

THE DEPENDENCE OF DISEASE ACTIVITY, RISK FACTORS, AND ENDOSCOPIC CHANGES IN RA PATIENTS

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Abstract: The article presents data on the frequency of gastropathy development in rheumatoid arthritis (RA) patients receiving treatment with non-selective and selective non-steroidal anti-inflammatory drugs (NSAIDs), which are the most popular means of suppressing the symptoms of this disease. NSAIDs can cause serious complications from the gastrointestinal tract (GIC) in the form of erosive-ulcerative lesions of the gastro-duodenal zone and the development of esophagitis. Taking into account risk factors, prescribing safer selective NSAIDs and gastroprotectors allows for a reduction in the frequency of these complications.

Keywords: rheumatoid arthritis, nonsteroidal anti-inflammatory drugs (NSAIDs), gastropathy.

Relevance.

Rheumatoid arthritis (RA) is an autoimmune rheumatic disease of unknown etiology, characterized by chronic erosive arthritis and systemic damage to internal organs, leading to early disability and shortening of patients' life expectancy. РА является частым и одним из наиболее тяжелых заболеваний человека, что определяет большое медицинское и социально-экономическое значение этой патологии [8,11,16] .

In the absence of adequate therapy, RA causes persistent disability in half of the patients in the first 3-5 years of the disease and leads to a significant reduction in their life expectancy, primarily due to a high risk of developing comorbid diseases, including cardiovascular diseases.osteoporosis, severe infections, tumors [8, 11, 16].

According to the literature, gastrointestinal tract lesions in rheumatoid arthritis account for 13 to 62% of cases and occupy a significant place among extra-articular manifestations of this disease. At the same time, the available literature lacks sufficient material on studying the state of the gastrointestinal tract in rheumatoid arthritis. [2, 5, 9].

In the mid-1990s. The impressive statistics of the 20th century dictated the need to talk about the "epidemic" of this pathology. It has been proven that the use of non-selective NSAIDs increases the risk of gastrointestinal bleeding by more than 4 times. The frequency of NSAID gastropathy development reached 4% in those who regularly received NSAIDs, and the total number of deaths caused by this pathology reached 5-15 per 100,000 population per year. The widespread introduction into clinical practice of safer selective cyclooxygenase-2 inhibitors (COG-2) and effective "gastroprotective" drugs (GPPs) [8, 11, 14, 16].

Existing international regulatory documents recommend stratifying patients receiving NSAIDs into risk groups according to their existing risk factors, which allows for the determination of treatment and prevention tactics for NSAID gastropathy [8.14,16].

Nonsteroidal anti-inflammatory drugs (NSAIDs) are widely used in modern medicine. Patients often take them without consulting a doctor. Annually, approximately 300 million people worldwide regularly or sporadically receive NSAIDs, with no more than one-third being prescribed by a doctor.[1]. The risk of gastrointestinal bleeding in patients receiving NSAIDs increases by 3-5 times, ulceration by 6 times, and the risk of death from complications related to gastrointestinal tract involvement by 8 times. Up to 40-50% of all cases of acute gastrointestinal bleeding are caused by NSAIDs [11.15].

The aim of the study is. To demonstrate the relationship between the clinical manifestations of NSAID gastropathy and the endoscopic features of the upper gastrointestinal tract in patients with rheumatoid arthritis.

Materials and Methods.

138 patients with significant RA, predominantly seropositive, with moderate activity of the pathological process, were examined. The average age of patients was 52.6 ± 11.4 years. The gastrointestinal tract pathology was determined by a thorough clinical examination. Endoscopic examination was performed using the "Pentax-EC-3890 hn" device.

Results and discussion

The study included 138 patients aged 19-76 years who were hospitalized with rheumatoid arthritis for 6 months (January-June) in the rheumatology department of the Bukhara Regional Multidisciplinary Medical Center. The diagnosis of rheumatoid arthritis was made based on the clinical criteria ACR (1987) and ACR/EULAR (2010). When studying the history of the disease, the following data were taken into account: the patient's age, the nature of the disease, its duration, and the presence of the disease.

The disease activity level was assessed using the DAS-28 (Disease Activity Score) scale. When determining the frequency of gastropathy risk factors in patients with rheumatoid arthritis, their genesis, gender, age, stressful states, alcohol consumption, smoking, *Helicobacter pylori* detection, and the frequency of gastropathy symptoms were also assessed. Analysis of 138 patients in the scientific study revealed that 74 (53.6%) patients with rheumatoid arthritis exhibited signs of gastropathy, which allowed us to identify the main 74 and 30 control groups.

EFGDS and gastric radiography data were used to determine the risk of gastropathy development. The progression of gastropathy in these patients was determined by gastric mucosal radiography using a modified F.L. Lanza scale and barium radiography.

Analysis of the study showed that out of 74 patients, 58 (78.4%) were women with a mean age of 51.9 ± 11.6 years, 16 (21.6%) were men with a mean age of 55.2 ± 10.8 years, while in the control group, out of 30 patients, 17 (56.7%) were women with a mean age of 42.3 ± 9.2 years, and 13 (43.3%) were men with a mean age of 44.2 ± 12.8 years.

Analysis of the age classification adopted by the World Health Organization (WHO) in 2021 revealed that 15 (20.3%) patients were aged 18-44, 39 (52.7%) were aged 45-59, 17 (22.9%) were aged 60-74, and 3 (4.1%) were aged 75-90.

According to the DAS-28 index, 1 patient (1.4%) showed remission, 2 patients (2.7%) showed low activity, 42 (56.8%) showed moderate activity II, and 29 (39.1%) showed high activity III (Figure 1).

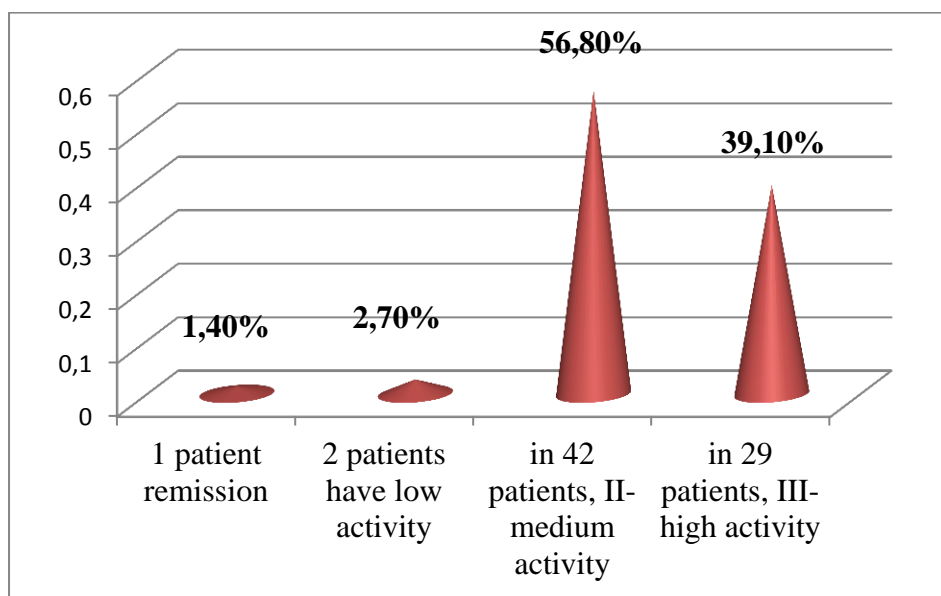


Figure 1. Analysis of disease activity in patients

Analysis of risk factors in patients with rheumatoid arthritis revealed that smoking accounted for 13,5%, alcohol consumption for 6,8%. The risk factors causing gastropathy in the studied patients are presented in the diagram below. Of the 74 patients in the study, 55 (74,3%) underwent FGDS examination (on the Pentax-EC-3890 hn apparatus) and revealed superficial and atrophic changes in the gastric duodenal zone mucosa, hemorrhages, erosions, and ulcers.

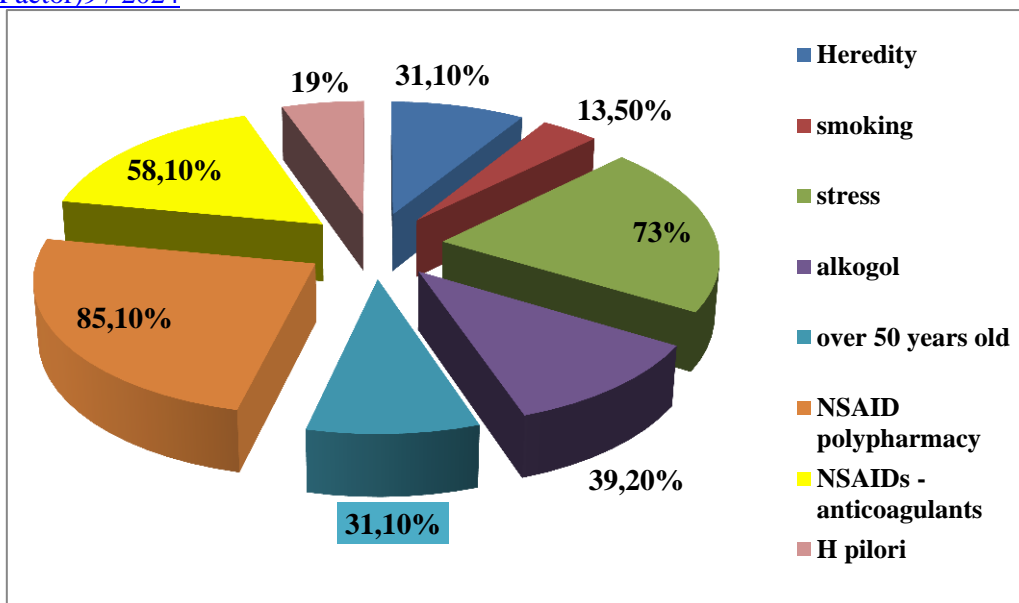


Figure 2. The frequency of gastropathy risk factors

At the same time, hemorrhages were identified in 19 (34.5%) patients with antral ulcers, in 10 (18.2%) patients with fundal ulcers, in 8 (14.5%) patients with pangastritis, in 11 (20%) patients with erosions, in 7 (12.7%) patients with gastric ulcers and 12 units, and in 2 (3.6%) patients with gastric ulcers (3- Figure).

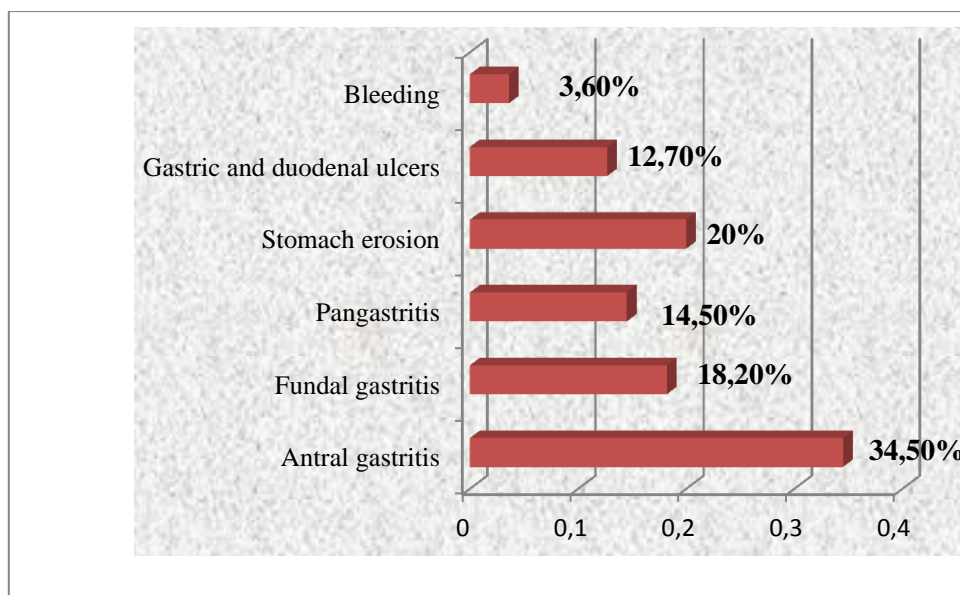


Figure 3. FGDS results in 55 patients with gastropathy

Analysis of the morphological changes of the gastric mucosa presented in the figure revealed that the vast majority of patients had antral gastritis, which constituted 34,5%, fundal gastritis was observed in 18,2%, pangastritis in 14,5%, erosions in

20%, gastric and duodenal ulcers in 12,7% of patients. All patients with antral gastritis exhibited persistent dull, absorbing pain in the epigastric region.

As 19 (25,7%) patients did not want to undergo FGDS examination, they used a barium solution (Shimadzu rodspaid sh10 device) to investigate the gastrointestinal tract using X-ray methods. According to the results of the radiological examination, 9 (47,4%) of the 19 patients had erosions, 6 (31,6%) had gastritis, and 4 (21%) had ulcer disease (4- Figure).

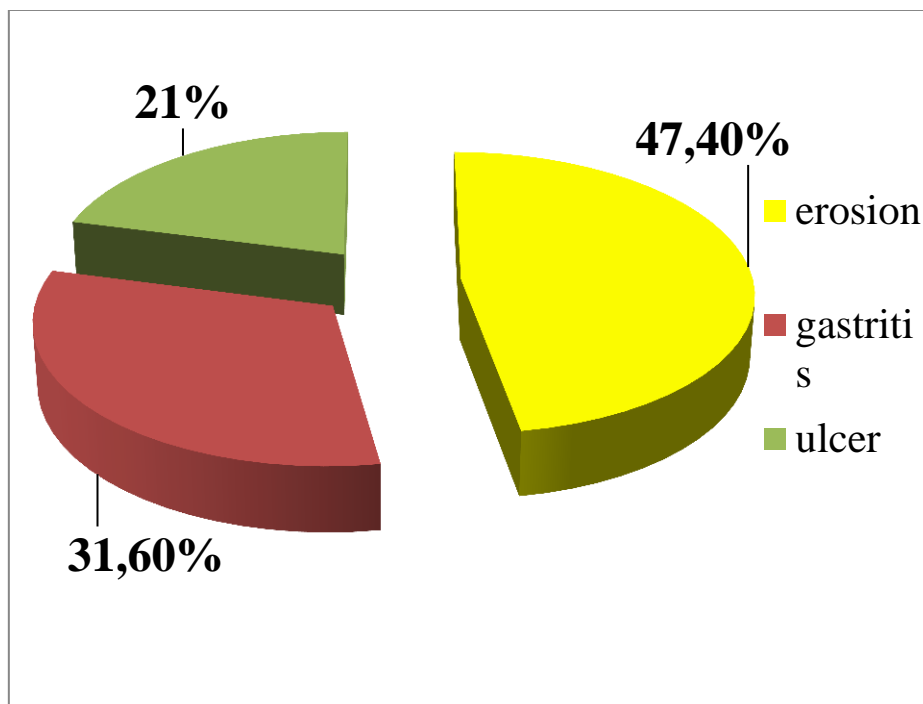


Figure 4. The results of the radiological examination of 19 patients

Analysis of these indicators in 30 patients in the control group revealed pathological changes in 19 (63.3%), including antral changes in 13 (43.3%), fundal changes in 2 (6.7%), pangastritis in 2 (6.7%), erosions in 1 (3.3%), stomach ulcers and duodenal ulcers in 1 (3.3%), as well as bleeding in a patient with gastric ulcer (5- Figure).

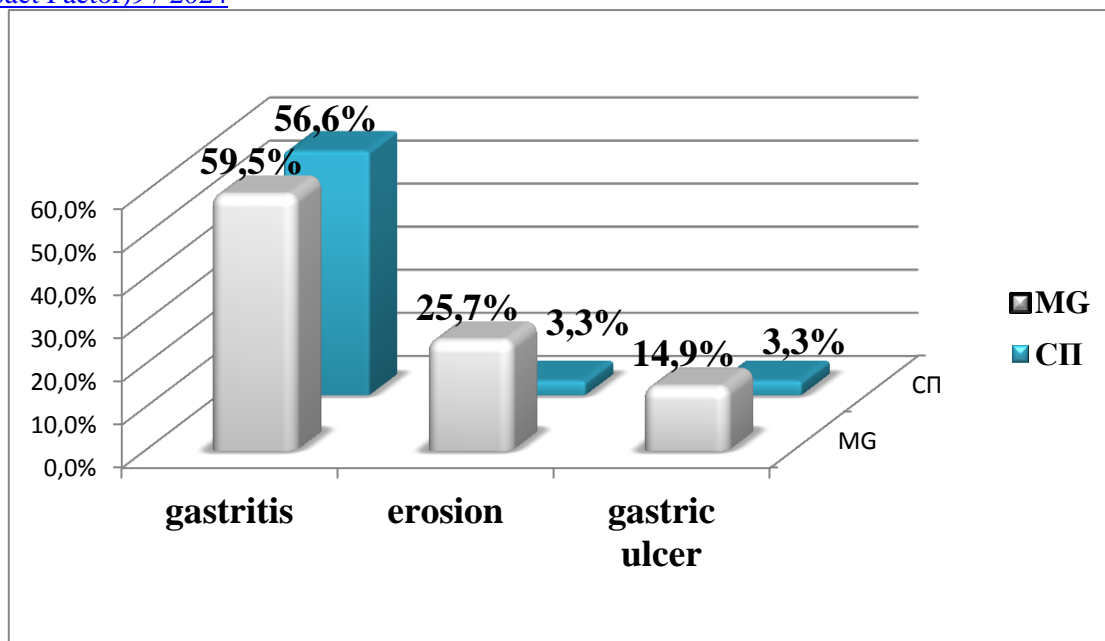


Figure 5. Analysis of indicators in the main and control groups

Endoscopic studies have shown that the morphological changes in the stomach and risk factors are directly related.

1. Table

The dependence of risk factors and FGDS indicators in RA patients

Indicators	Pathological changes in FGDS	
	Main group (n=55)	Control group (n=30)
No risk factors	-	-
1 risk factor	-	4 (13,3%)
2 risk factor	16(29,1%)	9 (30%)
≥ more than three risk factors	39(70,9%)	17(56,7%)

Analysis of the relationship between changes in FGDS depending on the degree of disease activity in patients with rheumatoid arthritis revealed that most patients with a high level of disease activity exhibited gastric and duodenal ulcers and hemorrhages. These symptoms were the result of high activity of rheumatoid arthritis and the widespread use of NSAIDs.

Analysis of the group of patients in the control group showed that patients with low levels of activity did not show any pathological changes in the FGDS indicators (Table.).

2.Table

The dependence of disease activity and changes in FGDS in RA patients

Indicators	Pathological changes in FGDS	
	Main group (n=55)	Control group (n=30)
II - moderate activity DAS-28=3,3-5,1	19(34,5%)	16(84,2%)
III- moderate activity DAS-28>5,1	36(65,5%)	3(15,8%)

In 65% of patients with stage II rheumatoid arthritis, signs of gastropathy were observed in FGDS, which is 4.1 times higher than in the control group.

CONCLUSIONS

1.NSAID gastropathy was most often detected in women with autoaggression factors (stress, heredity, gender, drug polypharmacy, H. pylori, antiplatelet agents), as well as NSAIDs administered for more than five years.

2.It is characterized by imbalance between the clinical picture of NSAID gastropathy and endoscopic manifestations of inflammation in the stomach. The mild symptomatic clinical course of NSAID gastropathy corresponds to clear endoscopic and morphological signs of antral gastritis activity

3.Endoscopic examination of RA patients allowed for a detailed description of the clinical and functional state arising from the aggressive action of NSAIDs and glucocorticosteroids on the gastric mucosa, scientifically substantiated the inclusion of gastric mucosa protective drugs in the complex therapy of patients to prevent inflammation of the gastric mucosa and subsequent severe complications

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