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ROLE OF CHOLECYSTOKININ IN REGULATION OF GASTROINTESTINAL MOTOR FUNCTIONS

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Abstract

By means of loxiglumide, a potent and highly specific antagonist for cholecystokinin (CCK), the effects of blocking CCK receptors on gastrointestinal motility were investigated in a placebo-controlled study in healthy young men (aged 21-39, mean 24 years). Gallbladder contraction stimulated by ingestion of a liquid test meal was completely abolished by oral administration of loxiglumide 30 min before the test meal. Gastric emptying of radio-opaque markers ingested with the test meal was significantly accelerated by loxiglumide (area under the curve [markers \bar{A} — h] $33\hat{A}\cdot 3$ [SEM $3\hat{A}\cdot 8$] *vs* $17\hat{A}\cdot 9$ [$2\hat{A}\cdot 7$] after placebo). No effect of loxiglumide was found on small-bowel transit time, but 7 days' treatment with oral loxiglumide (800 mg three times daily) significantly shortened colonic transit time ($29\hat{A}\cdot 4$ [$4\hat{A}\cdot 1$] h after placebo, $15\hat{A}\cdot 0$ [$3\hat{A}\cdot 4$] h after loxiglumide). It is concluded that CCK is an important mediator of meal-induced gallbladder contraction and is involved in the regulation of gastrointestinal motility in

man.



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