VIDEO

Optimizing ergonomics during endoscopy



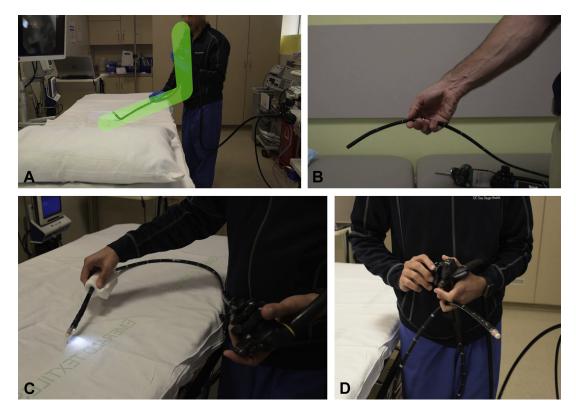


Figure 1. A, Scope acting as a lever to reduce right hand torqueing. **B**, Neutral thumb grip position. **C**, Right-hand grip with gauze to reduce grip pressure. **D**, Left-hand pinky grip technique to reduce right-hand strain, which can be used in difficult or tight endoscope positions.

Ergonomics plays an important role in injury prevention for endoscopists. Raising awareness and enhancing ergonomics in endoscopy may prevent endoscopic-related injury. Most endoscopists learn their skills through individual teaching during fellowship training. The level of skill among trainees and teachers varies widely, and most endoscopic teaching neglects ergonomics.

Certain techniques offer advantages to prevent repetitive stress injury during endoscopy. In this video (Video 1, available online at www.VideoGIE.org) we review techniques for optimizing ergonomics during endoscopy including body position, endoscope positioning, and gripping the endoscope to prevent injury (Fig. 1A-D). The goal of this video is to enhance awareness of ergonomic principles and prevent endoscopic-related injuries.

DISCLOSURE

All authors disclosed no financial relationships relevant to this publication.

Michael A. Chang, MD, Jeffrey Mitchell, MSPT, OCS, Syed M. Abbas Fehmi, MSc, MD, University of California San Diego, San Diego, California, USA

Copyright © 2017 American Society for Gastrointestinal Endoscopy. Published by Elsevier Inc. This is an open access article under the CC BY-NC-ND license (http://creativecommons.org/licenses/by-nc-nd/4.0/).

http://dx.doi.org/10.1016/j.vgie.2017.03.005

Written transcript of the video audio is available online at www.VideoGIE.org.