Section II Patient's knowledge about cancer

Table (2): Mean of knowledge among study &control group subjects before, immediately post and after one month from the educational program.

		Before			Imm	ediately Post			After or	ne month		
Knowledge Items	Study Group	Control Group	Independet T	P Value	Study Group	Control Group	Independet T	P Value	Study Group	Control Group	Independet T	P Value
	Mean ±SD	Mean ±SD	Test		Mean ±SD	Mean±SD	Test		Mean ±SD	Mean ±SD	Test	
-Definition of cancer	0.300 ±0.466	0.466 ± 0.507	1.325	>0.05	1.900 ± 0.305	0.466±0.507	13.25	< 0.001	1.800 ± 0.507	0.500 ± 0.508	10.93	< 0.001
-Causes of cancer	0.500 ± 0.508	0.333 ± 0.479	1.306	>0.05	1.766 ± 0.430	0.333±0.479	12.18	< 0.001	1.733 ± 0.449	0.333 ± 0.479	11.66	< 0.001
Treatment of cancer	0.433 ± 0.504	0.266 ± 0.449	1.35	>0.05	1.700 ± 0.466	0.266±0.449	12.21	< 0.001	1.533 ± 0.507	0.266 ± 0.449	10.23	< 0.001
Definition of Radiotherapy	10.466 ±0.507	1.533 ± 0.507	0.509	>0.05	1.666 ± 0.479	1.533±0.507	1.04	< 0.001	1.40 ± 0.498	0.286 ± 0.507	9.02	< 0.001
Purpose of Radiotherapy	0.433 ± 0.504	0.600 ± 0.498	1.288	>0.05	1.633 ± 0.495	0.933±0.449	8.09	<0.001	1.433 ± 0.504	0.600 ± 0.498	6.44	<0.001
Methods of Radiotherapy	0.366 ± 0.490	0.566 ± 0.504	1.558	>0.05	1.666 ± 0.479	0.566±0.504	8.66	<0.001	1.300 ± 0.466	0.566 ± 0.504	5.85	<0.001
Definition of External radiotherapy	1.433 ± 0.405	1.033 ± 0.556	2.919	>0.05	1.633 ± 0.490	1.033±0.556	4.43	<0.001	1.200 ± 0.406	0.468 ± 0.556	6.32	<0.001
Internal radiotherapy	0.900 ± 0.607	0.933 ± 0.449	0.242	>0.05	1.566 ± 0.504	0.933±0.449	5.13	<0.001	1.73 ± 0.449	0.933 ± 0.449	6.88	<0.001

Shows that there were the highest mean score of the study group (1.900 ± 0.305) related to definition of cancer immediately post and (1.200 ± 0.406) related to definition of external radiotherapy after one month.

highly significant improvement in knowledge mean scores of study group regarding to cancer and radiotherapy during immediate post test and one month after test as compared to control group p (<0.001).

Table (3) Mean of knowledge about radiotherapy side effect among Study &control group subjects before, immediately post and after one month from the educational program.

		Before			Imm	ediately Post			After on	e month		
Knowledge Items	Study Group	Control Group	Independet T Test	P Value	Study Group	Control Group	Independ et T	P Value	Study Group	Control Group	Indepe ndet	P Value
	Mean ±SD	Mean ±SD			Mean ±SD	Mean±SD	Test		Mean ±SD	Mean ±SD	T Test	
- Side effects on integumentary system	0.800 ± 0.610	0.600 ± 0.770	1.115	>0.05	1.600 ± 0.498	0.600 ± 0.770	5.97	<0.001	1.300 ± 0.466	0.600 ± 0.770	4.25	<0.001
- Side effects on GIT	0.733 ± 0.583	0.833 ± 0.698	0.602	>0.05	1.600 ± 0.498	0.833 ± 0.698	4.89	<0.001	1.566 ± 0.504	0.833 ± 0.698	4.66	<0.001
Hematopiotic side effects: - Site of bleeding	0.66± 0.479	0.466± 0.507	0.079	>0.05	1.800± 0.406	0.466± 0.507	11.22	<0.001	1.566± 0.405	0.456± 0.502	9.05	<0.001
- Symptoms of anemia	0.600 ± 0.498	0.366± 0.490	0.606	>0.05	1.733± 0.345	0.366± 0.490	11.25	< 0.001	1.633± 0.490	0.366± 0.490	10.00	< 0.001
- Symptoms of infection	0.333± 0.479	0.300± 0.466	0.588	>0.05	1.800± 0.406	0.300± 0.466	13.28	< 0.001	1.533± 0.507	0.300± 0.466	9.80	< 0.001
- Reproductive side effect: If cancer sexually transmission	0.533± 0.507	0.466± 0.507	0.509	>0.05	1.800± 0.406	0.466± 0.507	11.22	<0.001	1.566± 0.405	0.466± 0.507	8.42	<0.001
- Can birth children during radiotherapy	0.633± 0.490	0.666± 0.479	0.598	>0.05	1.733± 0.449	0.666± 0.479	9.80	<0.001	1.433± 0.466	0.666± 0.479	6.80	<0.001

Shows that there were the highest mean score of the study group (1.800 ± 0.406) related to hematopiotic side effects (site of bleeding, infection) & reproductive side effect immediately post and (1.633 ± 0.490) related hematopiotic side effects (anemia) after one month. highly significant improvement in knowledge mean scores of study group regarding to radiotherapy side effect during immediate post test and one month after test as compared to control group p (<0.001).

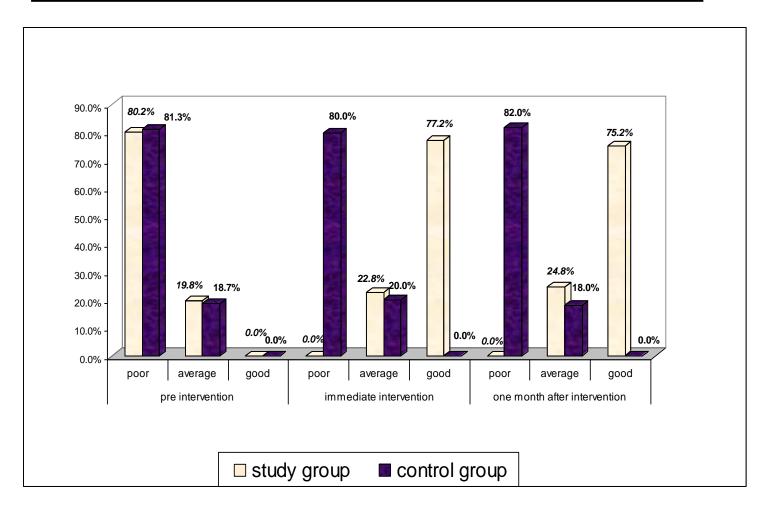


Figure (1): Total knowledge of the study group subjects pre, immediately and after on month of educational program.

Part (III) Patient practice about radiotherapy side effect

Table (4) Knowledge regarding practice toward reducing radiotherapy side effect .

		Before			Imm	ediately Post	,		After o	ne month		
Knowledge as regarding:-	Study Group	Control Group	Independet	P Value	Study Group	Control Group	Independet T	P Value	Study Group	Control Group	Independet T	P Value
	Mean ±SD	Mean ±SD	T Test		Mean ±SD	Mean±SD	Test		Mean ±SD	Mean ±SD	Test	
Skin reaction	0.500±0.433	.0.700±0.466	1.588	>0.05	1.666±0.479	0.700±0.466	7.91	< 0.001	1.500±0.508	0.700±0.466	6.35	< 0.001
Nausea	0.500±0.508	0.433±0.504	0.510	>0.05	1.733±0.449	0.433±0.504	10.45	< 0.001	1.33±0.479	0.433±0.504	7.08	< 0.001
vomiting	0.633±0.490	0.660 ± 0.479	0.266	>0.05	1.633±0.490	0.666±0.479	7.72	< 0.001	1.566±0.504	0.666±0.479	7.08	< 0.001
Diarrhea	0.566±0.504	0.433±0.504	1.025	>0.05	1.666±0.479	0.433±0.504	9.71	< 0.001	1.566±0.504	0.433±0.504	8.70	< 0.001
Constipation	0.866±0.681	0.566±0.626	1.776	>0.05	1.700±0.466	0.566±0.626	7.95	< 0.001	1.33±0.479	0.566±0.626	5.35	< 0.001
Muocitis & Thorthroat	0.466±0.507	0.666±0.479	1.569	>0.05	1.800±0.406	0.666±0.479	9.87	<0.001	1.43±0.504	0.666±0.479	6.03	< 0.001
Anorexia	0.300±0.466	0.566±0.504	2.128	>0.05	1.933±0.253	0.566±0.504	13.26	< 0.001	1.63±0.496	0.566±0.504	8.31	< 0.001
Fatigue & tiredness	0.300±0.466	0.366±0.490	0.40	>0.05	1.900±0.305	0.366±0.495	14.54	<0.001	1.53±0.507	0.366±0.490	9.05	< 0.001
Bleeding	0.666±0.479	0.466±0.507	1.569	>0.05	1.63±0.490	0.466±0.407	9.05	< 0.001	1.800±0.406	0.466±0.507	11.22	< 0.001
Anemia	0.266±0.449	0.366±0.490	1.829	>0.05	1.73±0.449	0.366±0.495	11.25	< 0.001	1.866 ± 0.345	0.366 ± 0.490	13.69	< 0.001
Infection	0.566±0.504	0.533±0.507	0.255	>0.05	1.866±0.345	0.366±0.490	13.69	< 0.001	1.700 ± 0.466	0.533 ± 0.507	9.27	< 0.001
anxiety	0.833±0.746	0.600±0.498	1.270	>0.05	1.200±0.466	0.533±0.507	9.27	< 0.001	1.933 ± 0.253	0.600± 0.679	10.13	< 0.001

Shows that there were the highest mean score of the study group (1.200 ± 0.466) immediately post and (1.933 ± 0.2530) after one month related (anxiety). highly significant improvement in knowledge regarding to practice mean scores of study group toward radiotherapy side effect during immediate post test and one month after test as compared to control group p (<0.001).

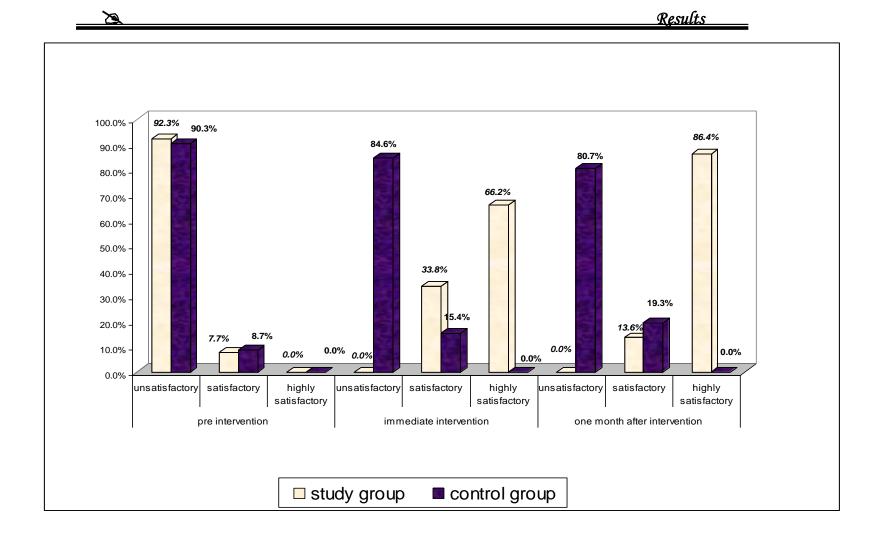


Figure (2) Total knowledge regarding to practice toward reducing radiotherapy side effect of the study group subjects pre, immediately and after on month of educational program.

Table (5) Distribution of radiotherapy side effect among study group subjects at different times pre, immediately, after one month .

			diotherapy si		I	8 · I · · · J				, , , , , , , , , , , , , , , , , , ,		
		Before			Imm	ediately Post			After or	ne month		
Patient problems	Study Group	Control Group	Independet T	P Value	Study Group	Control Group	Independet T	P Value	Study Group	Control Group	Independet T	P Value
	Mean ±SD	Mean ±SD	Test		Mean ±SD	Mean±SD	Test		Mean ±SD	Mean ±SD	Test	
Nausea	0.466 ± 0.507	0.566 ± 0.502	0.766	>0.05	0.533 ± 0.507	0.600 ± 0.498	0.513	< 0.05	0.333 ± 0.479	0.600± 498	2.11	< 0.05
Vomiting	0.666± 0.479	0.633 ± 0.490	0.266	>0.05	0.333 ± 0.479	0.600± 0.498	2.11	< 0.05	0.266 ± 0.449	0.600 ± 0.498	2.27	< 0.05
Mucositis	0.733 ± 0.449	0.633 ± 0.490	0.823	>0.05	0.266± 0.449	0.666± 0.479	3.33	< 0.05	0.266± 0.449	0.666 ± 0.479	3.33	< 0.05
Constipation	0.633 ± 0.490	0.800 ± 0.406	1.43	>0.05	0.366 ± 0.490	0.766 ± 0.430	3.36	< 0.001	0.366 ± 0.490	0.766 ± 0.430	3.36	< 0.001
Diarrhea	0.800 ± 0.406	0.733 ± 0.449	0.602	>0.05	0.200 ± 0.406	0.766 ± 0.431	5.26	< 0.05	0.667 ± 0.253	0.766 ± 0.430	7.67	< 0.001
Altered taste	0.700 ± 0.466	0.700 ± 0.466	0.00	>0.05	0.300 ± 0.466	0.666± 0.479	3.00	< 0.05	0.300 ± 0.466	0.666 ± 0.479	3.00	< 0.05
Anorexia	0.666 ± 0.479	0.800 ± 0.406	1.61	>0.05	0.333 ± 0.479	0.766 ± 0.430	3.68	< 0.05	0.233 ± 0.430	0.766 ± 0.430	4.80	< 0.001
Dry mouth	0.733 ± 0.449	0.700 ± 0.466	0.282	>0.05	0.266 ± 0.449	0.666± 0.479	3.33	< 0.001	0.166± 0.379	0.666 ± 0.479	4.81	< 0.001
Stress	0.833 ± 0.379	0.700 ± 0.466	0.21	>0.05	0.166± 0.379	0.666± 0.479	4.48	< 0.001	0.133 ± 0.345	0.666 ± 0.479	4.94	< 0.001
Fatigue	0.366± 0.490	0.533 ± 0.507	1.29	>0.05	0.633 ± 0.490	0.566 ± 0.504	0.519	>0.05	0.200 ± 0.406	0.666 ± 0.479	3.10	< 0.05
Heart burn	0.566 ± 0.504	0.633 ± 0.490	0.519	>0.05	0.433 ± 0.504	0.666± 0.479	1.83	>0.05	0.200± 0.406	0.666 ± 0.479	4.06	< 0.001
Wight loss	0.366±0.490	0.533 ± 0.507	1.294	>0.05	0.533 ± 0.490	0.500 ± 0.508	1.03	>0.05	0.433 ± 0.504	0.500 ± 0.508	0.510	>0.05
Skin changes	0.900 ± 0.305	0.733 ± 0.449	1.68	>0.05	0.100 ± 0.305	0.966 ± 0.430	1.00	>0.05	0.066± 0.253	0.766 ± 0.430	7.97	< 0.001
Difficult	0.780 ± 0.466	0.866 ± 0.345	1.03	>0.05	0.700 ± 0.466	0.833 ± 0.379	1.06	< 0.05	0.366± 0.490	0.833 ± 0.379	4.12	< 0.001
swallowing												

Shows that there were the highest mean score of the study group (0.700 ± 0.466) related to difficult swallowing immediately post and (0.667 ± 0.253) related to diarrhea after on month. statistically significant improvement towered reducing radiotherapy side effect of study group with p value<0.05 except (skin change ,weight loss, heart burn &fatigue) Also highly statistical significance in (constipation, Dry mouth & stress) p (<0.001) immediately post test as compared to control group and after one month highly significance improvement except (weight loss) .Also statistically significance in (nausea vomiting, Mucositis , Altered taste, fatigue) as compared to control group.

Part IV Patient Quality of life before, immediately post, and one month after.

Table (6): percentage distribution of the stages regarding their physical status for Study &control group subjects.

		В	efore				Im	mediatel	y pos	t			Aft	er one r	nont	h		
Variable	stuc Gro	dy oup	Cor	ntrol up	*** 2	.	stu Gre	dy oup	Con		* 72	_	stuc Gro	•	Con	ntrol up	x z2.	
	N	%	N	%	\mathbf{X}^2	P	N	%	N	%	\mathbf{X}^2	P	N	%	N	%	X^2	P
Feeling of fatigue Absent	0	0	0	0			14	46.7	14	46.7			9	30	13	43.3		
Mild	0	0	0	0	1.87	>0.05	16	53.3	14	46.7	30.55	<0.001	9	30	11	36.7	43.70	<0.001
Moderate	10	33.3	10	33.3	1.07	>0.05	0	0	2	6.6	30.33	<0.001	12	40	6	20	43.70	<0.001
Sever	20	66.7	20	66.7			0	0	0	0			0	0	0	0		
Feeling of Loss of apatite Absent	0	0	0	0	0.072	>0.05	18	60	16	53.3	50.74	<0.001	5	16.7	4	13.3	61.16	<0.001
Mild	0	0	0	0	0.072	70.05	7	23.3	9	30	20.74	10.001	14	46.7	5	16.7	01.10	\ 0.001
Moderate	10	33.3	11	36.7			5	16.7	5	16.7			7	23.3	10	33.3		
Sever	20	66.7	19	63.3			0	0	0	0			4.	13.3	11	36.7		
Feeling of -Presences of pain Absent	0	0	0	0	0.835	>0.05	6	20	12	40	46.55	<0.001	8	26.6	8	26.7	50.76	<0.001
Mild	0	0	0	0	0.000	7 0.00	15	50	9	30	10.00	10.001	11	36.7	13	43.3	20170	10.001
Moderate	8	26.7	11	36.7			9	30	9	30			11	36.7	9	30		
Sever	22	73.3	19	63.3			0	0	0	0			0	0	0	0		
Feeling of Sleeping disturbance Absent	0	0	0	0			16	53.3	17	56.7			4	13.3	9	30		
Mild	0		0	0			14	46.7	13	43.3]		22	73.3	17	56.7		
Moderate	19	63.3	6	20	0.574	>0.05	0	0	0	0	26.21	< 0.001	4	13.3	4	3.3	40.30	< 0.001
Sever	11	36.7	24	80			0	0	0	0			0	0	0	0		

Continue (6)

Feeling of Nausea &vomiting Absent	0	0	0	0	6.136	>0.05	0	0	0	0	44.31	<0.001	14	46.7	10	33.3	60.55	<0.001
Mild	0	0	0	0			11	36 .7	7	23.3			14	46.7	15	50		
Moderate	24	80	22	73.3			12	40	16	53.3			16	53.3	5	16.7		
Sever	6	20	8	26.7			7	23.3	7	23.3			0	0	0	0		
Feeling of Diarrhea or constipation Absent	0	0	0	0			0	0	0	0			10	33.3	7	23.3		
Mild	0	0	0	0	0.568	>0.05	5	16.7	5	16.7	37.27	< 0.001	17	56.7	17	56.7	40.50	< 0.001
Moderate	21	70	21	70			22	73.3	16	53.3			3	10	6	20		
Sever	9	30	9	30			3	10	9	30			0	0	0	0		
Feeling of Skin change	0	0	0	0			6	20	6	20			10	33.3	0	0		
Absent					0.938	>0.05					44.55	<0.001					49.43	<0.001
Mild	0	0	0	0			18	60	14	46.7			1	3.3	1	3.3		
Moderate	10	33.3	6	20			6	20	10	33.3			19	63.3	16	53.3		
Sever	20	66.7	24	80			0	0	0	0			0	0	13	43.3		
Feeling of Alopecia Absent	0	0	0	0		. 0.05	5	16.7	2	6.7	56.05	.0.001	5	16.7	9	30	(0.25	.0.001
Mild	0	0	0	0		>0.05	18	60	23	76.6	56.87	< 0.001	9	30	5	16.7	69.25	<0.001
Moderate	22	73.3	21	70	0.292		5	16.7	3	10			12	40	12	40		
Sever	8	62.7	9	30			2	6.6	2	6.7			4	13.3	4	13.3		
-Feeling of Dry	0	0	0	0			9	30	13	43.3			9	30	13	43.3		
mouth Absent					2.571	>0.05					16.81	<0.05					53.73	<0.001
Mild	0	0	0	0			21	70	17	56.7			21	70	17	56.7		
Moderate	5	16.7	9	30			0	0	0	0			0	0	0	0		
Sever	25	83.3	21	70			0	0	0	0	ĺ		0	0	0	0		

Results

Shows that there were highly significant improvement regarding physical health dimension of study group during immediate post test and one month after test as compared to control group $p \ (< 0.001)$

Results 70.0% 70.0% 60.6% 56.7% 56.7% 60.0% 50.0% 50.0% 43.3% 40.0% 36.7% 40.0% 30.0% 26.7% 26.7% 30.0% 16.6% 20.0% 13.3% 6.7% 10.0% 3.3% 0.0% 0.0% 0.0% moderat moderat high low low moderat hgh low high quality quality quality quality quality quality quality quality quality pre intervention immediate intervention one month after intervention study group ■ control group

Figure (3): Total physical dimension of quality of life of the study group subjects pre, immediately and after on month of educational program.

Results Results

Table (7): Percentage distribution of the stages regarding their psychological status for Study & control group subjects

		Be	fore				Imn	nediately	y post				Afte	er one n	nonth	l		
Variable	stud Gro	v	Con		\mathbf{X}^2	P	stud Gro	•	Cont		\mathbf{X}^2	P	stud Gro	•	Con	ntrol up	\mathbf{X}^2	P
	N	%	N	%	Λ	P	N	%	N	%			N	%	N	%		
difficult to cope	1	3.3	2	6.7			18	60	12	40			15	50	4	13.3		
with radiotherapy Absent					2.92	>0.05					66.42	<0.001					67.27	<0.001
Mild	10	33.3	10	33.3			12	40	9	30			13	43.3	10	33.3		
Moderate	19	63.3	18	60			0	0	9	30			2	6.7	16	53.3		
Sever	0	0	0	0			0	0	0	0			0	0	0	0		
Pad over all quality of life Absent	0	0	0	0			14	46.7	9	30			12	40	6	20		
Mild	13	43.3	16	53.3	0.002	>0.05	13	43.3	6	20	61.22	< 0.001	14	46.7	11	36.7	63.92	< 0.001
Moderate	17	56.7	14	46.7			3	10	12	40			4	13.3	10	33.3		
Sever	0	0	0	0			0	0	3	10			0	0	3	10		
Not Satisfying for life	0	0	4	13.3			15	50	5	16.7			15	50	5	16.7	67.02	<0.001
Absent Mild	12	40	1.4	46.7	4.55	>0.05	13	12.2	14	46.7	52.24	< 0.001	13	43.3	1.4	167		
Moderate	18	60	14	40.7	1000		2	43.3 6.7	7	23 .3	10212	100002	2	6.7	14 7	46.7 23 .3		
Sever	0	0	0	0			0	0.7	4	13.3			0	0.7	4	13.3		
Unable to	0	0	0	0			13	43.3	11	36.7			18	60	14	46.7		
concentrating or remembering things					0.792	>0.05					18.69	<0.05					33.34	<0.001
Absent	1.0	40.0	10				12	16		20	1		12	40		20	1	
Mild Moderate	13	43.3	19	63.3			12	40	9	30			12	40	9	30	4	
Moderate	17	56.7	11	36.7			5	16.7	10	33.3	4		0	0	7	23 .3	_	
Sever	0	0	0	0			0	0	0	0			0	0	0	0		

Do feel a person not							1											
useful Absent	0	0	0	0	3.40	>0.05	15	50	4	13.3	29.58	<0.001	18	60	15	50	46.06	<0.001
Mild	7	23 .3	6	20			14	46.7	22	73.3			12	40	15	50		
Moderate	18	60	19	63.3			1	3.3	4	13.3			0	0	0	0		
Sever	5	16.7	5	16.7			0	0	0	0			0	0	0	0		
Distressing about	0	0	0	0			18	60	14	46.7			12	40	11	36.7		
initial radiotherapy Absent											60.34	<0.001					62.16	<0.001
Mild	0	0	0	0	2.51	>0.05	12	40	16	53.3			16	53.3	12	40	1	
Moderate	16	53.3	15	50			0	0	0	0			2	6.7	7	23 .3		
Sever	14	46.7	15	50					0	0			0	0	0	0		
- Distressing about																		
the time of																		
radiotherapy Absent	0	0	0	0	2.35	>0.05	19	63.3	5	16.7	25.71	<0.05	22	73.3	20	66.7	33.37	<0.001
Mild	6	20	4	13.3			11	36.7	22	73.3			8	26.7	10	33.3		
Moderate	20	66.7	14	46.7			0	0	3	10			0	0	0	0		
Sever	4	13.3	12	40			0	0	0	0			0	0	0	0		
feeling of anxiety Absent	0	0	0	0			14	46.7	1	3.3	(2.01	0.001	22	73.3	20	66.7	(0.06	0.001
Mild	6	20	4	13.3			7	23	19	63.3	62.01	< 0.001	8	26.7	10	33.3	60.06	<0.001
Moderate	11	36.7	13	43.3	2.48	>0.05	9	30	10	33.3			0	0	0	0		
Sever	13	43.3	13	43.3			0	0	0	0			0	0	0	0	1	
feeling of	0	0	0	0			12	40	11	36.7			26	86.7	22	73.3		
depression Absent																		
Mild	5	16.7	13	43.3	3.54	>0.05	15	50	13	43.3	64.14	< 0.001	4	13.3	4	13.3	61.26	< 0.001
Moderate	19	63.3	16	53.3			3	10	6	20			0	0	4	13.3		
Sever	6	20	1	3.3			0	0	0	0			0	0	0	0		
fearful from second	0	0	0	0			14	46.7	11	36.7			16	53.3	16	53.3		
cancer Absent																		
Mild	3	10	4	13.3	1.12	>0.05	14	46.7	12	40	26.06	<0.05	10	33.3	8	26.7	46.07	<0.001
Moderate	15	50	19	63.3	1.12	70.05	2	6.6	7	23 .3	20.00	10.05	4	13.3	6	20	10.07	\0.001
Sever	12	40	7	23 .3			0	0	0	0			0	0	0	0	1	

Continue (7) Results

fearful from side effects of radiotherapy Absent	0	0	0	0	1.46	>0.05	13	43.3	7	23.3	36.58	<0.001	15	50	12	40	50.72	<0.001
Mild	1	3.3	9	30			12	40	10	33.3			12	40	6	20		
Moderate	16	53.3	14	46.7			5	16.7	10	33.3			3	10	12	40		
Sever	13	43.3	7	23 .3			0	0	3	10			0	0	0	0		
-fearful from	2	6.7	3				12	40	11	36.7			12	40	13	43.3		
spreading Absent			10		3.05	>0.05					60.07	<0.001					18.36	<0.05
Mild	16	53.3	18	60			12	40	6	20			18	60	10	33.3		
Moderate	12	40	9	30			6	20	13	43.3			0	0	7	23.3		
Sever	0	0	0	0			0	0	0	0			0	0	0	0		

Shows that there was highly statistically significant improvement regarding their psychological dimension of study group immediately post and after one month with p (<0.001). Also statistically significance in (Unable to concentrating or remembering things, Fearful from secondary cancer & Distressing about the time of radiotherapy) immediately post test and (fearful from spreading) one month after test with p (<0.05) as compared to control group.

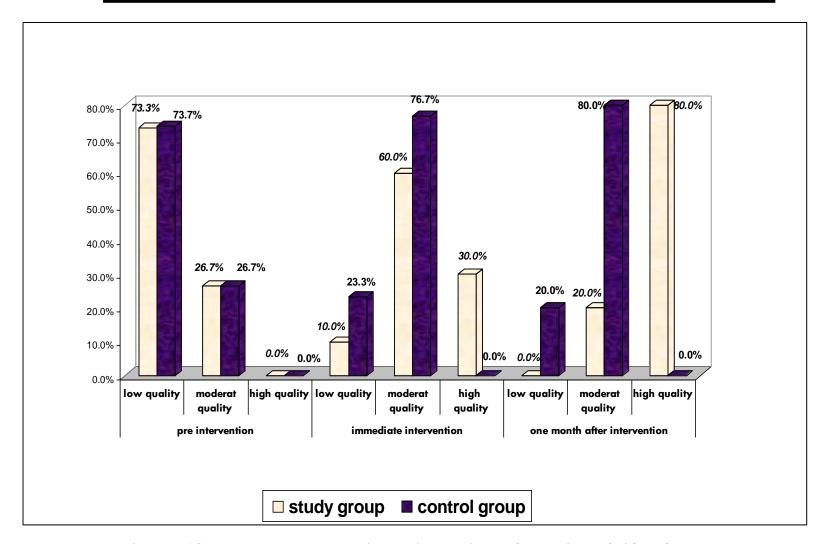


Figure (4): Total psychological dimension of quality of life of the study group subjects pre, immediately and after on month educational program.

Table (8): Percentage distribution of the stages regarding their social status for study group subjects

		В	efore				Imr	nediatel	y pos	st			Aft	er one n	nont	h		
Variable	stu Gre	dy oup	Con	ntrol up	\mathbf{X}^2	P	stuc Gro	v	Con	ntrol up	\mathbf{X}^2	P	stuc Gro	•	Con	ntrol up	\mathbf{X}^2	P
	N	%	N	%			N	%	N	%			N	%	N	%		
Extent to which illness is a sad thing for the family Absent	0	0	0	0			15	50	17	56.7			15	50	12	40		
Mild	11	36.7	2	6.6	14.06	>0.05	12	40	11	36.7	40.69	< 0.001	12	40	16	53.3	26.78	<0.001
Moderate	13	43.3	11	36.3	-		3	10	2	6.6	-		3	10	2	6.7		
Sever	6	20	17	56.7			0	0	0	0			0	0	0	0		
supporting received from others not enough Absent	0	0	0	0			13	43.3	1	3.3			21	70	18	60		
Mild	17	56.7	11	36.7	8.004	>0.05	9	30	19	63.3	7.94	>0.05	7	23.3	12	40	5.23	>0.05
Moderate	5	16.6	17	56.7			8	26.7	10	33.3	-		2	6.7	0	0		
Sever	8	26.7	2	6.6			0	0	0	0			0	0	0	0		
extant that affects radiotherapy to personal relation ship Absent	0	0	0	0			16	53.3	3	10			24	80	3	10		
Mild	11	36.7	3	10	4.22	>0.05	11	36.7	13	43.3	12.98	< 0.05	5	16.7	13	43.3	35.4	<0.001
Moderate	9	30.0	9	30			3	10	14	46.7			1	3.3	14	46.7		
Sever	10	33.3	18	60			0	0	0	0			0	0	0	0		
extant that affects radiotherapy to sexuality Absent	0	0	0	0			19	63.3	4	13.3			22	73.3	1	3.3		
Mild	15	50.0	14	46.7	1		7	23.3	16	53.3	12.20	< 0.05	4	13.3	15	50	5.95	>0.05
Moderate	14	46.7	12	40	5.86	>0.05	4	13.3	10	33.3	1		4	13.3	14	46.7		
Sever	1	3.3	4	13.3			0	0	0	0			0	0	0	0		

Continue (8)

To what extant that affects radiotherapy																		
to job Absent	0	0	0	0			22	73.3	5	16.7			24	80	5	16.7		
Mild	11	36.7	11	36.7	11.30	>0.05	8	26.7	21	70	4.97	>0.05	6	20	17	56.7	5.73	>0.05
Moderate	16	53.3	14	46.7	22.00	7 0100	0	0	4	13.3		" " " " " " " " " " " " " " " " " " "	0	0	8	26.6		" " " " " " " " " " " " " " " " " " "
Sever	3	10.0	5	16.6			0	0	0	0			0	0	0	0		
To what extant	0	0	0	0			2	6.7	21	70			21	70	1	3.3		
that affects					15.92	>0.05					2.22	>0.05						
radiotherapy to																		
activity at home Absent																	0.426	>0.05
Mild	25	83.3	6	20			25	83.3	9	30			9	30	23	76.7	00120	" " " " " " " " " " " " " " " " " " "
Moderate	4	13.3	22	73.3			3	10	0	0			0	0	6	20		
Sever	1	3.3	2	6.7			0	0	0	0			0	0	0	0		
Isolation caused by	0	0	0	0	11.48	>0.05	9	30	4	13.3	16.11	< 0.05	4	13.3	9	30		
radiotherapy					22010	7 000					10011	1000						
Absent Mild	8	26.7	0	0			21	70	10	33.4			10	33.3	15	50	33.24	<0.001
Moderate	20	66.7	11	36.7			0	0	12	40			12	40	6	20	00.2	10.001
Sever	2	6.6	19	63.3			0	0	4	13.3			4	13.3	0	0		
financial burden	0	0.0	0	0	7.42	>0.05	6	20	25	83.3	6.31	>0.05	25	83.3	1	3.3		
Absent		Ū		O	/ •≒∠	/0.03		20	23	05.5	0.31	/0.03		00.0		2.2		
Mild	11	36.3	5	16.7			13	43.3	5	16.7			5	16.7	13	43.3	2 21	
Moderate	15	50.0	11	36.7			11	36.7	0	0			0	0	16	53.4	3.31	>0.05
Sever	4	13.3	14	46.6			0	0	0	0			0	0	0	0	1	

Shows that there was statistically significant improvement regarding item of social dimension of study group (Extant that affects radiotherapy to personal relation ship ,Extant that affects radiotherapy to sexuality & Isolation caused by radiotherapy) immediately post test with P(<0.05) Also highly statistically significance in (Extent to which illness is a sad thing for the family, extant that affects radiotherapy to personal relation ship & Isolation caused by radiotherapy) after one month with p(<0.001) as compared to control group.

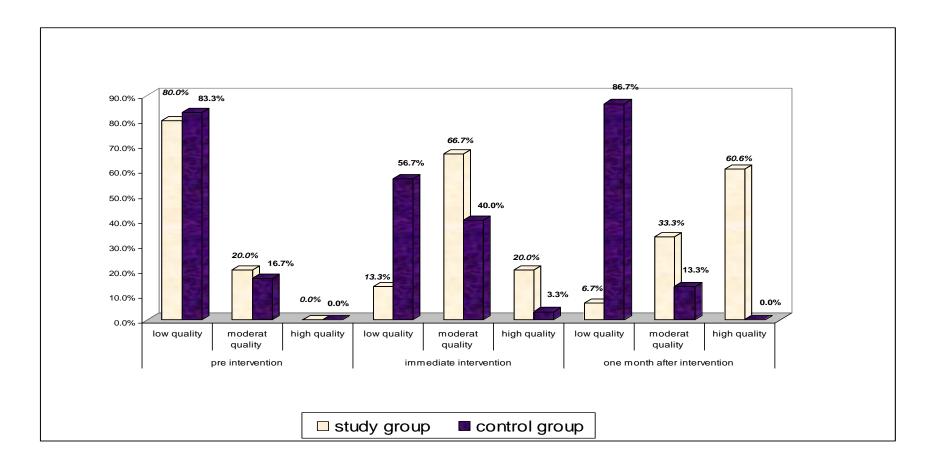


Figure (5): Total social dimension of quality of life of the study group subjects pre, immediately and after on month of educational program.

Table (9): Percentage distribution of the stages regarding their spiritual status for study group subject

Table (9): Percent	l		efore	or the sta	. <u>500 10501</u>			nediatel			\mathbf{X}^2	P	Afte	r one r	nonth		\mathbf{X}^2	P
	atura			ntrol					Con		1	1	stud		Cont		21	•
Variable	stuc	•	l				stuc	·						·				
v ariable	Gro		gro	-	x z2	n	Gro		grou				Gro		grou			
	N	%	N	%	\mathbf{X}^2	P	N	%	N	%			N	%	N	%		
Amount of supporting	12	40	10	33.3			7	23.3	9	30			17	56.6	12	40		
from religious activities																		
Absent					7 000	> 0.05					10.06	> 0 05					07.2	. 0.05
Mild	3	10	13	43.3	7.009	>0.05	12	40	15	50	10.96	>0.05	11	36.7	10	33.3	97.2	>0.05
Moderate	15	50	7	23.3			11	36.7	6	20			2	6.7	8	26.7		
Sever	0	0	0	0			0	0	0	0			0	0	0	0		
Amount of support	10	33.3	13	43.3			9	30	8	26.7	16.88	< 0.05	13	43.3	10	33.3	24.57	< 0.05
personal spiritual																		
activities Absent					7.20	. 0.05												
Mild	9	30	8	26.7	7.29	>0.05	11	36.7	14	46.6			9	30	11	36.7		
Moderate	11	36.7	9	30			10	33.3	8	26.7			8	26.7	9	30		
Sever	0	0	0	0			0	0	0	0			0	0	0	0		
Amount of confused	1	3.3	4	13.3			19	63.3	4	13.3	11.92	< 0.05	19	63.3	0	0		
about the future																	18.36	< 0.05
Absent					5 06	. 0.05									ļ		10.50	\0.03
Mild	14	46.7	12	40	5.86	>0.05	7	23.3	12	40			9	30	17	56.7		
Moderate	15	50	14	46.7			4	13.3	14	46 .7			2	6.7	13	43.3		
Sever	0	0	0	0			0	0	0	0			0	0	0	0		
Radiotherapy not cause	3	10	13	43.3			22	73.3	4	13.3			20	66.7	8	26.7		
any positive change in life																		
Absent Mild	1.0	52.2	1.4	167			0	267	10	40			10	2.2	10	(2.2		
	16	53.3	14	46.7	2.02	0.05	8	26.7	12	40		0.05	10	3.3	19	63.3	12.40	0.05
Moderate	11	36.7	3	10	3.93	>0.05	0	0	14	46.7	6.31	>0.05	0	0	3	10	13.40	< 0.05
Sever	0	0	0	0			0	0	0	0			0	0	0	0		
Sense of areas on for													l					
being a life Absent	1	3 .3	2	6.7			18	60	8	26.7			15	50	2	6.6		
Mild	4	13.3	22	73.3	5.92	>0.05	12	40	19	63.3	1.59	>0.05	12	40	11	36.7	12.88	< 0.05
Moderate	25	83.3	6	20	J.74	70.05	0	0	3	10	1.07	70.03	3	10	17	56.7	12.00	70.05
Sever	0	0	0	0			0	0	0	0			0	0	0	0		

Continue (9)

Don't feel hopeful for life Absent	2	6.7	19	63.3	1.14	>0.05	0	0	19	63.3	19.85	< 0.05	15	50	12	40	23.25	<0.001
Mild	20	66.6	11	36.7			14	46.7	11	36.7			14	46.7	11	36.7		
Moderate	8	26.7	0	0			12	40	0	0			1	3 .3	7	23.3		
Sever	0	0	0	0			4	13.3	0	0			0	0	0	0		

Shows that there was statistically significant improvement regarding their spiritual dimension of study group (Amount of support personal spiritual activities, Amount of confused about the future don't feel hopeful for life) immediately post test and statistically significant after one month in all items Except (amount of supporting from religious activities) with P < 0.05. Also highly statistically significance in (Don't feel hopeful for life) with P < 0.001 as compared to control group.

Results Results

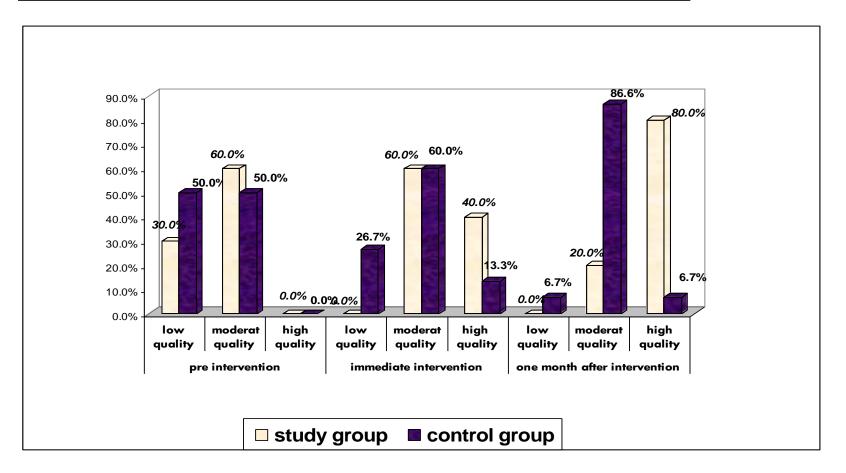


Figure (6): Total spiritual dimension of quality of life of the study group subjects pre, immediately and after on month of educational program.

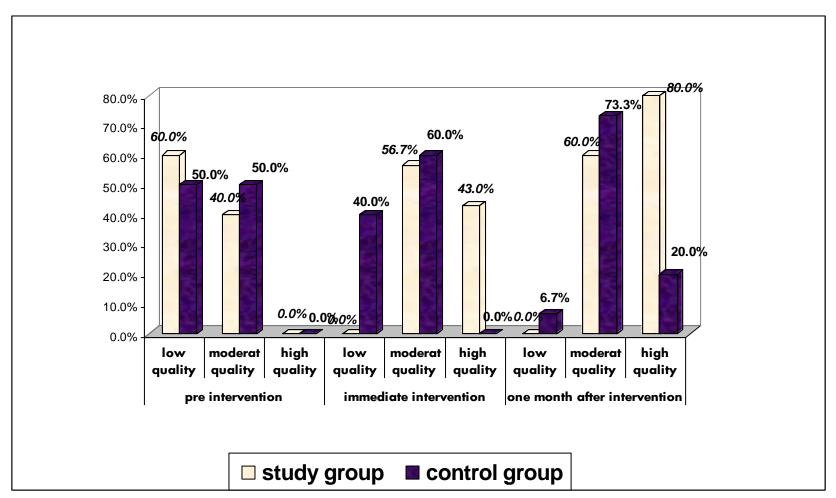


Figure (5): Total of quality of life of the study group subjects pre, immediately and after on month.

Table (10) Relation betweentotal quality of life and sociodemographic variable (age, sex and marital status) of the study group pre, immediately and after one month of educational program

Total quality score		Total qu	iality sc	ore at P	retes	t	Tot	al qua	•	score a ost test	t Imme	ediate	Total quality score at Follow-uptest						
Variable	Low Mode		erate High		ligh	Low		Moderate		High		Low		Moderate		Hi	gh		
Age	No	%	No	%	No	%	No	%	No	%	No	%	No	%	No	%	No	%	
Less than 30	4	13.3	0	0.0	0	0.0	3	10	1	3.3	0	0.0	0	0.0	1	3.3	3	10	
30 to less than 40	6	20	1	3.3			0	0.0	7	23	0	0.0			2	6.7	5	16.7	
40 ot less than 50	11	36.7	1	3.3	0	0.0	0	0.0	0	0.0	12	40	0	0.0	0		12	40	
50 to 60	6	20	1	3.3	0	0.0	1	3.3	4	13.3	2	6.7	0	0.0	0		7	23	
X2	X2 = 0.767			P >0.05			X2 = 38.72			P < 0.001		X2 = 5.79			P<0.05				
Sex																			
Meal	12	40	1	3.3	0	0.0	3	10	2	6.7	8	26.6	0	0.0	1	3.3	12	40	
female	15	50	2	6.7	0	0.0	1	3.3	10	33.3	6	20	0	0.0	2	6.7	15	50	
X2	X	2 = 0.136	j	P >0.05			X2 = 6.19			P <	0.05	X2 = 0.136				P >0.05			
Marital status																			
single	2	6.7	0	0.0	0	0.0	2	6.7	0	0.0	0	0.0			0	0.0	2	6.7	
Married	19	63.3	2	6.7	0	0.0	2	6.7	8	26.6	11	36.7			2	6.7	19	36.3	
Divorce	6	20	1	3.3	0	0.0	0	0.0	4	13.3	3	10			1	3.3	6	20	
X2	X2 = 0.370					X2 =	1 4.86		P < 0.0	5	X2 = 0.370				P >0.05				

This table shows that there were a highly significant relation between total QOL ,age immediately post with p< 0.001 Also statistical significance between total QOL ,sex ,marital status immediately post test and between total QOL , age after one month with p<0.05 .

Results Results

Table (11) Relation betweentotal quality of life and sociodemographic variable (diagnosis, occupation and level of education) of the study group pre, immediately and after one month of educational program

Total quality score		Total qu	iality sc	ore at I	Pretes	t	Tot	al qua	•	score a		ediate	Total quality score at Follow-up test							
Variable	Low Mode		erate High			Lo)W	Moderate		High		Low		Moderate		High				
Diagnosis	No	%	No	%	No	%	No	%	No	%	No	%	No	%	No	%	No	%		
Cancer brain	9	30	0	0.0	0	0.0	1	3.3	6	20	0	0.0	0	0.0	2	6.7	7	23.3		
Cancer breast	7	23	1	3.3	0	0.0	3	10	6	20	2	6.7	0	0.0	1	3.3	7	23.3		
Cancer bladder	8	26.6	2	6.7	0	0.0	0	0.0	0	0.0	9	30	0	0.0	0	0.0	0	0.00		
Cancer uterus	3	10	0	0.0	0	0.0	0	0.0	0	0.0	3	10	0	0.0	0	0.0	13	43.3		
X2	X2 = 2.50 >0.05						X2 = 22.13 $P < 0.05$						X2 = 56.6				P < 0.001			
Occupation																				
Work	10	33.3	3	10			1	3.3	6	20	6	20			2	6.7	11	36.7		
No work	17	56.7	0	0.0			3	10	6	20	8	26.7			1	3.3	16	53		
X2	y	$\chi_2 = 4.35$		1	P >0	P > 0.05						>0.05	,	$\mathbf{X2} = 0.$	739	P >0.05				
Education																				
illiterate	7	23.3	2	6.7	0	0.0	1	3.3	4	13.3	4	13.3	0	0.0	2	6.7	7	23.3		
Read & writ e	3	10	0	0.0	0	0.0	0	0.0	1	3.3	2	6.7	0	0.0	0	0.0	3	10		
Secondary school	10	33.3	1	3.3	0	0.0	1	3.3	4	13.3	6	20	0	0.0	1	3.3	10	33.3		
University	7	23.3	0	0.0	0	0.0	2	6.7	3	10	2	6.7	0	0.0	0	0.0	7	23.3		
X2	X2 = 2.50 $P > 0.05$							= 24. 3	35		P <	0.001	X2 = 2.99 $P > 0.05$							

This table shows that there were a statistical significant in relation between total QOL, diagnosis pre and highly significance between total QOL, education immediate post and between total QOL, diagnosis after one month of educational program with p < 0.001.