



## Studies on rectosigmoid motility in patients with irritable bowel syndrome

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### Abstract

**AIM:** A prospective study of rectosigmoid motility has been undertaken in 29 patients with irritable bowel syndrome (IBS) male 11, female 18 average age 42.3. They were divided into 3 groups: diarrhea predominant IBS ( $n = 20$ ), constipation predominant IBS ( $n = 4$ ), and alternating diarrhea and constipation IBS ( $n = 5$ ). 15 healthy volunteers served as controls.

**METHODS:** Objective laboratory tests, including the recording of rectosigmoid pressure with inflating balloon in rectum for

investigating the compliance and sensation of rectum and the rectosigmoid motility.

**RESULTS:** There was no significant difference in the rectosigmoid motility between IBS and normal controls before meal. After meal the rectosigmoid motility in diarrhea predominant IBS was significantly increased. There was an abnormality of the pattern of rectosigmoid contractions, which was the increment of non synchronous contractions. The compliance of rectum was lower in IBS and decreased in constipation predominant IBS. The distension of the balloon in the rectum did not induce contractions of rectosigmoid.

**CONCLUSION:** The rectosigmoid motility in patients with irritable bowel syndrome is abnormal.

**Key words:** Rectosigmoid motility; Irritable bowel syndrome

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