Feasibility and tolerability of self-insertion of a transnasal tube for esophagogastroduodenoscopy: a pilot study

Recently, Quilliot et al. reported, for the first time, that self-insertion of a nasogastric tube may be efficacious and well tolerated in patients receiving enteral nutrition [1]. A similar process was used to increase the tolerability of diagnostic esophagogastroduodenoscopy (EGD) and the confidence of patients undergoing this procedure.

A single senior physician with a high level of experience in endoscopy suggested to 10 outpatients referred for diagnostic EGD that they self-insert a transnasal endoscope after the administration of topical anesthesia (Fig. 1). The patients were counseled as follows: “This new technique enables you to take control of the endoscopic procedure completely because you will introduce the tube yourself after you have received local anesthesia. You will view the process on a screen, and I will coach you on how to insert and guide the tube.” Before the examination, patients were given a description of the anatomy involved and the procedure. All patients gave informed consent. After the procedure, they were asked if they would agree to use this technique again.

Self-insertion of the tube was planned for seven patients, and they completed the entire procedure successfully (Video 1). The process took longer than classic endoscopy, but patient tolerance was excellent, and there were no cases of nausea or vomiting. Three patients did not complete the entire self-insertion procedure. It was impossible to introduce the tube transnasally for anatomical reasons in one patient, who therefore underwent a classic endoscopic procedure; another patient completed the procedure but with poor tolerance, probably because she did not follow the examination on the screen and, with eyes closed, only listened to the instructions given by the physician. The last patient refused at first to use the self-insertion technique because of previous aesthetic nose surgery. When the classic endoscopic procedure had to be stopped because of nausea and vomiting, the new technique was again suggested; she agreed this time, and the procedure was a complete success. All patients were extremely satisfied and agreed to self-insert the tube again if another examination were to become necessary.

Self-insertion of a transnasal tube for diagnostic EGD is feasible if patients can accept the idea of viewing their own anatomy. The procedure is extremely well tolerated and may decrease patients’ pain and discomfort.

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