# LAPAROSCOPIC COMMON BILE DUCT EXPLORATION (L-CBDE)

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NO DISCLOSURES

### **GUIDELINES**

American Society of Gastrointestinal Endoscopy does not comment on laparoscopic C.BDE

European Society of Gastrointestinal Endoscopy : LCBDE as safe & effective technique for removal of CBD stones

BMJ 2017 Updated Guidelines on CBD stones:<sup>3</sup>

LCBDE is an appropriate technique for CBDS removal

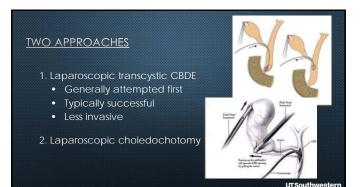
No evidence of a difference in efficacy, mortality or morbidity

when compared with perioperative ERCP.

LCBDE is associated with a shorter hospital stay

Williams E, Beckingham I, Ill Sayed G, et al Updated guideline on the management of common bile duct stones (CBDS). Gut 2017 66:765-76

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# SEEMS LIKE A HASSLE, WHY SHOULD I BOTHER?

Any laparoscopic cholecystectomy (LC) patient is suspect! CBD stones present in 10-15% patients<sup>1</sup>

Single stage laparoscopic management of gallstones & CBD stones <sup>1-4</sup> Equivalent extraction rate to pre/post ERCP Similar morbidity & mortality to ERCP Shorter hospital LOS Fewer interventions = 1 time anesthetic

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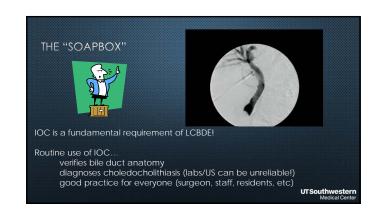
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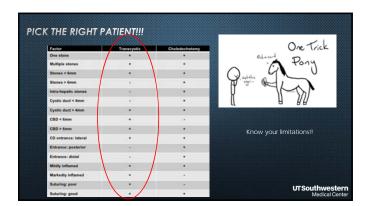
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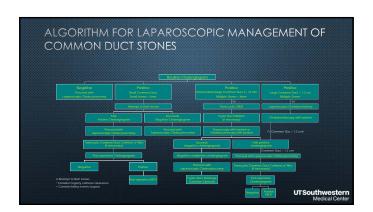
SEE 14.4

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## TRANSCYSTIC LAPAROSCOPIC CBDE

- Cystic duct entrance into CBD is straight & lateral

### Contraindications:

- Cystic duct entrance -posterior or distal to CBD stones

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## TRANSCYSTIC LCBDE - EQUIPMENT

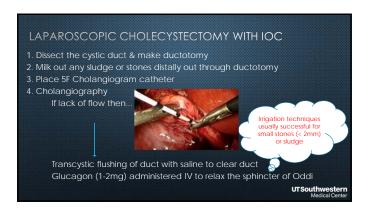
syringe Normal saline in 20 cc syringe IV Extension tubing Cook Cholangiogram 5 French catheter system

\*Dilute contrast - allows for better visualization. Stones can hide in a column of contrast when it is full dose

Cook Common Duct Exploration Set Flexible Choledochoscope 1L NS with pressure bag and IV tubing Cook Cholangiogram Kit

Appel Berci Introducer set ROAD Runner PC wire guide Multiport Adaptor Nitinol Tipless Stone Extractor

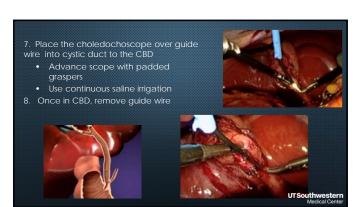
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# TRANSCYSTIC CBDE – STEP BY STEP PROCEDURE 1. Pass flexible .035 in. guide wire thru the Cholangiogram catheter. 2. Remove catheter, leaving guide wire in place. 3. Insert 12 fr flexible sheath for safe choledochoscope insertion through abdominal wall.







# Fogarty Balloon Catheter 1. Pass the catheter into the cystic duct then CBD along side the scope • Working channel on scope is too small for the catheter 2. Advance catheter beyond stone under direct visualization 3. Inflate balloon 4. Withdraw catheter enough to impact stone against scope 5. Remove entire ensemble

AT THE END	
Always perform a post intervention cholangiogram!     After cystic duct dilatation consider using an endoloop	
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