

# A Preliminary Pharmacological Studies of “Chaksini” And “Makoa” (*Solanum Nigrum*) On A Patient Having Liver Cancer Diagnosed By Ultrasonography

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## Abstract

The drug Chaksini, *Peristrophe bicalyculata* Nees (Family Acanthaceae) is a lesser known drug. The “makoa” *solanum nigrum* family solanaceae is commonly used drug for liver disease. Both drugs are commonly used in different ailments as in wound healing, analgesic, and anti-inflammatory effect and anti-dote in traditional unani medicine. A reported case of liver cancer diagnosed by ultrasonography came in my clinic for consultsancy. After treatment the patient cured as investigation reports suggest, the patient is still alive and enjoying his normal life.

**Keywords:** chaksini, “peristrophe bicalyculatqa” Nees Acanthaceae, Makoa, *Solanum Nigrum*, Solanaceae, Analgesic and anti-inflammatory, liver cancer, extract, Nabiz.

## INTRODUCTION:

*Peristrophe bicalyculata* Nees commonly known as “chaksini” belongs to the family acanthaceae. This is a common used in and around Aligarh. It is reported in tropic and subtropic of Asia and Africa (Anonymous, 1959; Kritikar & Basu, 1987; Bamber, 1916; Hains, 1925; Dalzeil, 1948; Duthie, 1960;

Prains, 1063). It is a lesser known drug and mentioned in few of the unani classical books for its medicinal uses. Ghani (1921) and Khan (1892). The plant is banifical in phycho-somatic disorder, wound healing and possess anti-venom activity. Makoa controls the excess amount of heat liver or anti-inflammatory effect on liver. This medicine is specially described for the ailment of liver disease in ancient pharmacopeias, Chopra, R.N., 1956; Ghani, M.N. 1921; Hussain 1914; Nadkarni, K.M. 1954; Khan, M.M. 1994; Kabiruddin, M. 1987.

## MATERIAL AND METHODS:

### Collection and extraction of herb

The plants were collected from the wasteland of Aligarh. The proper identification is done with the help of Botany department's Aligarh Muslim university, Aligarh (Thesis Hoda, 1996).

The dried herb 1 kg of *peristrophe bicalyculata* Nees and 1 kg of *Solanum nigrum* were extracted with distilled water. I have formed Nabiz of both extract.

## DOSES SCHEDULE:

The green herb (1 kg) was extracted with distilled water and the extract was dried at constant temperature and pressure. The total yield of water extract was 15.4% when the colour of extract became dark brown then put it in formation of Nabiz.

### **THERAPEUTIC USE OF DRUG ON LIVER CANCER:**

The reported case of liver cancer came in my clinic who had referred by Prof. M.N. Jha to Mahaveer Arogya Cancer Sansthan, Patna. The diagnosis has done by the ultrasonography (Plate No 1). Patient is very poor and unable to afford the cost of the investigation of C T Scan. Patient look pale, having padal oedema with ascitis. The age is mentioned in prescription card. On examination the liver is palpable 3 fingers with tenderness. But margin was not irregular history of diabetes and jaundice is not present. After 15 days of treatment the result of ultrasonography was good (Plate No. 2).

After 40 days the ultrasonography result was normal (Plate No. 3). This is good result, patient is live and enjoying his normal life after the treatment.

### **DISCUSSION:**

It has preliminary pharmacological studies and it has need of more study on these drugs. The liver is the largest organ in the human body. It acts as biochemical laboratory. It controls the metabolism of carbohydrate, proteins, lipids and oestrogen are inactivated by liver enzyme. The liver

cells can clear testosterone from the blood rapidly through conjugation. The liver produces a large amount of heat organ except in tuberculosis, the organs temperature rises. The makon and chaksini have good effect in control of heat regulation of liver by decreasing the inflammation. Liver has dynamic action on protein, synthesis of amino acids, urea, uric acid, formation in foetal life. It is chief seat of synthesis of amino acids, RBC formation in foetal life and destruction in adult life even manufacturing of all plasma protein here. In patient with sever liver disease, inflammation the activity and function of liver become disturbed. The body immune system, genitor-urinary system decrease iron deficiency anemia starts. The patients body became pale and the osmotic and hydrostatic pressure of the body became disturbed. In same case patient became ill in looking but gradually the Nabiz of both drug create a life for the patient and full cure occur. Now patient became a challenge of treatment for further studies. In this case plate 1 shows that the severity of the disease of live illness. The histopathology and CT scan have not done. The result of plate 2 and plate 3 show good result of the treatment. Now this is the mater to work further for humanity.

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Dr. M. N. Jha  
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एम.बी.बी.एस., एम०डी० (मेडिसीन), दरभंगा  
हृदय, फेफड़ा एवं पेट रोग विशेषज्ञ  
सहायक प्राध्यापक  
मेडिसीन विभाग  
जवाहर लाल नेहरू मेडिकल कॉलेज अस्पताल,  
भागलपुर।

Reg. No.-21616 (Bihar)

गुरुवार शाम बंद  
रविवार शाम बंद



जेनरल फिजिसियन  
हटिया रोड,  
तिलकामांझी, भागलपुर

Date.....

यह पुर्जा दिनांक 17/11/13

से दिनांक 3/11/13 तक वैध है।

रात्रि : 9:00 बजे के बाद सेवा उपलब्ध नहीं होगा।

15 दिन के बाद पुनः फीस लगेगा।

रिपोर्ट या पुराना पुर्जा दिखाने का समय : 2:00 PM to 3:00 PM एवं 8:00 PM to 9:00 PM

आकस्मिक सेवा, रात्रि सेवा एवं कॉल की सुविधा नहीं है।

Sri Jay Prakash Yadav 55th Piprainti.

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# SURYA JANCH GHAR

## सूर्या जाँच घर

मद्यु गैस एजेंसी के बगल में, हटिया रोड, तिलकामांझी, भागलपुर

Patient Code :- 2013011727	Received Date :- 17-01-2013
Patient Name :- JAI PRAKASH YADAV	Patient Sex :- Male
Referred by Dr. :- M.N.JHA MD	Patient Age :- 55 Years

### REPORT ON EXAMINATION OF URINE

INVESTIGATION	RESULT
<b>(A) PHYSICAL EXAMINATION</b>	
Amount	20 ml
Colour	PALE YELLOW
Appearance	CLEAR
Sediment	NIL
<b>(B) CHEMICAL EXAMINATION</b>	
Reaction	ACIDIC
Sugar	NIL
Albumin	PRESENT ++
Phosphate	NIL
<b>(C) MICROSCOPIC EXAMINATION</b>	
<b>CELLULAR ELEMENTS</b>	
Erythrocytes (RBCs)	NIL
Pus Cell (WBCs)	NIL
Epithelial Cell	1 - 2 /HPF
Others	NIL

— End of Report —

Sample Collected :- Inside the lab	Technician <b>Dr. M. K. Pathak, MBBS (Bh.U)</b>
Reporting Date :- 17-01-2013	
PLEASE NOTE : Findings may vary lab to lab due to type of kit Quality of machines variation in procedure. If result is unexpected or alarming please contact the lab for revival of the result. Not for Medical legal purposes.	



# SURYA JANCH GHAR

## सूर्या जाँच घर

मद्यु गैस एजेंसी के बगल में, हटिया रोड, तिलकामांझी, भागलपुर

Patient Code :- 2013011726	Received Date :- 17-01-2013
Patient Name :- JAI PRAKASH YADAV	Patient Sex :- Male
Referred by Dr. :- M.N.JHA MD	Patient Age :- 55 Years

### REPORT ON HAEMATOLOGY

INVESTIGATION	RESULT	NORMAL RANGE
Haemoglobin	10.8 g/dl	8 - 16.6 gm/dl (Male)
Hb. %	73.44 %	
<b>TOTAL COUNT</b>		
Leucocytes	9100 /cumm	4000 - 11000 /cumm
<b>DIFFERENTIAL COUNT OF W.B.C</b>		
Neutrophil	60 %	45 - 70 %
Lymphocyte	37 %	26 - 40 %
Monocyte	01 %	01 - 06 %
Eosinophil	02 %	02 - 05 %
Basophils	00 %	0 - 01 %
<b>ESR (WESTERGERN)</b>		
ESR 1 hour	62 mm /hr.	0 - 12 mm (Male)

### BIO-CHEMICAL EXAMINATION

INVESTIGATION	RESULT	NORMAL RANGE
Blood Sugar Random	106 mg/dl	70 - 140 mg/dl

— End of Report —

Sample Collected :- Inside the lab

Receiving Date :- 17-01-2013

Technician

Dr. M.K. Pathak, MBBS (Bh.U)

PLEASE NOTE: Findings may vary left to lab due to type of kit Quality of material used variation in procedure.  
If result is unexpected or alarming please contact the lab for revival of the result. Not for Medical legal purposes.

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9709595612 (Sudhanshu)  
8969712606 (Pankaj)

# AASTHA SCAN CENTRE

(CENTRE FOR ULTRASONOGRAPHY)

Garib Nawaz Market, Hatia Road, Tilkamanjhi, Bhagalpur  
E-mail : smartsmyle@gmail.com, sachinksingh2007@yahoo.co.in



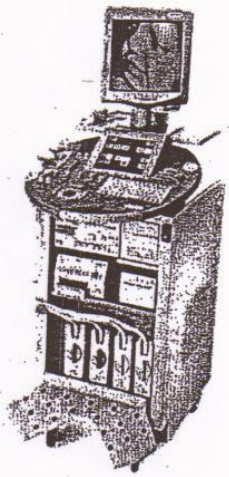
PLATA NO-1

*Dr. Sachin Kumar Singh*

MBBS (B.U.), MD Radiodiagnosis (Ranchi)

Senior Radiologist, Jawaharlal Nehru Medical College & Hospital, Mayaganj, Bhagalpur.  
Ex-Assistant Professor, Sharda Medical College & Hospital, Noida, Delhi  
Ex-Senior Resident, Lady Hardinge Medical College & Kalawati Saran Children's Hospital  
New Delhi

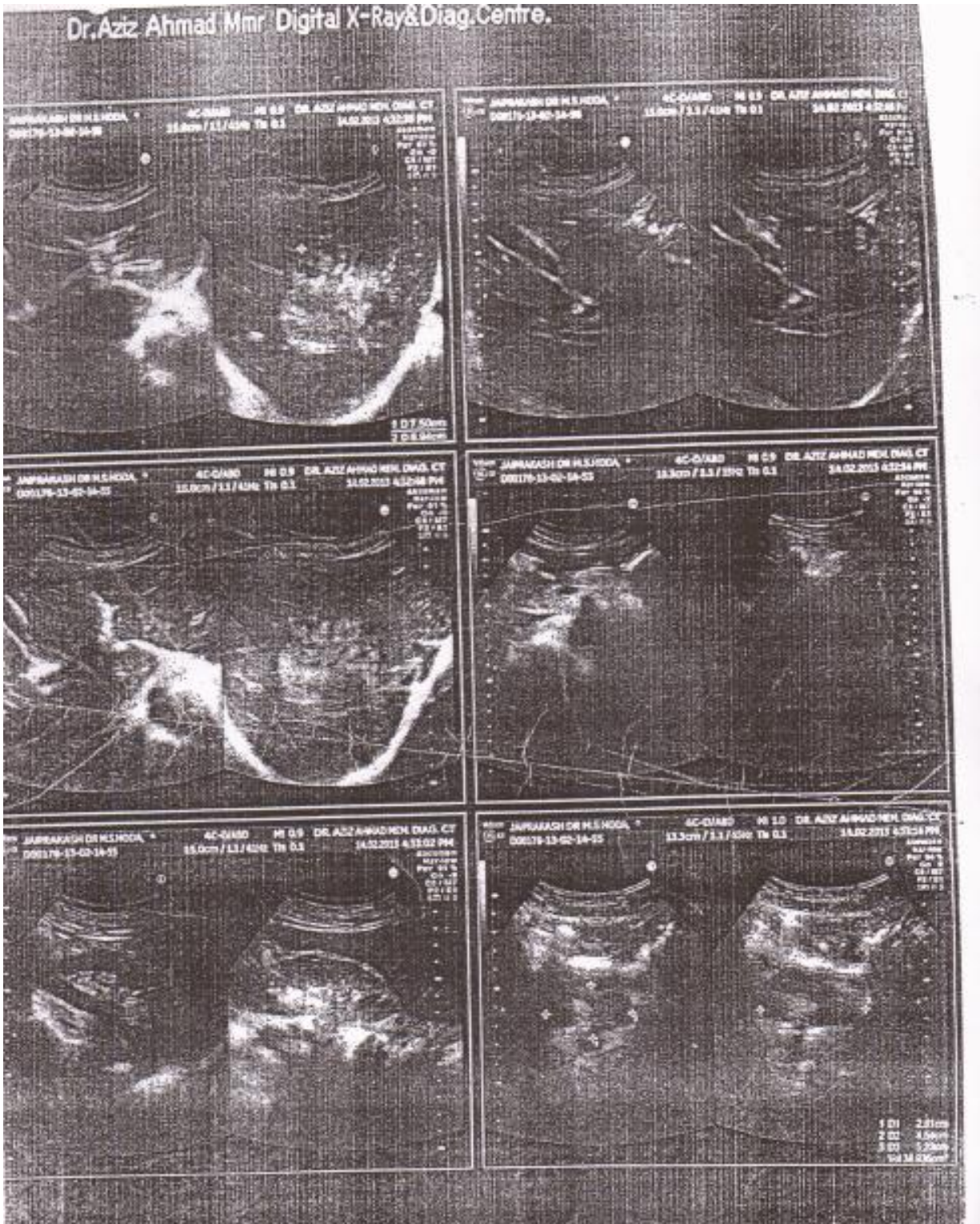
Name of Patient ...Mr. Jay Prakash Yadav...  
Referred by Dr. M.N. Jha, Consultant Physician..  
Part Examined...USG...of whole abdomen...  
Age...55...Sex...M.....Date of Exam...17.01.2013.



## Facilities Available :-

- Colour Doppler, Soft tissue (High Resolution) ultrasound,
- Neurosonography, Follicular study Thyroid Ultrasound, Liver abscess aspiration,
- Renal Biopsy, Breast Ultrasound (Sonomammography),
- Ascitic Tapping, Pleural effusion tapping, Pig Tail Catheter insertion,
- Lymph Node Biopsy, Pericardiocentesis, FNAC etc.

**Foetal Sex Determination Not Done Under Any Circumstances.**





Contact No. :- 7488421931

**AASTHA SCAN CENTRE**  
Garib Nawaj Market, Hatia Road, Tilkamanjhi, Bhagalpur  
**Dr. Sachin Kumar Singh**  
MBBS (B.U.), MD Radiodiagnosis, (Ranchi)  
Ex-Senior Resident, Lady Hardinge Medical College & Kalawati Saran Children's Hospital,  
New Delhi.  
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Senior Radiologist, Jawaharlal Nehru Medical College Hospital, Bhagalpur.

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Name of Patient	Mr. Jay Prakash Yadav	Age / Sex	55/Male
Ref. by	Dr. M.N.Jha, MBBS, MD(Medicine), Const. Cardiologist, Asst. Prof., J.L.N.M.C.H., Bhagalpur.	Date	17.01.2013
Part Examined	USG OF WHOLE ABDOMEN		

**Findings**

**SONOGRAPHY OF WHOLE ABDOMEN**

*The real time, B mode, gray scale sonography of the whole abdominal organs was performed.*

**LIVER:-** A large rounded illdefined heteroechoic area of size approx. 8.0 x 8.2 cms seen in right lobe of liver. On color doppler there is evidence of increased color vascularity within it, suggestive of neoplastic.

**GALL BLADDER:-** The gall bladder is seen as a well distended, pear shaped bag with uniformly thin and regular walls, without, gall stones or mass lesions.

**COMMON BILE DUCT:-** The common bile duct is normal in caliber. It measures 3.1 mm at porta hepatis. No evidence of calculus is noted in common bile duct.

**PANCREAS:-** The pancreas is normal in size, shape, contours and echotexture. No evidence of solid or cystic mass lesion is noted.

**KIDNEYS:-** The kidneys are normal in size and have smooth renal margins. Cortical echotexture is normal. The central echocomplex don't show evidence of calculous or hydronephrosis.

**SPLEEN:-** The spleen is normal in size and shape. Its echotexture is homogeneous. No evidence of focal lesion is noted.

**RETROPERITONEUM :-** There is no evidence of enlarged coeliac, mesentric, portal pre or para aortic lymphnodes. The great vessels namely aorta and IVC and its visualized branches are normal.

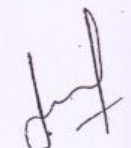
**ASCITES:-** There is no ascites.

**URETERS:-** The ureters are not visualised.

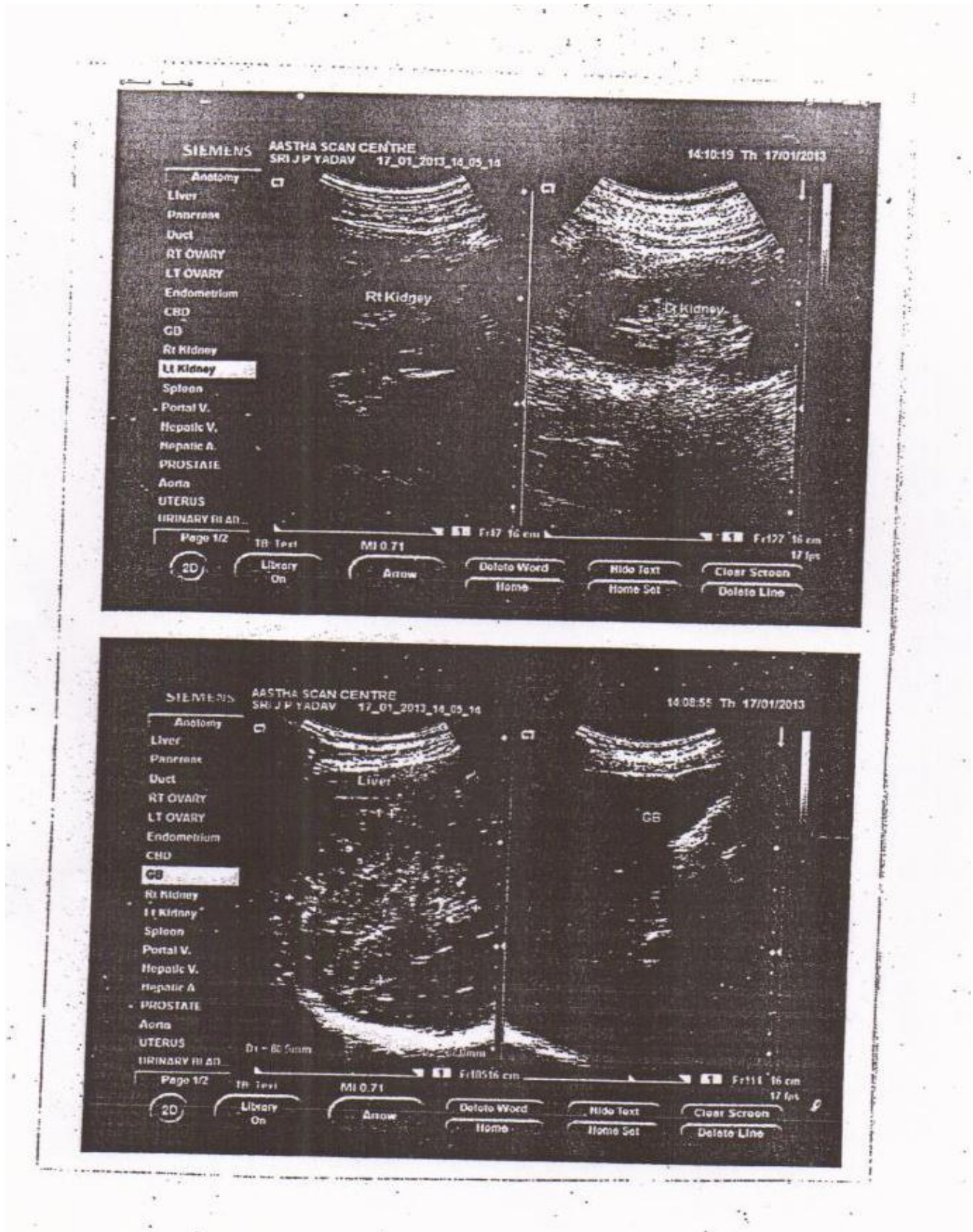
**URINARY BLADDER:-** The urinary bladder is well distended. It shows thin walls and sharp mucosa. No evidence of calculus is noted. No mass or diverticulum is seen.

**PROSTATE:-** The prostate shows well defined and sharp margins. The prostatic echotexture is normal and homogenous. No evidence of focal abnormal areas is noted. No calcification is seen. The prostate gland measures normal in size and weight.

**IMPRESSION:- LARGE SOL IN LIVER, POSSIBILITY OF NEOPLASTIC.**

Dr. Sachin Kumar Singh 

Not for Medico legal purposes



**AASTHA SCAN CENTRE**

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Name of Patient	Mr. Jay Prakash Yadav	Age / Sex	55/Male
Ref. by	Dr. M.N.Jha, MBBS, MD(Medicine), Const. Cardiologist, Asst. Prof., J.L.N.M.C.H., Bhagalpur.	Date	17.01.2013
Part Examined	USG OF WHOLE ABDOMEN		

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- RETROPERITONEUM :-** There is no evidence of enlarged coeliac, mesentric, portal pre or para aortic lymphnodes. The great vessels namely aorta and IVC and its visualized branches are normal.
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**IMPRESSION:- LARGE SOL IN LIVER, POSSIBILITY OF NEOPLASTIC.**

Dr. Sachin Kumar Singh

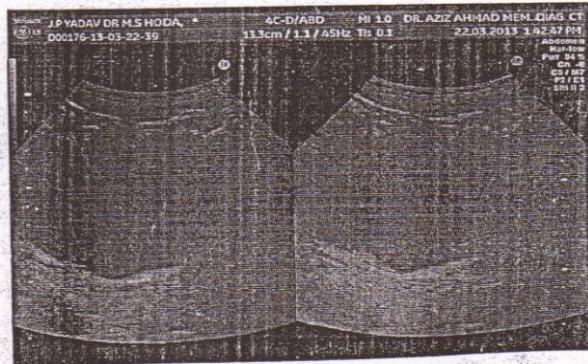
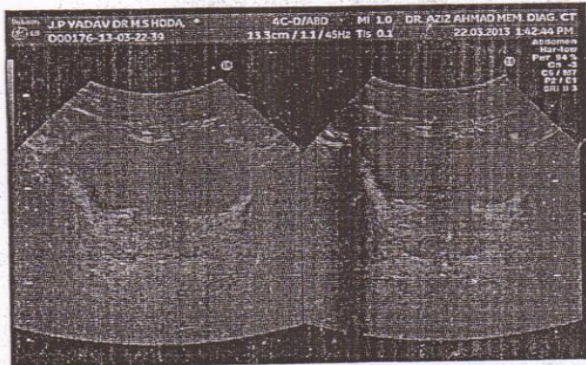
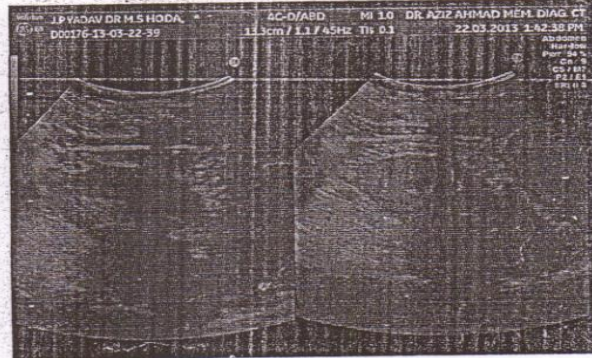
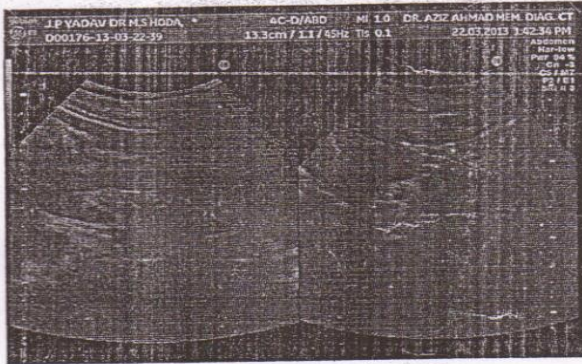
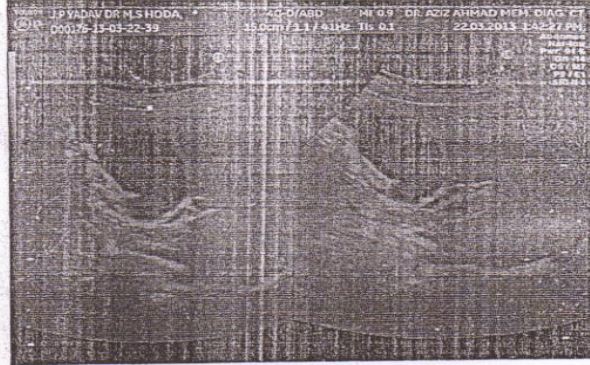
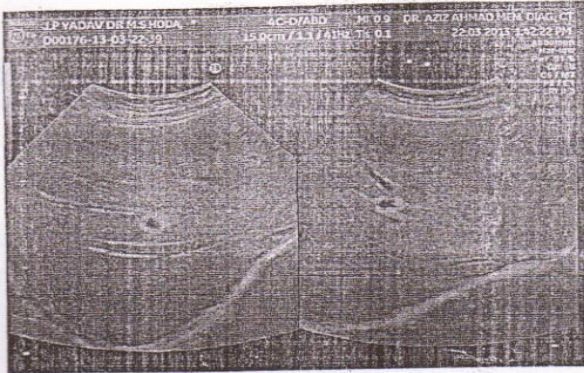


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ID: D00176-13-03-22-39

J.P YADAV DR M.S HODA

Exam Date: 22.03.2013 1:41:59 PM



Normal Scan of Liver

EAST KOTWALI PS, DR. R. P. ROAD, BHAGALPUR - 2, Mob : 9934054072 / 9939824040  
Email : drarshahmad786@gmail.com  
EMERGENCY : 9431213481

Reg. No.-03/01  
M.B.B.S. (MYSORE)  
IAN DONALD DIPLOMA OF ULTRASOUND (AGRA)  
Ex-Resident (Dept. of Radiology)  
RMR Institute of Medical Sciences, Kolkata  
Ex-Medical Officer  
B. R. Singh Hospital, Eastern Railway, Kolkata

Patient name	Mr. JAIPRAKASH	Age/Sex	60 Years / Male
Patient ID	VOLUSON-E8-1174-13.14.02	Visit no	1
Referred by	Dr. . <i>MD. SAQRUL ZAFAR</i>	Visit date	14/02/2013

**Abdomen and KUB Scan Report**

Real time B-mode Ultrasonography of Abdomen and KUB done

**Abdomen**

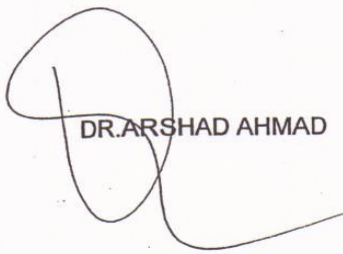
- Liver is enlarged with a echogenic mass in the rt lobe measuring 7.5 x 6.9 cms. Ijbr is not dilated.
- Gall bladder appeared normal. No calculi seen in the gall bladder
- Commonduct appeared normal. No calculi seen in the commonduct
- Pancreas appeared normal
- Spleen appeared normal
- Aorta appeared normal. No para aortic nodes seen.
- Peritoneal cavity appeared normal
- Both pleural spaces appeared normal.

**KUB**

- Right kidney measured 10.4 cms.
- Cortex and collecting system of right kidney appeared normal. No calculi seen.
- Left kidney measured 10.2 cms.
- Cortex and collecting system of left kidney appeared normal. No calculi seen.
- Bladder appeared normal.
- Pre void volume-231ml. Post void-56ml.
- Prostate weighs -34 grams.

**IMPRESSION**

S/O ECHOGENIC MASS IN THE RT LOBE WITH PERIPHAERAL VASCULARITY CONSISTENT WITH HEMANGIOMA.  
ADV-CECT.

  
**DR. ARSHAD AHMAD**

*PLATE NO-2*

Page #1 - 14/02/13 05:10 PM