



All India Institute of Medical Sciences, Bhubaneswar
At - Sijua (Patrapada), Post - Dumuduma, Bhubaneswar (Odisha) - 751 019

To be uploaded in Website: www.aiimsbhubaneswar.nic.in (Tender)

Reference No: **J-11083(016)/2020-21/S&P**

Dated: 28/09/2020

Sub: Procurement of "Liver Surgery Planning Workstation with Volumetry (Make : Intrasure SA, France)" for the Department of Surgical Gastroenterology at AIIMS, Bhubaneswar on Proprietary basis - **Inviting Comments thereon.**

The Department of Surgical Gastroenterology of AIIMS, Bhubaneswar has requested for Procurement of **Liver Surgery Planning Workstation with Volumetry (Make : Intrasure SA, France)** through **M/s Modi Medicare, Mumbai**, authorised distributor of Intrasure SA, France.

The Notice is being uploaded for general information of prospective manufacturer/Authorized Distributor/Dealers to submit their objection/proposal/comments, if any, on proprietorship of the item.

In case the product of any manufacturer/Authorized distributor/Dealer conforms to the enclosed specifications, they may submit their proposal for the supply of the same along with the brochures, point by point compliance of the enclosed specifications along with all documentary evidence. One quotation of the product may also be submitted.

The objections/comments/proposal should be sent in sealed cover to the Office of Sr. Procurement Cum Stores Officer, AIIMS, Bhubaneswar (Odisha) – 751019 or through E-mail to aso@aiimsbhubaneswar.edu.in, aso.jkbiswal@aiimsbhubaneswar.edu.in, spo@aiimsbhubaneswar.edu.in, so as to reach on or before **date: 15-10-2020** failing which it will be presumed that no other firm is interested to offer comments/protest/object and case will be decided on its merits.

The ref. no. – **J-11083(016)/2020-21/S&P** dt:25-09-2020, due on dated:15-10-2020 should be superscripted on sealed envelope.

Enclosure:

1. Proprietary Article Certificate from Indenting Officer of Department of Surgical Gastroenterology, AIIMS, Bhubaneswar. **Annexure-I.**
2. PAC of **M/s Intrasure SA, France** for the Liver Surgery Planning Workstation with Volumetry (Make: Intrasure SA, France) **Annexure-II.**
3. Certificate of Authorization, Price quotation with CMC of Liver Surgery Planning Workstation with Volumetry (Make: Intrasure SA, France) **Annexure-III.**
4. Technical Boucher of the items (**Annexure-IV**).

Copy to:

- | | | |
|--|---|------------------------------|
| 1. Indenting Officer, Department of Surg. Gastroenterology | : | for information please |
| 2. PS to DDA | : | for kind information please. |
| 3. Accounts Officer | : | for information please |
| 4. IT Cell | : | for hoisting in the website. |


Sr. Procurement-cum-Stores Officer
AIIMS, Bhubaneswar

AIIMS, BHUBANESWAR

Proprietary Article Certificate
Valid for the Current Financial Year

File No. and Date Reference :			
1	Description of article	LIVER SURGERY PLANNING WORKSTATION WITH VOLUMETRY	
2	Forecast of quantity /annual requirement	01	
3	Approximate estimated value for above quantity	Rs. 60,00,000/-	
4	Maker's name and address	INTRASENCE SA, FRANCE	
5	Name(s) of authorized dealers/ stockists	M/s Modi Medicare	
6	I approve the above purchase on PAC basis and certify that :- Note- Tick to retain only one out of (b), C-1) or (c-2) whichever is applicable and cross out others. Please do confirm (a) by ticking it - without which PAC certificate will be invalid.		
6 (a)	This is the only firm who is manufacturing / stocking this item. AND	YES	
6 (b)	A Similar article is not manufactured / sold by any other firm, which could be used in lieu OR	✓	
6 (c-1)	No other make/brand will be suitable for following tangible reasons (like OEM/ Warranty, spares.): OR	NA	
6 (c)	No other make/brand will be suitable for following intangible reasons (if PAC was also given in the last procurement cycle, please also bring out efforts made since then to locate more sources): OR	NA	
7	Reference of concurrence of finance wing to the proposal :		
History of PAC Purchase of this item for past three years may be given below :			
Name of the Supplier			
Order/ Tender Reference & Date	Quantity Ordered	Basic Rate on Order (Rs.)	Adverse Performance Reported if Any

Signature of the Initiating Officer

Signature of Approving Authority.....

Date..... Designation of Officer.....

Dr. Bramhadatta Pattnaik
Assistant Professor
Surgical Gastroenterology
AIIMS, Bhubaneswar



Headquarters
1231 Avenue du Mondial 98
34000 Montpellier - France
Tel +33 4 67 130 130
Fax +33 4 67 130 132
www.intrasense.fr

Attn. to The Director
AIIMS Bhubaneswar
Sijua, Patrapada, Bhubaneswar-751019
INDIA

PROPRIETARY CERTIFICATE

We, Intrasense who are established and reputable Software developers and manufacturers of MYRIAN SOFTWARES having office at - 1231 Avenue du Mondial 98 – 34000 Montpellier (France).

This is to confirm that Myrian® is a registered trade mark of Intrasense's medical imaging review and aided diagnosis software solutions.

The suite of **proprietary software** applications developed and marketed by Intrasense, under the name of Myrian® include unique segmentation and 3D algorithms, in particular for the liver module Myrian® XP-Liver for Liver Surgery and Transplant Planning & are proprietary in nature. Those algorithms are protected by a series of patents filed in major countries of Europe, Americas and Asia.

Yours Faithfully

2020-08-03 | 12:46 PM CEST

Philippe Van Pervenaege

DocuSigned by:

Philippe Van Pervenaege

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Operations Director

INTRASENSE SA

1231, Avenue du Mondial 98
34000 MONTPELLIER

Tel.: +33 (0)467 130 130 - Fax: +33 (0)467 130 132
SIRET : 452 479 504 00048 - APE : 3250A

VAT NUMBER: FR 57 452 479 504

RCS MONTPELLIER | SIRET 452 479 504 00048 | APE 3250A

intrasense®

MANUFACTURER'S AUTHORISATION FORM

To

Whomsoever It May Concern

Dear Sirs,

We, **Intrasense** who are proven and reputable manufacturers of **Myrian®**, 3D volumetry segmentation software, having factories at **Paris and Montpellier (France)**, hereby authorise Messrs **Jigish Modi, Modi Medicare, 4/102 Deep Sunil, Garodia Nagar, Ghatkopar (E), Mumbai 400 077 (India)** to submit a tender / offer, process the same further and enter into a contract with client against your requirement for the above goods manufactured by us.

We further confirm that no supplier or firm or individual other than Messrs. **Jigish Modi, Modi Medicare, 4/102 Deep Sunil, Garodia Nagar, Ghatkopar (E), Mumbai 400 077 (India)** is authorized to submit a tender/offer, process the same further and enter into a contract with client for the above goods manufactured by us.

Yours faithfully,

Nicolas Reymond on January 7th Sept 2020

INTRASENSE SA
1231, Avenue du Mondial 99
34000 MONTPELLIER
Tél : +33 (0)467 130 130 - Fax : +33 (0)467 130 131
SIRET : 452 479 504 00048 - APE : 3291

Nicolas Reymond, Chief Executive Officer, Intrasense SA, 3 Rue Castex, 75004 Paris (France)

Dr Bramhabanta Pattnaik
MS, Mch
Assistant Professor
Dept. of Surgical Gastroenterology
IMS, Bhubaneswar, 75101

To,
Director,
AIIMS hospital.
Bhubhneswar

Date: 26th Sept 2020
Ref: 06432/AIIMS/20-21
Validity: 30 days

OPTION 1 - STAND-ALONE LICENSE WORKSTATION - Single user Login

Sl. No	Description & Specification	Qty	Unit Price in Rupees	Amount
1.	MYRIAN LIVER VOLUMETRY Workstation S/W (Each unit is single license - SINGLE CONCURRENT USER - Standalone) Myrian® Multi modality Workstation SOFTWARE Includes License: • Myrian® EXPERT 3D diagnosis workstation with volumetrics base • Myrian® XL-Matching Module for elastic registration - Inter And Intra Series (Triphasic CT) • Myrian® XP-LIVER for CT Volumetry Advanced Liver Volumetry & Liver Segmentation Software and resection Planning features, determination of Volumes of resected liver, RLV, Lesion, 8-Couinaud Segments of the Liver, Congestion Volumes, Etc.	1	50,84,746/-	50,84,746/-
	• Workstation Hardware + 2MP Medical Grade Monitor 5 year warranty	1		
	SUB TOTAL			Rs. 50,84,746/-
	GST on software & Hardware	GST @ 18%		Rs. 9,15,254/-
	GRAND TOTAL			Rs. 60,00,000/-
	Rupees Sixty Lakh Only			

E. & OE.

After 5 Years Warranty Comprehensive Annual Maintenance Contract Shall be provided for next 5 years :

CAMC Rates for the 1st Year after warranty Rs.6,45,000/- + Service Tax applicable at that time
(3 Visits / year+ any number of remote calls)

CAMC Rates for the 2nd Year after warranty Rs.7,08,750/- + Service Tax applicable at that time
(3 Visits / year+ any number of remote calls)

CAMC Rates for the 3rd Year after warranty Rs.7,44,188/- + Service Tax applicable at that time
(3 Visits / year+ any number of remote calls)

CAMC Rates for the 4th Year after warranty Rs.7,81,397/- + Service Tax applicable at that time
(3 Visits / year+ any number of remote calls)

CAMC Rates for the 5th Year after warranty Rs.8,20,467/- + Service Tax applicable at that time
(3 Visits / year+ any number of remote calls)

GENERAL TERMS & CONDITIONS:

1. **Taxes & Levies:** The above price is exclusive of GOODS AND SERVICES TAX(GST) as applicable which is applicable per product separately is payable by the customer. Any other levies or duties applicable shall be charged extra at actual to the customer. The current pricing is as applicable as per the current exchange rates, current taxes and levies as indicated by the Indian Government. Any changes in the exchange rates, government levies, taxes, duty structure, surcharge taxes, shall be applicable at the time of invoice.
2. **Other Charges:** All Bank charges and clearing charges has to be borne by the customer.
3. **Payment Terms:** 100% advance payment in favour of **M/S. MODI MEDICARE**, along with confirmed order in favour of

M/S. MODI MEDICARE,
4/102, DEEP SUNIL,
GARODIANAGAR,
GHATKOPAR (E)
MUMBAI - 400077.
Tel: 2506 5664

Cell: +91-9867001110
Skype: modi.medicare
Email: modimedicare@gmail.com
GSTIN/UIN:27AACPM9429M125

BANK DETAILS:
NAME: MODI MEDICARE
BANK: KOTAK MAHINDRA BANK.
Account type: CURRENT Account
ACCOUNT NO: 8811151294
SWIFT CODE: KKBKINBB
IFSC CODE: KKBK0000658
BRANCH: GHATKOPAR(E)

Detailed address of Bank:
KOTAK MAHINDRA BANK
31, M.G.ROAD,
BEDESHWAR BUILDING
NEXT TO TRIBHUWANDAS BHIMJI
ZAVARI SHOWROOM,
GHATKOPAR(E),
MUMBAI - 400077

4. **Delivery:** Within 6-8 weeks after receiving your confirmed order with advance.
5. **Warranty / Maintenance:** The unit shall be covered under comprehensive warranty/ maintenance **for 5 years** from any manufacturing defects, physical damage shall not be covered under warranty

For MODI MEDICARE.



Jigish Modi
Director

Technical Specification for Liver Surgery Planning Workstation with Volumetry:

Architecture:

1. The Workstation should be on true vendor neutral, multimodality platform, with DICOM 3.0 compatibility for image transfer and storage.
2. The system must be ~~HIPAA standard compliant~~. It should also comply with CFR21 part 11 ~~compliance~~ for "electronic signature" mechanism and verification.
3. The system must support displays up to 2MP or above.
4. The system should ~~work on~~ Windows 10 Professional 64 bit OS which supports multicore process.
5. Different user profiles (administrator, user or observer) with different access ~~rights must be configurable~~.
6. One active licence with master computer
7. The database should ~~be having~~ password protection and auto log-off mechanism.
8. There must be a display of available disk space for the database.
9. Automatic Cleanup and manual cleaning of database, based on available disk space should ~~be possible~~.
10. Reporting database ~~must be linked with patient database~~.
11. The interface must have user-defined workspace layout.
12. Full image view (hiding all buttons and overlays) to allocate the whole workspace to review of images must be possible.

DICOM Details:

1. The system should ~~be DICOM 3.0 compliant~~
2. There should be ~~a possibility to display or hide DICOM tags; customize the tags to be displayed~~
3. Image pixel smoothing and processing must be selectable (None, delayed, immediate)
4. It must have user-defined ~~filter & sorting mode based on any DICOM Tags~~
5. DICOM Q/R C-find SCU and C-Move SCU must be supported for remote patients query and retrieve
6. Import and export ~~of the patients must happen in background~~
7. Smart Creation of ~~new DICOM series: any MPR based frame can be reformatted & be saved as an new individual series. The reformatted series must take into account the slice thickness and rendering mode~~


Dr. BIJU POTTAKKAT
Professor & Head
Reg. No: TC-25144
Dept. of Surgical Gastroenterology
JSSMSP, P. O. - Herry


Dr. Bramhadatta Pattanaik
Assistant Professor
MS, Mch
Dept. of Surgical Gastroenterology
AIIMS, Bhubaneswar-751017


Dr. Subrat Kumar Sahas
Associate Professor
Department of Paediatric Surgery
AIIMS, Bhubaneswar-751019

-2/4-

8. Automatic sub-series detection of multiple phase acquisitions must be possible.
9. User defined filter ~~and sorting modes~~ must be available based on any DICOM tags

Image Processing Properties:

1. Preview of Thumbnail of images before opening series, intuitive selection of range of images to be displayed
2. Windowing, Zooming Panning and Navigation together must be available as mouse functions
3. There must be customized mouse function at least 4 user mouse profile presets for above mentioned functions
4. There should be possibility to have smart series synchronization between series with different thickness slice number, etc.
5. Windowing presets ~~User customizable~~ Windowing presets must be available on function keys.
6. One click cine mode in any viewport must be available
7. All annotations, texts, arrow, and preset of text annotations must be possible
8. Basic measurement tools Length, angle surface measurements tools must be available
9. Pixel calibration tools to measure length after image calibration must be available
10. Image enhancement tools must be available
11. Image reference line (smart automatic MPR Localization on axial/coronal/sagittal must be possible
12. Unlimited number of undo and redo must be available
13. Flexible anatomical display layout for users must be available.
Synchronizations of views on the anatomical center must be available
14. Scrapbook and print composer with image control of windowing zooming, panning and navigation must be available
15. The system should support DICOM and WINDOWS printing
16. Exporting of all images in bmp, jpg, etc, formats must be possible
17. CD / DVD burning with DICOM viewer must be possible. The DICOM viewer must also have MPR mode
18. User must be able to define DICOM shutters on CR / DR images
19. Automatic Push to PACS / Auto export to PACS of final images with option to define main PACS should be available

21/9/23
Dr. BIJU POTTAKKAT
Professor & Head
Reg. No. TC-25144
Dept. of Surgical Gastroenterology
JIPMER, Pondicherry

22/09/2020
Dr. Subodh Kumar Shukla
Associate Professor
Department of Paediatric Surgery
AIIMS, Bhubaneswar-751019

22/09/2020
Dr. Bramhadatta Pattnaik
Assistant Professor
Dept. of Surgical Gastroenterology
AIIMS, Bhubaneswar

-2/4-

20. Must have facility of MPR / Oblique MPR / MIP, MinIP with ability to change image thickness
21. Rigid registration for series which do not belong to the same study, must be possible to register / synchronize them
22. Rendering mode : Volume rendering (Average / MIP / Tissue Coloration), Average, 3D MIP, virtual endoscope etc must be possible
23. Manual Visual Selection and masking must be possible
24. CPR viewing with navigator must be available
25. New series creation from existing series in linear, curved or radial mode should be available.
26. ROI Histogram and settings customization must be available

Liver Surgery functions:

1. All types of Liver surgical planning must be possible
2. Segmentation of liver anatomical structures (Parenchyma, Lesion, Vessels) in CT acquisitions must be possible
3. Manual segmentation of liver anatomical structures (Parenchyma, lesions) in MR Acquisitions
4. Visualization of segmented anatomical structures (optionally from multiple series) in surfacic mode
5. Creation and optimization of the resection surface in 2D MPR
6. Creation and optimization of the resection surface in 3D surfacic representation of the liver model
7. Automatic calculation of volume and relative percentage of remaining and resected parenchyma
8. Specific step-by-step Hepatectomy wizard according to planned Liver resection
9. Calculation of the portal and hepatic veins vascular territories
10. Comparison of multiple surgery planning
11. Export of the Liver 3D model in 3D PDF documents

Matching functions:

1. The Non-rigid registration: Synchronize the anatomical center location in multiple series to compensate for patient motion between acquisitions.
2. Similarity metrics must have the following:
 3. - Normalized Cross correlation (NCC)
 4. - Normalized Mutual Information (NMI)
 5. - Sum of Absolute Differences (SAD)

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Professor & Head
Reg. No: TC-25144
Dept. of Surgical Gastroenterology
JIPMER, Pondicherry

Dr. Bramhadatta Pattnai
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Dept. of Surgical Gastroenterology
AIIMS Bhubaneswar

Dr. Abhraj Kumar Saha
Associate Professor
Department of Paediatrics
AIIMS, Bhubaneswar

- 4/4 -

6. - Sum of Squared Differences (SSD)
7. Different metrics should be implemented in the XL-Registration option and are available for ~~user selection or protocols configuration~~
8. It can be specified ~~in the application protocol for an automatic launching~~ of the appropriate registration upon exams loading.

Additional Features:

1. 5 year warranty and 5 year CMC with automatic upgradation facility for new versions without payment.
2. Any licenced upgradation should be informed within 3 months of licence in India. Warranty will include software, hardware, third party applications and connections.
3. Training for two persons every year
4. Trouble shooting attending in 24 hours and rectification in next 48 hours
5. Computer screens display should be minimum 21 inch
6. All images uploaded for work in station will be the property of AIIMS Bhubaneswar
7. Only the latest licences version of the product to be quoted as on the last date of quote to AIIMS Bhubaneswar.
8. Color printer which has capability to print full screen image to be provided

2/9/20
Dr. BIJU POTTAKKAT
Professor & Head
Reg. No: TC-25144
Dept. of Surgical Gastroenterology
JIPMER, Puducherry

02/09/2020
Dr. Subrat Kumar Sahoo
Associate Professor
Department of Paediatric Surgery
AIIMS, Bhubaneswar-751019

02/09/2020
Dr. Bramhadatta Pattanai
Assistant Professor
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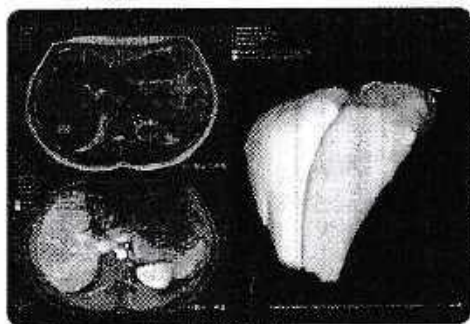


intrasense



Myrian®

The world-class solution
for abdominal surgery planning



- > Vendor-neutral solution
- > Powerful and fast automated segmentation
- > Advanced 3D visualization
- > Automated volumetry and surgery planning tools
- > One-click generation of multi-scenario reports
- > Intuitive step-by-step workflow

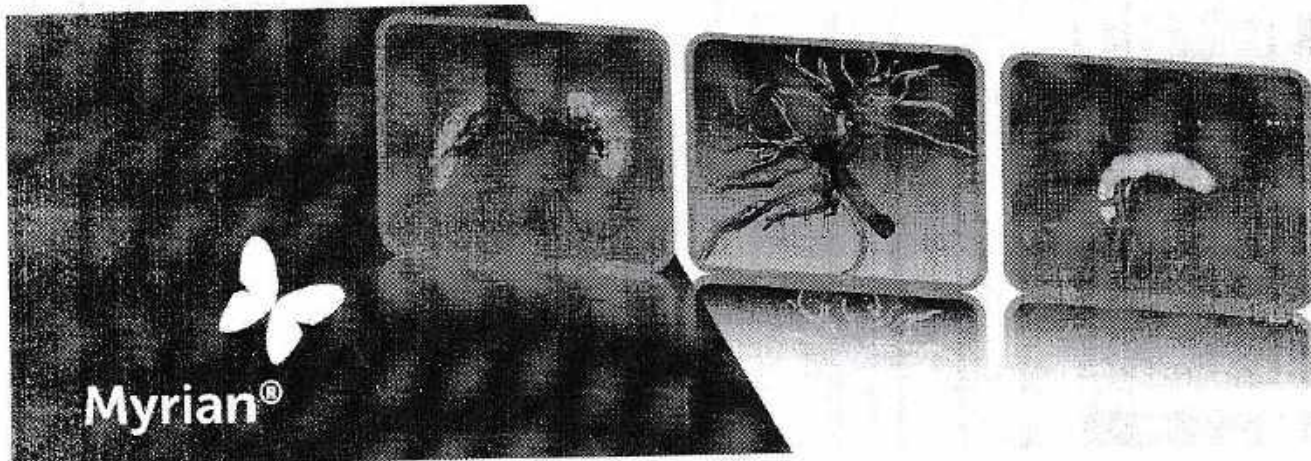
From segmentation to
smart reporting and
surgery planning

www.intrasense.fr



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Automatic segmentation

- > One-click segmentation of portal vein, hepatic arteries and veins, hepatic parenchyma and tumor



Enhanced user experience

- > Intuitive and dedicated step-by-step workflow for greater ease-of-use and productivity
- > Automatic handling of different scenarios



Smart reporting

- > One-click creation of a Word report including key images and volumetry measurements
- > One-click creation of a 3D PDF report supporting multiple scenarios

Share your 3D PDF with other doctors to seek advice or to communicate with your patients.
This 3D interactive report can be opened from any of the hospital's computers with a free PDF viewer.



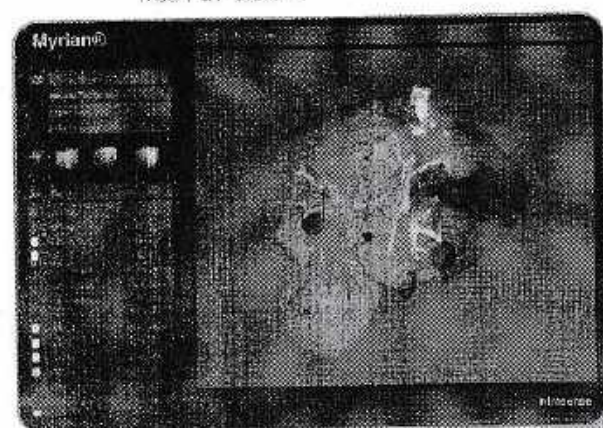
Advanced visualization

- > 3D surface viewpoint with synchronized support
 - > Best-of-breed elastic matching to correct body position mismatch between phases
- Visualize and analyze your MR exams too thanks to dedicated layouts and volumetry calculation for MR exam display and analysis.



Unequalled surgery planning tools

- > Virtual resection tool usable on 2D or 3D with minimal safety margin detection
- > Automatic calculation of remaining and resected volumes
- > Automatic vascular territories calculation tool



Myrian is a registered trademark of Intrasense. All other trademarks are the property of their respective owners. Intrasense is not responsible for any damage or loss of data resulting from the use of this software. The software is provided as is, without warranty. Intrasense is not responsible for any damage or loss of data resulting from the use of this software. The software is provided as is, without warranty.

Signature

www.intrasense.fr



List of Features that we provide:

1. Unlimited accessibility for all workstations:

We provide unlimited access to all patient data for unlimited number of slices unlike competition which limits the accessibility to 5000 Slices. So if a Liver Transplant case need to be reviewed for triphasic abdominal CT Scan it can amount upto 1700 slices on an average.

If vessel analysis needs to be reviewed the Angiography flythrough data can result upto more than 2000 slices.

So we have no limitation at all!

2. Ability to have fusion of triphasic data:

We can fuse the Arterial, Portal Venous and Hepatic Venous Data sets for proper surgical planning.



Fusion of all vessels



Fusion of Hepatic Veins and Hepatic Artery

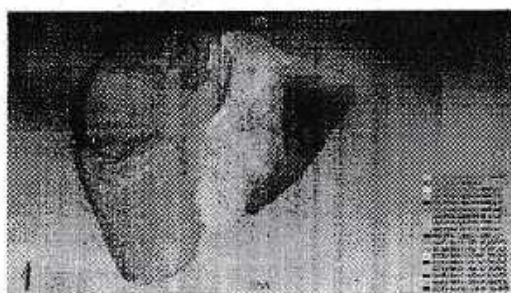
3. Ability to have side-by-side review of CT and MRI data:

We can navigate, zoom, pan, window on the Ct and MRI (MRCP) data together for extensive liver transplant & surgical planning. We can do this on the same screen, side-by-side.



4. Ability to compute Portal Venous Segmental Analysis:

We can compute the Segmental analysis of Liver as per Couinaud 8 segments of the Liver as per portal venous supply.



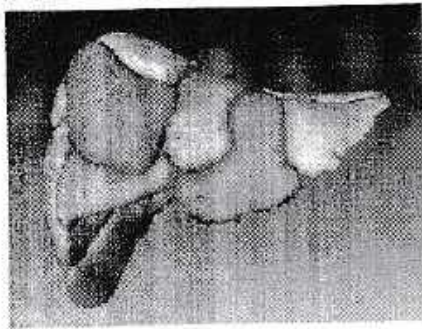
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MODI MEDICARE

4/102, DEEP SUNIL, GARODIA NAGAR, GHATKOPAR (E), MUMBAI - 400 077. PH: 2506 5664

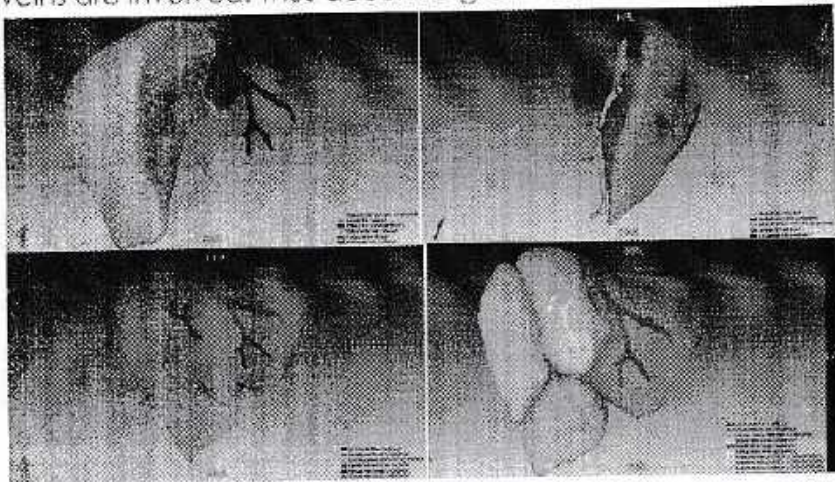
5. Ability to compute Hepatic Venous Segmental Analysis:

We can compute the Segmental analysis of Liver as per Hepatic Venous Drainage of the Liver.



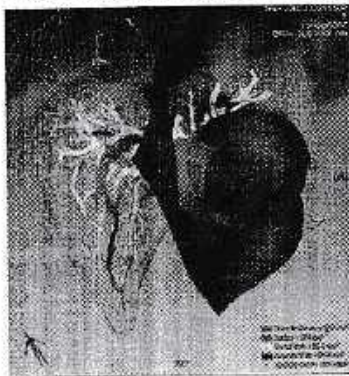
6. Ability to compute Hepatic Venous Congestion Volumes:

We can compute the Congestion Volumes for area where the ligation of the hepatic veins are involved. Thus accurate graft volumes can be established prior to surgery.



7. Ability to Precisely make resection planes:

We can compute the exact resection plane as per either the tumor or the hepatic veins. Thus accurate graft volumes can be established prior to surgery.



8. Ability to compute Pre - TACE / Post - TACE Evaluation of Lesion Volumes.

9. Ability to compute Pre - RFA / Post - RFA Evaluation of Lesion Volumes.

MODI MEDICARE

4/102, DEEP SUNIL, GARODIA NAGAR, GHATKOPAR (E), MUMBAI - 400 077. PH: 2506 5664

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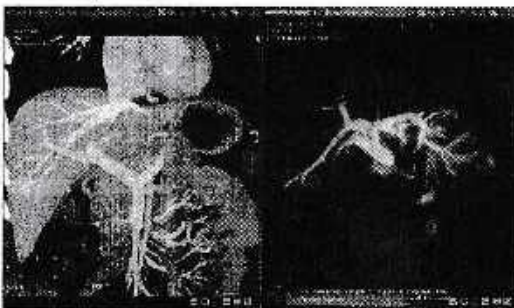
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Fusion of Hepatic Veins and Hepatic Artery

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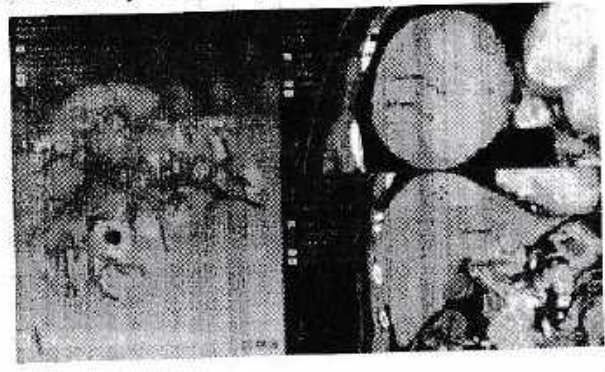
4. Ability to compute Portal Venous Segmental Analysis:

We can compute the Segmental analysis of Liver as per Couinaud 8 segments of the Liver as per portal venous supply.



[Handwritten signature]

10. Ability to compute Radio-Embolization Evaluation and planning.



11. Ability to compute LAI - Liver Attenuation Index.

12. Ability to compute Liver Hemochromatosis Evaluation (At Optional costs).

13. Ability to compute THAD and THID Volumes measurements.

14. Ability to Precisely compute liver volumes in 3D MRI sequences... and much more

We are the only company which can process volumetry of Liver in MRI. It is very important that the donor be evaluate for Liver Iron OverLoad (for 1.5Tesla MRI) if he has undergone blood transfusion ever before in his life for any disease or Thalessemia. Such donor have to be evaluated for the risk for recipient and donor himself. We are the only company who can achieve this in 5 clicks. This is FDA approved program and is patented by us.

A handwritten signature in black ink, consisting of a stylized, cursive 'M' followed by a smaller, less distinct mark.