Utility of the “bear claw”, or over-the-scope clip (OTSC) system, to provide endoscopic hemostasis for bleeding posterior duodenal ulcers

The “bear claw”, or over-the-scope clip (OTSC) system (Ovesco Endoscopy, Tübingen, Germany), is an innovative clipping device made of superelastic biocompatible nitinol [1–3]. This device was developed to close wall defects of the luminal gastrointestinal tract, such as perforations, anastomotic leaks, and fistulas [1, 2]. The use of the “bear claw” in humans is still limited, but due to the excellent capabilities of the “bear claw” to close large mucosal defects, more reports on its efficacy are being published [2, 3]. Here we present the use of the “bear claw” to provide hemostasis of large ulcers of the posterior duodenal wall.

Four patients (three women and one man, ages 82–90, mean age 84.5) presented with massive gastrointestinal bleeding. All of the patients had hypotension upon presentation. The patients’ hemoglobin ranged from 6 to 12 g/dL, with a mean of 9 g/dL (normal 12–18 g/dL). All patients
The bleeding lesion was located (\textit{gulfed} by the cap (for the vessel and enough tissue to be en-
tered), the surgeon positioned the OTSC. This maneuver allowed for the entrapment of a large amount of tissue, allowing closure of fistula holes and, as shown in these cases, achieving hemostasis [1 – 3]. Second, we show that the OTSC is effective for obliterating ulcers with bleeding vessels located in a difficult position (in the posterior duodenum). It is well known that these ulcers are at a higher risk and also more difficult to treat because of their awkward position [4]. In a previous study, we demonstrated that using the colonoscope allowed for targeted endoscopic therapy of these lesions, as the working channel is on the right side. Most gastroscopes have working channels on the left side, making it difficult to apply endoscopic hemostasis [4]. In addition, standard clips often fall off these lesions and induce more bleeding by lacerating the vessel. Although using a heater probe is a proven method to treat lesions similar to those presented in this case, this modality is mainly available in the USA and some Asian countries, but not in most European countries. However, using a heater probe can result in perforation [5]. Finally, we show that the placement of such a clip is very easy, resulting in potentially life-saving hemostasis.

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References


Bibliography

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