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Evidence-  
Based  
Medicine  
presentation

Presented by : R2 林岑紘  
Department :  
Hepatobiliarypancreatic  
Surgery



# Clinical Scenario

- A 46-year-old male patient of –
  - 1) Hepatocellular carcinoma (T2N0M0, stage II)
  - 2) Liver cirrhosis (HBV related, Child B)
    - post deceased donor liver transplantation on 2011/04/13
    - post excision of stenotic left hepatic artery + right hepatic artery to left hepatic artery graft bypass with reverse greater saphenous vein on 2011/04/18

# Clinical Scenario

- Common hepatic duct stricture
  - post PTBD x 2
- repeated acute cholangitis
  - extended spectrum beta-lactam (ESBL)  
*Escherichia coli*
- ERBD was once introduced but failed due to his redundant common bile duct



# STEP 1

## Asking Answerable Clinical Questions

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# Background Question

- How does post-operative bile duct stricture happen?

- \* **Benign post-operative bile duct strictures.**

*Lillemoe KD. Baillieres Clin Gastroenterol. 1997 Dec;11(4):749-79.*

- most occur following cholecystectomy
- most common presentation of post-OP bile duct injuries : obstructive jaundice or evidence of a bile leak → months to years later : stricture
- most common symptom of post-operative bile duct strictures : cholangitis
- gold standard for the diagnosis : cholangiography

# Background Question

- What are the choices of management ?

- \* **Benign post-operative bile duct strictures.**

*Lillemoe KD. Baillieres Clin Gastroenterol. 1997 Dec;11(4):749-79.*

- best overall results : Roux-en-Y hepaticojejunostomy
  - long-term success rates : > 80% in most series
- if the anatomical situation and clinical scenario doesn't favor the surgery : percutaneous and endoscopic techniques
  - In selected patients, the results of both endoscopic and percutaneous dilatation are comparable to those of surgical reconstruction.

# Background Question

- What are the choices of management ?

\* **Benign biliary stricture--should they be dilated or treated surgically?**

*Gupta R, et al. Indian J Gastroenterol. 2006 Jul-Aug;25(4):202-5.*

- Traditionally, surgery is considered the mainstay of treatment, but it is associated with significant morbidity and variable long-term outcome.
- endoscopic management is emerging as an effective option



# Foreground Question

<b>P</b>	patient having post-operative benign bile duct stricture who isn't suitable for further surgery
<b>I</b>	endoscopic or percutaneous stenting
<b>C</b>	endoscopic or percutaneous metallic stenting
<b>O</b>	better longterm result



## STEP 2

Search  
the  
Database



**6S**

