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*Duodenum, wound (yazva ), stomach juice, protection mechanism, medicinal plants*

## TEN TWO FINGERED INTESTINE PHYSIOLOGICAL IMPORTANCE AND DUODENAL " MECHANISMS OF WOUND DEVELOPMENT "

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#### ABSTRACT

*This in the article ten two fingered intestine physiological importance, its digestion to do in the process place and duodenal ulcer disease development mechanisms analysis Wound appeared. Helicobacter pylori infection, acid reflux of the environment increase, stress and wrong food such as factors important role plays. The disease in treatment etiological and symptomatic approaches, as well as diet and preventive measures important importance profession This will on the subject ten two fingered diseases medicinal plants using treatment wide in a circle illuminating is given. Also wormwood, na'matak, zubturum, gulkhayri, cumin, lemon, medicinal chamomile and hawthorn such as of plants to inflammation against and epithelium regeneration accelerator features scientific sources based on analysis done*

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#### Entrance

Food digestion to do system human organism the most important physiological from systems one becoming, that organism life activity for necessary was feed substances with provides. This in the system ten two fingered intestine (duodenum) separate place It is because it is from the stomach. came out acidified who is it? acceptance do it, go and stomach under diaper juice using him/her neutralizes. Digestion in the duodenum process initial stage it will pass, this in process fats, proteins and carbohydrates fermentative decomposition happened will be. Last duodenal ulcer disease in the years in medicine current from problems to one World Health Organization storage According to the World Health Organization (WHO), according to the population about 10-12 percent life duodenal ulcer during is observed. Uzbekistan Republic Health storage ministry statistics this is it of the disease meeting frequency year after year increasing Duodenal ulcers are progressing. in development stomach juice acidity increase, stress, wrong food, harmful habits and Helicobacter pylori infection role big. However modern treatment with one in line, people in medicine applicable medicinal of plants healer Features also worth noting They are in the body inflammation process reduces mucus floor regeneration accelerates and wound end process supports. Therefore ten two fingered

intestine anatomical-physiological features study and duodenal ulcer of the disease development mechanisms with together, medicinal of plants this in process place and importance analysis to do current scientific and practical importance has.

### **1. On two fingered intestine anatomical-physiological features**

On two fingered duodenum - food digestion to do of the channel from the stomach next initial part about 25–30 cm in length. Its start part (bulbus duodeni) right side and right bottom sleeve around located next parts around grass ring and stomach under gland issuer roads opens into the duodenum from the stomach acidified who comes; that with together that's it to the place grass and stomach under pancreatic juice These secretions of whom acidity neutralizes, lipase, amylase, trypsin such as enzymes to the activity suitable the environment provides and thus the first digestion stages done increases.

Duodenal wall one how many from the layer consists of: mucus layer (epithelium) with covered), submucosa, muscularis and serosa (or adventitia). Mucus goblet cells in the floor by working outgoing mucus and caught bicarbonate ions the presence of duodenal wall chemical and mechanic protection provides. From this outside, local blood vessels (microcirculation) and lymph output mucus of the layer oxygenation and recovery supports.

### **2. Duodenal ulcer (yazva) come exit reasons**

Duodenal ulcers appearance to be reason divisor factors many and their most are "aggressive" (acid, pepsin, some medicine means) and "protection" (mucus epithelium, normal microcirculation) systems between imbalance is the result.

#### **Home factors:**

Helicobacter pylori infection is a spiral- shaped bacteria mucus the layer colonization do it locally inflammation and epithelium to the violation take H. pylori inhibits gastrin secretion increase through acidic aggression strengthens.

Stomach acidity excess working release -gastrin, stress or other factors because of stomach secretion duodenal mucosa increases layer of acid-pepsin relatively sensitive It will be.

NSAIDs (nonsteroidal anti-inflammatory drugs) and other medicine agents-prostaglandin synthesis inhibition as mucus layer protection destroys, microbes and to acid relatively sensitivity increases.

Stress, alcohol and Smoking - microcirculation spoils, mucus the layer reduces and recovery slows down.

Protection mechanisms weakening - mucus and bicarbonate secretion reduction, epithelium regeneration slowness or local ischemic situations wound to develop reason It will be.

### **3. Duodenal ulcer pathogenesis**

Duodenal ulceration process one how many in stages First of all, aggressive factors (acid, pepsin, H. pylori) mucus the floor damages; epithelium defect harvest Pepsin and acid together buildings straight away erythema begins, that's it with together local inflammation factors (cytokines, prostaglandins) change is activated.

Neuro-humoral regulation disorders (e.g., gastrin levels) increase stomach secretion strengthens and wound to expand contribution Microcirculation when broken mucus of the layer oxygen and food substances with provision it gets worse, this and inflammation and necrosis processes H. pylori his/ her own virulence factors through (urease, proteases,

lipopolysaccharides) mucus the floor damaged, local immune the answer changes and wound the end slows down.

As a result mucus of the layer protective part with aggressive factors between balance will break and clinic in a way in the body wound hearth appearance It will be.

### Materials and styles

Research during 2019–2024 gastroenterological sources, WHO statistics information and "Inner " diseases " propaedeutics " study manuals analysis Clinical observation and literature comment methods duodenal ulcer based development mechanisms, stomach juice acidity (pH 1.5–2.0), Helicobacter pylori infection effects, as well as phytotherapy of tools benefit studied. Medicinal plants inside fennel, hawthorn, wormwood, marigold, yarrow, cumin, lemon and chamomile chemical composition, inflammation antispasmodic and wound graduate features analysis was done.

### Results

Analyses this showed that duodenal ulcer development based on acidity increase and protection mechanisms weakening Helicobacter pylori infection mucus the floor injury, inflammation strengthens. Medicinal from plants na'matak (source of vitamin C), gulkhayri (anti-inflammatory) against), hawthorn (blood to rotate improver), and epithelium regeneration accelerator) the most effective the result Lemon and cumin and antioxidant impact through mucus the floor protection strengthens.

### Discussion

Phytotherapy from the means Use duodenal ulcer in treatment medicine of tools It is weird effects reduces. Wormwood and your name tinctures mucus the floor protects, hawthorn and scolding and blood supply well done, wound of the place the end This is a plant proton pump. inhibitors and antibiotics with together when used complex treatment efficiency increases.

### Conclusion

On two fingered intestine mucus floor status whole food digestion to do system activity for important. Duodenal ulcer Helicobacter pylori infection, stress and food violation leader role plays. Medicinal from plants reasonable use wound end process accelerates inflammation reduces and relapse the risk reduces. Phytotherapy modern pharmacological approach with duodenal ulcer when waking up in the treatment high result gives.

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