

**Final anatomic diagnosis :**

1. History of hepatocellular carcinoma and chronic hepatitis B, (S97-10998), S/P hepatectomy with orthotopic transplantation.
2. Diffuse hemorrhagic necrosis of the transplanted liver.
3. Bilateral end-stage (non-functional) kidneys.
4. Acute tubular necrosis, of the transplanted kidney.
5. Bilateral pleural effusion, marked, with right hemothorax.
6. Congestion of lung with focal hemorrhage of right upper lobe.
7. Diffuse hemorrhagic necrosis of gastric mucosa.
8. Bloody ascites, 1000 C.C.
9. Hemorrhagic infarct, spleen.
10. Hemorrhage over omentum, diaphragm and mediastinal soft tissue.
11. Mild atherosclerosis, aorta and coronary arteries.
12. S/P subtotal resection of small intestine (S97-11171).
13. S/P cholecystectomy.
14. Hydrocele, left.
15. Restricted autopsy, brain not included.

**Autopsy findings :**

(1) Body and external appearance :

Development	Well
Nutritional state	Well
A CVP line on right subclavicle area	
A 22cm horizontal wound on the abdomen	
Left scrotal hydrocele	

(2) Body cavities :

Pleural	Right	Serosanguinous effusion 1800 C.C.
	Left	Serous effusion 1300 C.C.
Peritoneal	800 C.C. Serosanguinous fluid with blood clot	
Pericardial	1200 C.C. Serous fluid	
Omentum	Marked hemorrhagic with blood clot	

(3) Cardiovascular system :

Greater vascular structures	
Gross	Mild sclerotic change
Microscopic Diagnosis	Mild arteriosclerosis

Heart General :			
Weight	500 GM	Pulmonary valve	7.0 CM
Left ventricle	2.0 CM	Mitral valve	6.5 CM
Right ventricle	1.0 CM	Aortic valve	4.0 CM
Tricuspid valve	8.0 CM		

Heart	Gross	Microscopic Diagnosis
Valves	Unremarkable	
Epicardium	Unremarkable Smooth	Congestion
Myocardium	Unremarkable Firm, red-brown throughout	Congestion
Endocardium	Unremarkable	Congestion
Coronary arteries	Mild sclerotic change without stenosis or narrowing	Mild arteriosclerosis

(4) Respiratory system :

Trachea and major bronchi		
Gross	Unremarkable	
Microscopic diagnosis	Congestion	

Epiglottis		
Gross	Unremarkable	
Microscopic diagnosis	Congestion	

Lung		
Weight	Right	1500 GM
	Left	120 GM
Gross	Marked congestion	
	Marked adhesion with blood clot, between the parietal pleura and lung in the upper lobe of right lung.	
Microscopic Diagnosis	Alveolar filled with RBC	
	Marked congestion	
	Blood clot on the pulmonary pleura (in RUL)	
	Anthracosis	

Mediastinum : Thymus		
Gross	Adipose tissue with blood clots	

(5) Gastrointestinal Tract :

Pharynx	
Gross	Unremarkable

Esophagus	
Gross	Unremarkable
Microscopic diagnosis	Congestion

Stomach	
Gross	Mild cyanotic change
	Erosion on the large curvature of the body
Microscopic diagnosis	Hemorrhagic necrosis of mucosa

Duodenum	
Gross	Mild to moderate cyanotic change
Microscopic diagnosis	Congestion
	Mucosal autolyzed
	Adhesion with blood clot on serosal surface

Small bowel	
Gross	Status post subtotal resection
	Cyanotic change on bilateral stumps
Microscopic diagnosis	Hemorrhage on submucosal layer
	Mucosal autolyzed

Large bowel	
Gross	Unremarkable
Microscopic diagnosis	Mucosal autolyzed
	Congestion

Pancreas		
Gross	Weight	150 GM
	Unremarkable	
Microscopic diagnosis	Autolysis	

(6) Hepatobiliary system :

Liver		
Gross	Weight	1750 GM
	Size	22 x 16 x 10 CM
	Out surface	Smooth, dark-red
	Cut surface	Dark-red
Microscopic diagnosis	Diffuse hemorrhagic necrosis	

Gallbladder	
Gross	Status cholecystectomy

Bile ducts	
Gross	Unremarkable

(7) Hematopoietic-Lymphoid system :

Spleen		
Gross	Weight	350 GM
	Size	14 x 11 x 3.0 CM
Microscopic Diagnosis	Hemorrhagic infarct	

Lymph nodes	
Gross	Unremarkable

(8) Urogenital system :

Kidney			
Gross	Right	Weight	25 GM
		Size	6.0 x 3.0 x 2.0 CM
		Atrophy	
	Left	Weight	24 GM
		Size	6.0 x 3.0 x 2.0 CM
		Atrophy	
	Donor Kidney	Weight	250 GM
		Size	13.0 x 7.0 x 3.0 CM
		Unremarkable	
Microscopic Diagnosis	Endo-stage kidney with hemorrhage		
	Tubular necrosis of the transplanted kidney		

Ureters	
Gross	Unremarkable
Microscopic diagnosis	Hemorrhage
	Congestion

Ureters	
Gross	Unremarkable
Microscopic diagnosis	Hemorrhage
	Congestion

Bladder and urethra	
Gross	Unremarkable
Microscopic diagnosis	Mucosal autolyzed

Prostate : Seminal vesicles	
Gross	Unremarkable
Microscopic diagnosis	Mild congestion

Testes					
Gross	Weight	Right	40 GM	Left	38 GM
Microscopic diagnosis	Congestion and hemorrhage				

(9) Endocrine system :

Thyroid		
Gross	Weight	16 GM
	Unremarkable	
Microscopic diagnosis	Congestion	

Parathyroids	
Gross	Unremarkable
Microscopic diagnosis	Congestion

Adrenals					
Gross	Weight	Right	3.5 GM	Left	3.5 GM
Microscopic diagnosis	Congestion and hemorrhage				

**Section Taken and Labeled as :**

<b>Labeled</b>	<b>Section Taken</b>	<b>Labeled</b>	<b>Section Taken</b>
<b>RL 1-4</b>	Right lung, Upper lobe	<b>PE</b>	Pericardium
<b>RL 5</b>	Right lung, Middle lobe	<b>ES</b>	Esophagus
<b>RL 6</b>	Right lung, Lower lobe	<b>ST 1-3</b>	Stomach
<b>LL 1-2</b>	Left lung, Upper lobe	<b>DU</b>	Duodenum
<b>LL 3-4</b>	Left lung, Lower lobe	<b>DM 1-2</b>	Duodenum + Mesentery
<b>LV 1-7</b>	Liver + Biliary tracts	<b>AV</b>	Ampulla Vater
<b>RK 1-2</b>	Right kidney	<b>LI</b>	Colon
<b>LK 1-2</b>	Left kidney	<b>AC</b>	Appendix + Cecum
<b>DK 1-2</b>	Donor kidney	<b>RE</b>	Rectum
<b>RAD</b>	Right adrenal gland	<b>RT</b>	Right thyroid
<b>LAD</b>	Left adrenal gland	<b>LT</b>	Left thyroid
<b>BL 1-2</b>	Bladder	<b>SP 1-2</b>	Spleen
<b>PS 1-2</b>	Prostate seminal vesicles	<b>PA 1-3</b>	Pancreas
<b>RT 1-2</b>	Right testis	<b>TY 1-2</b>	Thymus
<b>LT 1-2</b>	Left testis	<b>VC</b>	Vocal cord
<b>RH 1-2</b>	Right heart	<b>TR</b>	Trachea
<b>LH 1-2</b>	Left heart	<b>EP</b>	Epiglottis
<b>AO</b>	Aorta	<b>DI 1-2</b>	Diaphragm
<b>CA</b>	Coronary artery	<b>ME 1-2</b>	Omentum
<b>AA</b>	Abdominal aorta	<b>BM</b>	Bone marrow
<b>X 1-3</b>		<b>SH</b>	