

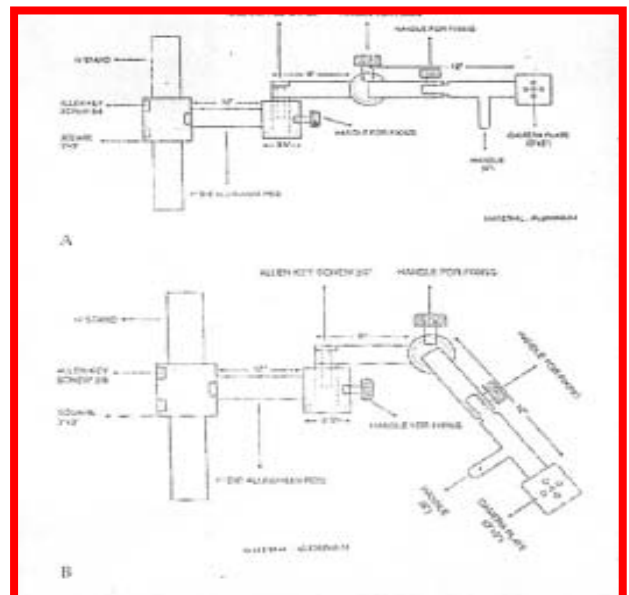
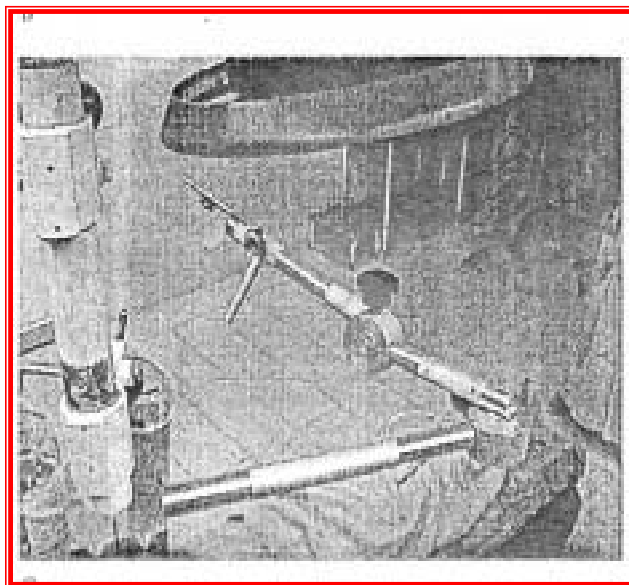
Innovations

Some of the items fabricated by Central Workshop on demand and as per the specifications provided by the departments of AIIMS are given below:

Camera Mounting Arm:-

It can be installed in any Operation Theatre. It does not obstruct the surgical field because it provides four joints of mobility; it can be placed in any part of the operating field without interfering with the vision or function of the surgical team.

The Camera Arm is not commercially available. It was made in our Institutional Workshop by assembling the parts. It is inexpensive to make and can be reproduced from the diagram (fig.1) and can be custom-made for and individual surgeon's needs.



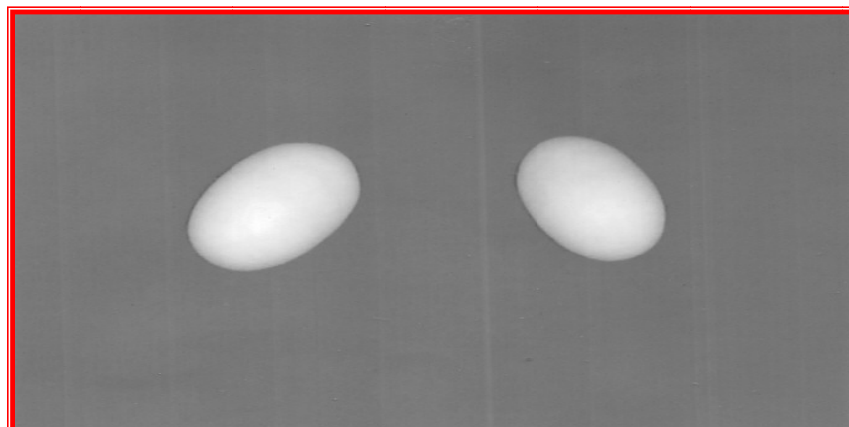
Connector for Bronchoscopes:-

This was made for the Department of Medicine in December 2003. With this connector we are able to attach the video camera to all the Fiber Optic Bronchoscopes of different companies. This has greatly helped in doing video Bronchoscope and thereby makes easier to teach an individual.



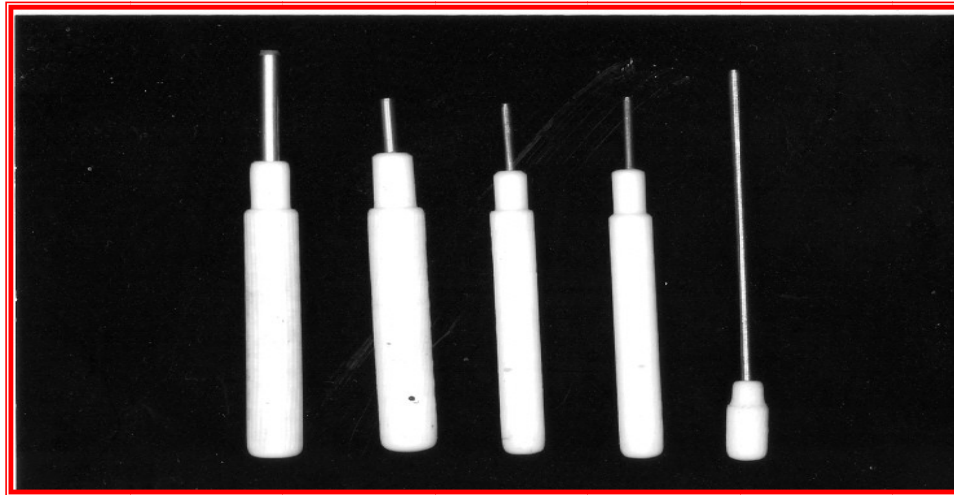
Testicle Balls:-

Testicle balls, which are used by the Department of Pediatric Surgery, have also been developed by AIIMS.



Biopsy Punches:-

Some Biopsy Punches of various diameters were developed for the department of Pathology, which are required to do manual tissue microarray from paraffin blocks.



Rat Chamber:-

This Rat Chamber is used to study and count the effect of radiation on the body of a Rat.

Material used: Acrylic Sheet 6 mm Size: Chamber 8" x 4" x 4".Hole ¼"

Deptt: Physiology & Anatomy.



Oxygen Hyper baric Chamber:-

It was provided to the Department of Surgical Disciplines for the experimental work. This instrument consists of the following main parts:

- Rubber gloves
- Release Valve
- Rubber (gaskets)
- Trolley with wheels
- B.P Gauge
- Rubber pipe ½" diameter (with clamps)
- Oxygen Regulator (Two Stage)



Stellite:-

This stellite is made of copper wire of 2mm thickness which is used for clearing the blockage in the tubes during surgery.

Size: 16", 12" and 10"

Dept.: Casualty and OT



Plastic Mould:-

This Plastic mould is used in vaginal surgery.

Material Used: Acrylic Rod Size: 65mm x 25 mm Deptt: Gyane & Obst



Perspex Sheet Chamber:-

This chamber having dimensions 6 x 4 x 3 feet with aluminum frame and multiple access windows was fabricated in 2002 for the Department of Pharmacology. It was fabricated for protection of the Isolated Heart Apparatus used in the laboratory.



Postal & Mortar:-

This Postal & Mortar is made of Teflon rod for avoiding any chemical reaction with the content mixing.

Material: Teflon Rod. Size: 3" x 3", 6" 1" Deptt: Nuclear Medicine.



Model for blind persons:-

This is a Centre Plate with five objects like, Vegetables, Fruit & Geometrical Shapes. The use of this model is to teach shape of these objects to blind patients.

Material used: Acrylic Sheet. Dept.: NMR/MRI

Size: Outer Diameter of plate is 16", 6 mm thickness. Knob size 45 mm X 25mm



'T' Connectors:-

This 'T' type connector is used to connect the tubes during the surgery.

Material: Nylon Rod. Size: 3" x 2", Dia: 6mm Dept.: IRCH



Messy table:-

This messy Table with Rat Chamber has been made for study and research purpose. The rat is kept inside the acrylic chamber and doze is injected to the rat for monitoring the effects.

Material used: Acrylic Sheet 6 m.m. thickness & Aluminum Angle 1 ½" x 1 ½", S.S. mess

Size: Table 3' x 2' x 2.5', Rat chamber 6" x 6" x 6" Deptt: Anatomy



Mallet with Nylon Head:-

This Mallet is made of Stainless Steel with Nylon heads. It is used in orthopedic surgery.

Material Used: Stainless Steel & Nylon Rod.

Size: Cap 1" x 1", Centre 2" Length 8" x 1" Dept.: Orthopedic



Fixture for MRI Machine:-

This fixture is made for fixing the attachments with the MRI machine. Being made of Teflon material it has no effect inside the magnetic region.

Material Used: Teflon Deptt: NMR/MRI

Size: Bolt – 2" x 3/8" with knurling head 1"x 1", BSW thread. Nut -1" x 1/4"



S.S.Container :-

This container is made of stainless steel (EN302) on special requirement to keep CIDEX Activated Dialdehyde Solution which is used for efficient, high level disinfection of endoscopes and Catheters.

Size: Length 100 Cm, Width 25 Cm Height 25 Cm

Dept. CNC



Stunner:-

This stunner is made of stainless steel and is used in Neuro surgery.

Size: 2Ft. in 'T' and cap handle

Dept. NS OT

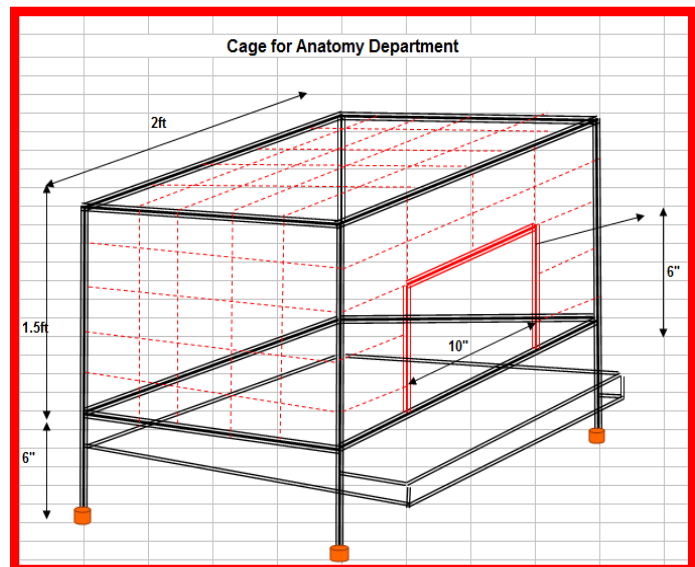


Chicks Cage:-

This cage is made on the special demand of the department of Anatomy to keep the chicks for the research on their eye (retina).

Size: According to E.D.

Dept: Anatomy



Gel casting Tray:-

This is set of Gel casting Tray is used in the lab. Gel is kept inside the tray and this comb move over the gel.

Size: 6x4x1.5

Dept: IRCH



Acrylic Plate for Microscope:-

This acrylic plate is used in Microscope to keep sample on the small disk shown in picture.

Size: 5"x 5"x6mm

Dept: Neuro surgery



Side Support Adjustment:-

This adjustable side support attachments are used during the ortho surgery. It is made of Stainless steel with two top caps.

Size: According ED

Dept: Ortho OT



Viscera Box:-

This Viscera Box is made of acrylic sheet to keep the sample.

Size: According to ED

Dept: Forensic Medicine



Bakelite Board:-

This Bakelite board is used in Cath lab during angiography to keep patient stable.

Size: Small, Medium, Big

Dept: Cath lab (CNC)



Arm & Head Protector:-

This Arm & Head Protector is made of acrylic sheet and is used for protecting baby after surgery.

Size: According to ED

Dept: OT Pediatric Surgery



Moisture Chamber:-

This moisture chamber is used to keep slide on base and keep them on frame.

Size: According to ED

Dept: Pathology

