



## Current practices in biliary surgery: Do we practice what we teach?

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### Abstract

**Introduction** Since the widespread adoption of laparoscopic techniques in biliary surgery, the incidence of bile duct injuries (BDI) has not significantly declined despite increased operative experience and recognition of the critical view of safety (CVS) method for anatomic identification. We hypothesized that operative approaches in clinical practice may vary from well-described technical recommendations. The objective of this study was to assess how practicing surgeons commonly identify anatomy during laparoscopic cholecystectomy (LC).

**Methods** We performed a cohort study assessing practices in biliary surgery among current practicing surgeons. Surgeons belonging to the Midwest Surgical Association and the Society of American Gastrointestinal and Endoscopic Surgeons were surveyed. Items surveyed include preferred methods for cystic duct identification, recognition of the CVS, and use of intraoperative imaging.

**Results** In total, 374 of 849 surgeons responded. The CVS was not correctly identified by 75 % of surgeons descriptively and by 21 % of surgeons visually. 56 % of surgeons practiced the infundibular method for identification of the cystic duct; 27 % practiced the CVS method. Intraoperative cholangiography was used by 16 % and laparoscopic ultrasound by <1 %.

**Conclusion** A majority of surgeons preferably do not use the CVS method of identification during LC. A large percentage of practicing surgeons are unable to describe or visually identify the CVS. These results suggest an urgent need to reexamine the tenets of how LC is being taught and disseminated and present a clear target for improvement to reduce BDI.

**Keywords** Safety · Common bile duct · Injury · Critical view

Laparoscopic cholecystectomy has been shown in multiple studies to be superior to open cholecystectomy in the routine treatment of many forms of biliary disease [1–6]. This has led to the National Institute of Health announcing laparoscopic cholecystectomy as the gold-standard operation in 1993 [7]. Since the widespread acceptance of the laparoscopic technique in biliary surgery, the incidence of bile duct injuries (BDI) remains 0.4 %, compared to 0.2 % in open operation [8]. This, despite, improved instrumentation, refined techniques, and incorporation into surgical resident training. An estimated 3000 BDI occur annually in the USA alone as a consequence of cholecystectomy. Adherence to a strict set of principles for discerning ductal and vascular anatomy during laparoscopic cholecystectomy is paramount in avoiding injury due to misidentification. These principles were articulated by Strasberg et al. [9] in 1995 and are collectively known as the critical view of safety (CVS). The CVS is recognized by many biliary surgeons as best practice and is the method of identification used to trained surgical residents. There have been four published series comprising 4500 patients in which the CVS was explicitly used during LC with resulting low BDI rate (0–0.03 %) [10–13]. In addition, a Japanese review

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# Current Practice Of Biliary Surgery

**Lei Shi**



## **Current Practice Of Biliary Surgery:**

This book delves into Current Practice Of Biliary Surgery. Current Practice Of Biliary Surgery is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Current Practice Of Biliary Surgery, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Current Practice Of Biliary Surgery
- Chapter 2: Essential Elements of Current Practice Of Biliary Surgery
- Chapter 3: Current Practice Of Biliary Surgery in Everyday Life
- Chapter 4: Current Practice Of Biliary Surgery in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Current Practice Of Biliary Surgery. The first chapter will explore what Current Practice Of Biliary Surgery is, why Current Practice Of Biliary Surgery is vital, and how to effectively learn about Current Practice Of Biliary Surgery.

3. In chapter 2, this book will delve into the foundational concepts of Current Practice Of Biliary Surgery. This chapter will elucidate the essential principles that need to be understood to grasp Current Practice Of Biliary Surgery in its entirety.

4. In chapter 3, this book will examine the practical applications of Current Practice Of Biliary Surgery in daily life. The third chapter will showcase real-world examples of how Current Practice Of Biliary Surgery can be effectively utilized in everyday scenarios.

5. In chapter 4, this book will scrutinize the relevance of Current Practice Of Biliary Surgery in specific contexts. This chapter will explore how Current Practice Of Biliary Surgery is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Current Practice Of Biliary Surgery. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Current Practice Of Biliary Surgery.

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