

### THE DESCRIPTIVE PROTOCOL FOR AUTOPSY CASES

- For some time, medicine was **dominated by pathology** and every professor of medicine or surgery had extensive autopsy-experience and interest.
- Hence, the **autopsy room was the center of research activities**, and, doing an autopsy was considered a great privilege.
- Later on, the interest in the autopsy has been declined by the increasing reliance on **experimental pathology** and functional aspects of disease as a means of acquiring medical knowledge.
- Nevertheless, there is no doubt upon the **invaluability of autopsies to the profession**, their importance in
  - **The teaching of medical students and post-graduates** and
  - Their help **to the clinician to test the diagnosis** and
  - **To the surgeon as an instruction in the end-results of some operations**.
- It is reasonable therefore to attract the interest of medical students to the educational value of autopsies.
- **The old way of doing the autopsy** in the so-called **morgue** has changed in the University or Teaching Hospitals.
- New modern buildings are established for the purpose of autopsy dissection and autopsy-demonstration classes.
- They have replaced that underground humid, dim and smelly old-fashioned room where dead bodies are accumulated and where the staff were obliged to carry out their work (dissection) or new ideas (teaching) under the most disadvantageous circumstances.
- Advantages are taken of space, simplicity, day-light and improvements in artificial light, aeration, equipment and installations.
- This has allowed for modern techniques, easy dissection, visible demonstration-classes and perfect management.
- **The routine method of performing the autopsy** can be modified and **simplified** to secure sound information of immediate utility to the clinician in charge of the case and to guarantee that the effort would not go to waste.
- For ordinary (routine) cases, only few systems may be dealt with.
- Interesting cases and those **of particular scientific and diagnostic features** may be dealt with more fully.
- Where research work or statistical studies are needed, more care, performance and data should be given.
- The students, physician or surgeon, personally-interested in the case, **have to attend, and preferably to assist in performing, the autopsy.**

- **The old way of writing the autopsy report** has been changed and is so arranged that the clinician or the specialist can ask for (**or lay stress upon**) **particular organs and systems** – in which he is interested — to be autopsied or-and reported upon.
- In a teaching hospital, “**standard forms**” have been issued in order to facilitate processing
  1. **Autopsy Request Form:** This is filled in by the resident and signed by one of the clinical staff; (Form “A” of one page is suggested).
  2. **Necropsy Protocol Form:** This can be supplemented by drawings and sketches for illustrative purposes (Fig. 8); (Form “B” of few pages is suggested).
- Further interests in other directions in autopsies more than simply the anatomic are in the field of **chemical pathology** of diseased organs and in offering sufficient material for experiments which would give results of immediate importance to clinical medicine and surgical techniques.

**AUTOPSY REQUEST FORM** (Form A.)

Name:	Sex:	Date of Admission:
Ward:	Age:	Date of Death (& h.)
Section:	Occupation:	Date of Autopsy (& h.):
Hospital No.:	Marital Status:	Autopsy Operator:
Autopsy No. :	Residence:	Reviewed by Dr.:
Remarks:	Death is: Natural Not Natural.	

**Clinical Diagnosis:**

**Clinical History:**

**Symptoms and Signs:**

**Duration:**

**Investigations:**

Blood

Urine

Stools

Lab. Tests

X-Ray

Biopsy (1-Notes)

**Treatment:**

**Medical: A**

**Surgical:**

**Post-Operative:**

**Suspected Causes of Death:**

<i>Date:</i>	<i>Signatures:</i>
<i>Remarks:</i>	Resident of Clinical Section:  Chief of Clinical Section:  Pathologist in Charge:

## AUTOPSY REPORT (Form B - P. 1.):

Main University Hospital:		Autopsy No. :	
Department of Pathology:		Dr. Operator:	

Name:		Sex:		Date of Admission:	
Section:		Age:		Date & hour of death:	
Hospital No. :		Occupation:		Date & hour of P.M.:	

### DIAGNOSTIC SUMMARY

Morbid Anatomy
Morbid Histology
Clinical

Form B. - Autopsy No.

## NECROPSY PROTOCOL

### A. Gross Description

<b>I - General Features and External Description:</b>					
Apparent age:		Weight:		Height:	
Nutrition:		Rigor Mortis:		Livor Mortis:	
<i>Skin</i>					
Icterus		Colour:		Hydration:	
Pallor:		Pigmentation:		Eruptions:	
Petechiae:		Wounds:		Scars:	
Tumours:					
<i>Subcutaneous Tissue</i>					
Colour:		Thickness:		Edema:	
<i>Hair</i>					
Colour:		Distribution:			
<i>Eyes (R - L)</i>					
Colour		Pupils:		Conjunctiva:	
Sclera:					
<i>Ears (R - L)</i>					
Blood:		Pus:		Lesions:	
<i>Nose</i>					
Pus:		Lesions:		Nares:	
Blood:		Septum:			
<i>Lips</i>					
Cyanosis:		Lesions			
<i>Gums</i>					
Pyorrhea					
<i>Teeth</i>					
Present:		Absent			
<i>Mouth</i>					
State of mucosa:					

<i>Neck</i>					
<i>Thorax</i>					
<i>Abdomen</i>					
<i>Arms (R - L)</i>					
Edema:		Haemorrhages:		Lesions:	
<i>Legs (R - L)</i>					
Edema:		Haemorrhages:		Varicosities :	
Ulcers:					
<i>Back</i>					
Rash:		Deformities:		Lesions:	
<i>Breasts (R - L)</i>					
Size:		Nipple:		Areola:	
Lumps:		Discharge:			
<i>Genitalia (Penis-Scrotum) (Vulva-Vagina):</i>					
Development:		Edema:		Lesions:	
<i>Anal Orifice</i>					
<b>II - Body Cavities.</b>					
<i>Peritoneal Cavity</i>					
<i>Fat of A. Abdominal Wall</i>					
Colour		Character:		Thickness:	
<i>Peritoneal Fluid</i>					
Amount:		Nature:			
<i>Adhesions</i>					
Site:		Nature:			
<i>Liver Edge (R - C.M.)</i>					
A:		Below:			
<i>Dome of Diaphragm</i>					
Right		Left			
<i>State of Portal Vein</i>					
<i>State of Ureter</i>					
<i>State of Bladder</i>					
<b>Thoracic Cavity</b>					
<i>Mediastinum</i>					
<i>Thymus Gland</i>					
<i>Pleural Sacs (R - L)</i>					
Nature of Fluid				Amount	
Adhesions		Location			
<i>Pericardial Sac</i>					
Nature of Fluid				Amount	
<i>Epicardium</i>					
<i>State of Pulmonary Artery</i>					
<i>State of Aorta</i>					
<b>III - Cardio-Vascular System.</b>					
<i>Heart</i>					
Shape		Consistence		Weight	
Colour		Position			
<i>Surface (Visceral Pericardium)</i>					
<i>Foramen Ovale</i>				<i>Interventricular Septal Defects</i>	
<i>Atria</i>		<i>Left</i>		<i>Right</i>	
Capacity					
Contents					
<i>State of Endocardium</i>					
Wall					
Septum					
Auricle	Thrombi				
<i>Ventricles</i>		<i>Left</i>		<i>Right</i>	
Capacity					
Contents					
<i>State of Endocardium</i>					
Wall thickness					
Septum					
<i>Papillary Muscle:</i>					
<i>Chordae Tendinae</i>					
Thrombi					
<i>Valves</i>		<i>Mitral</i>		<i>Tricuspid</i>	
<i>Circumference of Ring</i>					

Translucent or Opaque				
Vegetation				
		<i>Aortic</i>		<i>Pulmonary</i>
Circumference of Ring				
Translucent or Opaque				
Fusion of Cusps				
Fenestra:				
Vegetation				
<i>Coronary Orifices</i>		<i>Left</i>		<i>Right</i>
Patency				
Obstruction				
<i>Coronary Arteries</i>		<i>Left</i>		<i>Right</i>
Straight				
Tortuous				
Atherosclerotic				
Thrombosed				
<i>Mural Thrombi</i>				
<i>Aorta</i>		<i>Thoracic</i>		<i>Abdominal</i>
Anomalies				
Stenosis				
Dilatation (Aneurism)				
Elasticity				
Atheroma				
Ulceration				
Calcification				
Thrombosis				
<i>Systemic Arteries</i>				
<i>Vena Cava</i>				
<i>Systemic Veins</i>				
<b>IV — Respiratory System</b>				
<i>Larynx</i>		<i>Right</i>		<i>Left</i>
Epiglottis				
Arytenoids				
Cords				
<i>Trachea</i>				
<i>Bronchi</i>		<i>Right</i>		<i>Left</i>
Mucosa				
Contents				
<i>Pulmonary Arteries</i>				
<i>Pulmonary Veins</i>				
<i>Lungs</i>		<i>Right</i>		<i>Left</i>
Weight				
Volume				
External Surface				
Adhesions & Location				
Cut Surface				
Colour				
Consistence				
Consolidation & Site				
Tuberculosis				
Atelectasis & Site				
Emphysema				
Lesions & Site				
<i>Lymph Nodes</i>				
<b>V - Digestive System.</b>				
Buccal Cavity & Palate				
Tongue				
Tonsils		<i>Right</i>		<i>Left</i>
Salivary Glands				
Pharynx				
<i>Esophagus</i>				
Mucosa		Lumen		Varicosities
<i>Stomach</i>				
Size		Mucosa		Ulcers
Contents (Nature)			(Amount)	
Other Lesions & Location				

<b>Duodenum</b>				
Mucosa		Ulcers		
Ampulla of Vater				
<b>Small Intestine</b>		<b>Jejunum</b>		<b>Ileum</b>
Peritoneal Surface				
Mucosa				
Ulcers				
Contents				
Lesions & Location				
<b>Vermiform Appendix</b>				
Position		Size in Cm.		Serosa
Mucosa		Lumen		Bilharziasis
Oxyuriasis				
<b>Caecum</b>				
<b>Colon</b>		Ascending :		Transverse :
Descending :		Sigmoid :		Rectum :
Anal Canal :		Bilharziasis & Location (Scrapings)		
<b>Liver</b>				
Weight in G		Size : in Cm.		Capsule :
External Surface		Colour		Cut surface
Fibrosis & Location				Consistence
Other Lesions & Location				
<b>Portal Vein</b>				
Thrombosis		Parasites		Other Lesions
<b>Gall Bladder</b>				
Wall		Cavity		Mucosa
Stones		Stones Type		Stones No.
Contents (Nature)			(Amounts)	
<b>External Bile Ducts</b>				
Wall		Lumen		Mucosa
Stones				
<b>Pancreas</b>				
Weight: in G		Size: in Cm.		
Colour		Cut Surface		Consistence
<b>Mesenteries</b>				
<b>Omentum</b>				
<b>VI – Urinary System.</b>				
<b>Kidneys</b>		<b>right</b>		<b>left</b>
Weight				
Size				
Capsule				
External Surface				
Cut Surface				
Consistence				
Cortex				
Medulla				
Striations				
Infarcts				
Haemorrhage				
Stones				
Arteries				
Other Lesions & Location				
<b>Pelvis &amp; Calyces</b>				
Lumen		Mucosa		Stones
Other Lesions & Location				
<b>Ureter</b>				
Lumen		Mucosa		Stones
Stricture		Bilharzia		
Other Lesions & Location				
<b>Urinary Bladder</b>				
Shape		Size		Mucosa
Amount of Urine				Trabeculations
Ulcers		Stones		Bilharzia
Lesions & Location				Urethral Orifice
Orifices of Ureters				
<b>Urethra</b>				
Mucosa		Obstruction		Stricture

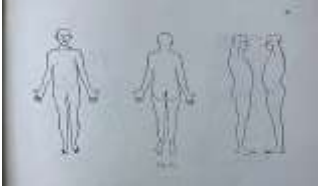


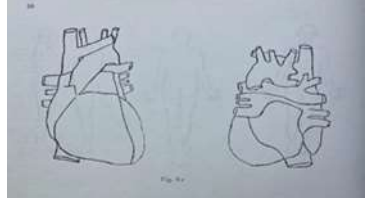
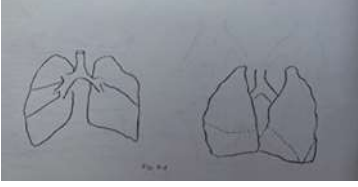
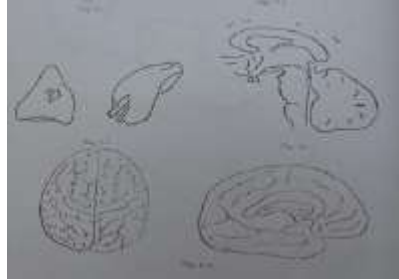

Stones		Bilharzia		
Other Lesions & Location				
<b>VII – Genital System.</b>				
<i>Prostate</i>				
Weight in G		Size in cm		Cut Surface
Consistence		Bilharzia		
Obstruction & Location				
<i>Seminal Vesicles</i>				
Size		Contents		Fibrosis
Bilharzia				
<i>Testicles</i>		<i>Right</i>		<i>Left</i>
Weight				
Size				
Cut Surface				
Consistence				
Fibrosis				
Bilharzia				
Other Lesions & Location				
<i>Epididymis</i>				
Fibrosis			Bilharzia	
Other Lesions & Location				
<i>Spermatic Cord</i>				
<b>Female genital</b>				
<i>Uterus</i>		<i>Body</i>		<i>Cervix</i>
Shape				
Size				
External Surface				
Wall				
Mucosa				
Lacerations				
Fibroids & Location				
Other Lesions & Location				
<i>Fallopian Tubes</i>		<i>Right</i>		<i>Left</i>
Patency				
Wall				
Serous Coat				
Mucosa				
Lesions & Location				
<i>Ovaries</i>				
Cysts		Weight		Size
Corpus Luteum:				
Corpus Albicans				
Other Lesions & Location :				
<i>Vagina</i>				
<b>VIII — Haemo-Lymphatic System</b>				
<i>Spleen</i>				
Weight : G		Size		Capsule
External Surface				Edge
Cut Surface		Colour		
Consistence of Pulp			Malpighian Corpuscles	
Infarcts		Lesions & Location :		
<i>Splenic Vein</i>				
<i>Lymph Nodes</i>				
<i>Bone Marrow</i>				
Pale & Location				
Red & Location				
Fatty & Location				
<b>IX – Endocrine System</b>				
		Weight		Size.
<i>Pituitary Gland</i>				
<i>Thyroid Gland</i>	Right			
	Left			
<i>Parathyroids,</i>	Right			
	Left			
<i>Adrenal Glands</i>	Right			
	Left			

<i>Other Findings &amp; Location</i>				
<b>X - Nervous System</b>				
<i>Brain</i>				
Weight		Size		Dura
Pia Arachnoid		Ext. Surface		Cut Surface
Variation in Consistence			Haemorrhage & Location	
Infarct & Location			Venous Sinuses	
Ventricles		Arteries		Base of Skull
Choroid Plexus			Cerebro-spinal Fluid	
Cranial Nerves				
<i>Prostate</i>				
Glandular elements				
Stroma				
Bilharzia				
<i>Seminal vesicles</i>				
Mucosa				
Bilharzia				
<i>Epididymis</i>				
<i>Testes</i>				
Tunica				
Seminiferous tubules				
Spermatogenesis				
Atrophy				
Interstitial cells of Leydig				
Bilharzia				
<i>Uterus</i>				
Endometrium				
Myometrium				
Hyperplasia				
Atrophy				
Cervical portion				
<i>Vagina</i>				
Mucosa				
Other layers				
<i>Ovaries</i>				
Follicles				
Cysts				
Stroma				
Vessels				
<i>Adrenals</i>				
Cortex				
Medulla				
Vessels				
<i>Thyroids</i>				
Acini				
Hyperplasia				
Stroma				
Colloid				
Degeneration				
Vascularity				
<i>Brain</i>				
Meninges				
Parenchyma				
Vessels				
<i>Spinal Cord</i>				
<i>Peripheral Nerves</i>				
<i>Calvarium</i>				
<i>Middle Ear</i>				
<i>Sphenoid Sinus</i>				
<b>XI – Musculo skeletal System</b>				
<i>Bones</i>				
<i>Vertebrae</i>				
Discs & Location				
Lipping & Location				
Exostoses & Location				
<i>Long Bones</i>				
<i>Flat Bones</i>				
<i>Joints</i>				



<i>Skeletal Muscles</i>	
<i>Tendons</i>	
<i>Bursae</i>	
<i>Ligaments</i>	
<i>Skin</i>	
<i>Subcutaneous Tissue</i>	
<i>Bacteriology</i>	
<i>Museum-Specimens</i>	
<i>Frozen &amp; Special Studies</i>	
<i>Photographs</i>	
<b>(b) Other organs or tissues principally involved:</b>	
<b>Clinico-Pathologic Correlation*</b>	
SUMMARY**	
* Each lesion seen during the autopsy dissection should be accounted for in the microscopic diagnosis and correlated with the clinical features so that the death of the patient can be attributed to specific lesions.	
** SUMMARY**	
1. To evaluate the pathological findings with the clinical ones.	
2. To elucidate the pathogenesis of illness.	
3. To assess the effect of treatment (therapeutic, isotopic or surgical) on the change found.	
4. To make use of the informations gained from this particular autopsy case.	

<b>(B) Microscopic Description.</b>	
<b>(a) The following organs (in general), may be one or two (in particular)</b>	
<i>Heart</i>	
Pericardium	
Myocardium	
Endocardium	
Valves	
Interstitial Tissue	
Blood vessels	
<i>Lungs</i>	
Pleura	
Alveoli	
Bronchi	
Interstitial tissue	
Blood vessels	
<i>Liver</i>	
Capsule	
Structure	
Lobules	
Zones	
Portal tracts	
Interstitial tissue	
<i>Gall bladder</i>	
Mucosa	
Other coats	
Calculi	
<i>Pancreas</i>	
Acini of parenchyma	
Ducts	
Vessels	
Islets of Langerhans	
Bilharzia	
<i>Spleen</i>	
Capsule	
Lymphoid follicles	
Red pulp	
Trabeculae	
Vessels	
<i>Kidneys</i>	

<b>Capsule</b>		
<b>Glomeruli</b>		
<b>Tubules</b>		
<b>Interstitial Tissue</b>		
<b>Vessels</b>		
<b>Calculi</b>		
<b>Pelvis of Kidney</b>		
<b>Ureter</b>		
<b>Bladder</b>		
<b>Mucosa</b>		
<b>Other layers</b>		
<b>Calculi</b>		
<b>Bilharzia</b>		
		
		
		

- By this means, some of the difficulties which have commonly faced both the clinician and the pathologist are overcome.
- The "Forms" may be prepared as to allow separate sheets for certain systems so that only those organs or systems demanded can be reported upon.
- For research work or particular cases of scientific value, however, a full report can be offered.
- In "Form B", the starting sheet is for the clinical and pathological diagnosis and the patient's identifying features.
- The next few sheets are for complete gross description of the autopsy findings.
- The report is so arranged as to follow a certain order.
- The last sheets are for the microscopic description of the lesions followed by a clinico-pathologic correlation (where each major symptom or sign is correlated with the pathologic lesion found) and then a summary.
- This report is kept bound into the "Protocol Book" with the illustrative specimens, slides, photographs and summary of the hospital's course (prepared by the clinician) in the department of pathology; a copy of the report is offered to the clinician.
- Autopsy reports, thus, become no more time-consuming or difficult in typing.
- The autopsy protocols are ready-printed sheets which are precise, systematic and which facilitate registration of the findings.
- Such a system when known by the student (future clinician) will regulate and facilitate the work.
- Not only there is lessening of the time and effort consumed, but also the follow up of lesions will be easy for future statistical and research work.
- This system ensures more understanding and scientific co-operation between the clinician and the pathologist for the sake of diagnosis, treatment and better management of future patients.