Case report

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1st Case  OLT for HCC

48 year old male

Liver cirrhosis CHILD A

Hepatitis B: known since 15 years (1993)
 HBs antigen carrier without replication
 NO treatment (only lamivudine available)

Co-morbidities: MI February 2002
 Kidney transplantation July 2004
1st Case  OLT for HCC

June 2007:
- Increased Virus load > 30,000 IU
- HCC suspected tumor segment V/VI; 2.7 cm
- AFP 1.8 µg/l
1st Case  OLT for HCC

Bridging Therapy

June 2007: Start with Telbivudine (Sebivo) Therapy
Dosage: 600 mg daily
-- Virus not detectable

July 2007: Wedge resection
segment V/VI

Histopathology:
HCC of 2.6 cm
No microvascular invasion
1st Case

OLT for HCC

Patient at risk for tumor development:

• chronic Hepatitis B
• under immunosuppression after kidney transplantation
• familial disposition (brother also HCC)

Decision December 2007:

Listing Patient for Liver Transplantation
1st Case  OLT for HCC

MRI - before transplant

NO suspected HCC recurrence
June 2008: OLT

*Histopathology:*
No tumor

*Hepatitis B treatment post transplant:*
Hepatect - Dosage: 10,000 IE / 12 weeks + Telbivudine
HBV DNA negative
1st Case

OLT for HCC

Last follow up: January 2011

52 year old male in good general conditions

NO Hep B and HCC recurrence 2.5 years after OLT
2nd Case

OLT for HCC

42 year old male

Liver cirrhosis CHILD A

Hepatitis B: known since 6 years

Liver biopsy 2 years ago: mild active Hepatitis B with portal fibrosis and coinfection with Hepatitis D

Therapy: alpha Interferon 3x9 Mio units s.c.

Interruption of treatment after 2 weeks due to severe side effects
July 2007:

- Liver cirrhosis CHILD B, 8 Points
- uncorrected MELD Score 13

suspicion of HCC Segment VII

AFP 112.4 µg/l

CT arterial phase
2nd Case  OLT for HCC

Bridging Therapy

August 2007: TACE with Doxorubicin

Listing patient for liver transplantation

Looking for potential living donor
2nd Case  OLT for HCC

CT scan - 8 weeks after the intervention

complete embolisation

native phase  arterial phase
2nd Case  OLT for HCC

January 2008:

Living donor liver transplantation

Right liver lobe; 3 veins

Histopathology of the explanted liver:
Nodule of 1.2 cm - completely necrotic
No microvascular invasion
2nd Case  OLT for HCC

Last follow up: December 2010

45 year old male in good general conditions
NO Hepc B and HCC recurrence 3 years after LDLT

Hepatitis B Treatment post transplant:
Hepatect 10,000 IE/12 weeks +
Lamivudine
Thank you
1st Case  OLT for HCC

69 year old male, 81 kg

Liver cirrhosis CHILD A

Hepatitis C: known since 5 years

treated by Peginterferon and Ribavirin
(responder)

2005 Sept.  AFP 313 µg/l
1st Case  OLT for HCC

CT scan arteriost phase

Liver segment IVa inhomogen, hypodense lesion of 1.7 cm
1st Case  OLT for HCC

Bridging Therapy

January 2006

TACE with Doxorubicin

Liver Segment IV

February 2006

RFA

Patient included into a study, therefore
1st Case  OLT for HCC

CT scan - 8 weeks after the intervention
1st Case  OLT for HCC

February 2006
Listing patient for liver transplantation

October 2006

Histopathology of the explanted liver:
OLT
Nodule of 2.3cm – completely necrotic
No microvascular invasion

Postoperative uneventful course
Length of hospital stay: 13 days
1st Case

OLT for HCC

Last follow up: November 2010

69 year old male in good general conditions
NO Hep C and HCC recurrence 4 years after OLT
46 year old female, kg

Liver cirrhosis CHILD A

Hepatitis C: known since 11 years due to transfusion after cesarean; NO medical treatment

2000 Nov. 1st decompensation spontaneous bacterial peritonitis
2nd Case  OLT for HCC

November 2000 - February 2002

regular ambulant follow up - liver function stable

March 2002

CHILD B: 12 points

Decision: Listing patient for liver transplantation
2nd Case OLT for HCC

December 2004

Patient still on waiting list

On regular controls:

- AFP > 50 yg/l
- New lesions suspicious for HCC in segment VII

January 2005

TACE with Doxorubicin

Liver Segment VII - single lesion 15 mm
2nd Case

OLT for HCC

September 2005

Liver segment VII
Hypointense necrotic lesion after TACE

Lesion suspicious for HCC

MRI
2nd Case

OLT for HCC

October 2005

TACE with Doxorubicin

Liver Segment III

November 2005

Histopathology of the explanted liver:

OLT

Two nodules of 2.3cm and 0.8 cm – completely necrotic
No microvascular invasion
2nd Case  OLT for HCC

Last follow up: October 2010

55 year old female in good general conditions
NO Hepc C and HCC recurrence 5 years after OLT
Thank you