Use of cyanoacrylate to treat mucosal perforations during or after peroral endoscopic myotomy

Peroral endoscopic myotomy (POEM) is a safe and effective procedure for patients with achalasia [1]. Mucosal perforation is an inadvertent complication that is difficult or impossible to treat with standard clips [2]. Over-the-scope clips, endoluminal suturing devices, and fully covered stents have been used successfully [3, 4]. Cyanoacrylate is used as a sealant because of its rapid solidification rate [5]. We report on three patients who were treated successfully with cyanoacrylate following failure of standard closure.

Case 1: a 26-year-old woman underwent an uncomplicated POEM procedure but presented nausea, vomiting, and tachycardia 48 hours later. An attempt at closure was unsuccessful. Therefore, 3 mL of undiluted cyanoacrylate was applied, and subsequent endoscopy confirmed no leaks. The patient was discharged at 3 days later.

Case 2: a 51-year-old woman underwent POEM and showed contrast leak into the submucosal tunnel 24 hours after the procedure. The clips could not be rearranged to close the defect, and 1 mL of cyanoacrylate was applied successfully. The patient was discharged 48 hours later.

Case 3: a 40-year-old man underwent a difficult POEM procedure owing to the presence of submucosal fibrosis. He showed tearing of the mucosal entry site, which could not be closed with clips. Therefore, 3 mL of cyanoacrylate was applied successfully. The patient was discharged 48 hours later without complications.
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References

Bibliography
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