



AHPBA 2020

Americas Hepato-Pancreato-Biliary Association

ANNUAL MEETING

2020 Vision—Focus on Evidence and Integrated Care

March 5 - 8, 2020

Miami Beach, FL

Loews Miami Beach Hotel



Controversies in treatment of Colorectal Liver Metastasis



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CASE

- ❑ 52-year-old female patient
 - Synchronous liver metastases
 - Left sided colon tumor
- ❑ The primary was asymptomatic.
- ❑ She underwent:
 - Left colectomy
 - Lymphadenectomy
 - Colostomy
- ❑ No chemotherapy

❑ KRAS Wild-type

ADENOCARCINOMA



I-MEDICAL
134332
ABDOME IMEDICAL^SUPERIOR 2016
AXIAL T1 VIBE_POS 3_W



R

L

□ Liver metastases:

Segment: I

Involving the vena cava

Segments: II, III

Segments: IV, V, VII, VIII

Question

- ☐ Resectable upfront?
- ☐ Chemotherapy?

- ☐ 52 yo
- ☐ KRAS Wild-type

Chemotherapy

☐ Nine cycles of FOLFIRI

MRI

☐ After 8 months

IMEDICAL

174112

ABDOME IMEDICAL^ABDOME TOTAL 2016 FIGADO

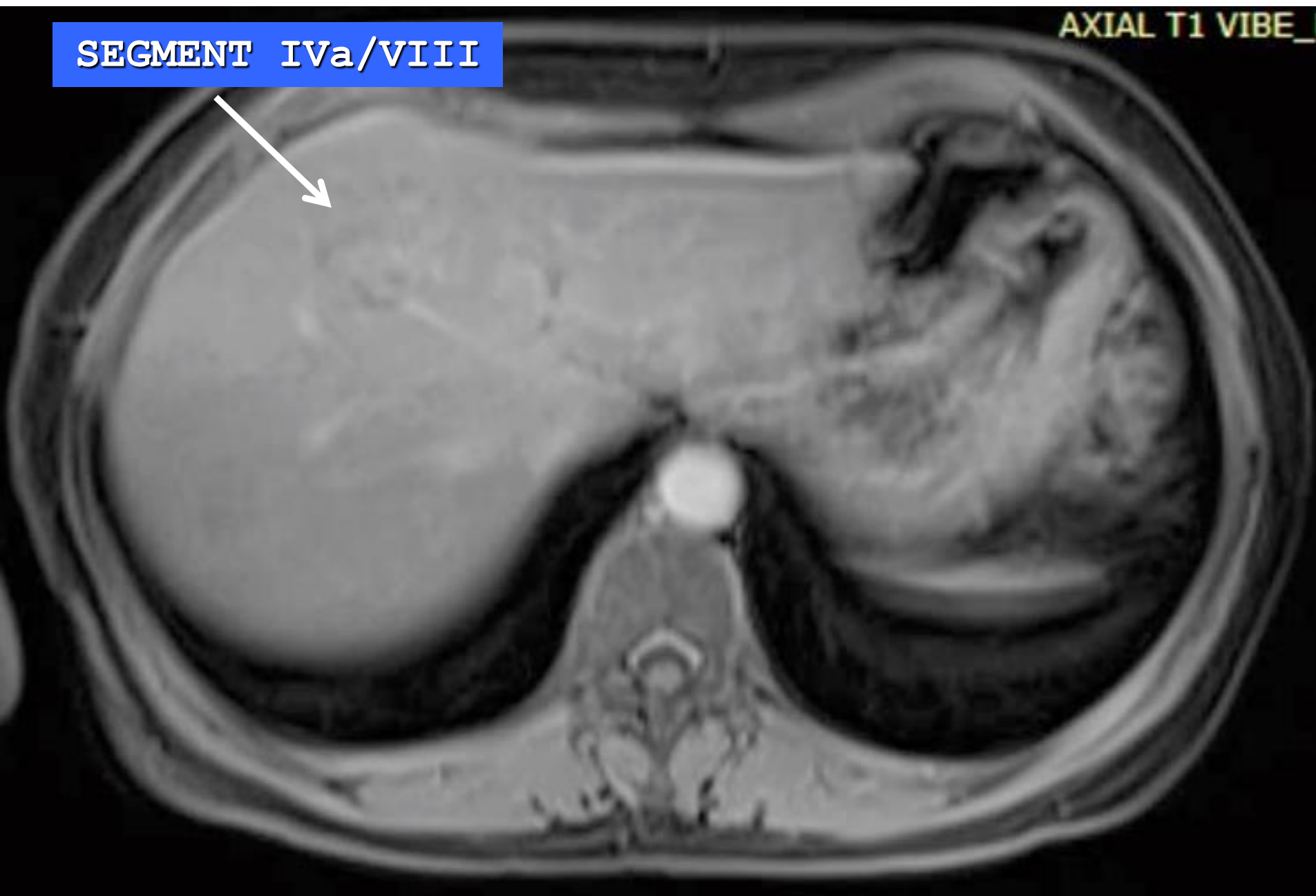
AXIAL T1 VIBE _POS 2_W

R

L

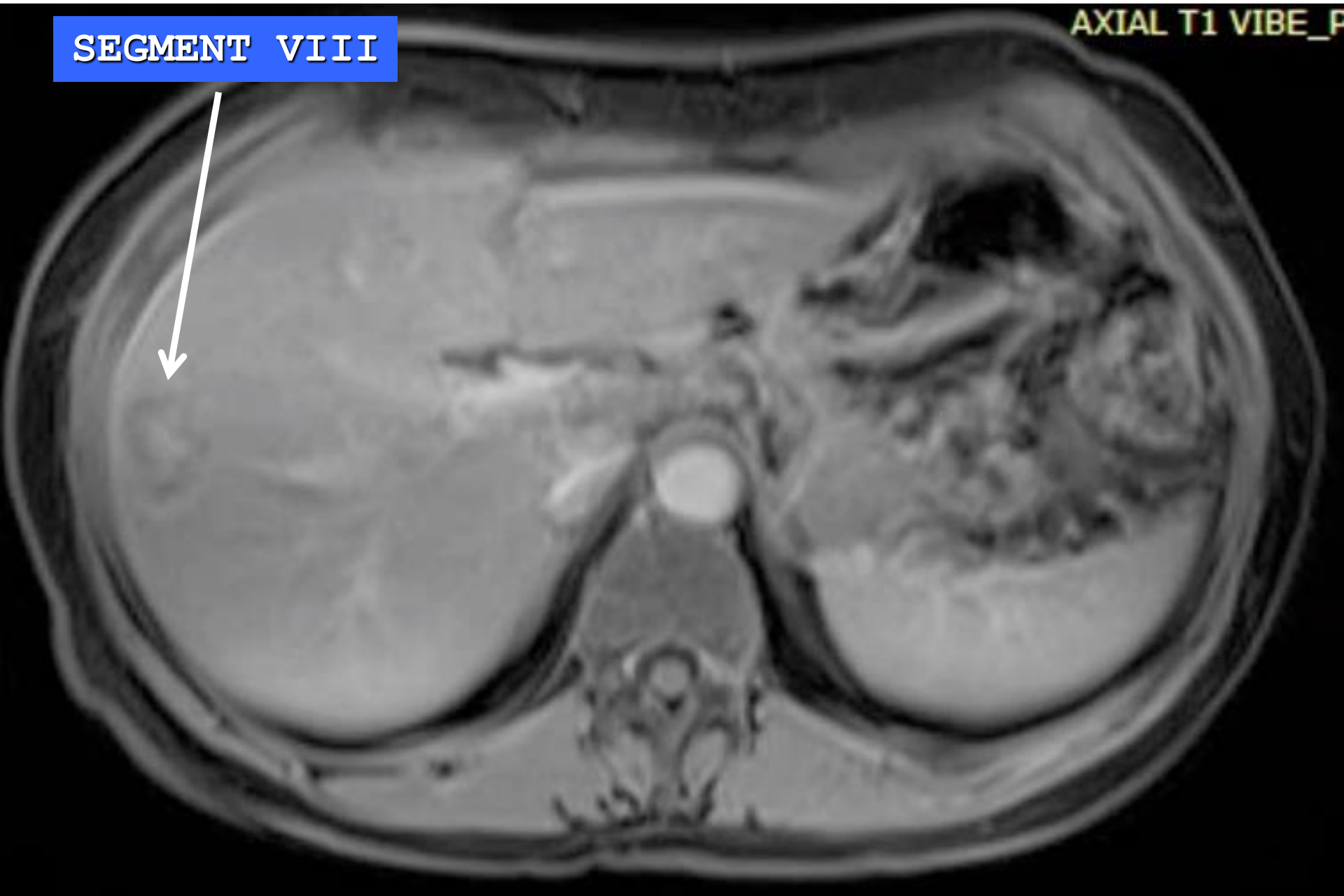
AXIAL T1 VIBE_F

SEGMENT IVa/VIII

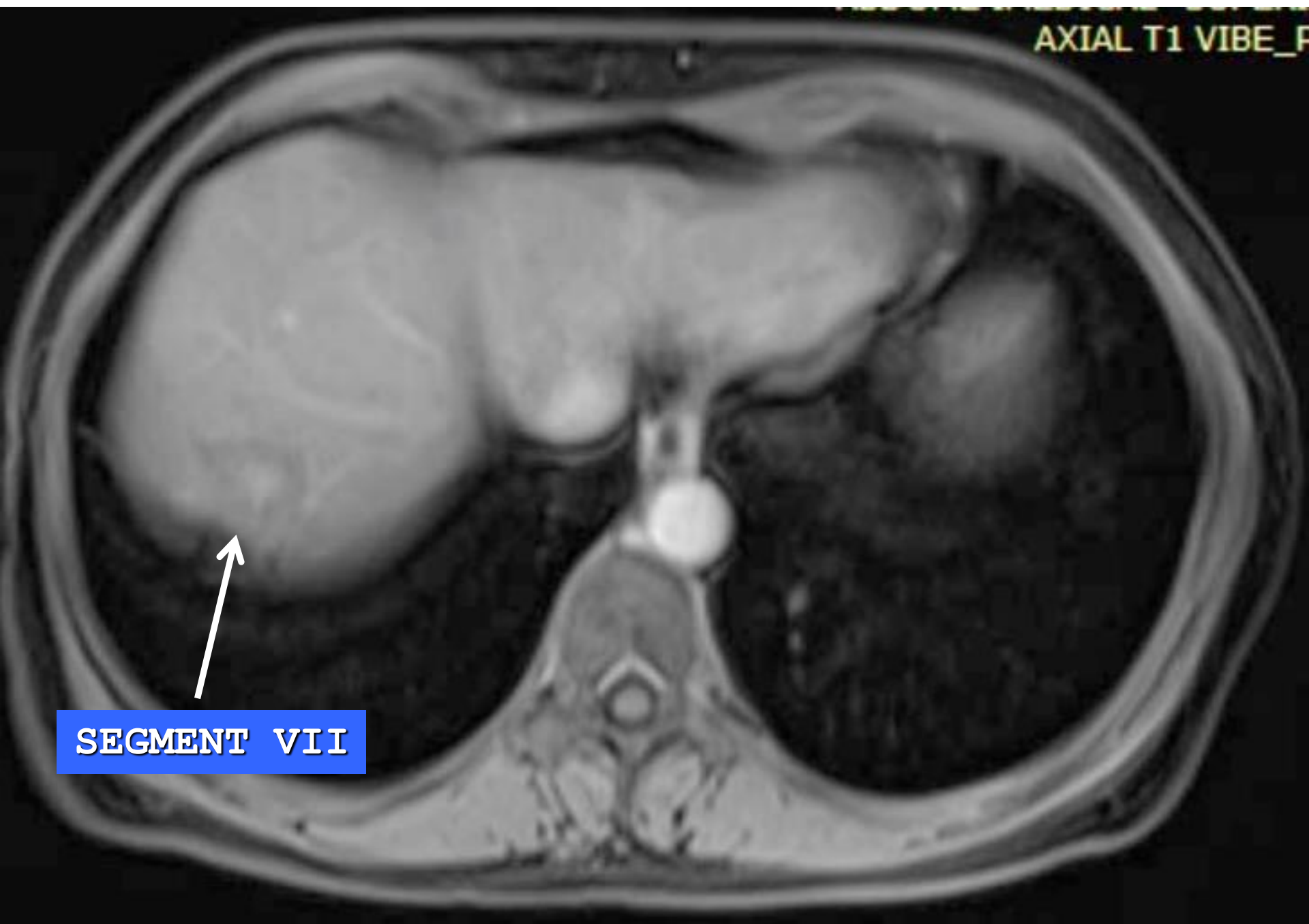


SEGMENT VIII

AXIAL T1 VIBE_F



AXIAL T1 VIBE_F



SEGMENT VII

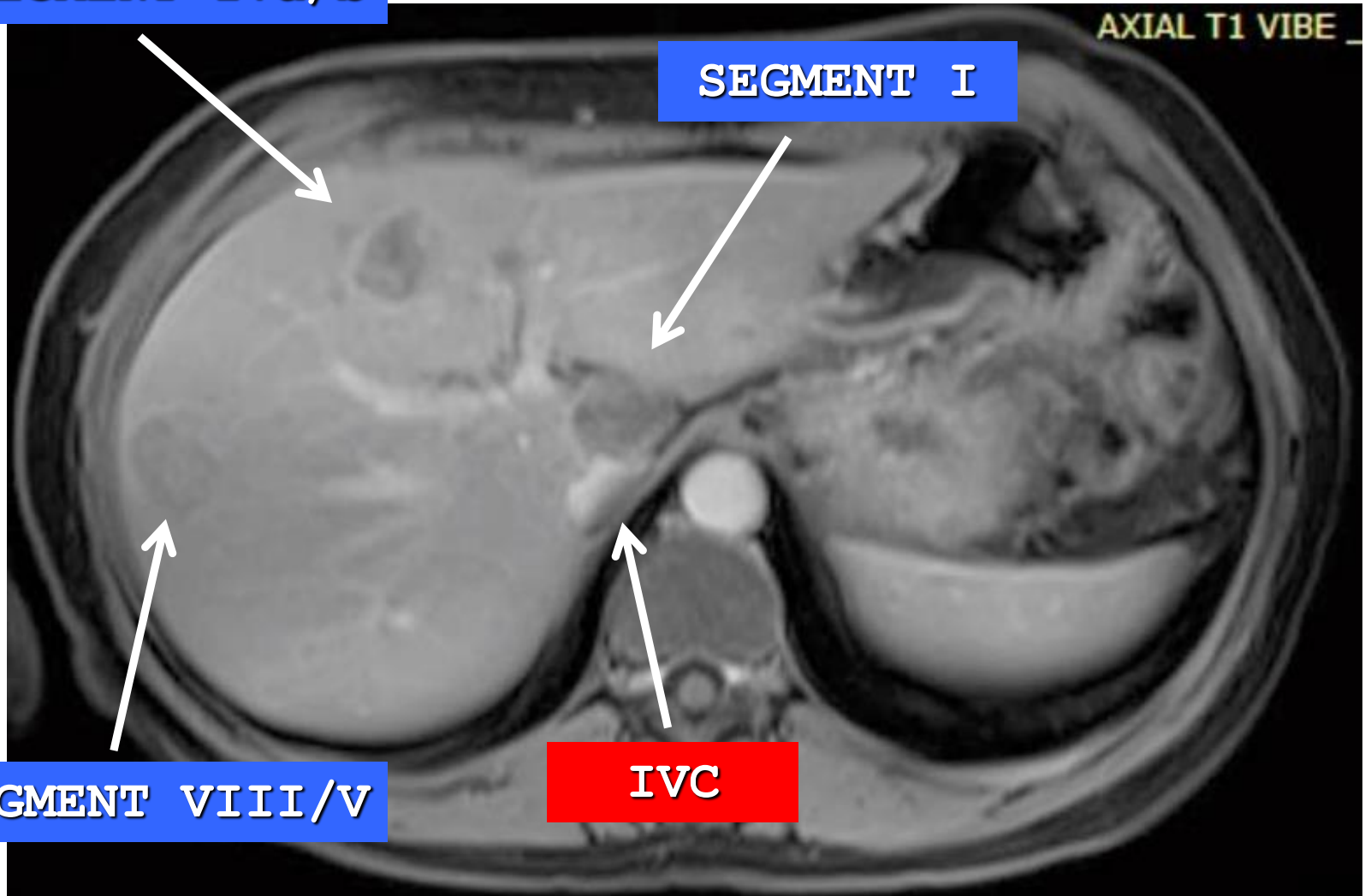
SEGMENT IVa/b

AXIAL T1 VIBE

SEGMENT I

SEGMENT VIII/V

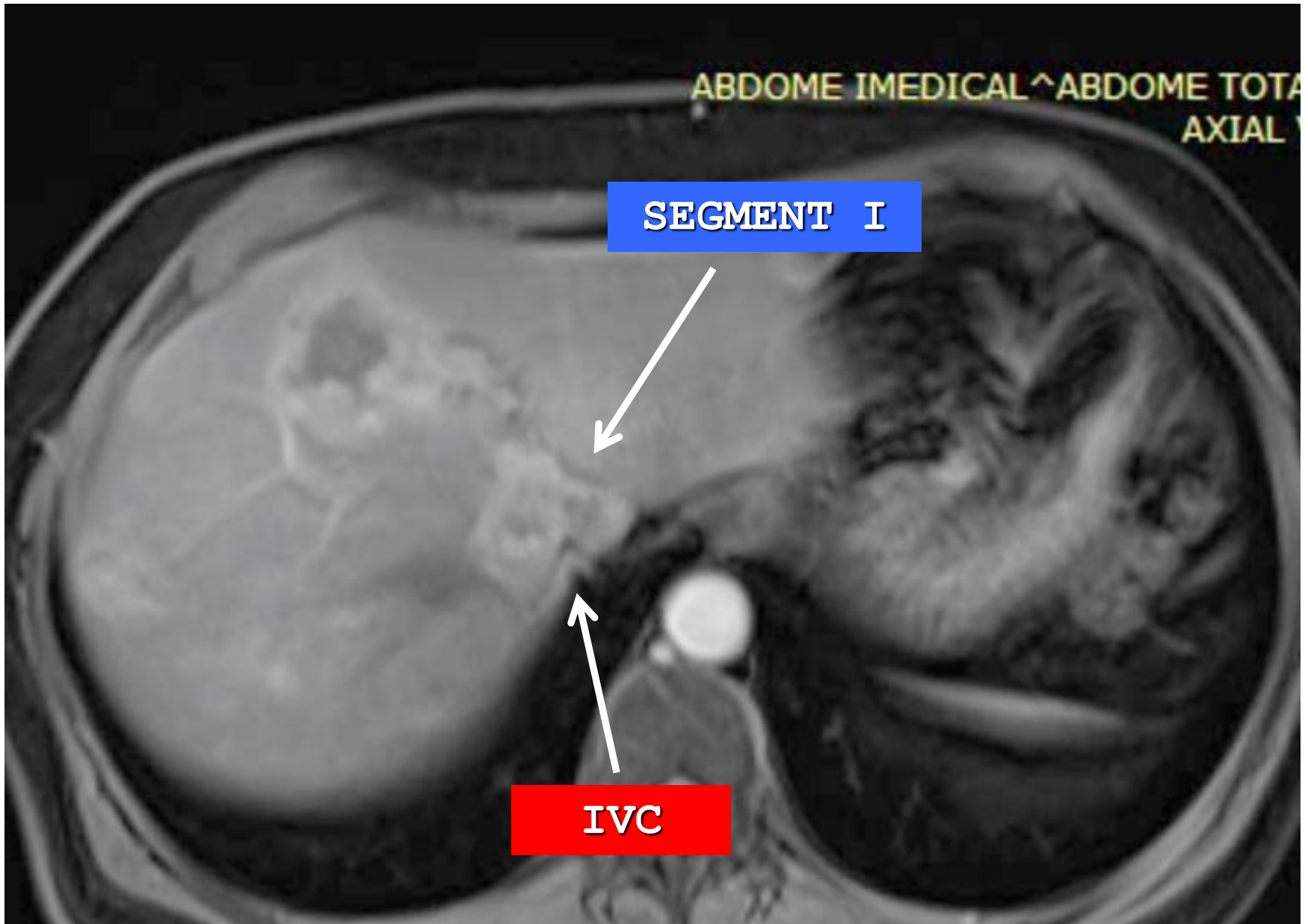
IVC



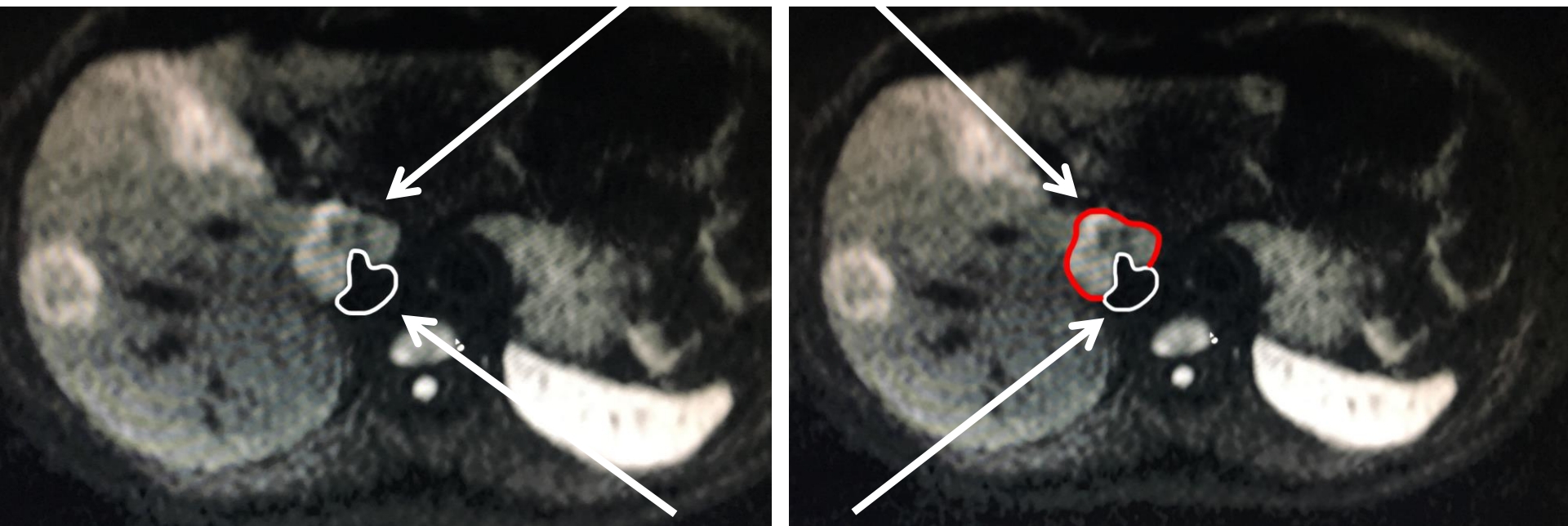
ABDOME IMEDICAL^ABDOME TOTAL
AXIAL

SEGMENT I

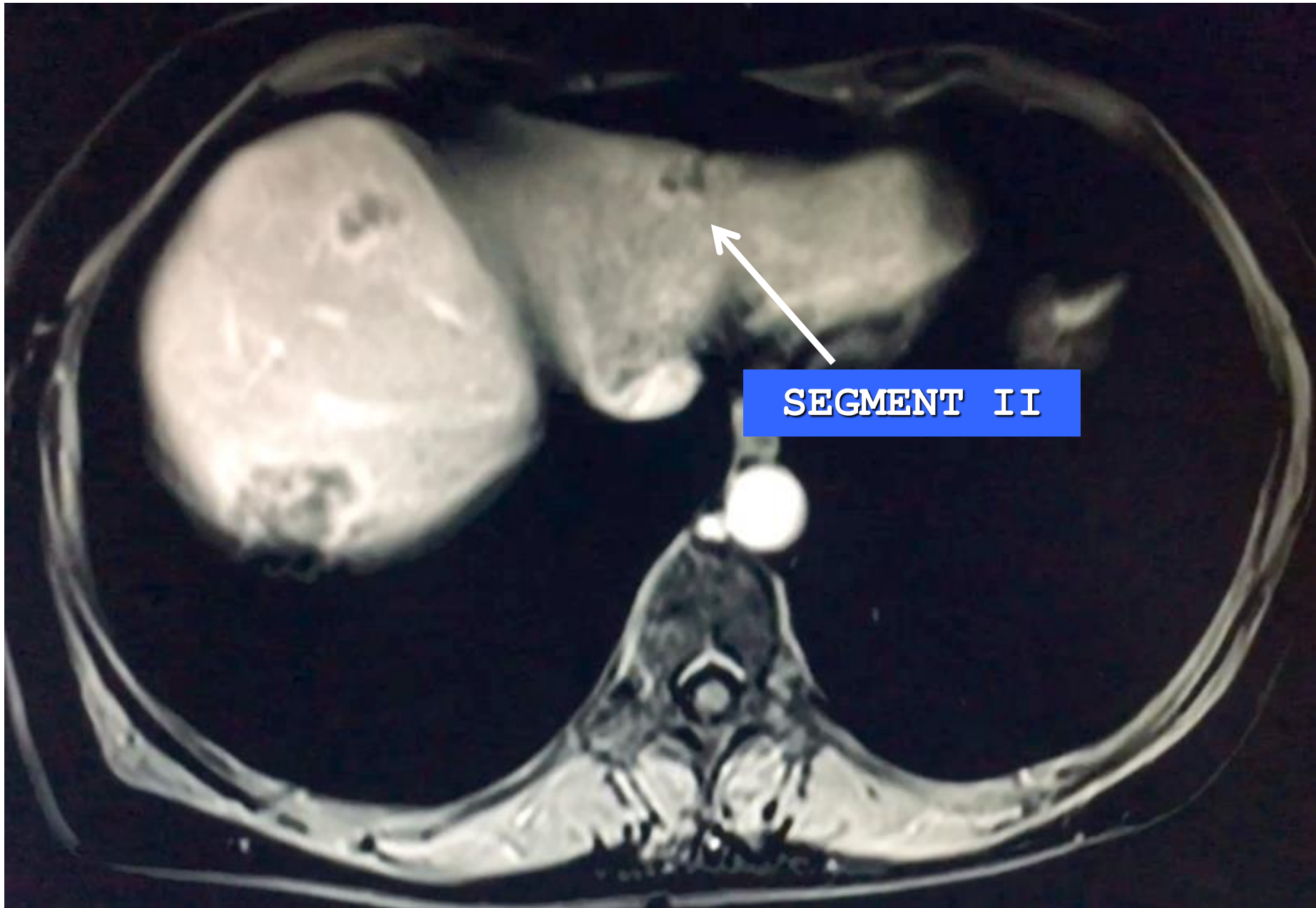
IVC

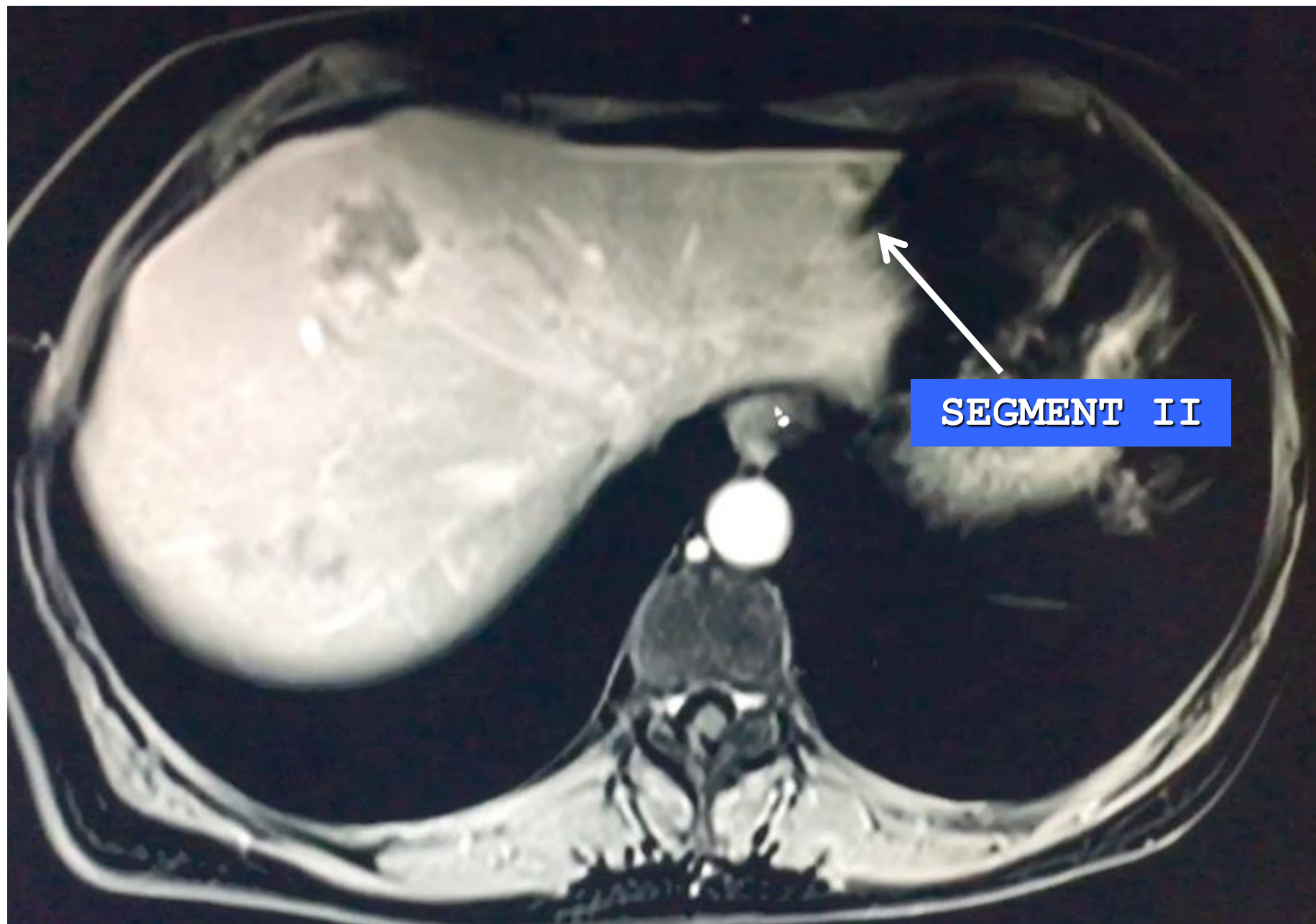


SEGMENT I

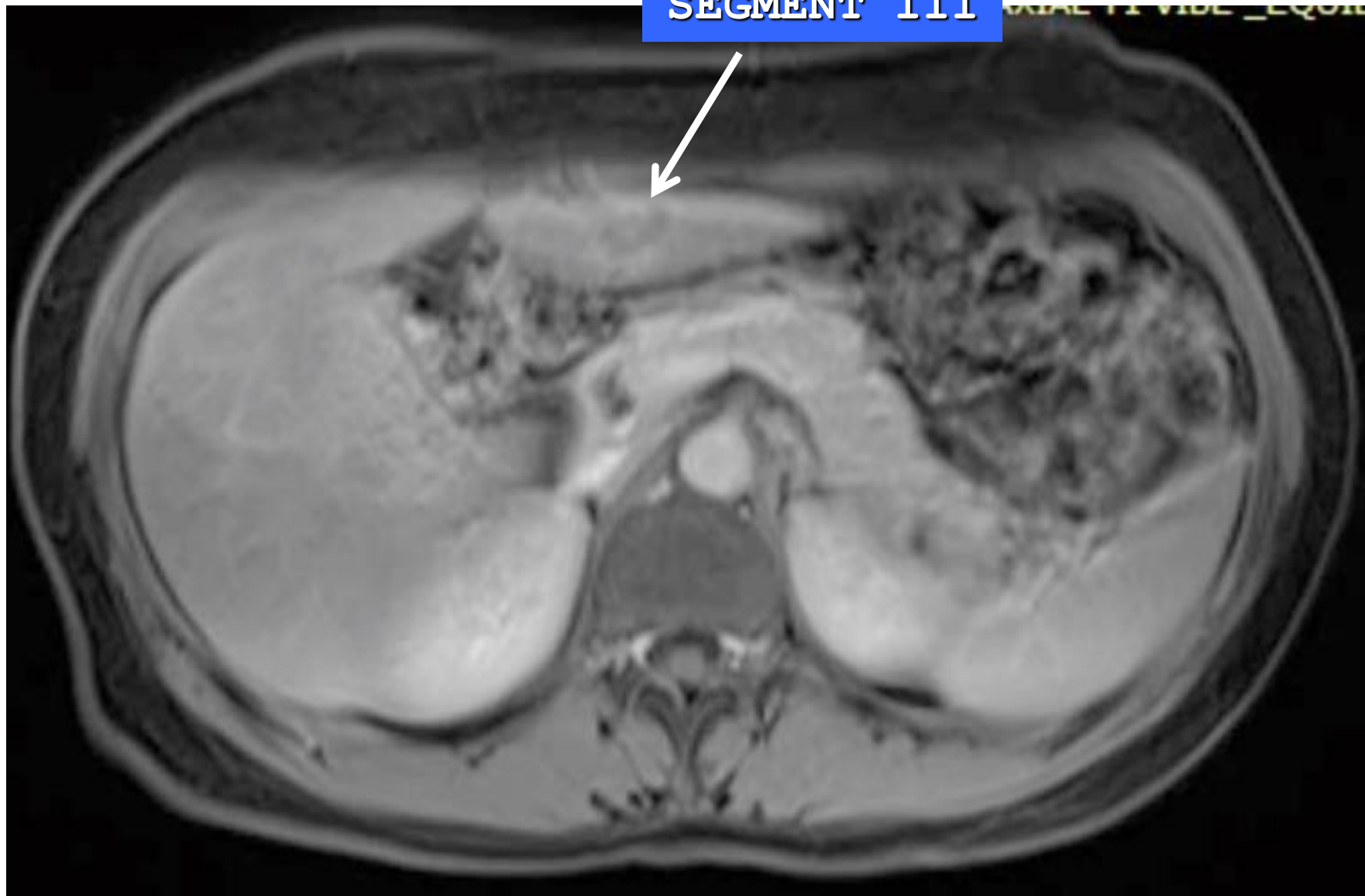


IVC





SEGMENT III



MRI

Stable disease

CEA

☐ Before chemotherapy

CEA - 142 ng/L

☐ After chemotherapy

CEA - 3.2 ng/L

Question

- ☐ Best supportive care
- ☐ Portal vein embolization
- ☐ Resection
- ☐ More chemotherapy
- ☐ Volumetry

VOLUMETRY

☐ Liver 865.5 ml
☐ FLR 204.2 ml

Segments 2/3

FLR 23.6%

LIVER
VISION 

Name

Gender, Age

F, 052Y, 14373558

Date

30.11.2019

Liver View

Serie/s View

Liver

Liver :865.5 ml

Cut Liver :649.4 ml / %75.0

FLR :204.2 ml / %23.6

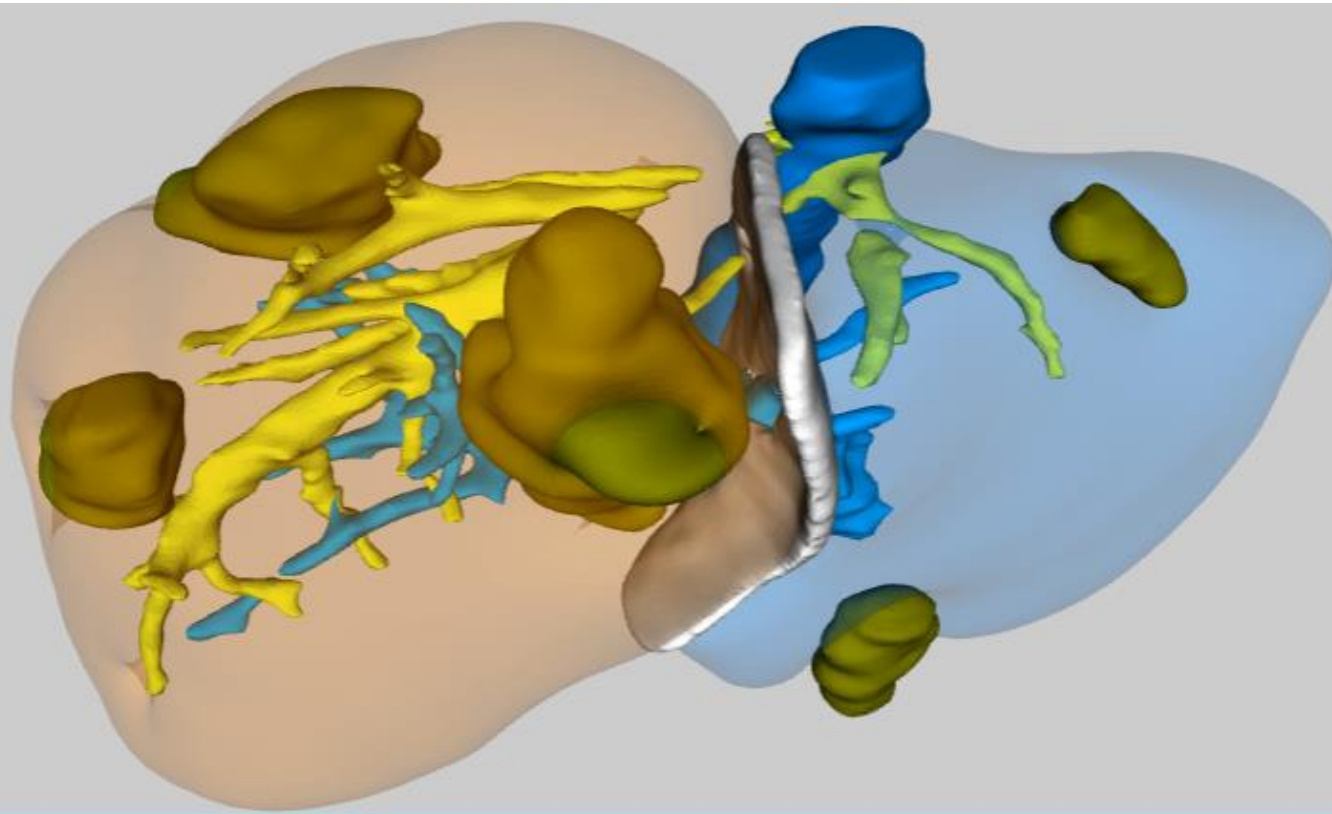
Courtesy: Prof. Deniz Balci (Ankara – Turkey)

VOLUMETRY

☐ Liver 865.5 ml
☐ FLR 204.2 ml

Segments 2/3

FLR 23.6%



LIVER
VISION

Name

Gender, Age

F, 052Y, 14373556

Date

30.11.2019

Liver View



Serie/s View

Liver

Liver :865.5 ml



Cut Liver :649.4 ml / %75.0



FLR :204.2 ml / %23.6



Courtesy: Prof. Deniz Balci (Ankara – Turkey)

RESECTION

□ Type of resection

One stage

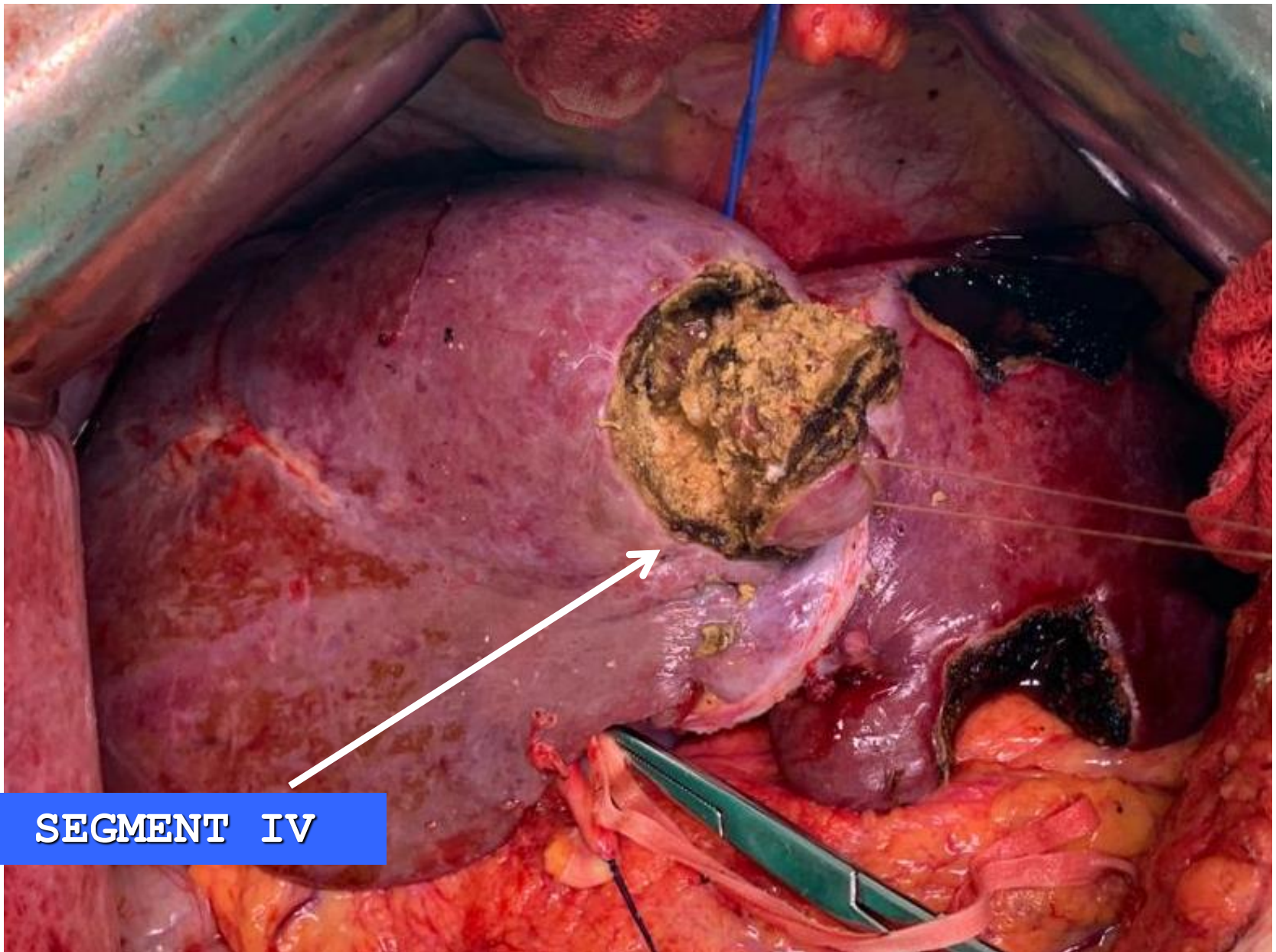
Two stage

ALPPS

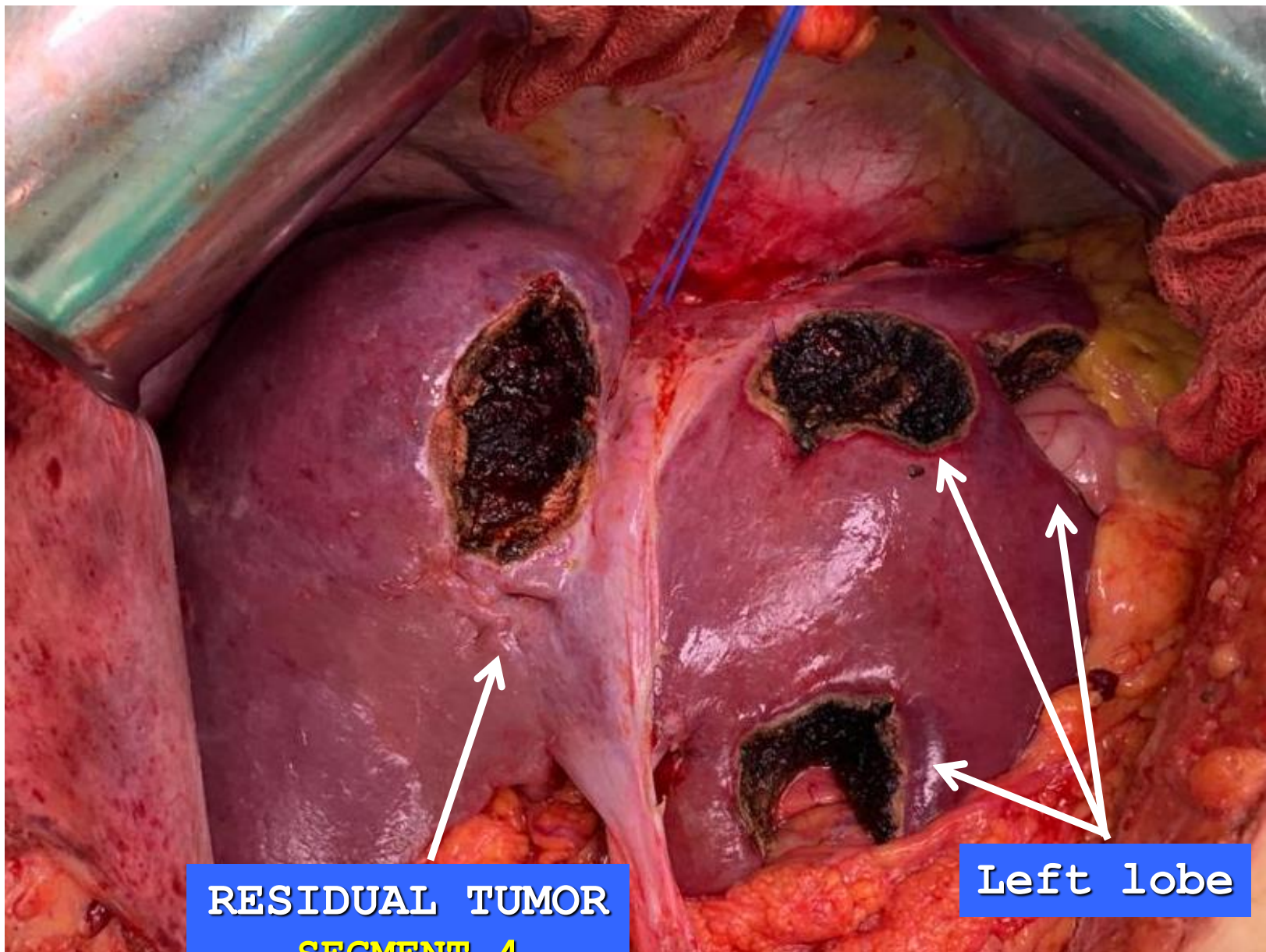
Combined procedure:

RFA

Microwave

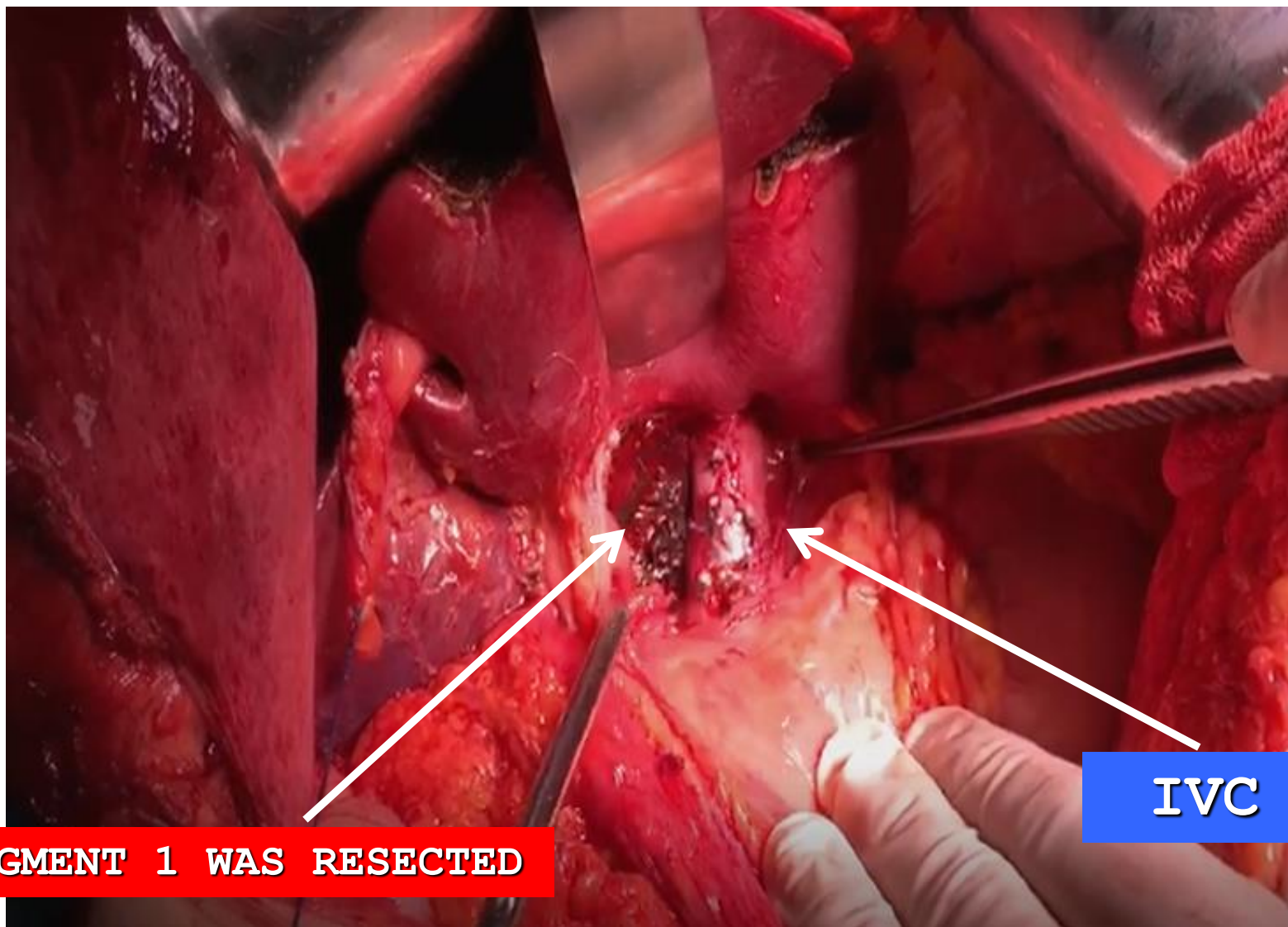


SEGMENT IV



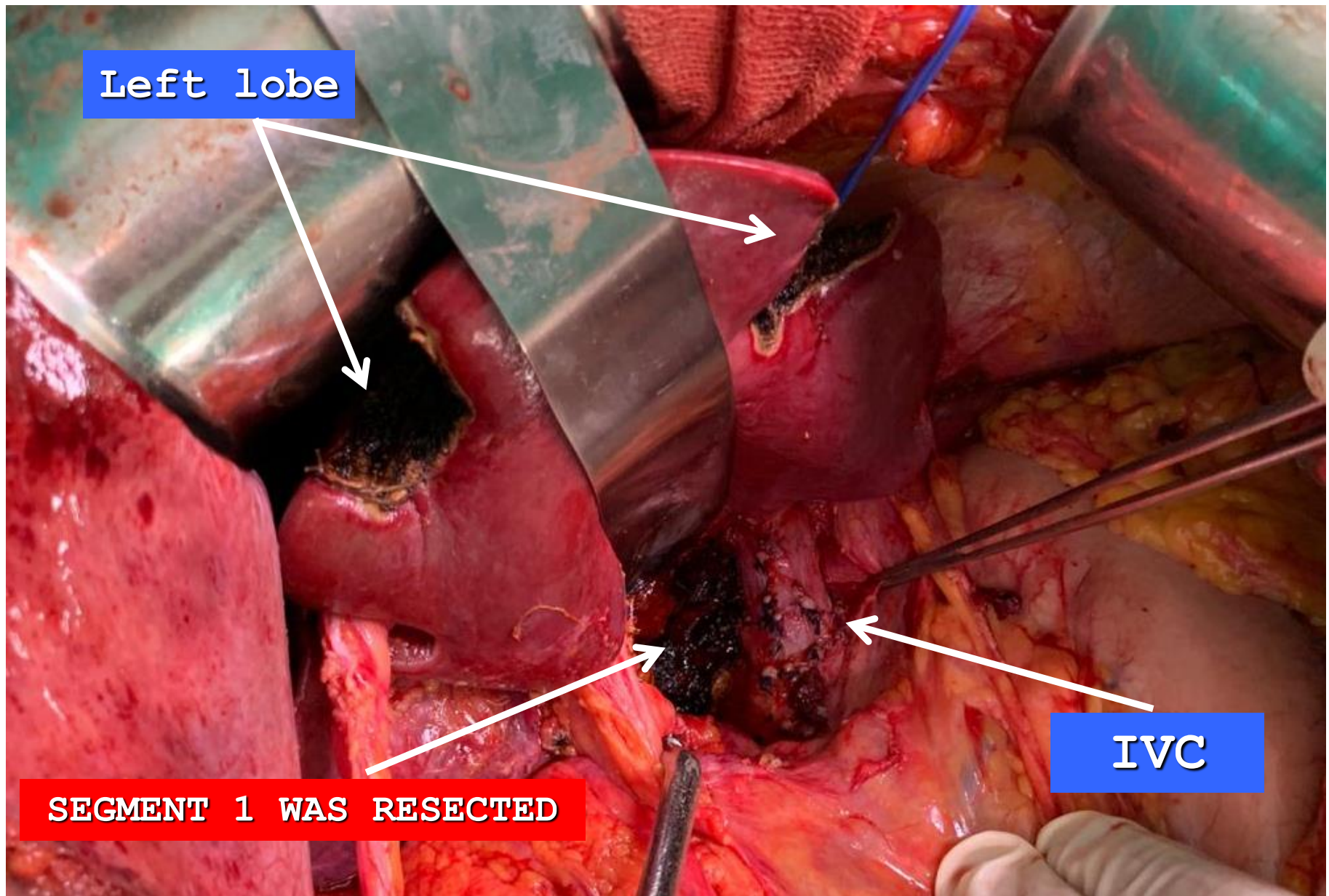
RESIDUAL TUMOR
SEGMENT 4

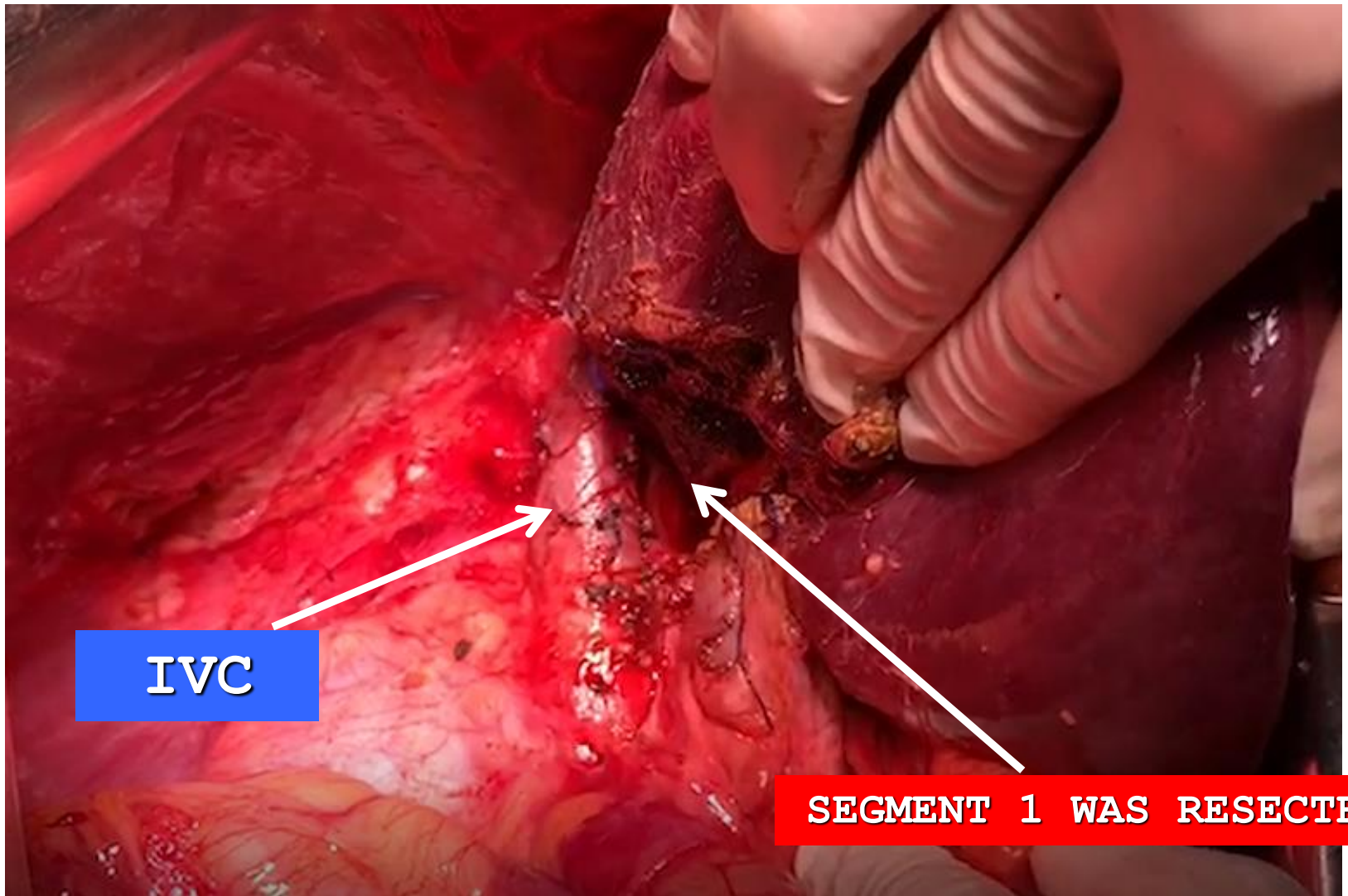
Left lobe

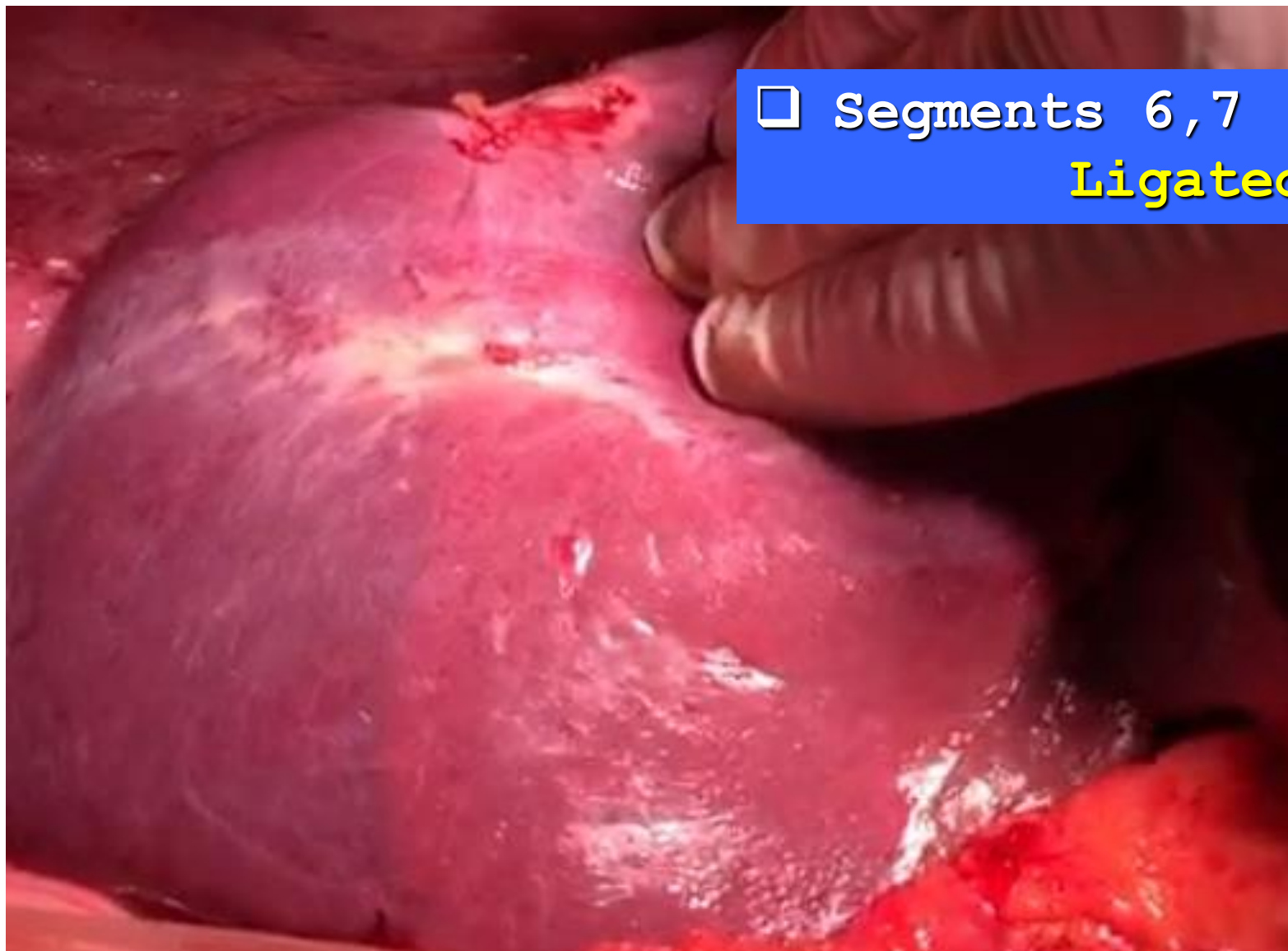


SEGMENT 1 WAS RESECTED

IVC







□ Segments 6,7
Ligated

After 4 weeks

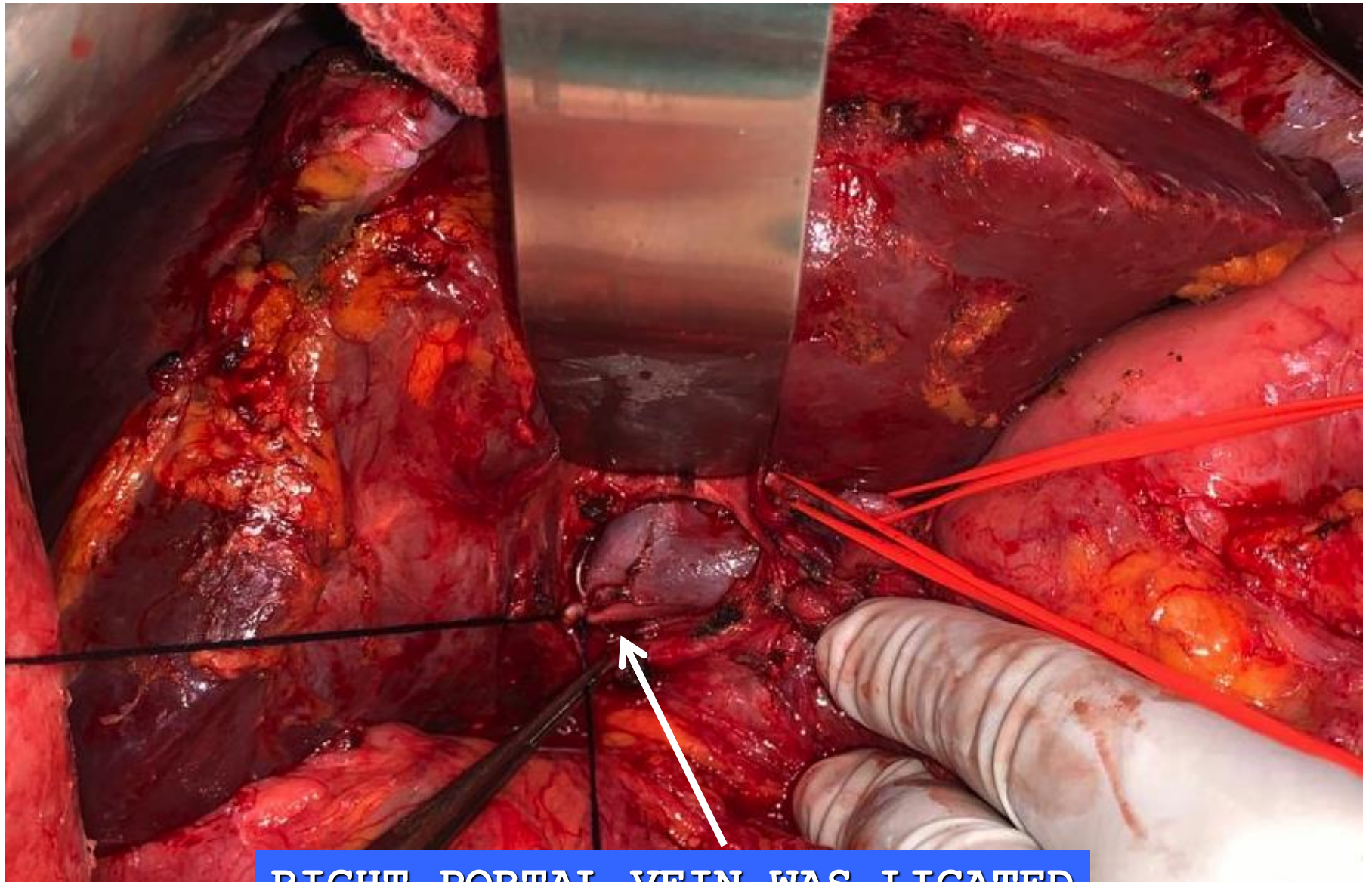


☐ Reoperation
ALPPS

☐ MANAGEMENT

ALPPS 1st Step

- ☐ RIGHT PORTAL VEIN LIGATION
- ☐ LIVER TRANSECTION (ALPPS)



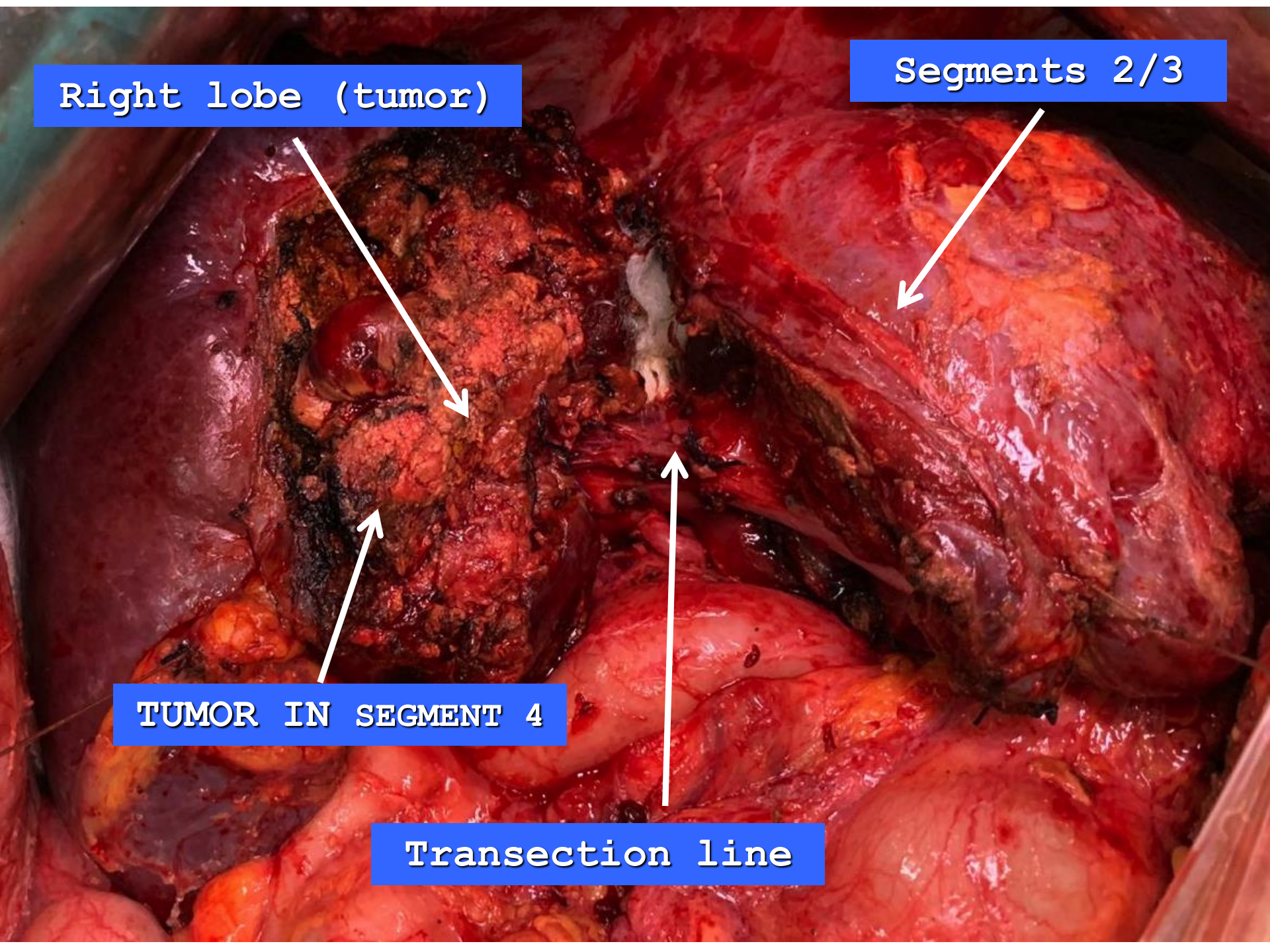
RIGHT PORTAL VEIN WAS LIGATED

Right lobe (tumor)

Segments 2/3

TUMOR IN SEGMENT 4

Transection line

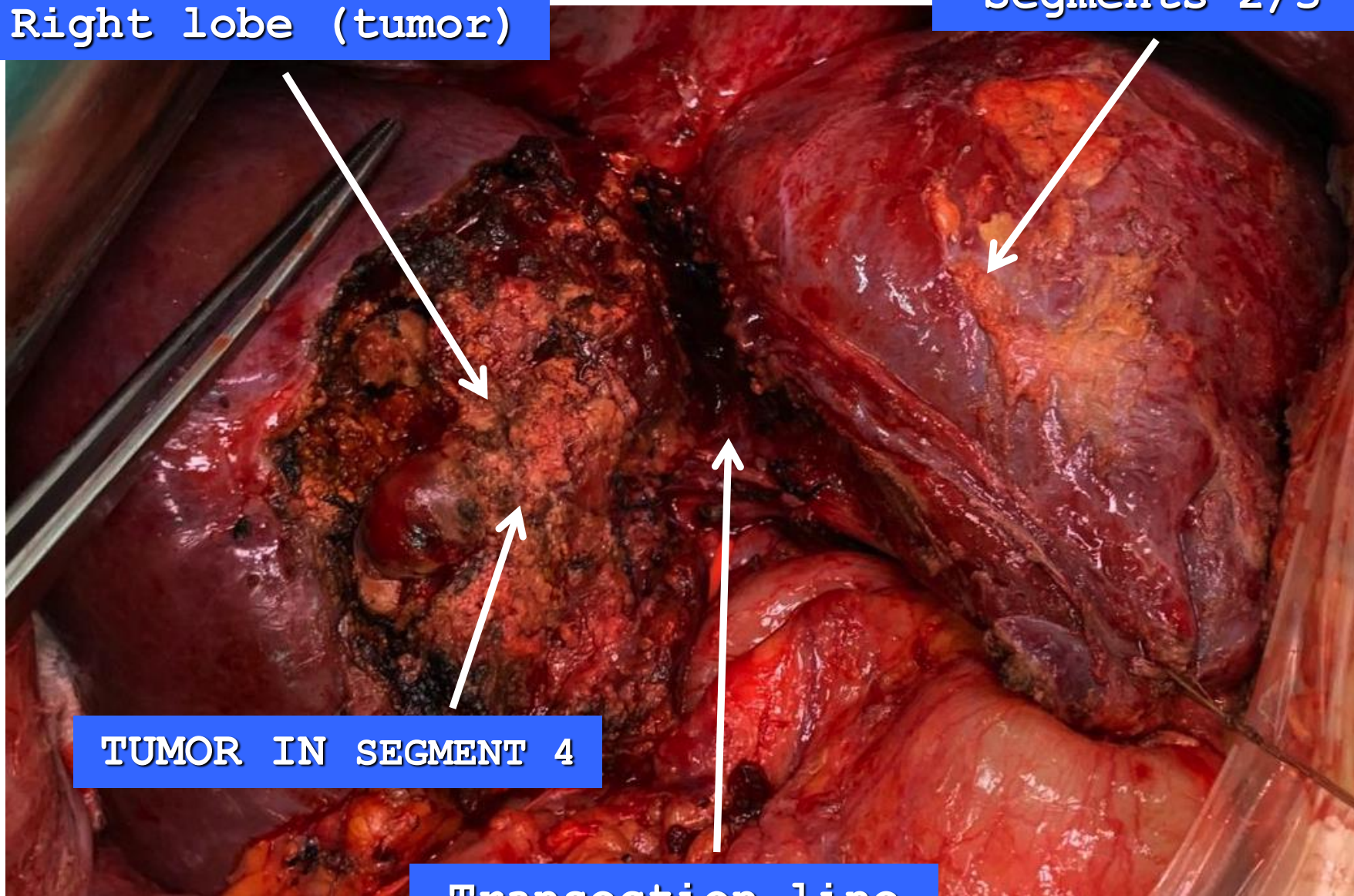


Right lobe (tumor)

Segments 2/3

TUMOR IN SEGMENT 4

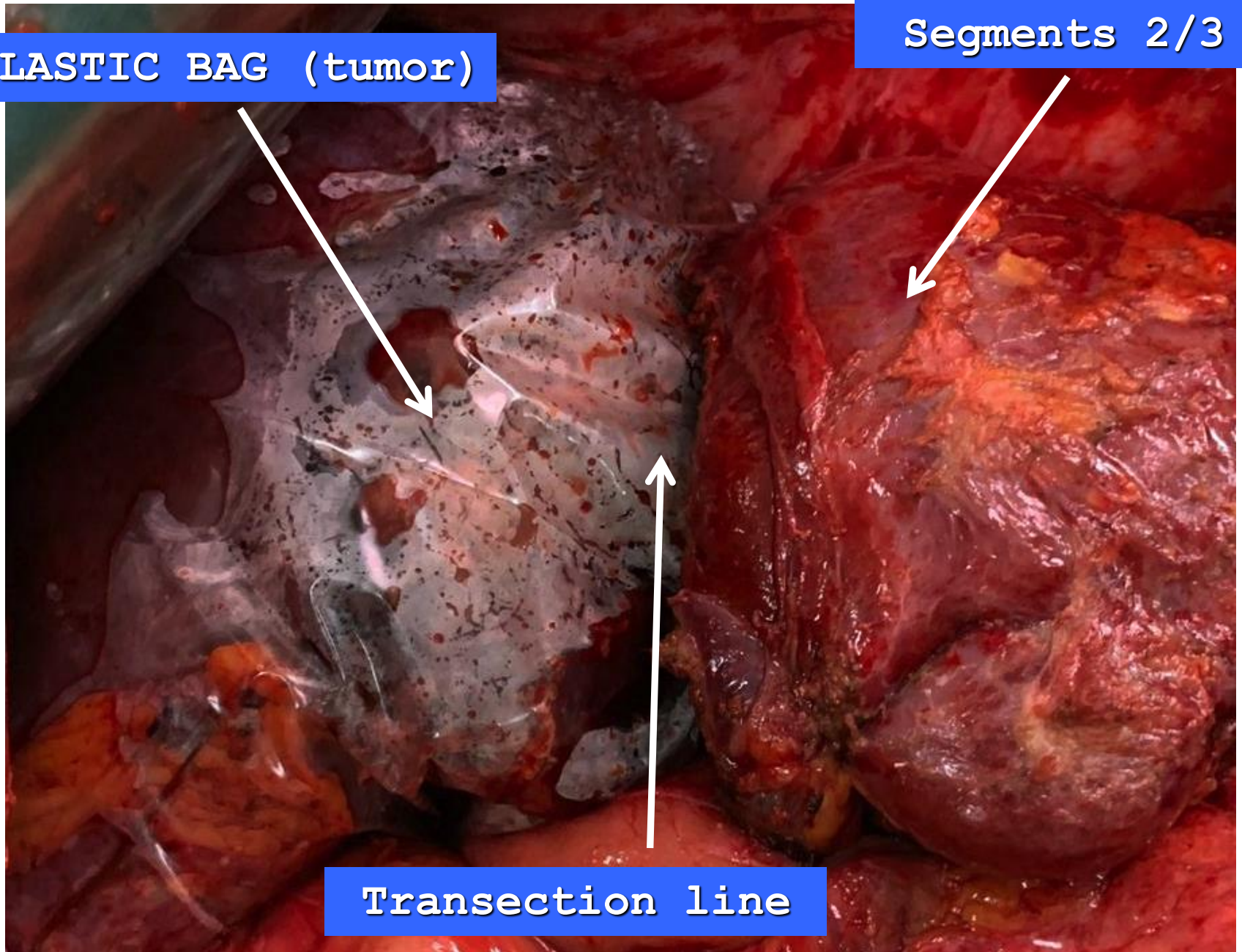
Transection line



PLASTIC BAG (tumor)

Segments 2/3

Transection line



CT scan

- ☐ After 6 days
- ☐ Portal fase

□ CT scan after 6 days



□ CT scan after 6 days



□ CT scan after 6 days



□ CT scan after 6 days



□ CT scan after 6 days

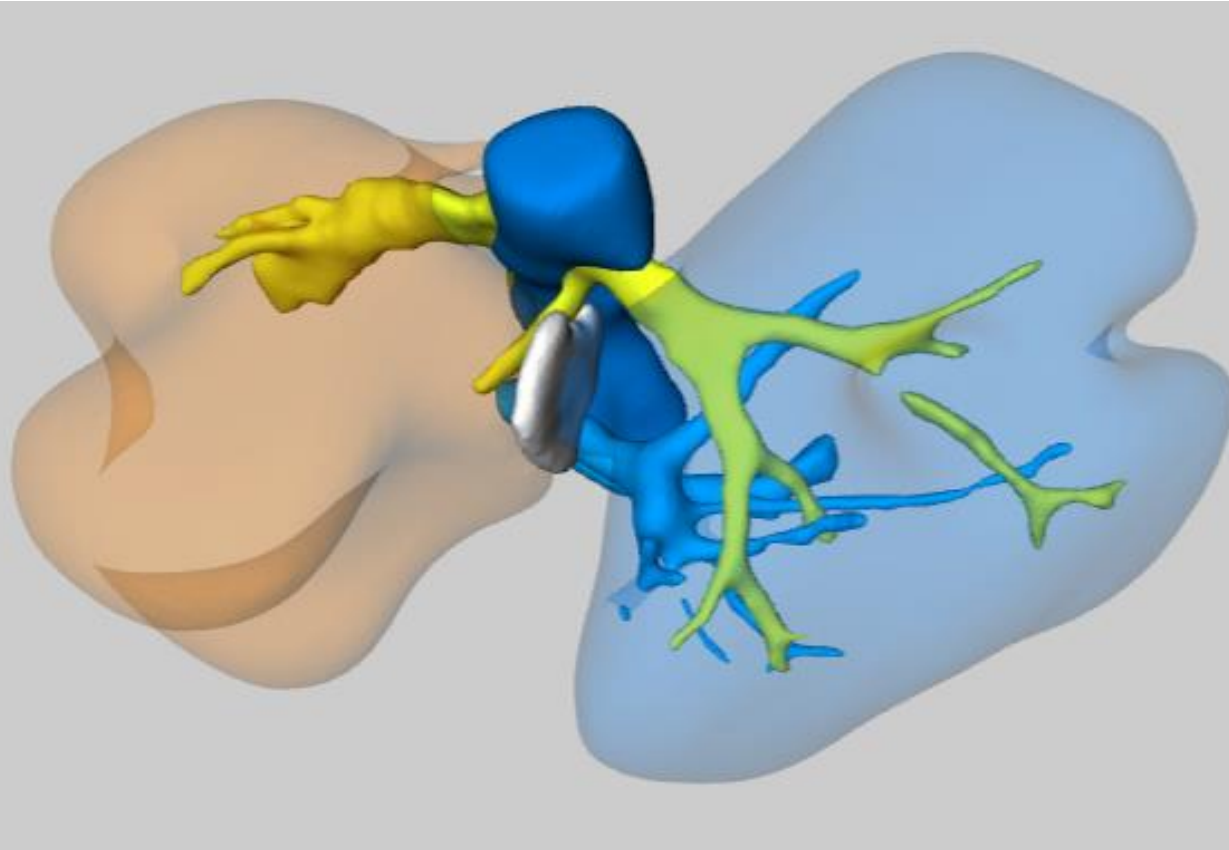


VOLUMETRY

☐ Liver 915.8 ml
☐ FLR 477.8 ml

Segments 2/3

FLR 52.2%



LIVER VISION 

Name

Gender, Age

Date

Liver View ☐

Liver :915.8 ml ☐

Cut Liver :434.8 ml / %47.5 ☒

FLR :477.8 ml / %52.2 ☒

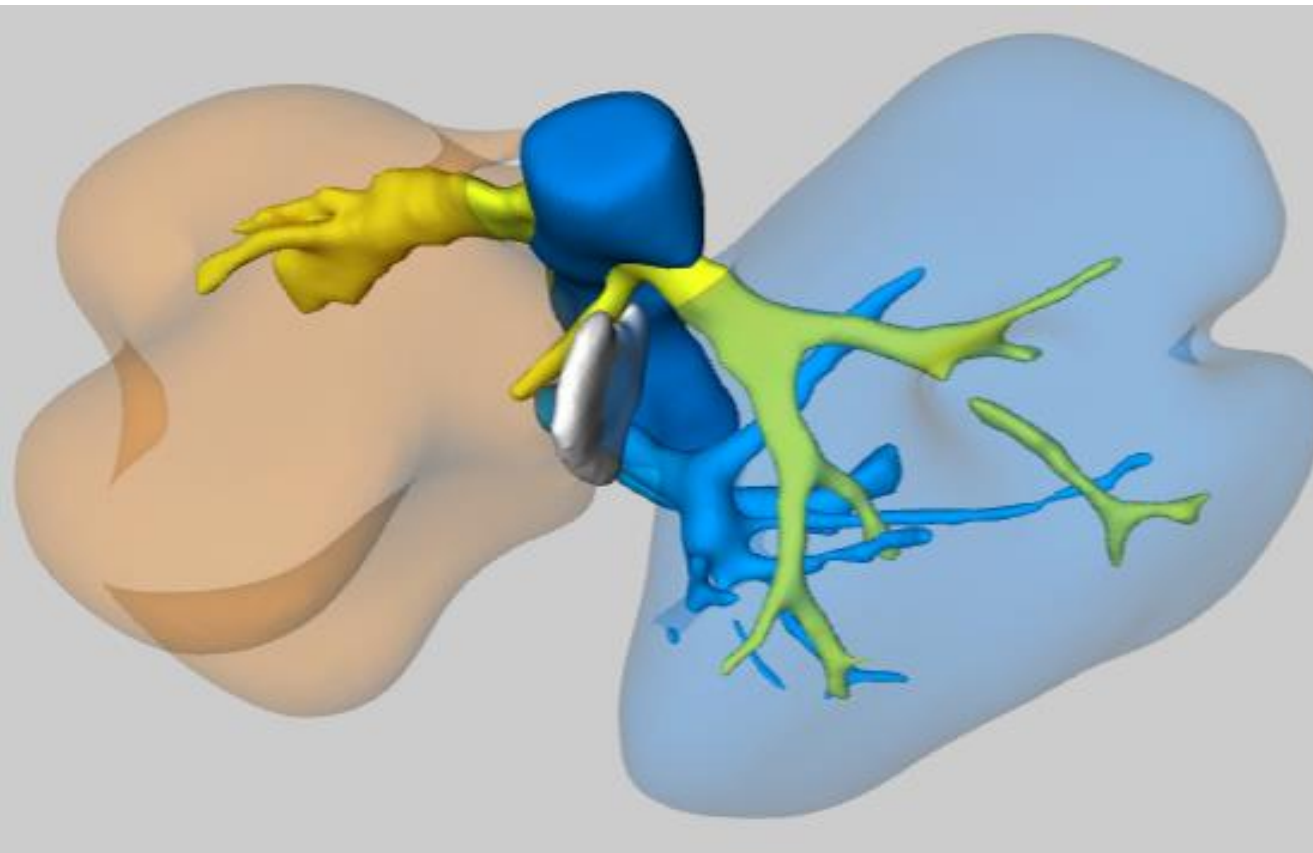
Courtesy: Prof. Deniz Balci (Ankara – Turkey)

VOLUMETRY

☐ Liver 915.8 ml
☐ FLR 477.8 ml

Segments 2/3

FLR 52.2%



LIVER VISION

Name

Gender, Age **F , 052Y, 14373556**

Date **18.01.2020**

Liver View ☐

Liver :915.8 ml ☐

Cut Liver :434.8 ml / %47.5 ☒

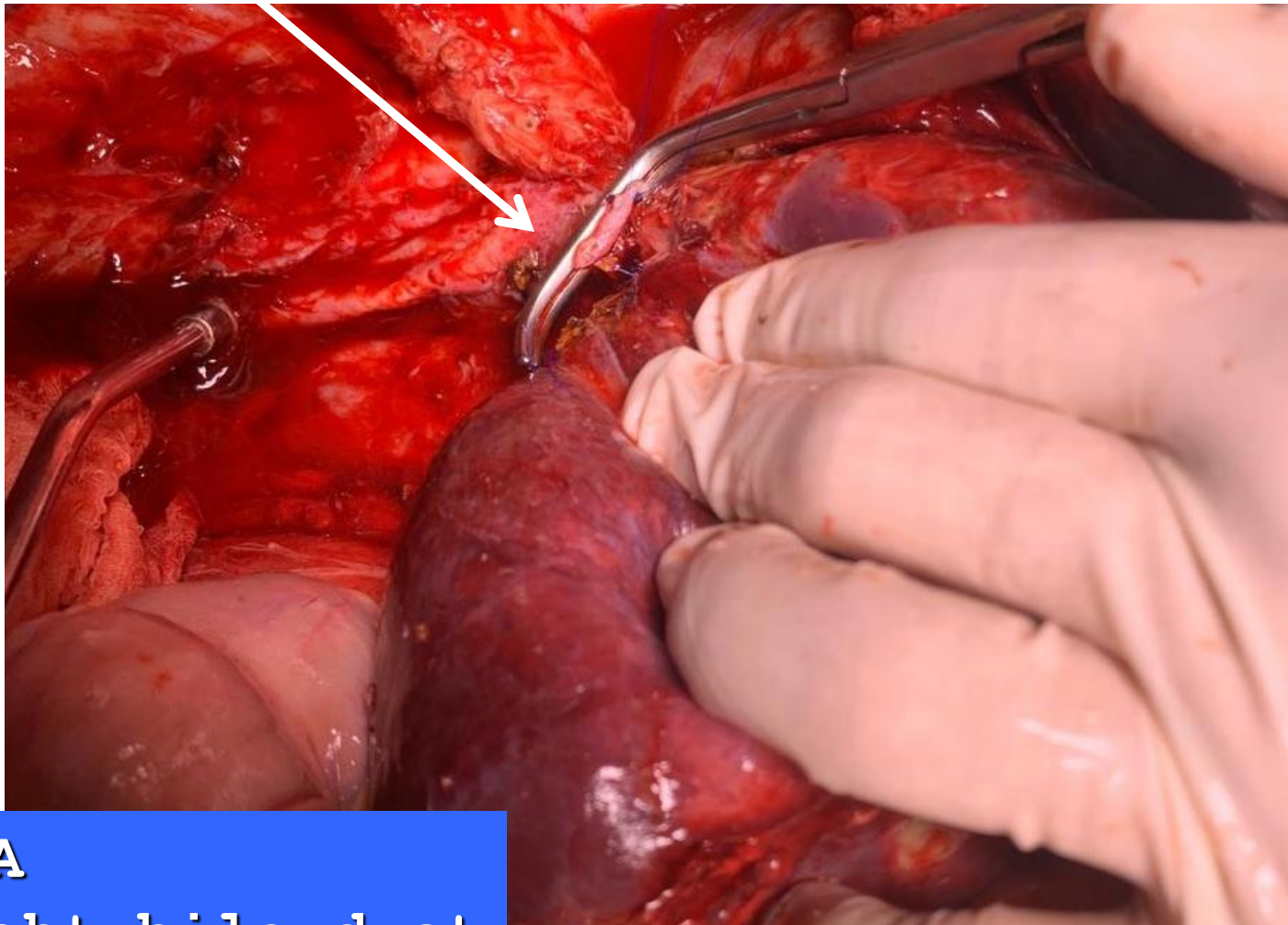
FLR :477.8 ml / %52.2 ☒

Courtesy: Prof. Deniz Balci (Ankara – Turkey)

ALPPS 2nd STEP

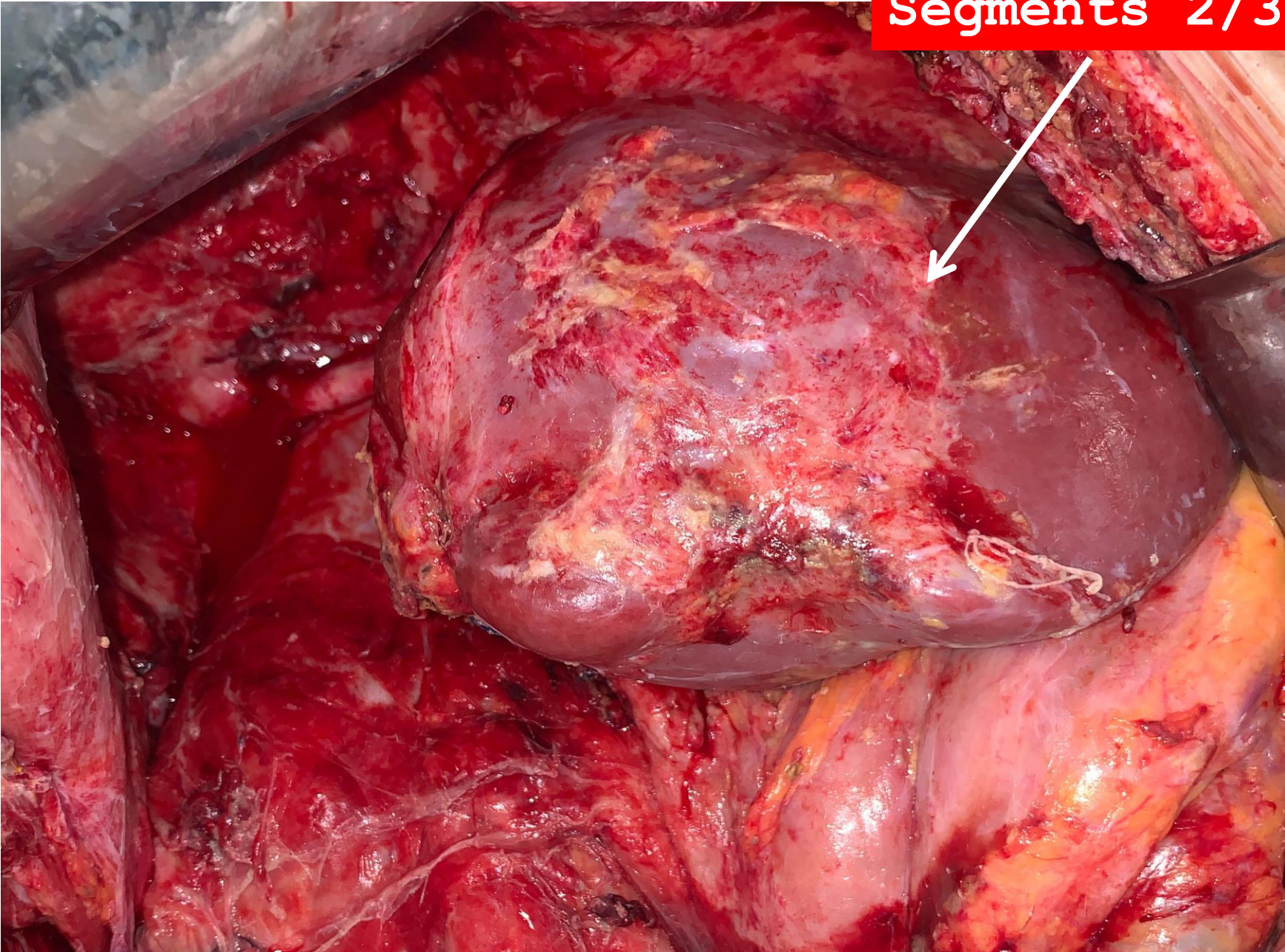
□ 7 days after step 1

RHV

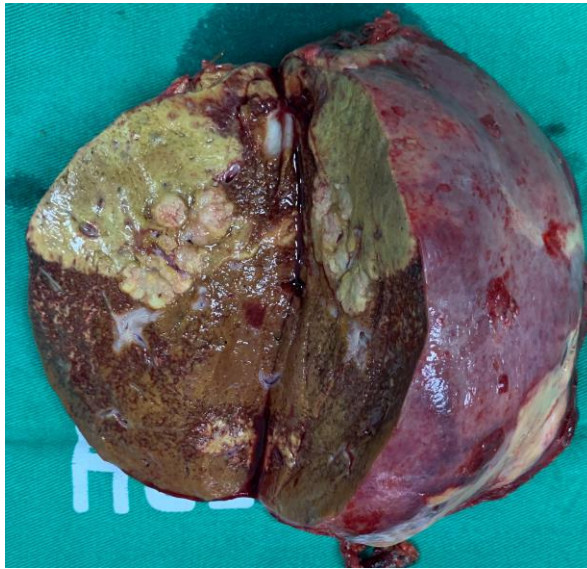
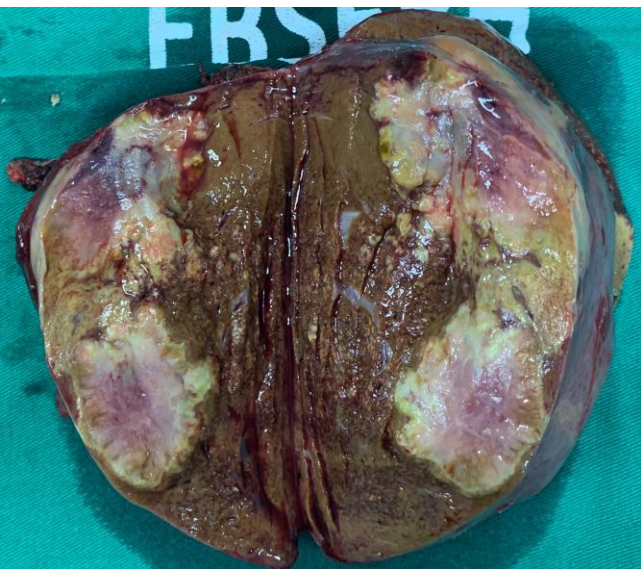


- ☐ RHA
- ☐ Right bile duct





□ SPECIMEN



SEGMENT IV

POSTOPERATIVE COURSE

- ☐ ICU 3 DAYS
- ☐ NO COMPLICATIONS $\geq 3b$ (Clavien-Dindo)
- ☐ LENGTH OF STAY 12 days

☐ CHEMOTHERAPY



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Obrigado!

Thanks!

Gracias!

