



## Procedure Information Sheet

### Introduction

Liver is located in the right upper part of the abdominal cavity, beneath the diaphragm and above the kidney, above the stomach. The functions of liver include bile production, food metabolism and glycogen storage etc.

### Indication

- Benign or malignant liver tumor
- Bile duct tumor
- Bile duct infections or inflammations

### The Operation / Procedure

The operation is performed under general anaesthesia. Usually, an incision of the abdominal wall is made on right upper part of abdomen. The diseased part of liver or infective, inflammatory lesions of bile duct will be resected.

### Before the Operation / Procedure

1. Patient is usually admitted one day before operation.
2. Doctor should have explained about nature of operation and possible risks and complete the consent form for the operation.
3. Patient may need physical check up or examination such as blood tests, urine tests, electrocardiogram, or X-ray of chest etc.
4. Pre-operative anaesthetic assessment about the anaesthetic management, nature of anaesthetic and possible risks and complete the anaesthetic consent form.
5. May need bowel preparation such as rectal suppository or enema one day before operation.
6. May need hair clipping of the abdominal.
7. Skin preparation for bathing and shampooing and clean the umbilicus as well to prevent wound infection.
8. Keep fast for 6 - 8 hours before operation.
9. Take off underwear, remove denture, contact lens and jewellery (including hair pins, necklace, ear rings and ring etc.) then change to operation gown and cap.
10. Empty bladder before transfer to Operation Theater.
11. May need pre-medications and intravenous infusion.

### After the Operation / Procedure

1. Usual management after operation
  - 1.1 May need transferred to intensive care unit or high dependency unit for closed observation after general anaesthesia in selected patient.
  - 1.2 May feel mild throat discomfort and sputum retention due to intubation. Please use your hand to protect the abdomen wound if you want to expel the sputum; encourage for deep breathing and coughing exercise.
  - 1.3 May need to use "Patient Controlled Analgesic" therapy for pain relief in the early postoperative period.
  - 1.4 Patient will be kept fasting immediately after surgery but will be given intravenous fluid; nasogastric tube is inserted to keep the stomach empty.
  - 1.5 After general anaesthesia and insertion of nasogastric tube, you may feel tired, nausea or vomiting; inform nurses if severe symptoms.
  - 1.6 A urinary catheter is inserted; the catheter will be removed after operation depending on your recovery rate.
2. Wound care
  - 2.1 Wound is covered by sterile dressing.
  - 2.2 Keep the wound dressing clean and dry, abdominal wound stitches or staples will be removed on day 7 to day 14 post-operatively.
  - 2.3 There may be several drains leading out of the body such as nasogastric tube, abdominal drain and urinary catheter, avoid excessive movement which may pull out and twitching the catheters.

<p><b>Patient's Label</b>          Patient Name: _____          Hospital No: _____          Episode No: _____</p>
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2.4 Drain and tube would usually be orderly removed on day 1 - 7 post-operatively upon the progress of the disease recovery.

2.5 Please take the analgesic prescribed by doctor for relief of wound pain.

3. Diet

Patient will be kept fasting immediately after surgery. Oral intake can be gradually resumed (fluid, congee or soft diet) when bowel function returns. You may try frequent small meals to alleviate some common symptoms such as poor appetite, bloating, indigestion and other gastrointestinal symptoms.

4. Activity

4.1 In first 24 - 48 hours after operation, you can have some minor activities, use your hand to protect the wound when get up in bed.

4.2 Early mobilization is encouraged. You should increase daily activity gradually after the operation and resume normal activities as tolerated.

4.3 You should avoid lifting heavy objects and don't take more than two shopping bag for 4 - 6 weeks.

4.4 Restrict to touch too height or too low drawer and to avoid bending or extending the body excessively.

4.5 May need 3 - 6 months for recovery.

5. Follow up

Please follow-up according to surgeon's suggestion.

**Risk and Complication**

1. Complications of general anaesthesia: (may induce permanent injury or be fatal but rare)

1.1 Cardiovascular complications: myocardial infarction, myocardial ischemia, stroke, deep venous thrombosis, pulmonary embolism.

1.2 Respiratory complications: pulmonary atelectasis, pneumonia, asthmatic attack, chronic obstructive airway disease attack.

1.3 Allergic reaction and anaphylactic shock.

\*\* If any enquiry of the possible complications of anaesthetic, please contact your anaesthetist.\*\*

2. Procedure related Complications:

2.1 Liver failure

2.2 Bile duct injury or bile leakage

2.3 Bleeding

2.4 Intra-abdominal collections, wound infection or septicemia.

It is impossible to mention all the possible complications that may happen after the operation and the above is only a few important complications which may occur. Before operation, patient must acknowledge and accept the fact that no matter how ideal the situation may be, these complications may occur. You may require another operation to deal with the complications such as organ injury, bleeding or leakage after operation. This is a major operation with a high chance of mortality around 1 - 5 %.

**Disclaimer**

This leaflet only provides general information pertaining to this operation / procedure. While common risks and complications are described, the list is not exhaustive, and the degree of risk could also vary between patients. Please contact your doctor for detailed information and specific enquiry.

**Reference**

Curley, S. A., Glazer, E. S. Ashley, S. W. & Chen, W. (2019) Hepatic Resection Techniques. UpToDate Retrieved on 8/6/2020 from [www.uptodate.com/contents/hepatic-resection-technique](http://www.uptodate.com/contents/hepatic-resection-technique)

<b>Patient's Label</b>
Patient Name: _____
Hospital No: _____
Episode No: _____

Patient's Signature: \_\_\_\_\_ Date: \_\_\_\_\_