GUT MOTILITY MECHANISMS

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GUT MOTILITY MECHANISMS

ACH

Serotonin

Histamine

AGENTS

5-HT

H$_1$

M

CONTRACTION

REDUCED CONTRACTION

ACH, Serotonin, and Histamine are agents that can cause contraction in the gut. 5-HT and H$_1$ receptors are involved in the reduction of contraction.
L-NNAME → Nitric oxide → RELAXATION → NIL → RELAXATION VIA RELEASE OF NITRIC OXIDE?

No

YES

AGERNT

Nitric oxide → RELAXATION → NIL/REDUCED RELAXATION

Nitric oxide
HEXAMETHONIUM

AGENT

CONTRACTION

NIL

RELAXATION

NIL/REDUCED RELAXATION

RELAXANT MECHANISM VIA NICOTINIC RECEPTOR AT THE GANGLION?

YES

NO
GASTRIC EMPTYING AND INTESTINAL TRANSIT TIME

MOTILITY MECHANISMS CONT’D

GASTRIC EMPTYING AND INTESTINAL TRANSIT TIME

CARBACHOL → SEROTONIN → METOCLOPRAMIDE

? → AGENT → ?

GASTRIC EMPTYING AND INTESTINAL TRANSIT TIME

CARBACHOL → SEROTONIN → METOCLOPRAMIDE