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Name of Journal: *World Journal of Hepatology*

Manuscript NO: 61113

Manuscript Type: CASE REPORT

Two-stage hepatectomy with radioembolization for bilateral colorectal liver metastases: A case report

Radioembolization in two-stage hepatectomy

Abstract

BACKGROUND

Two-stage hepatectomy (TSH) is a well-established surgical technique, used to treat bilateral colorectal liver metastases (bCRLM) with a small future liver remnant (FLR). However, in classical TSH, drop-out is reported to be around 25%-40%, due to insufficient FLR increase or progression of disease. Trans-arterial radioembolization (TARE) has been described to control locally tumor growth of liver malignancies such as hepatocellular carcinoma, but it has been also reported to induce a certain degree

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Short and long term outcomes of our two patients were reported along with a review of data from the literature. Our patients showed a FLR increase from 13% to 37% and from 14% to 41% of total liver volume, respectively. This was compared to a median growth from 19% at baseline to 34% before stage 2, in the literature.

Cited by: 3

Author: Fiammetta Soggiu, Francesco Giovinnazz...

Publish Year: 2018

[Safety of Redo Hepatectomy for Colorectal Liver Metastases ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3971541>

The liver is the most common site of metastatic spread in colorectal cancer (CRC). Approximately half of patients experience liver metastases during the course of their disease [2, 3]. Liver metastases from colorectal cancer are the main cause of morbidity and mortality among this patient group .

Author: Kyriakos Neofytou, Harpreet Wasan, ... Publish Year: 2014

[Two-Stage Hepatectomy: A Planned Strategy to Treat ...](#)

<https://www.researchgate.net/publication/25217157...>

Since Adam et al. reported the first series on two-stage hepatectomy in patients with initially unresectable colorectal liver metastasis, several studies have suggested that two-stage hepatectomy

...

[Repeat hepatectomy for liver metastases from colorectal ...](#)

<https://www.sciencedirect.com/science/article/pii/S1878788612000021>

Apr 01, 2012 · The purpose of this study is to report a comprehensive review of the literature concerning the results of repeat hepatectomy for recurrent liver metastases from CRC. Methods An electronic literature search was conducted to identify all medical articles published concerning repeat hepatectomy for liver metastases of colorectal origin during the ...

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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3971541>

2. **Case Report.** Our patient, a 63-year-old man, was initially diagnosed with an adenocarcinoma of the sigmoid **colon** 4 years ago. His staging CT scan showed the presence of unilobar synchronous **liver metastases** but no evidence of extrahepatic disease.

Author: Kyriakos Neofytou, Harpreet Wasan, Sa... **Publish Year:** 2014

[PDF] ALPPS versus two-stage hepatectomy for colorectal liver ...

<https://wjso.biomedcentral.com/track/pdf/10.1186/s12957-020-01919-3>

RESEARCH Open Access ALPPS versus two-stage **hepatectomy** for **colorectal liver metastases**—a comparative retrospective cohort study Jan Bednarsch¹, Zoltan Czigany¹, Samara Sharmeen¹, Gregory van der Kroft¹, Pavel Strnad², Tom Florian Ulmer¹, Peter Isfort³, Philipp Bruners³, Georg Lurje^{1,4*†} and Ulf Peter Neumann^{1,5†} Abstract: Background: Associating **liver** partition and portal vein ...

A systematic review and meta-analysis of associating liver ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6485722>

Two-stage hepatectomy was introduced in the year 2000 for patients with **bilateral multinodular colorectal liver metastases**. The liver grows in the interval between sequential resection, and the risk of postoperative liver failure (PLF) is presumably reduced due to the staged approach.

Cited by: 6

Author: Yanmo Liu, Yinaxin Yana, Shenalong Gu, Ke...

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Hepatectomy may prolong the survival of **colorectal** cancer patients with **liver metastases**. Two-stage liver surgery is a valid option for the treatment of bilobar **colorectal liver metastasis**.

Two-stage strategy for patients with extensive bilateral ...

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Two-stage **hepatectomy** has been proposed for patients with **bilateral colorectal liver metastases**. The present study assesses the feasibility and outcome of **two-stage hepatectomy** for the treatment ...

Safety of Redo Hepatectomy for Colorectal Liver Metastases ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3971541>

2. **Case Report**. Our patient, a 63-year-old man, was initially diagnosed with an adenocarcinoma of the sigmoid **colon** 4 years ago. His staging CT scan showed the presence of unilobar synchronous **liver metastases** but no evidence of extrahepatic disease.

Author: Kyriakos Neofytou, Harpreet Wasan, Sa... **Publish Year:** 2014

Two-Stage Hepatectomy: A Planned Strategy to Treat ...

<https://www.researchgate.net/publication/25217157...>

According to these studies, the morbidity and mortality rates of **two-stage hepatectomy for multiple colorectal liver metastases** ranged from 26 to 59% and from 0 to 9%, respectively [30][31][32][33...

[PDF] Case Report Safety of Redo Hepatectomy for Colorectal ...

<https://downloads.hindawi.com/journals/cris/2014/712572.pdf>

Case Report Safety of Redo **Hepatectomy** for **Colorectal Liver Metastases** after Selective Interarterial Radiation Therapy: **A Case Report** KyriakosNeofytou, 1 HarpreetWasan, 2 andSatvinderMudan 1 Royal Marsden Hospital, Department of Academic Surgery, Upper GI/HPB Unit, Fulham Road, London SW JJ , UK

Surgical management of colorectal cancer metastases to the ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4124526>

The **liver** is the most common site of **colorectal metastasis** and over half of all **colorectal** cancer patients will develop **colorectal** hepatic **metastases** (HM) during their lifetime. As many as 25% will have

Hepatectomy

Surgical removal of liver that may be complete or partial, sometimes followed by a transplant with liver from a donor.

Type of procedure: Open

Recovery time: Can take several weeks

Duration: Few hours

Hospital stay: Typically a few days

May treat

[See all \(5+\)](#)

Liver Cancer

Rare

Development of tumors in the liver cells.

[Read more](#)

Liver Failure

Rare

A condition in which the liver is unable to perform its normal metabolic ...

[Read more](#)

What to expect before procedure

- Fasting is required for at least 8 hours before the procedure.
- Inform doctor about medical history, medications taken regularly or allergies, if any.
- Undergo all required tests as prescribed by the doctor.
- Stay at hospital is required from the day before the procedure to monitor the vital signs.
- Stay at hospital may be required for a few days after the surgery, pack your belongings accordingly.
- An adult family member accompanying is required for convenience.
- Hospital gown is worn before the procedure.

What to expect during procedure

- General anesthesia is given to start the procedure.
- For partial removal, the healthy part is kept intact while removing the