

# Role of Capsule Endoscopy in the Management of Chronic Diarrhea

Thesis  
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# Abstract

The study has shown that the most common causes of chronic diarrhea were celiac disease (20%), Crohn's disease (20%) & mass in ileum (5%). No significant complication was encountered in our studied group of patients apart from capsule retention which was passed spontaneously after several days.

The results of our study suggest that capsule endoscopy is of value in the evaluation of chronic diarrhea in patients with previous negative endoscopic or radiologic workup as well as for those with no clinical or laboratory signs of acute or chronic inflammation, for an overall diagnostic yield of 45%.

## Key word:

Chronic Diarrhea

Tropical

Capsule endoscopy

PEG

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## LIST OF ABBREVIATIONS

AGA	: American Gastroenterological Association
AGAs	: Antigliadin antibodies
AIDS	: Acquired Immunodeficiency Syndrome
ASIC	: application specific integrated circuit
ASIC	: Application Specific Integrated Circuit
CCD	: charge coupled device
CD	Celiac disease
CECDAI	: Capsule Endoscopy Crohn's Disease Activity Index
CETT	: Capsule Endoscopy Transit Time
CMOS	: Current – Mode Temporal difference
CMOS	: complementary metal oxide semiconductor
CRP	: C-reactive protein
CT	: Computed Tomography
CTA	: Helical CT Angiography
DBE	: double balloon endoscope
DBE	: Double Balloon Enteroscopy
DCBE	: Double Contrast Barium Enema
ECG	: Electro Cardiogram

EGD	: Esophagogastroduodenoscopy "upper endoscopy"
EMA	: antiendomysium antibodies
ESO	:
ESR	: erythrocyte sedimentation rate
FAP	: Familial Adenomatous Polyposis
FDA	: Food and Drug Administration
FJP	: Familial Juvenile Polyposis
FOBT	: Fecal Occult Blood Test
GAVE	: Gastric Antral Vascular Ectasias
GI	: Gastrointestinal
GIST	: Gastrointestinal Stromal Tumor
GTT	: gastric transit time
GTT	: Gastric Transit Time
GVHD	: Graft Versus Host Disease
HIV	: human immunodeficiency virus
IBDs	: <i>inflammatory bowel diseases</i>
IBS	: Irritable bowel syndrome
ICCE	: International Conference on Capsule Endoscopy
Ig	: immunoglobulin
INR	: International Normalized Ratio

IOA	: Interobserver Agreement
IOE	: Intra Operative Enteroscopy
K <sup>+</sup>	: potassium
LCD	: liquid crystal display
LEDs	: light emitting diodes
LEDs	: Light Emitting Diodes
MAC	: Mycobacterium avium complex
MEMS	: Micro Electro Mechanical Systems
MIS	: Minimally Invasive Surgery
Na <sup>+</sup>	: sodium
Nd:YAG	: Neodymium:Yttrium-Aluminium-Garnet
NEMO	: Nano-based capsule-Endoscopy with Molecular Imaging and Optical biopsy
NETs	: Neuroendocrine tumors
NSAIDs	: nonsteroidal anti-inflammatory drugs
NSAIDs	: Non Steroidal Anti Inflammatory Drugs
OGIB	: Obscure Gastrointestinal Bleeding
PBSCT	: Peripheral Blood Stem Cell Transplantation
PC	: personal computer
PEG	: Polyethylene Glycol
Pill Cam	: Pill Cam Esophageal capsule

Pill Cam SB	: Pill Cam Small Bowel capsule
PJS	: Peutz-Jeghers Syndrome
PSC	: primary sclerosing cholangitis
RBC	: Red Blood Cell
RFID	: RF identification tag
RTAs	: regional transit abnormalities
RTAs	: Regional Transit Abnormalities
SB	: small bowel
SB	: Small Bowel
SBBFT	: small bowel barium follow through
SBFT	: Small Bowel Follow Through
SBI	: Suspected Blood Indicator
SBT	: Small Bowel Transit
SBTT	: Small Bowel Transit Time
SBTT:	:small bowel transit time
SMA	: Superelastic Shape Memory Alloy
SSSA	: Scuola Superiore Sant'Anna
STD	: short-term disability
Tc-HMPAO	: <sup>99m</sup> technetium hexamethyl-propyleneamine oxime
TRBC	: Technetium 99m-labeled Red Blood Cell

tTG	: transglutaminase
UC	: Ulcerative colitis
ULTB	: Unlikely to bleed
VCE	: video capsule endoscopy
VCE	: Video Capsule Endoscope
VECTOR	:Versatile Endoscopic Capsule for gastrointestinal Tumor
VIP	: vasoactive intestinal peptide;
WBC	: white blood cell.
WHO	: World Health Organization