



HOME OF SIDNEY KIMMEL MEDICAL COLLEGE

The Sensitivity of Cross-Sectional Imaging for Identifying Periampullary Diverticula Austin L. Chiang¹, Jetmir Vojnika², Alexander Schlachterman¹, David E. Loren¹, Thomas Kowalski¹ 1. Thomas Jefferson University Hospital (Philadelphia, PA), 2. Sidney Kimmel Medical College of Thomas Jefferson University (Philadelphia, PA)

Background

- Periampullary diverticula can make ERCP challenging due to unusual papilla position and distorted anatomy.
- Pre-ERCP CT or MRI, may help define anatomy, localize pathology, and identify periampullary diverticula.
- It is unclear whether technological advancements have led to improved radiographic sensitivity of periampullary diverticula or if adequate documentation is performed.
- Our aim was to determine the sensitivity of imaging in identifying duodenal diverticula as seen during ERCP.

Methods

- The design of this study was a retrospective study of 106 patients noted to have periampullary diverticula during ERCP between June 2014 and November 2017 at a single, large-volume academic center.
- The presence of duodenal diverticula noted on CT or MRI prior to ERCP was recorded. Age, gender, and diverticulum characteristics including number, size, and ampullary involvement were recorded. Successful cannulation was noted.
- The association between diverticula detection on imaging with diverticulum size, ampullary involvement, and biliary dilatation was determined using a Fisher's exact test.

Results

Table 1: Patient characteristics, diverticulum qualities, prodecural details, indications for ERCP (n=87)

Patient characteristics	n (%)
Mean age (years)	74.8 ±11
Gender (male)	57 (54.1
Diverticulum qualities	n (%)
Ampullary involvement	76 (70.0
Single diverticulum	96 (88.1
Large diverticulum	51 (48.1
Procedural details	n (%)
Successful cannulation	98 (89.9
Indication for ERCP	n (%)
Choledocholithiasis	31 (31.3
Cholangitis	12 (12.1
Unspecified biliary obstruction	12 (12.1
Hyperbilirubinemia or jaundice	18 (18.2
Bile leak	6 (6.1)
Other	9 (9.1)

