Retrospective Analysis of Complex Treatment of Patients with the Rectum Cancer

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Summary: A total of 48 patients suffering from rectum cancer were included in this randomized study conducted at the Proctology Department of the Donetsk Regional Anti-Cancer Center. The 24 natients in group I were treated with Ukrain as monotherapy, 10 mg each second day before operation (up to a cumulative dose of 60 mg) and a total of 40 mg after surgical intervention. Repeated Ukrain courses (100 mg per course) were also given 6 months after surgical operation. Patients in group II (24 patients) received an intensive course of high fractional X-ray therapy (cumulative dose up to 25 Gr) with direct protracted endolymphatic chemotherapy with 5fluorouracil (5-FU) instilled in 600 mg/m each day before operation, up to a cumulative dose of 5 g. In each case preoperative treatment was followed by routine surgical operation. 12-years survival in patients of the I group was as much as 75% (6 nationts died), in nationts of the II group - 45.8% (13 nationts died). Comparative investigation of objective and subjective signs, analysis of results of instrument and Xray data, as well as dynamic study of the histological structure of rectal tumors, indicate that Ukrain exerts a more potent malignotoxic and immunomodulating action than other types of anticancer treatment.

Patients and methods

Atotal of 48 patients (50 men and 18 women) sufficing from recal cancer or who had been treated at the Prototology Department of the Dneeds Regional Anticancer Center were enlisted in a rundomized study which was approved by the Ethics Commission of the Center. The patients ages ranged from 36-66 years, the mean value was 56.3 years. The experimental groups were made up of patients with rectal humors corresponding to T3-48N-3M0 and T3-48N-3M0 stages of T3M0 classification without severe accompaning disease or complications of the basis process. Harbogolial verification of fumors carried out in each case before starting the special treatment revealed adenocarcinomas afferent degrees of differentiation in 87.9° Cases.

All patients were subdivided into two randomized groups. Group I comprised 24 patients who received monotherapy with Uffinite it injections of 10 mg each second day before surgical operation (up to 60 mg cumulativ⁴ does) and a total of 40 mg during during during the postportion (patient) of 60 mg cumulativ⁴ does) and a total of 40 mg during of 10 mg during of

The complex preoperative study involved the determination of tumor dimensions are mobility, general and biochemical analysis of the Blood and unive, assessment of immune status (T- and B- lymphocytes court, concentrations of immune globalins A, M, G, plasms content of the circulating immune complexes (CCI) and phagoscyte activity of neutrophilo) in addition, the immune-emzymatic nethod was used to determine the blood content of a fell protein (AF) and carcino-embyour alargine (CEA). Additional topographical data were obtained by means of abdominal sonography and complexed properties of the complexe (AF) and carcino-embyonical antigen (CEA). Additional topographical data were obtained by means of abdominal sonography and complexed properties of the complexed properties of the lumps and other examinations were also performed. Tumor dimensions, measured by rectoscopy, fibroscopy and irrigoscopy, variet from 28.43 4 cauno 8.649 8 cm.

Results

After finishing the specific preoperative treatment for each group, repeated dynamic follow-up examinations were performed. These included assessment of patients general condition, expression of pain syndrome, and measurement of tumor dimensions. The toxicity of chemotherapy with reference to its influence on hemonoiesis was also determined for all groups of patients. The most expressed signs of the toxic action of chemotherapy were found in patients in group II who received combined endolymphatic chemotherapy and radiation therapy. The mean value of the Kamofsky Index decreased from 71.3 to 66.4. In contrast, practically no toxic effects were found in patients in group I, treated with Ukrain, Moreover, in these patients an improvement in the general condition and appetite was observed, as well as the disappearance of partial intestine impassability. Group I patients displayed a certain improvement in hemopoiesis with a statistically significant rise in erythrocyte and lymphocyte counts, while nations treated with combined endolymphatic chemotherapy and radiation therapy showed a tendency to develop anemia and lymphopenia. The Karnofsky Index increased to 78.3% from 70.8%. The most pronounced changes in immune status were also observed in group I patients who received Ukrain monotherapy (Table II). In this group a substantial rise in the T- and B-lymphocyte counts, increased phagocytic activity of neutrophils, and an increased content of immunoglobulins A. M. and G were observed. Reduced plasma concentration of AFP, CIC and CEA was characteristic for group I patients. No marked changes in immune status were detected in group I patients

Reduced tumor dimensions were found in both groups of patients after prosperative freepy. Prosperative Xeny therapy in combination with endolymplatic 5-PU led to recorption of tumors in up to 18% of cases, while the mean value of tumor resorption with Ukrain mountherpay was 22%. Various kinds of rectal resections were performed following preoperative therapy. The majority of the surgical interventions (95.2%) were sphitchers wring in character and involved various kinds of abdominated and resections of the return. Two patients with tumors of the anal canal underweat resection according to Keny-Myles Livic conflictations are considered to the production of the control of th

Clinical observation of all patient groups was conducted for a period of 12 years, do months after the first course of Urarian mootherapy, all patients in group 1 were subjected to repeated Uraria treatment with 10 mg 1x, every other days, up to a cumulative does of 100 mg, in the course of observation of group II patients received complex chemotherapy and X-ray therapy, 12-years survival in patients of the II group was as much as 75% (6 patients died, 1) patients of the II group -4.58% (13 patients died), In all cases prolongation morbi were revealed in patients who had metastasis in recional lumphatic modes.

Table 1. Distribution of colorectal cancer patients according to TNM-classification.

TNM staging	5-FU+X-ray therapy	Patient groups Ukrain therapy
T3N0M0	2	Grant distay
		!
T3NIMD	2	2
T3N2M0	1	1
T3N3M0	3	1
T4N0M0	8	10
T4N1M0	1	2
T4N2M0	3	2
T4N3M0	4	5
Total	24	24

Table 2. Reported side effects in Ukrain monotherapy group.

	of occurrence, # (%)	Grade	Causality	duration, hours	needed	Comments
Depression	3(13)	1-2	Possible	3-5	no	Mild or moderate mood alteration no interfering or sometimes causing difficulty performing some ADL
Insomnia	4(17)	1-2	Probable	2-8	no	Difficulty sleeping, not interfering or weakly interfering with ADL
Sleepiness / somnolence	1(4)	1-2	Probable	8-10	no	Somnolence or sedation interfering with function, but not interfering with ADL
General fatigue	6(25)	1-3	Possible	6-10	no	Mild, moderate, sometimes severe fatigue interfering with ADL
Increased fluid requirement	1(4)	1	Certain	1,5-2	no	lincrease in fluids intake, dry mouth sensation
Increased urination	1(4)	1	Certain	1,5-2	no	Mild increase in frequency and volume or urine, non a ffecting ADL
Local symptoms Nausea	3(13)	1	Possible Possible	18-24- more	no	tension, tingling sensations, mild stabbing burning and/or dragging pains, Itching feeling of warmth in the tumor area no interfering with function and ADL Short-lasting loss of appetite withou
	Han		D 1 11	2		alteration in eating habits

Table 3.	Parameters characterizing the immune status and hemopoiesis of patients	

Parameters		efter	Ukrain therapy before after	
Erythrocytes	3.9 ±0.35	3.4 ±0.21	3.9 ±0.36	4.11 ±0.24
Leukocytes	9.2 ± 0.96	7.4 + 0.88	9.3 ± 1.21	9.1 ±1.51
Lymphocytes	23.8+3.17	17.6 ±2.17	23.9 ±4.01	28.6 ±4.12
Rod-shaped	11.8 ±2.57	13.8 ±3.21	12.1 ±2.56	9.4 ± 8.87
Segmented	55.8 ±3.7	57.6 ± 2.96	55.3 ±3.61	53.4 ± 3.58
Eosinophils	3.5 ±1.11	2.8 ±0.93	3.2 ±0.84	4.3 + 1.24
Monocytes	5.6 ±1.09	5.9 +1.13	6.1 ±1.13	5.8 ±1.08
Proteins	71.02 ±2.18	67.4 ± 1.31	69.2 ± 2.03	76.1 ±2.67
Bilirubin	18.1 ±3.12	21.6±3.18	18.6 ±2.64	16.9 ±2.21
T-lymphocytes	38.8 ± 2.86	34.1 ±2.79	39.3 ± 3.26	46.2 ± 3.48
B-lymphocytes	9.12 + 1.37	8.4 ±1.89	9.14 ± 1.36	11.2 ±2.71
Neutr. phag. activ.	80.2 ± 1.91	85.4 ±1.51	86.4 ± 2.02	98.1 ±2.1
CIC	279.2 ±17.6	296.1 ± 19.31	273.1 ± 18.1	211.6± 15.31
AFP	28.7 + 2.81	30.1 ±3.03	26.2 ±2.01	5.1 ±0.84
CEA	4.8 ±1.02	4.5 +0.87	4.8 ±0.91	1.2 +0.18
MCA	16.2 ±1.83	18.4 +2.12	17.8 ±1.93	4.1 ±0.76
igA	2.93 ± 0.86	3.14 ±0.56	2.87 ±1.17	4.12 ± 1.63
igM	0.76 ±0.11	0.86 ±0.18	0.72 ±0.12	0.96 ±0.21
	126 41 05	14.2 ±1.47		

