



Billing, Coding, and Credentialing for Interventional Radiology-Operated Endoscopy

Jesse Mer, MD, MBA,* Jeffrey Forris Beecham Chick, MD, MPH, DABR,[†]
Travis L. Healey, MD,* Evan J. Johnson, MD,[‡] and Ravi N. Srinivasa, MD, FSIR[§]

A sound understanding of billing and coding is essential to start a successful interventional radiology endoscopy practice. While the codes utilized are similar to gastrointestinal and genitourinary endoscopy codes, physicians and institutional coders need to be familiar with the codes used for these types of procedures in the interventional radiology setting. The following manuscript gives a brief overview of aspects relating to credentialing, billing, and coding in interventional radiology endoscopy.

Tech Vasc Interventional Rad 22:162-164 © 2019 Elsevier Inc. All rights reserved.

KEYWORDS billing, coding, interventional radiology, endoscopy, laser

The diagnostic and therapeutic value of endoscopic methods in the interventional suite is becoming realized in a number of radiology departments across the country. Yet the organizational infrastructure required for widespread employment of these methods in the United States is not complete. From a billing standpoint, there is already a coding framework for many interventional radiology (IR) procedures using endoscopy. Training pathways for radiologists to use endoscopy are still however not fully defined and there is opportunity to learn from models abroad. Here, we outline some of the challenges and strategies for broadening the adoption of endoscopic methods in the interventional suite. Specifically, we will briefly discuss laser and endoscopy

credentialing for the interventional radiologist as well as some specific CPT codes for use.¹⁻³

One of the most significant obstacles for widespread adoption of endoscopy in interventional radiology is the current lack of training opportunities. There are several workshops across the country dedicated to endoscopic training for the radiologist; however, a broader solution is necessary—one capable of guiding physicians on a national level. There are models that can be taken from abroad, such as those developed by the British Society of Gastrointestinal and Abdominal Radiology: Britain's National Health Service provides pathways for the radiologist to certify in upper gastrointestinal endoscopy. For political reasons, equivalent opportunities for US radiologists may not be realistic, but the British example does highlight the benefit of organizational support. Potential solutions for the incorporation of endoscopy training for US radiologists may involve our own professional organizations such as the Society of Interventional Radiology (SIR) or the American College of Radiology (ACR). For those radiologists who are already using endoscopic techniques, maximizing teaching opportunities for residents and colleagues alike is another method by which this technology can be introduced into the field.

For laser therapies, there are well-established methods for credentialing in the United States as governed by The American Society for Laser Medicine and Surgery (ASLMS)¹. A minimum of 8-10 hours of basic training is recommended, at least 40% of which should be based on practical sessions.

Abbreviations: ASLMS, American Society for Laser Medicine and Surgery; ACR, American College of Radiology; CPT, current procedural terminology; IR, interventional radiology; SIR, Society of Interventional Radiology

*Department of Radiology and Imaging Sciences, Indiana University School of Medicine, Indianapolis, IN.

[†]Division of Interventional Radiology, Department of Radiology, University of Washington, 1959 Northeast Pacific Street, Seattle, WA 98195.

[‡]Department of Radiology, Mayo Clinic, Rochester, MN.

[§]Division of Vascular and Interventional Radiology, Department of Radiology, UCLA Medical Center, Los Angeles, CA.

Address reprint requests to Ravi N. Srinivasa, MD, FSIR, Division of Vascular and Interventional Radiology, Department of Radiology, UCLA Medical Center, 757 Westwood Plaza, Los Angeles, CA 90095. E-mail: medravi@gmail.com

Table 1 Biliary Endoscopy Codes⁴

CPT Code CPT Description	
(+) 47550	Biliary endoscopy, intraoperative (choledochoscopy). (+list separately in addition to code for primary procedure)
47552	Biliary endoscopy, percutaneous via T-tube or other tract; diagnostic, with collection of specimen(s) by brushing and/or washing, when performed (separate procedure)
47553	Biliary endoscopy, percutaneous via T-tube or other tract; with biopsy, single or multiple
47554	Biliary endoscopy, percutaneous via T-tube or other tract; with removal of calculus/calculi
47555	Biliary endoscopy, percutaneous via T-tube or other tract; with dilation of biliary duct stricture (s) without stent
47556	Biliary endoscopy, percutaneous via T-tube or other tract; with dilation of biliary duct stricture (s) with stent. (+47801 for placement of cholecdochal stent)
	<i>If imaging guidance is performed, use 74363</i>
	<i>For endoscopic brushings, see 43260, 47552</i>
	<i>For endoscopic biopsy, see 43261, 47553</i>
	<i>For endoscopic removal of calculi, see 43264, 47554</i>
	<i>For endoscopic destruction of calculi, use 43265</i>

Instruction should cover laser physics, tissue interaction, safety, surgical techniques, and pre-and postoperative care. These structured courses should be complemented by preceptorship-type clinical training. Alternatively, completion of a residency program that has included ample training and practice in laser techniques should be considered adequate for laser privileges. Granting and maintaining privileges should remain the responsibility of the hospital or institution, with protocols and procedures in compliance with the laws of each state as well as ASLMS guidelines.¹

Consulting SIR's latest *Interventional Radiology Coding Update* is the best place to start for coding.² This document is compiled by the Society of Interventional Radiology for free use by its members. It is continually updated to reflect the widening array of services provided by the field. The SIR 2019 Coding Update outlines multiple dedicated codes relating to percutaneous biliary endoscopy (Table 1). For renal endoscopy, much of the coding can be borrowed from urology (Table 2).

The augmentation of current interventional radiology techniques with endoscopy can be of great benefit to many patients. The most significant barrier to the broader adoption of endoscopy in the IR suite relates to the limited training available in the United States. Deliberate efforts by radiology's professional organizations may be a strategy to overcoming this obstacle. Additionally, for those select institutions already employing these methods, all opportunities should be taken to instruct colleagues and trainees. With such efforts across the field, percutaneous endoscopy can become a more commonplace technique in certain challenging cases, furthering the capability of the interventional radiologist to provide the most innovative and quality patient care.

Table 2 Renal Endoscopy Codes⁴

CPT Code CPT Description	
50551	Renal endoscopy through established nephrostomy or pyelostomy, w/or w/o irrigation, instillation, or ureteropyelography, exclusive of radiologic service
50553	Renal endoscopy through established nephrostomy or pyelostomy, w/or w/o irrigation, instillation, or ureteropyelography, exclusive of radiologic service; with ureteral catheterization, w/or w/o dilation or ureter
	<i>For image-guided dilation of ureter and/or renal pelvis without endoscopic guidance, use 50606</i>
50555	Renal endoscopy through established nephrostomy or pyelostomy, w/or w/o irrigation, instillation, or ureteropyelography, exclusive of radiologic service; with biopsy
50557	Renal endoscopy through established nephrostomy or pyelostomy, w/or w/o irrigation, instillation, or ureteropyelography, exclusive of radiologic service; with fulguration and/or incision, w/or w/o biopsy
50561	Renal endoscopy through established nephrostomy or pyelostomy, w/or w/o irrigation, instillation, or ureteropyelography, exclusive of radiologic service; with removal of foreign body or calculus
50562	Renal endoscopy through established nephrostomy or pyelostomy, w/or w/o irrigation, instillation, or ureteropyelography, exclusive of radiologic service; with resection of tumor
50570	Renal endoscopy through nephrotomy or pyelotomy, w/or w/o irrigation, instillation, or ureteropyelography, exclusive of radiologic service
50572	Renal endoscopy through nephrotomy or pyelotomy, w/or w/o irrigation, instillation, or ureteropyelography, exclusive of radiologic service; with ureteral catheterization, w/or w/o dilation of ureter
50574	Renal endoscopy through nephrotomy or pyelotomy, w/or w/o irrigation, instillation, or ureteropyelography, exclusive of radiologic service; with biopsy
50575	Renal endoscopy through nephrotomy or pyelotomy, w/or w/o irrigation, instillation, or ureteropyelography, exclusive of radiologic service; with endopyelotomy (includes cystoscopy, ureteroscopy, dilation of ureter and ureteral pelvic junction, incision of ureteral pelvic junction and insertion of endopyelotomy stent)
50576	Renal endoscopy through nephrotomy or pyelotomy, w/or w/o irrigation, instillation, or ureteropyelography, exclusive of radiologic service; with fulguration and/or incision, w/or w/o biopsy
50580	Renal endoscopy through nephrotomy or pyelotomy, w/or w/o irrigation, instillation, or ureteropyelography, exclusive of radiologic service; with removal of foreign body or calculus

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