

# Early feeding versus routine feeding after tumor removal using Ivor Lewis minimally invasive esophagectomy

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<b>Registration date</b> 19/02/2020	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
<b>Last Edited</b> 03/03/2020	<b>Condition category</b> Surgery	<input type="checkbox"/> Individual participant data <input type="checkbox"/> Record updated in last year

## Plain English summary of protocol

### Background and study aims

Esophageal cancer is a type of cancer affecting the food pipe (esophagus), the long tube that carries food from the throat to the stomach.

In the Ivor Lewis esophagectomy, the esophageal tumor is removed through an abdominal incision and a right thoracotomy (a surgical incision of the chest wall).

The question about how to deal with postoperative feeding after esophageal resection has become an important topic of debate. It has been demonstrated that early oral feeding of patients after thoracoscopic McKeown esophagectomy was feasible and safe. There is no study to test whether early oral feeding policy can be applied after minimally invasive Ivor Lewis intervention with intrathoracic anastomosis.

The aim of this study is to test whether EOF policy (when to eat depending on patients' willingness) can be applied after minimally invasive Ivor Lewis intervention with intrathoracic anastomosis.

### Who can participate?

Patients aged  $\geq 18$  years and  $\leq 80$  years and undergoing minimally invasive Ivor Lewis intervention with intrathoracic anastomosis for esophageal cancer.

### What does the study involve?

Participants will be randomly allocated to either resume feeding seven days after surgery (treatment as usual) or to resume feeding once they request food.

### What are the possible benefits and risks of participating?

Shorten the length of hospital stay and improve the quality of postoperative life for patients with esophageal cancer are the benefits. Since this clinical study only changed the postoperative feeding time for patients and the incidence of anastomotic fistula after esophageal cancer has been proved to be independent of feeding time. Therefore, this clinical study does not add additional risk to patients.

Where is the study run from?

The Second Affiliated Hospital, Zhejiang University School of Medicine (China)

When is the study starting and how long is it expected to run for?

March 2020 to January 2022

Who is funding the study?

Second Affiliated Hospital of Zhejiang University (China)

Who is the main contact?

Prof. Ming Wu

iwuming22@zju.edu.cn

## Contact information

### Type(s)

Public

### Contact name

Prof Ming Wu

### ORCID ID

<http://orcid.org/0000-0002-1009-5387>

### Contact details

Second Affiliated Hospital of Zhejiang University

No. 88 Jiefang road

Hangzhou

China

31009

+86 13757118715

iwuming22@zju.edu.cn

## Additional identifiers

### EudraCT/CTIS number

Nil known

### IRAS number

### ClinicalTrials.gov number

Nil known

### Secondary identifying numbers

2019-383

## Study information

### Scientific Title

A randomized clinical trial to assess early feeding versus routine feeding for patients who undergo Ivor Lewis minimally invasive esophagectomy

### **Study objectives**

The aim of this study is to test whether EOF policy (when to eat depending on patients' willingness) can be applied after minimally invasive Ivor Lewis intervention with intrathoracic anastomosis.

### **Ethics approval required**

Old ethics approval format

### **Ethics approval(s)**

Approved 06/11/2019, Ethics Committee of the Second Affiliated Hospital of Zhejiang University (No. 88 Jiefang road, Hangzhou city, Zhejiang province, China, 310009; +86 0571-87783759; HREC2013@126.com; ), ref: 2019-383

### **Study design**

Single-center randomized study

### **Primary study design**

Interventional

### **Secondary study design**

Randomised controlled trial

### **Study setting(s)**

Hospital

### **Study type(s)**

Treatment

### **Participant information sheet**

Not available in web format, please use the contact details below to request a patient information sheet

### **Health condition(s) or problem(s) studied**

Postoperative feeding after esophageal resection

### **Interventions**

Patients were randomly allocated by a computer-generated random number list to receive EOF policy (when to eat depending on patients' willingness) or LOF (feeding on 7 days after surgery). All the patients underwent minimally invasive Ivor Lewis esophagectomy with 2-field lymph node dissection. Both the groups were treated similarly in the perioperative period.

1. In the EOF group, when the patient complained that he needed to take water or food, then he will be given oral meal solution. After exclude no anastomotic fistula, the patient will be given postoperative diet

2. In the LOF group, on POD7 esophagography will be performed to exclude anastomotic fistula, and postoperative diet was gradually opened

On the first day of feeding, patients received only water, each time 20-50 ml; if there is no discomfort, on the second day slag-free liquid diet will be received, each time 20-50 ml; if there is no discomfort, on the three day after feeding, transition to a semi-flow diet, mainly porridge, 200 ml each time.

### **Intervention Type**

Behavioural

### **Primary outcome measure**

Number of hospital stays after operation. The discharge criteria are: ability to tolerate a soft diet, no signs of a postoperative complication that needed to be treated at the hospital, ability to ambulate without assistance, tolerable pain on oral analgesia and assessed by the attending doctor

### **Secondary outcome measures**

1. Quality of life, measured using the European Organization for Research and Treatment of Cancer (EORTC) assessed within 3 days prior to surgery, 2 weeks , 4 weeks and 3 months after operation
2. General quality of life questionnaire (C30) and OES18 assessed within 3 days prior to surgery, 2 weeks , 4 weeks and 3 months after operation
3. Time in the ICU, morbidity (graded based on the Clavien–Dindo classification)
4. Mortality within 30 days

### **Overall study start date**

01/02/2020

### **Completion date**

31/01/2022

## **Eligibility**

### **Key inclusion criteria**

1. Aged  $\geq 18$  years
2. Undergoing minimally invasive Ivor Lewis intervention with intrathoracic anastomosis for esophageal cancer

### **Participant type(s)**

Patient

### **Age group**

Adult

### **Lower age limit**

18 Years

### **Sex**

Both

### **Target number of participants**

60 patients in each group

**Key exclusion criteria**

1. Age  $\geq$  80 years
2. Exploratory surgery
3. Bilateral recurrent laryngeal nerve (RLN) injury
4. Patients with other malignancies

**Date of first enrolment**

01/03/2020

**Date of final enrolment**

31/12/2021

**Locations****Countries of recruitment**

China

**Study participating centre**

Second Affiliated Hospital of Zhejiang University

No. 88 Jiefang road

Hangzhou

China

31009

**Sponsor information****Organisation**

Second Affiliated Hospital of Zhejiang University

**Sponsor details**

No. 88 Jiefang road

Hangzhou

China

31009

+86 13757118715

iwuming22@zju.edu.cn

**Sponsor type**

Hospital/treatment centre

**Website**

<http://en.z2hospital.com/>

**ROR**

<https://ror.org/059cjp64>

## **Funder(s)**

**Funder type**

Hospital/treatment centre

**Funder Name**

Zhejiang University

**Alternative Name(s)**

, , Chekiang University, Chekiang Higher Institutes, National Third Chungshan University, National Chekiang University, ZJU, NCKU

**Funding Body Type**

Government organisation

**Funding Body Subtype**

Universities (academic only)

**Location**

China

## **Results and Publications**

**Publication and dissemination plan**

Planned publication in a high-impact peer-reviewed journal.

**Intention to publish date**

31/01/2023

**Individual participant data (IPD) sharing plan**

The datasets generated during and/or analysed during the current study are available from the corresponding author on reasonable request

**IPD sharing plan summary**

Available on request