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Comparison of gastroscopy versus magnetically controlled capsule endoscopy (MCCE) in patients with uninvestigated dyspepsia: is it cost effective

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Introduction: Magnetically controlled capsule endoscopy with robotic guidance is a new non-invasive endoscopic method to evaluate the upper GI tract. Our aim was to compare the Ankon magnetically controlled capsule endoscopy system (MCCE) and traditional gastroscopy in the evaluation of gastric disorders in outpatients who underwent both examinations on the same day. Methods: Between August 2018 and October 2022, consecutive outpatients were enrolled to study who underwent MCCE and was referred to traditional gastroscopy and biopsies due to the found pathologies on capsule endoscopy. UBT test was done just before MCCE.

Results: Overall 62 outpatients (36 male, 26 female, 45 years old in average) underwent gastroscopy and MCCE on the same day in our Endoscopy Unit. MCCE revealed no pathologies in 11 patients. By MCCE, focal lesions were found in overall 15 patients (1 gastric polyp, 5 erosions, 3 ulcer, 6 foveolar hyperplasia) and gastritis were described in overall 50 patients (39 distal gastritis, 10 pangastritis, 1 other gastritis). By gastroscopy, focal lesions were found in 8 cases (1 polyp, 4 erosions, 3 ulcers, 3 foveolar hyperplasia) and gastritis were found in 61 patients (51 lower, 9 pangastritis, 1 other gastritis). Gastroscopy was negative in 2 patients. Regarding focal lesions, the gastric polyp, 3 foveolar hyperplasias and 3 gastric ulcers were visualised by both endoscopy techniques, from the 2 out of the 4 gastric erosions were visualised both techniques.

Conclusions: MCCE is an effective and safe diagnostic method to evaluate upper GI mucosal lesions, and it is a usefull non-invasive diagnostic method to evaluate gastric mucosa and it can be the future screening tool to decrease morbidity and mortality of upper GI disorders.

Biography

Prof. Madacsy was born and raised as 3rd generation in a doctor's family in Southern Hungary. He pursued his international academic career in GI starting from the University of Szeged, pushing from isotopic procedures towards gastroenterology in Copenhagen, Denmark and after that, invasive endoscopic procedures. Quickly climbing the ladder, he soon became Head of the Internal Medicine Ward with 200 beds in one of Hungary's biggest county hospitals. His creative mindset and unparalleled thirst for new procedures and experimental medical technologies drove him towards building his own premium, private facility in the last decade, where as CEO and medical director he regularly invests in the best technologies available in the market. He became an associate professor and an unavoidable expert in Europe in ERCP, EUS, invasive endoscopy and magnetic capsule endoscopy. Now he is mainly working on his new visions regarding Artificial Intelligence and robotics for modern medical science.

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