UCTN

We report on our novel technique for endoscopic removal of sharp needles from the duodenum. A 43-year-old woman was referred to our hospital after attempting suicide by swallowing sewing needles. Endoscopy revealed the presence of five needles in the duodenum, with the tips lodged in the duodenal wall (Figure 1). Four of the five needles were removed safely using a snare and grasping forceps (SD11L-1, FG-17K-1; Olympus, Tokyo, Japan) through an overtube in the esophagus. The fifth needle had penetrated through the pylorus into the stomach during the procedure. To remove it without further injury, we used forceps (FB-21K-1; Olympus) through the sheath normally used for a clip device (HX-5LR-1; Olympus). After placing the needle completely within the sheath, we were able to remove the needle through the forceps channel easily and safely (Figure 2).

To remove ingested foreign bodies, endoscopic approaches are generally less invasive than surgical intervention. However, extreme caution is required when the foreign body is sharp, as it is easy to injure the wall of the gastrointestinal tract. One method involves using an overtube to protect the esophagus during repeated insertion and withdrawal of the endoscope [1,2]. Another technique involves fashioning a protective hood for the endoscope using variety of devices, such as soft latex protector hoods [3,4]. Using the endoscopic approach shown here, we were able to remove the needles without complication.

For this procedure, we used grasping forceps through the sheath normally used for a clip device. The fifth needle was placed within the sheath, and was covered completely. Thus, all the needles were taken out through the forceps channel without repeating insertion of the endoscope itself. If the endoscope can reach the site, it is possible to remove sharp foreign bodies from the gastrointestinal tract. Our technique allowed easy and safe endoscopic removal of the sharp needles.

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Figure **1** Endoscopic view of the duodenum. The needle had become stuck in the wall of the duodenum.

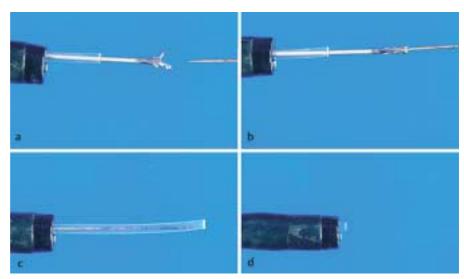


Figure **2 a** Forceps were inserted through the sheath of a clip device. **b** The head of the neddle was grasped with the forceps. **c** The entire needle was drawn into the sheath. **d** The sheath and needle were removed through the forceps channel of the endoscope.