Centrifuge, electrical high power
Refrigerated centrifuge
Distilled water plant
Distilled water plant all glass
Oil immersion lens for students microscope.
Dropping bottles for stains (Plastic)
Staining troughs
Anaerobic apparatus
Electrophoresis complete set
B.O.D. incubator
Laminar flow table
Ultra Violet (U.V.) Lamps
Venereal Diseases Research Laboratory (V.D.R.L.) shaker
Computer unit
Overhead Projector
Water bath (Serological) 37 degree Celsius
Water bath (Serological) 56 degree Celsius
Deep freeze (-20 degree Celsius)
Elisa Reader, dispenser and washer
Binocular microscope

Culture facilities

Thermometers (Assorted)
Glassware, such as pipettes burettes,
beakers, conical flasks, petri dishes
of different sizes, reagent bottles etc.
for preparation of media
Stains
PH Determination apparatus
Reagent bottles with stopper 2000 cc
1000 cc
500 cc
250 cc
100 cc
50 cc
Test tubers hard glass 150 mm x 18 mm
100 mm x 12 mm
75 mm x 12 mm

6. DEPARTMENT OF PHARMACOLOGY

EXPERIMENTAL PHARMACOLOGY

Starling's long extension kymographs with time markers.
The ideal Respiration Pump (500 cc. CAP.)
Brodi's operation tables
Incubators
Refrigerators
Assembly perfusion apparatus for mammalian heart
Standard power tables
Assembly for mammalian classes
Automatic electric recording drums
Mechanical Stromhur
Gadum's out-flow recorder
Centrifuge.
Colorimeters
Canulas (different types)
Cautery machine, electric Blendstone
Varnishing Tray with foot lever
Four Unit isolated organ bath palmer F.67
Analgesiometer
Smoking Burners Palmer A-291 and A-265

Tracheal Canula Metal Palmer E.76
Condons Drop Recorder – Palmer B-75
Prof.Inchleys Drop Recorder-Palmer B.78

Animal weighing:

- a) Machine for small animals like rats and guinea pig
- b) Machine for big animals like dogs

Dissection instruments and injection syringes
(The experimental physiology laboratory
can be used if available for the students)

- * Kymograph (students) Electric independent unit
- * Electric Motor $\frac{1}{4}$ with split pulleys
- * Shafting steel rod $\frac{3}{4}$ " diameter and 18" long
- * Standard Shafting and fittings
- * Pulleys

Muffs coupling for joining 2 pieces
of the above mentioned shafting steel rods
** Not required in case of independent units.*

X-blocks

Hook grip rods

Plain stand

Apparatus for isolated rabbit intestine etc.

Jacquets graphic chronometer

Frog Boards Palmer c. 120

Jackson's Enterograph

Hair Aesthesiometer-Palmer W.290

Long Extension for paper palmer A-130

Animal Balance Tripple Beam

Manometers mercury Palmer C-200

Metronome Palmer B-5

Oncometer Kidney

Oncometer Heart

Copper Trays (10"x8"x1")

Thermometer (upto 110 degree Celsius)

Distillation apparatus

Microscopes ordinary

Working tables with racks each table 36' long

Chemical Balance-ordinary Apothecary's

Chemical Balance-Sensitive

Dissection instrument

Plethysmograph assorted

Pneumograph Palmer E

Piston Recorder Palmer C.51

Tambours mareys Palmer C.5 & C.11

Tetanus Set Palmer H2O

Stop Watches Jacquets

Oxygen Cylinders with Trolleys 20 cu.ft

Carbon-di-oxide cylinder

Operating lamps-Phillips
Animal trolley with 12 cages

Miscellaneous:

Electrodes, Ordinary and non
polarisable, insulated wires,
time markers, electric signals,
Mercury manometer, perfusion
apparatus, myograph lever, small
pulley's upright stands and chemicals etc.

(c) Pharmacy Laboratory:

Dispensing Balance with metric system weights
Pill Tiles
Suppository moulds
Porcelain dishes
Crucibles with tongs
Pestle and Mortar
Iron Spatula
Measure glass all sizes
Water bath, metal

Miscellaneous:

Chemicals, drugs, glass rods, funnels and filter

(d) SPECIAL CHEMICALS AND PHARMACOLOGICAL EQUIPMENT

Stimulator Electronic Arthus Thomas
Balance Semi micro Analytical Pan Mottler
Electrocardiograph
Spectrophotometer Model Du-Backman
(UV Visible range)
Skin and Rectal Thermometer Barun
Antihistamine Chamber with manometer
Flame photometer
Stop clock
Water bath 4 hole electrically heated
Bell jars Assorted
Petri dishes assorted
Museum drugs specimen jars
All glass distillation apparatus cap.2 litres
Centrifuge Electric international R.P.M. 3000
Microscope students type with mechanical
stage and oil immersion
Microscope lamps
Magnetic stirrer B.T.L.
Autoclave electric
Waring Blender M.S.E.

Hot air oven size 14"x14"x14"
Incubator Electric Size 14"x14"x14"
Vacuum & Pressure Pump Cenco
Instruments Sterilliser Electric size 12" x 8"x6"
B.P. Apparatus
Distilled water still Manesty Electrical Cap.
2 gallon per hour
Stethoscope
Multimeter
Temperature controlled water bath 37 °C
Razor Hone
Electric Hot Plate

Deionizer-two of capacity 20 litres per hour and
6 litres per hour (mixed bed type) connected in series

Physiographs with Transducers and other relevant
accessories (may substitute kymographs)

Vortex mixer
Actophotometer
Rotarod Assembly
Electro-Convulsimeter
Cook's Pole Climbing Apparatus
Metabolic Cages (Diuretic Study)
Digital pH meter
Tablet Disintegration Machine Glass tubing (length of 6 ft.)
Glass tubing (length of 6 ft.)
Glass rods-assorted sizes of 6 ft.
Glass mortar & pestles
capacity of 500 and 200 cc
Cork borer set of 12
Holder for platinum wireloop
Lancet spring (disposable)
Lamp for microscope
Magnifying glass with metal handle
Metal mincing machine
Postmortem instruments sets complete
Suction pumps
Filtering apparatus sietz filter and Millipore filter
Dessicators
Vacuum Desicators
Apron plastic for postmortem
Apron rubber for postmortem
* Lyophilizer
* Thermal Cyclor
* U.V. Transilluminator with photography
* Colony counter
* Cold room + 4 degree Celsius
* BACTEC system

- * Phase contrast Microscope
- *Vortex mixer
- * Electronic Balance
- * Microfuge
- * Ultra centrifuge
- * Flourescent Microscope
- * Desirable additional equipment in the department of Microbiology.

7. DEPARTMENT OF FORENSIC MEDICINE

Weighing machine, dial type human
 Equipment for reporting height
 Balance chemical
 Balance, single pair for weighing foetus
 Weighing machine for Weighing dead bodies
 Weighing machine for organs
 Folding metal scale to measure upto 7 ft.
 Steel tape roll
 Warnier calipers
 Autopsy table
 Styker autopsy saw, with accessories
 Hacksaw
 Dissection sets, consisting of cartilage knife bone
 cutting forceps scissors, straight and curved
 Enterotome Scaples, knives with spare blades, probe
 metal scale graduated in cms. Etc.
 Rib. Shears, right and left
 Viscerotome with attachment for illumination
 (Battery operated)
 SLR camera with accessories
 Microscope student type
 Microscope Binocular, research
 Stopwatch
 X'ray view box one in four
 View Box Two in one
 B.P. Apparatus
 Anthropometric set
 Automatic tissue processing machine
 Microtome with knife
 Hot plates
 L.Modes
 Leather Strops
 Parafin Bath Embedding
 Slide Warming Table
 Stone Carbarandon
 Water bath (Tissue Flowing)
 Distilation plant
 Brain knife
 Black Holder
 Digital Spectrometer

Digital PH meter
Electric Auto slide projector
Glass cutting Pencil
Hand Set heat Sealer
Spectroscope Lens with adjustable slit
Refrigerator
Cold Storage for keeping dead bodies
Deep freezer for keeping tissues
Video Camera, Television and Video Cassette Recorder

8. DEPARTMENT OF COMMUNITY MEDICINE

Comparator, Nessler
Barometer, Fotin
Extraction Apoparatus, fat, complete
Filter, Pasteur chamberland, complete set
Filter, berke fed
Hydrometres, Spirit
Hydrometres, milk
Hydrometers, wet and dry BULB
Incubator, electric
Museum jars
Models, charts, diagrams etc.
Balance Analytical 200 gm
Balance for weighing food stuff Capacity 2 Kg.
Centrifuge clinical
Weighing machine adult
Salters Baby weighing machine
Harpenders Callipers (for skinfold thickness)
Height measuring stand
Aqua guard
Refrigerator 9 cu.ft.
Ice Lined Refrigerator (I.L.R.)
Dissecting microscope
Microscope oil immersion
T.F., V.C.R.
Still for distilled water
Autoclave
Sterilizers, electric
Computer
Over Head Projector

The following equipments for various clinical departments are however the minimum required.

9. DEPARTMENT OF MEDICINE

B.P. Apparatus
Ophthalmoscope
Lumbar puncture needles (disposable)
Haemocytometer
Light Microscope
Haemoglobinometer
Centrifuge Machine
Urinometer
Plural biopsy needs (disposable)
Liver biopsy needs (disposable)
Kidney Biopsy needs (disposable)
X-ray viewing box
Overhead projector
Slide Projector
Upper GI endoscope
Colonoscope
Sigmoidoscope
Proctoscope
Facilities for doing tests for malabsorption
Ultra sound machine
Fiberoptic bronchoscope
Spirometer
Bed side Cardiac monitors
Central Cardiac monitor Console
Defibrillator
Non-invasive B.P.Apparatus
Pulse oxymeter
Equipment for ardiac pacing
Ambu bag
Laryngoscope
ECG Machine
Echocardiography machine
Tread Mill test machine
Haemodialysis machine

Peritoneal dialysis catheters
Arterial blood gas analyzer
Na/K analyzer
Equipment for measuring diffusion capacity
Microprocessor based spectrometer
Gamma cameras
Glucometer
Radiotope scan laboratory
Electro Encephalogram (EEG) machine
EMC and nerve conduction velocity machine
Fine needle aspiration needle
Aspiration needle
Torches
Patient examination table
Rubber Hammer
Reagents for doing Gram's and Ziehl Neilsen staining
Computer (one for each medical unit)
Radiopagers
Endotracheal tubes
Emergency lights

10. DEPARTMENT OF PAEDIATRICS

(A) Resuscitation equipments:

Ambu bag
-infant
-children
Face mask
Nasal prongs
Nasal catheters
Endotracheal tubes
Suction apparatus
Suction catheters
Laryngoscope
- Infant
- Children

(B) Oxygen Delivery System-
Oxygen Cylinder
Oxygen regulator
Oxygen Humidifiers
Oxygen headbox (of each size)
Nebulisers

(C) Drug Deliver Equipment/ Catheter/tube-
Intra-venous (I.V.) Drip set
Measured volume
Blood transfusion set
Intra-venous (I.V.) Canula (Butterfly type)
Intracath

Umbilical vein
Catheter
Feeding tubes
Three way and four way valve
Malecot's catheter
Cut open canula

(D) Measurement Equipments

Weighing machine
- Infant
-Child
- Neonates
Infantometer
Measuring tape
Shakir's tape

(E) Work lab and investigations

Student Microscope
Nuclear Chamber
Hemoglobinometer
Test tube
Spirit lamp
Stains for – Leishman's staining
- AFB staining
-Grams staining
Dextrostix
Multisix
Uristix
Micro Erythrocyte Sedimentation Rate (ESR) tubes
Filter paper
Bone marrow needle
Lumber Puncture (L.P.) Needles
Pleural aspiration needle
Vim-Silveram
Biopsy needle
Mengneiz Needle
True cut Renal
Biopsy needle
X-ray view box

F) Miscellaneous

Radiant Warmer
Infant incubator
Phototherapy unit
Ophthalmoscope
Thermometer-Oral
-Rectal

11. DEPARTMENT OF TUBERCULOSIS AND CHEST DISEASES

Peak flow meters
Nebulizers
Intercostals Drainage Facility
Pleural Biopsy Needles
Pulse Oximeter
Fiberoptic Bronchoscope
Rigid Bronchoscope
Pulmonary function Test machine with facility for
spirometry, lung volume and diffusion capacity
Arterial Blood Gas machine

12. DEPARTMENT OF DERMATOLOGY-VENEREOLOGY AND LEPROSY

Facilities for examining smears for bacteria, fungi, mycobacteria and acantholytic cells
(a) light microscope with facility for dark ground illumination microscopy
(b) Gram's stain
(c) Zeihl-Neelsen's stain
(d) Giemsa stain
Facilities for electrosurgery and chemosurgery
(a) Electro-cautery machine
(b) Trichloroacetic acid

13. DEPARTMENT OF PSYCHIATRY

Electro Convulsive Therapy (E.C.T.)
machine preferably with ECG monitoring
E.E.G. monitoring
EEG machine
Lithium analyzer
Biofeed-back instruments (sets)
Thin layer chromatography
(for drug dependence treatment)
Alcohol breath analyzer
Psychological Tests equipment
a) Project tests
b) Intelligence Tests
c) Personality Tests
d) Neuro psychological tests

14. DEPARTMENT OF SURGERY

(i) O.P.D
Blood Pressure Apparatus, Stethoscope, diagnostic
kit, weighing machine, skinfold caliper, eight scale.
X-ray viewing box 4 in 1
Proctoscope & Gabriel Syringe
Sigmoidoscope (Rigid)

Flexible Endoscope, Upper GI,
Colonscope (one set in Main O.T.)
Diagnostic Crystoscope
Ultrasound
Uroflowmetry

(ii) **MINOR O.T.**

Operation Theatre Table
Operation Theatre Ceiling light
Pedestal lights
Electro-surgical unit
Suction
Pulse oximeter (one for Endoscopy Room)
Anaesthesia Equipment
Resuscitation kit
Assorted surgical instrument for minor operation sets
Autoclave

WARDS

B.P. Apparatus, Stethoscope, diagnostic kit
(4 sets in each ward)
Weighing machine, height scale, skinfold Caliper
(2 each in each ward)
Proctoscope (2 in each ward)
Monitors for pulse rate, Heart Rate, E.C.G.,
Invasive and non-invasive pressure (2 in each ward)
Incubators/Transport incubators
Neonatal Bassinet
Ultrasound
Arterial blood analyzer
Oesophageal/Gastric pH & pressure recorder

(iii) **OPERATION THEATRE**

Operating tables
Operating Ceiling light
Paedestal side light (for emergency use)
Electrosurgical Unit
General Sets (8 for each Operation Theatre)
Burr hole set
Vascular set (1 in each O.T.)
Anaesthesia Equipment as per requirement of
Anaesthesia department Diagnostic and operative
Laparoscope
Crystoscope and Resectoscope
Bronchoscope
Flexible G.I. Endoscope
Laser (May be shared with other departments)
C-arm image intensifier

Operating microscope-binocular with Video monitor
Operative ultrasound
Stapling device Assorted
Endo-stapler
Closed Circuit T.V.

(iv) MISCELLANEOUS

Photocopier
Computer with laser Printer
Electronic Typewriters
Slide-Projector
Overhead projector
Video Cassett Recorder/video Cassette Player

15. DEPARTMENT OF PAEDIATRIC SURGERY

Resuscitation equipment
-Ambubags
-ET Tubes (all sizes 2.5-8)
-Guedell's airway (all sizes)
-Laryngoscope
Suction Catheters (sets) assorted sizes
Suction machines
Oxygen cylinders Oxygen
B.P.Apparatus
Slow suction machine
Nebulizer
Heater
I.C.U. equipment incubator sets
Operation Theatre equipment
Cystoscope-Paediatics
Rigid Bronchoscope (sets)
Oesophageal dilators (sets)
Paediatics Sigmoidoscope

16. DEPARTMENT OF ORTHOPAEDICS

Basic instrumentation set for fracture.
Small Fragment and large fragment
External Fixator
C-Arm (Image Intensifier)
Portable X-ray Machine
Arthroscope
Slide Projector
Over-head projector
Movie Camera for demonstration of live operations
Plaster room equipment (sets) with plastic table.
Physiotherapy and occupational Therapy equipment sets
Operation room equipment (sets)

17. DEPARTMENT OF OPHTHALMOLOGY

(i) O.P.D.

Snellen Chart/Snellen drum
with or without remote control
Trial set with trail frame both for adult and children
Bjerrum Screen
Perimeter
Colour vision chart
Near vision chart with different language
3 Cell torch
Ophthalmoscope and Retinoscope

Common equipments in the OPD

Slit lamp
Applanation tonometer
Keratometer
Indirect Ophthalmoscope
Synoptomphore
Maddox Rod
Maddox Wing
Diplopia goggles
Gonioscope
Placido disc
Prism Bar
Schoutz tonometer

(ii) MAJOR OPERATION THEATRE

Operating microscope with TV Unit with camera
Crye Unit
Cataract set
Glaucoma set
DCTR set
Entropian set
Enucleation set
Evisceration set
Squint set

(iii) GENERAL OPHTHALMIC EQUIPMENTS

Operation Theatre Table
Operation Theatre Light

(iv) Minor Operation Theatre: Minor O.T. should have the equipment for the removal of the foreign body, sutures, and chalazion or sty.

(v) Ward

Slit lamp
*snellen chart/snellen drum with or without remote control
Trial set with trial frame both for adult and children

Bjerrum screen
Perimeter
Colour vision chart
Near vision chart with different language
3 Cell torch
Ophthalmoscope and Retinoscope

18. DEPARTMENT OF ENT

(i) OPD (per doctor)

Nasal Speculum
Tongue depressor
Laryngeal mirrors
Nasopharyngeal mirrors
Aural speculum
Ear Suction
Nasal Suction
Suction apparatus
Siegles speculum
Tuning fork (512 Hz)
Otoscope
Bayonet forces
Bulls lamp
Head lamp
ENT examination chair
Jobson Horne probe
Sterilizer
BP apparatus
Stethoscope

(ii) MAJOR Operation Theatre.

(a) Tonsillectomy and adenoidectomy set Biopod

Boyle-Davis mouth gag
Tonsil holding forceps
Tonsil dissector and pillar retractor
Tonsil snare
Burkit artery forceps
Negus artery forceps
Tonsil scissors
Adenotome
Adenoid curette
Yankauer oropharyngeal suction tip

(b) Set for nasal bone fracture Asch forceps
Walsham forceps

(c) Septoplasty set

Bayonet forceps
Killians nasal speculum

Freer elevator
Ballenger's swivel knife
Takahashi forceps
Fish tail gouge and mallet

(d) Caldwell luc set
Nasal gouge
Mallet
Ribbon Retractor
Cheek Retractor

(e) Antrostomy set
Antral
Retrograde gouge
Antral rasp
(f) *FESS set

*Rigid nasal endoscope
*Light source
*Sickle knife
*Retrograde punch
*Blakesley forceps – straight
- upturn
* Optional for MBBS.

g) Direct laryngoscopy set
Anterior commissure
Laryngoscope
Negus laryngoscope
Lighting system for laryngoscopes
Biopsy forceps
Foreign body removal forceps
Laryngeal suction

(h) *Microlaryngoscopy set
*Kleinsasser's laryngoscope
*Fiberoptic lighting system
*Suspension system for Laryngoscope
*Microlaryngeal cup forceps
* Microlaryngeal Scissors

i) *Tympanoplasty set
*Aural speculum
*Drum curette
*Drum elevator
*Microsuction
*Graft knife
*Graft press

(j) *Mastoidectomy set

* Mallet

*Gouge

*Endaural retractor/post aural retractor

*Electric drill (motor, handpiece and burrs)

*Mastoid seeker

*Aditus seeker

* Malleus head nipper

(k) *Stapedctomy set

*Pick-straight

Angled

*Perforator

*Measuring rod

*Prosthesis crimper

(l) *Oesophagoscopy set

Oesophoscopes

Lighting

Biopsy forceps

Foreign body removal forceps

Suction

Oesophageal dilators

(m) * Bronchoscopy set

*Bronchoscopes

*Lighting system

* Biopsy forceps

* Foreign body removal forceps

*Suction

* Optional for MBBS

(n) Tracheostomy set

Needle holder

Bard Parker knife handle

Ribbon right angled retractors

Curved arteries

Straight arteries

Cricoid hook

Tracheal dilator

(iii) MINOR Operation Theatre

(a) Antral wash set

Trocar

Canula

Higginsons syringe

(b) Direct laryngoscope set

Laryngoscope – Anterior

Commissure

Negus

Lighting system
Biopsy forceps
Foreign body removal forceps
Sterilizer
Aural Syringe
Tracheostomy set
Intubation set
Cricothyrotomy set
Quinsy forceps
Aural Snare
Aural cup forceps

(iv) *WARDS

* Semi intensive care unit (4 beds)
* Central suction
* Oxygen
* Humidifier
* Optional for MBBS

(v) MISCELLANEOUS EQUIPMENTS

Operating microscope for major Operation Theatre
For minor Operation Theatre
Puretone audiometer
Impedance audiometer

SPECIAL EQUIPMENT

(a) * Temporal bone lab Microscope
(b) * Drill
Mastoid set
*Optional for MBBS

(vi) ANY OTHER ADDITIONAL EQUIPMENT WHICH ARE DESIRABLE

Flexible nasopharyngolaryngoscope
Electronystagmograph
Brainstem evoked response audiometer
Goggles, plastic apron, gloves for examination of patients with biohazard (HIV and Au positive)

19. DEPARTMENT OF OBSTETRICS AND GYNAECOLOGY

(i) General

Speculums and retractors
EA + ECC sets
PCT forceps
Ayers spatula
Cytology bottle
Microscope
MR Syringes
Coloposcope

Cryo/electro cautery apparatus
Simple fetal Doppler
NST machine
Stitch removal sets
Dressing sets
Ultrasound machine
Proctoscope
Weighing machine
Height scale
View box
(Blood Pressure apparatus, measuring tapes,
gloves, syringes, needles, torch)
Resuscitation tray
(Laryngoscope, ET tube, ambu bag,
suction catheter, essential drugs).
Suction machine
Hysterosalpingogram Canula

(ii) MAIN Operation Theatre

Abdominal Hysterectomy set
(Alters, scissors, Scalpel, Allis's Kelly's clamp,
badcock forceps, thumb forceps, Harington &
Richardson retractors.)
Vaginal Hysterectomy set
(Scalpel, scissors, metal catheter, Sim's, Speculum
volsellum, Kelly's clamps, right angle retractor,
arteries, Allis, uterine sound, bladder sound).
Tuboplasty set
Myomectomy instruments
(Myoma screw, Boney's clamp)
Diagnostic laparoscopy set
Operating laparoscopy set
Hysteroscopy set
Electronic Carbondioxide insufflator/
Insufflator basic unit
Resctoscope
Hyseromat
Operatin microscope/Loupe
Electrocautery

iii) SPECIAL EQUIPMENT

Contact microhystroscope
Co2 & Nd Yag laser

(iv) LABOUR ROOM

Delivery sets
B.P. Apparatus
Weighing machine
Fetal Doppler

Cardiotocogram machine
Portable ultrasound
High suction machine
Resuscitation tray

v)SPECIAL EQUIPMENT

Oxytocin infusion pumps
Multichannel monitors
Intrauterine Pressure monitoring system
*Fetal scalp electrodes Facilities for fetal scalp pH

(vi)TEACHING SET

Doll and Dummy
Female Pelvis
Gross specimens
X-ray/US films
View box
VCR
Overhead Projector
Slide Projector
Set of instruments/forceps etc.

(vii) Miscellaneous.

Camera with 200 m lens Endocamera/Television,
TTL flash light, Carbondioxide Monitor, Calculator
Channelizer, *Disposables, to be issued on monthly basis.

(viii) MINOR Operation Theatre.

Cervical biopsy set
MTP set
D&C set
Hydrotubation set
IUCD insertion/removal set
High suction machine
Resuscitation tray
E.B. set
(O.T. lights, OT tables)

(ix) MATERNITY O.T.

Set for LSCS
D&C set
MTP set
High suction machine
Cervical exploration set
Uterine packing forceps
Abdominal hysterectomy set
Diagnostic laparoscopy set
Laprocator for tubal ligation
Postputum ligation

Outlet forceps
Low mid cavity forceps/kjielland forceps
Vacuum Extractor and suction machine
Resuscitation tray
Decapitation hook
Cranioclast with cephalotribe
Oldham Perforator
Infusion Pump
EB set
Operation Theatre table, Operation Theatre lights, Central Oxygen and suction

(x) SPECIAL EQUIPMENT:

Multichannel monitor with ECG, BP, HR,
Pulse oxymetry for high risk pregnant patients
(eclampsia, heart diseases etc.)

(xi) WARDS

Blood Pressure Apparatus
Weighing machine
Height scale
Speculum and retractors
Glucometer
Microscope
Suture removal sets
Dressing sets
Ultrasound
Cutdown sets
Blood gas analyzer
CTG machine
Suction machine
Resuscitation tray
View box

(xii) SPECIAL EQUIPMENT

Ultrasound machine with Doppler/Vaginal probe/
Facilities for Interventional procedure
Multichannel Monitor
Fetal Monitor for
Antepartum Surveillance
Computer for data entry
(Gloves, Syringes, needles, torch, measuring tape etc.)

(xiii) Laboratory equipment for following investigations:

H-gram
Urine examination
Semen analyses
Renal Function Test (RFT), Liver Function Test (LFT), including Serum Blutamase Test (SBT),
Electrolytes, Blood sugar
Culture facilities

24 hr. urine alb. Creatinine
VDRL, TORCH
HIV
Serum, BHCG, estriol, MSAFP
Semen wash
FSH, LH PROCLACTIN, T3, T4,
TSH, Testosterone, DHEAS
Chlamydia and other reproductive tract infection testing.
GENETIC LAB.-Cytology, Chromosome study, PCR for various
Abnormalities. Facilities for biochemical tests
And enzyme studies for prenatal diagnosis.
Blood gas analyzer
Thalassemia study.
ABO and Rh typing.
PCR for tuberculosis.
Viral markers for Hepatitic studies.
Coagulation profile, fibrinogen degradation products,
Blood bank facilities.
Cryopreservation.
Assisted reproductive techniques.

20. DEPARTMENT OF ANAESTHESIOLOGY

OPD-Anaesthesia Clinic

Blood Pressure Instrument (Non-invasive)

Weighing machine

Height scale

Ward (Recovery)

Resuscitation equipments (CPR)

a) Adult Dummy

b) Paediatric dummy

c) Artificial breathing

Bag with face Masks.

d) Defibrillator

Suction machine

-Electrical

-Manual

Oxygen therapy unit

Pulse oximeter

E.C.G. Monitor

E.T.Co2 Monitor

Simple anaesthesia machine with resuscitation
equipments and accessories

Mechanical Ventilator

21. DEPARTMENT OF RADIO-DIAGNOSIS

Conventional X-ray Unit for routine X-ray and IVV.

Mobile X-ray units-

a) 30 MA

b) 60 MA

Fluoroscopic unit

Both conventional and image intensifying unit
for gastro-enterology & gynae work etc.

Ultrasonography equipment

CT

Mammography (preferably) MRI (preferably)

OPTIONAL DEPARTMENTS

22. DEPARTMENT OF RADIO-THERAPY

Examination Table

ENT examination set up

Gynae./pelvic examination tables

Treatment planning and mould room including

i) Computerised treatment planning system

ii) Simulator

iii) Immobilization cast making system

Brachytherapy setup

i) Manual afterloading intercavitary system (sets)

ii) Manual afterloading

Interstitial/surface mould system (sets)

Teletherapy set-up

Isocentrically mounted

Rotational telecobalt

Unit minimum 80 cm SSD

Radiation Protection and Dosimetry set-up

i) Secondary standard dosimeter with ionization chamber

ii) Survey meter

iii) Area/Zone monitors

(by BARC)

As per the number of staff members in the department

Radiotherapy department

i) Dual Photon energy linear accelerator with
electrons and multileaf collimator

ii) Remote controlled intracavitary system.

iii) Remote controlled interstitial system

iv) CT-Sim 3D treatment

Planning system

v) Isodose plotte (Automatic)

vi) Customised shielding

Block making system

- vii) Customised compensator making system
- viii) Computerised Dosimetry system
- ix) Thermoluminescent dosimetry system
- x) Intra operative Radiotherapy and stereotactic radiotherapy set up along with linear accelerator (multi leaf)

23. DEPARTMENT OF PHYSICAL MEDICINE AND REHABILITATION

1. Rehabilitation Diagnosis and treatment equipments including exercise set-ups.
2. Remedial and recreational set up.
3. Electrotherapy equipments.
4. Prosthetic-Orthotic Workshop equipments.

C. OTHER DEPARTMENTS

1) MEDICAL EDUCATION UNIT

Overhead Projectors
 Slide Projector
 Computer with printer:
 Electronic Typewriter:
 Video Camera:
 Video Cassette Recorder:
 Television
 Blackboard
 Xerox Copier
 Books and Journals

(2) DEPARTMENT OF AUDIO VISUAL AIDS

ARTIST SECTION

Drawing Board size 42"x27"
 Drawing Board size 22" x 30"
 Instrument Box steadler
 Plastic Transparent Set square 10"
 Plastic Scale transparent 18:
 Parallel ruler 18"
 Proportional Compass.
 Bowpen "Stanley" one for fine and one for thick line.
 "T" scale 24" wooden
 "T" scale 48" wooden
 Frenat curves Plastic 1 set of 12
 Protractor Plastic Semiround 6" dia.
 Kent paper size 22"x30"
 Solor drawing paper 22"x30"
 Drawing paper Norway 72 lbs.
 Water colour tubes "Winsor and Newton"

Postercolours in different shades.
Reeves Indian Black ink.
Water colour box "peliken" Sable Hari brushes 16
Series No. 00 to 6 and 10
Speed ball nibs style A.B.C. &D.
Crequil Nibs
Drawing Nibs 303 and 304
Clip holders.
Computer facilities

(3) MODELLING SECTIONS AND PHOTOGRAPHY

Modeling Instrument box.
Saw for wood work.
Ben saw iron.
Jamboor
Plier
Plier Goldsmith.
Scissors ordinary
Scissors Goldsmith
Hammer
Mortar Iron.
Buck et Iron.
Chisel.
Tagari Iron
E.I. Bowls.
Drill machine
Modelling clay
Chalk clay.
Multani clay.
Yellow clay.
Soft stone powder.
Plaster of paris
Old raddy
Gum.
Stand paper
Plasticine.
Wires G.I. copper and wire netting.
Synthetic Enamel colours 1/16 gallon
Oil colour brushes.
Soap and coconut oil
Epidiascope B & L or alatis.
Radiant Screen size. 72" x 72"
16 mm. Film projector bell and Howell
Camera Rollieflex automatic.
Camera 35 mm. Contax 4/D with copying attachment.
Microscopic attachment of Contax.
Micro Projectr Zeiss or B&L.
Enlarger Omega D 2.
Dark room and developing equipment