Res	rastan Medical search Periodical	Efficiency of Radiotherapy Treatment in Patients with Bone Metastases of Prostate Cancer and Renal-Cell Cancer						
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ABSTRACT	worldwide experient discomfort due to bo Sergienko E. A., 2020 severe pain as the di of life. In recent year neoplasms in all maj tumors detected metastases, includin patient's quality of li	d Health Organization (WHO) show that about 4 million people ce pain every day due to malignant diseases; in half of these people, one metastases is the dominant source of symptoms (Pavlova N. S.,); Radbruch L., 2020). Most patients with bone metastases develop sease progresses, resulting in a significant reduction in their quality rs, there has been a steady increase in the incidence of malignant for localizations. Unfortunately, there remains a high percentage of in stage 4 of the process in the presence of distant g bone metastases. Bone metastases have a very bad impact on the fe. In particular, bone pain is the most common type of pain caused y require opiate analgesics and palliative radiotherapy for pain.						
K	Keywords:	Radiation Therapy, 1 53-Samarium-Oxabiphor, Prostate Cancer, Kidney Cancer, Pain.						

Material and methods of research: The work was carried out at the Department of Oncology of the Samarkand State Medical Institute. The materials of the Republican Specialized Scientific and Practical Medical Center of Oncology (Tashkent), as well as its Samarkand branch and the branch of the city of Tashkent, were used in the work. A retro- and prospective study was carried out to improve the palliative treatment of patients with cancer of the genitourinary system with multiple osteogenic metastases.

The work is based on the monitoring indicators for 110 patients with morphological verification of a malignant neoplasm of the genitourinary system with multiple bone metastases

clinical A test of the and morphological properties of the tumor process was carried out in 110 patients with renal cell carcinoma (RCC) and prostate cancer (PC) with multiple bone metastases in the bones, which were detected by various imaging methods (radioisotope bone scan (MUGA scan), tomography). computed (CT), magnetic resonance imaging (MRI)). In all 110 patients, the histological type of the tumor, the level of malignancy, variants of bone metastases, complications of bone metastases, life spans from the stage of diagnosis to the initial response to treatment and to the case of a skeletal complication were assessed.

Results: The general condition of the patients was assessed according to the subjective data

of the patients: physical and mental data. The change in the intake of analgesics was objectively determined by the medical staff and the patients themselves. Changes in patients' mobility depended on the sensation of pain when walking with or without support. The analgesic effect was assessed subjectively by patients, by changing their need for analgesics (constant pain, night pain, pain during movement, etc.).

Table 1 Distribution of patients according to the Karnofsky scale before treatment

Scor	No	solog	gу								
es on the Vor	Kidney cancer n=48			ca	Prostate cancer n=62			Total			
Kar nov sky scal e	a b s	M(%)	m	a b s	M(%)	m	a b s	M(%)	m	Р	
40	3	6, 25	3, 4 9	5	8, 06	3, 4 6	8	7, 27	2, 4 8		
50	8	16 ,6 7	5, 3 8	1 0	16 ,1 3	4, 6 7	1 8	16 ,3 6	3, 5 3 3,		
60	1 0	20 ,8 3	5, 8 6	1 2	19 ,3 5	5, 0 2	2 2	20 ,0 0	3, 8 1	73;	
70	1 1	22 ,9 2	6, 0 7	1 4	22 ,5 8	5, 3 1	2 5	22 ,7 3	4, 0 0	$X^{H-2} = 16,873$	
80	1 2	25 ,0 0	6, 2 5 3,	1 5	24 ,1 9	5, 4 4	2 7	24 ,5 5	4, 1 0	Хи	
90	4	8, 33	3, 9 9	6	9, 68	3, 7 5	1 0	9, 09	2, 7 4		
Tota l	4 8	10 0, 00	0, 0 0	6 2	10 0, 00	0, 0 0	1 1 0	10 0, 00	0, 0 0		

As can be seen from Table 3.1, the main contingent of patients had a limitation of normal activity while maintaining complete independence of the patient, which amounted

patients, 64 to 62 (56.4%) (58.2%)patients received radiopharmaceutical therapy (samarium oxabifor) in the treatment of multiple osteogenic metastasis. Almost all patients rated the therapy relatively positively, feeling better after adding denosumab and samarium radiopharmaceutical therapy.All analgesics were completely discontinued in only 5 (5.5%) patients, but a marked reduction in their need was evident in the majority of patients. The most obvious benefits of combination therapy were improved mobility and pain relief. The answer is best illustrated by the overall score table (Table 2).

Table2

		-		Ia	ble2		-	-				
					Pr							
					ost							
		Kidney		ate			Та	لمع				
		cancer			са			Total				
	SC				nc							
	or				er							
	e	a b s	M (%)	m	abs	M (%)	m	a b s	M (%)	m		
Genera	ıl cor	ıdit	ion									
decli ne	-1	0	0, 0 0	0, 0 0	0	0, 0 0	0, 0 0	0	0, 0 0	0, 0 0		
With out chan ges	0	1	2, 0 8	2, 0 6	1	1, 6 1	1, 6 0	2	1, 8 2	1, 2 7		
Easy impr ovem ent	1	1 0	2 0, 8 3	5, 8 6	8	1 2, 9 0	4, 2 6	1 8	1 6, 3 6	3, 5 3		
Good impr ovem ent	2	8	1 6, 6 7	5, 3 8	15	2 4, 1 9	5, 4 4	2 3	2 0, 9 1	3, 8 8		
analge	sics		Γ	r		1			1			
incre asing the num ber	-1	0	0, 0 0	0, 0 0	0	0, 0 0	0, 0 0	0	0, 0 0	0, 0 0		
With out	0	1	2, 0	2, 0	2	3, 2	2, 2	3	2, 7	1, 5		

volume	01	July	202.	-						
chan ges			8	6		3	4		3	5
redu cing the num ber to 45%	1	8	1 6, 7	5, 3 8	8	1 2, 9 0	4, 2 6	1 6	1 4, 5 5	3, 3 6
redu cing the num ber to 80%	2	1 0	2 0, 8 3	5, 8 6	12	1 9, 3 5	5, 0 2	2 2	2 0, 0 0	3, 8 1
cessa tion of use	3	0	0, 0 0	0, 0 0	2	3, 2 3	2, 2 4	2	1, 8 2	1, 2 7
Mobili	ty									
decli ne	-1	1	2, 0 8	2, 0 6	1	1, 6 1	1, 6 0	2	1, 8 2	1, 2 7
With out chan ges	-1	1	2, 0 8	2, 0 6	1	1, 6 1	1, 6 0	2	1, 8 2	1, 2 7
Limit ed 50%	1	7	1 4, 5 8	5, 0 9	9	1 4, 5 2	4, 4 7	1 6	1 4, 5 5	3, 3 6
Unli mite d	2	1 0	2 0, 8 3	5, 8 6	13	2 0, 9 7	5, 1 7	2 3	2 0, 9 1	3, 8 8
Pain re	elief									
enha ncing	-1	0	0, 0 0	0, 0 0	0	0, 0 0	0, 0 0	0	0, 0 0	0, 0 0
With out chan ges	0	1	2, 0 8	2, 0 6	2	3, 2 3	2, 2 4	3	2, 7 3	1, 5 5
mild	1	8	1	5,	8	1	4,	1	1	3,

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anest hesia			6, 6 7	3 8		2, 9 0	2 6	6	4, 5 5	3 6
Notic eable pain relief	2	1 0	2 0, 8 3	5, 8 6	14	2 2, 5 8	5, 3 1	2 4	2 1, 8 2	3, 9 4

As can be seen from the table, an improvement in the general condition after combination therapy with the use of targeted therapy and radiopharmaceutical therapy was noted in 56 patients, which amounted to 87.5%. A decrease in the number of analgesics and their dosage was noted in 50 (78.1%) patients, of which 14 (21.8%) patients stopped taking analgesics, out of 50 patients in 28 (56%) patients, the number and dose of decreased admission 80%. to analgesics. Improving mobility in 29 (45.3%) patients, subjective feelings of complete mobility were noted in 35 (54.6%).

Table3

The table of duration of analgesic effect after combination therapy in months

	After	· 1	After	· 2	Aft	er 3
Localizati	dose		dose		dose	
on	М	m	М	m	М	m
Kidney	5,0	0,1	6,6	0,1	6,1	0,2
cancer	6	9	9	9	9	4
Prostate	5,6	0,1	7,5	0,1	7,9	0,2
cancer	6	8	8	9	8	3

As can be seen from the table, with repeated administration of the radiopharmaceutical 3 months after the initial use, the duration of the antianginal effect increases, which is confirmed by statistical methods. At the same time, the 3rd dose of the drug does not lead to an increase in the duration of antianginal therapy.

The duration of benefit after repeated administration of samarium oxybral is also an important indicator of pain relief in palliative care.

The analgesic period increases with repeated administration of samarium in cases where the first administration of the drug had a significant analgesic effect. That is, if a pronounced analgesic effect was noted during the initial administration of samarium, then with the repeated administration of samarium, the period of analgesia increased and vice versa, if the patients did not have a primary response during the initial administration, then the analgesic property was not observed from the repeated administration of samarium.

A milder palliative effect of 153 Sm is explained by a short half-life (46.3 h), as a result, a shorter duration of local irradiation. Treatment with samarium strictly eliminates bone pain and cannot replace general chemotherapy and hormonal drugs.

Pain score (BP).

Mean values and changes in pain assessment 1-3 months after administration of 153 Sm-OXABIFOR are shown in Table 4.

l able-4										
Dointo	Basa	l data	After mon		After mon					
Points	N									
	М	m	М	m	М	m				
Changes in pain assessme nt	8,3 0	0,45	5,3 1	0,24	4,7 9	0,19				
Pain assessme nt	abs	%	abs	%	abs	%				
0	0	0,00	0	0,00	2	6,25				
1	0	0,00	3	9,38	2	6,25				
2	0	0,00	2	6,25	5	15,6 3				
3	0	0,00	6	18,7 5	3	9,38				
4	0	0,00	5	15,6 3	8	25,0 0				
5	0	0,00	5	15,6 3	6	18,7 5				
6	1	3,13	4	12,5 0	1	3,13				
7	3	9,38	5	15,6 3	5	15,6 3				
8	14	43,7 5	2	6,25	0	0,00				
9	14	43,7 5	0	0,00	0	0,00				

Table-4

As can be seen from the table at the beginning of treatment, the intensity of pain was characterized at the level of 6-9 points. 1 month after the administration of 153 Sm-OXABIFOR, the OB changed as follows: 21 (60%) patients showed a decrease in pain, 6 (18.7%) increased pain, and 5 (15.6%) had no effect. Three months after the administration of 153 Sm-OXABIFOR, OB was carried out as follows: pain disappeared in 2 (6.3%) patients, pain decreased in 27 (84.3%) patients, and pain increased in 2 (6.3%) patients. Bone palliative effect was obtained after 1 and 3 months: complete pain relief in 3 (10%) and 2 (6.3%) patients, marked pain relief in 11 (34%) and 10 (31%) patients, slight relief in 10 (31) patients %) and 11 (34%) patients and no effect in 8 (25%) and 9 (28%) patients, respectively.

Painkiller rating. Pain relief was accompanied by a reduction in the required dosage of analgesics. Changes in analgesic score at 1 and 3 months after combination therapy are shown in Table 5.

Table -5 Assessment of the analgesic effect according to the WHO scale

to the who scale.									
Deinte	Basa	al data	Afte mon		After 2 month				
Points	ab s	%	ab s	%	ab s	%			
0 - without analgesic	0	0,00	5	15,6 3	7	21,8 8			
1 without opiate analgesic s, NSAIDs	7	21,8 8	10	31,2 5	12	37,5 0			
2 light opiates	18	56,2 5	10	31,2 5	9	28,1 3			
3 highly active opiates	7	21,8 8	7	21,8 8	4	12,5 0			

Estimates of analgesic effect varied as follows from baseline data: analgesic discontinuation 15.6% and 21.9%, pain relief with NSAIDs 31.3% and 37.5%, mild opiates

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31.3% and 28.1%, potent opiates 21.9% and 25% at 1 and 3 months, respectively. As can be seen from the table, when prescribing an integrated approach in the treatment of osteogenic metastasis of prostate cancer, there is a tendency to reduce the intake of analgesics *Patient mobility*. Pain relief was accompanied by an improvement in the patient's mobility. Mean values and changes in quality of life (QoL) based on the Karnofsky scale (KS) are as follows

Table -6

Mobility of patients after combined treatment

Point	Basal	data	After mont	1 h	After mont	3 h
1 onne	М	m	M	m	M	m
Karnofs ky scale	47,0 0	1,65	67,0 6	1,50	66,0 0	1,34
	abs	%	abs	%	abs	%
20%	0	0,00	0	0,00	0	0,00
30%	0	0,00	1	3,13	0	0,00
40%	1	3,13	1	3,13	1	3,13
50%	12	37,5 0	3	9,38	2	6,25
60%	14	43,7 5	11	34,3 8	10	31,2 5
70%	4	12,5 0	6	18,7 5	6	18,7 5
80%	1	3,13	6	18,7 5	6	18,7 5
90%	0	0,00	3	9,38	5	15,6 3
100%	0	0,00	1	3,13	2	6,25

When comparing data 1 month after combination therapy, the Karnofsky scale was changed as follows: compared with the basal SC 40% - 1 patient; from basal SC 50% - in 3 patients; from basal SC 60% 11 patients, in 6 sick patients SC 70%, 4 patients, 3 patients 90% and in 1 patient SC 100, in 1 patient worsened QoL, which amounted to 30%.

After three months the introduction of 153 Sm-OXABIFOR, QOL was changed as

follows: according to the Karnofsky scale , it was changed as follows: in comparison with the basal SC 40% - 1 patient; from basal SC 50% -

in 2 patients; from basal SC 60% -

11 patients, in 6 patients SC 70%. in 6 patients SC 80%, in 5 patients 90% and in 2 patients SC 100. As can be seen from the table, the overall quality of life of patients tended to improve, that is, at the beginning of treatment on the Karnofsky scale it was 47%, after complex treatment there was а statistically significant difference in improving the quality of life of 66% at the initial 47 (p≤0.05).

Conclusion: To improve the quality of life and reduce the occurrence of pathological fractures in patients with kidney and prostate cancer, the appointment of systemic radiation therapy with 153-samarium oxabifor is indicated, which allows for a long time to stabilize the state of the skeletal system. Based on the developed treatment regimen, the survival rates, average life expectancy and quality of life of patients with multiple bone metastasis of kidney and prostate cancer have been increased.

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