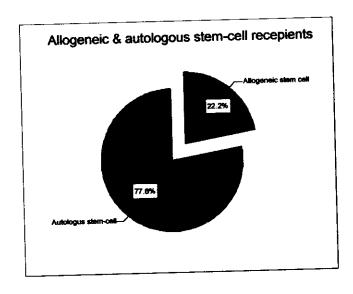


Results

1- Frequency distribution of the studied group according to type of recipients

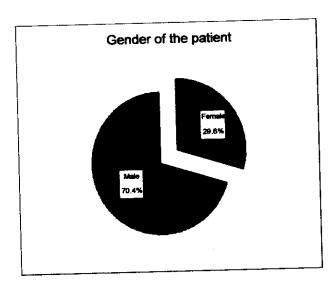
	Frequency	Percent
Allogeneic stem cell recepient	6	22.2
Autologus stem-cell recepient	21	77.8
Total	27	100.0



Most recipients had autologous grafts (77.8%)

2- Frequency distribution of the patients according to gender

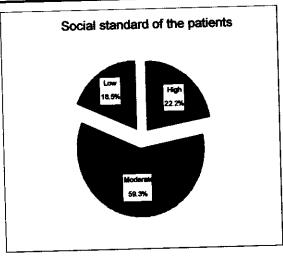
	Frequency	Percent
Female	8	29.6
Male	19	70.4
Total	27	100.0



70.4 % of recipients were males

3- Frequency distribution of the patients according to social standard.

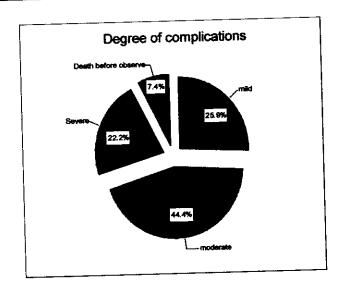
	Frequency	Percent
High	6	22.2
Moderate	16	59.3
Low	5	18.5
Total	27	100.0



Nearly 60% of the patients were considered moderate socially

4- Classification of patients according to degree of complications

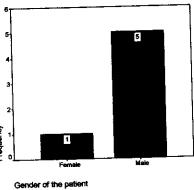
	Frequency	Percent
mild	7	25.9
moderate	12	44.4
Severe	6	22.2
Death before observed	2	7.4
complication Total	27	100.0



• Allogeneic group:

5- Frequency distribution of the allogeneic stem-cell recipients according to gender

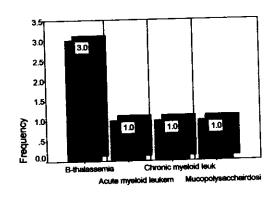
	Frequency	Percent
Female	1	16.7
Male	5	83.3
Total	6	100.0



Nearly 83% of allogeneic recipients were males

6- Different indications of stem cell transplantation among allogeneic group

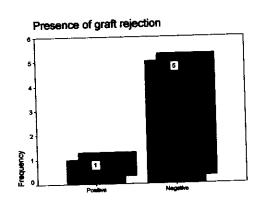
	Frequency	Percent
D thelegamia	3	50.0
	1	16.7
	,	16.7
		16.7
Mucopolysacchairdosis		100.0
	B-thalassemia Acute myeloid leukemia Chronic myeloid leukemia Mucopolysacchairdosis Total	Acute myeloid leukemia Chronic myeloid leukemia I Mucopolysacchairdosis I



 $\beta\text{-thalassemia}$ was the commonest indication for allogeneic stem cell transplantation in MUCH-SCT unit.

7- Frequency distribution of allogeneic group according to graft rejection

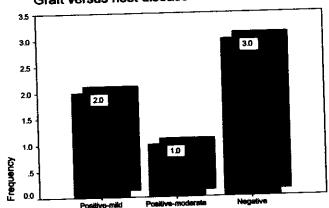
	Frequency	Percent
Positive	1	16.7
i	5	83.3
Negative	6	100.0
Total	•	100.0



8- Frequency distribution of allogeneic group according to graft versus host disease

	Frequency	Percent
Positive-mild	2	33.3
	4	16.7
Positive-moderate Negative	3	50.0
Total	6	100.0

Graft versus host disease

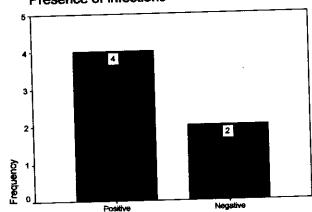


Acute GVHD occurred in 50% allogeneic recipients, it occurred in all recipients that survived beyond the $1^{\rm st}$ month.

9- Frequency distribution of allogeneic group according to presence of infection

	Frequency	33.3
Positive	4	66.7
		33.3
Negative	2	100.0
Total	6	100.0

Presence of infections

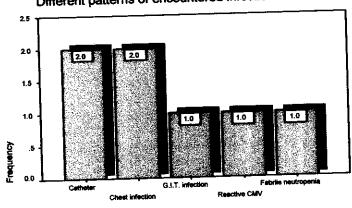


There were no recorded infections in 2 cases both died early in D_{+3} & D_{+19} respectively

10- Different patterns of encountered infections among allogeneic group

	Frequency	Percent
Call designation	2	28.6
Catheter infection		28.6
Chest infection		14.3
G.I.T. infection	<u>I</u>	14.3
Reactivation of CMV		14.3
Febrile neutropenia	1	
Total	7	100.0

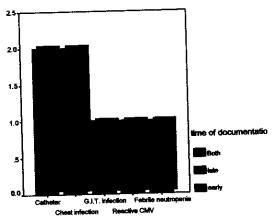
Different patterns of encountered infections



Catheter related infections & chest infections occurred more commonly (about 57% of recorded infections).

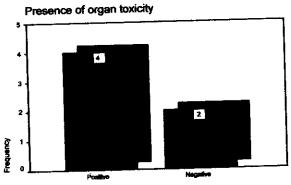
11- Different patterns of encountered infections according to time of documentation of infection

		Time of documentation of infections			
		Early	Late	Both	Total
	Catheter infection	2			2
Different patterns of	Chest infection			2	2
encountered infections	G.I.T. infection	1	1		1
	Reactivation of CMV	 	1		1
	Febrile neutropenia	1	1		1
	Total	4	1	2	7



12- Frequency distribution of the allogeneic stem-cell recipients according to presence of organ toxicity

	Frequency	Percent
Positive	4	66.7
	او	33.3
Negative	6	100.0
Total		

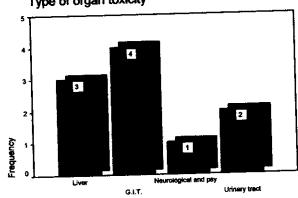


There were 2 cases that didn't suffered organ toxicities, both died early after transplantation

13- Frequency distribution of the allogeneic stem-cell recipients according to type of organ toxicity

	Frequency	Percent	
Liver	3	30.0	
	4	40.0	
G.I.T.			
Neurological and psychatric	1	10.0	
	2	20.0	
Urinary tract Total	10	100.0	

Type of organ toxicity



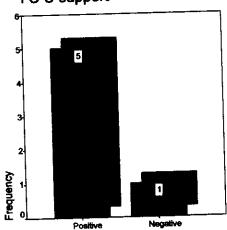
GIT & liver toxicities were recorded more frequently among allogeneic recipients

14- Frequency distribution of allogeneic group according to ICU support

I C U support

	Frequency	Percent
Positive	5	83.3
Negative	1	16.7
Total	6	100.0

I C U support

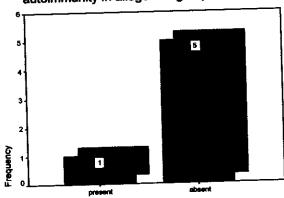


There was only one case that didn't had ICU-support she passed smoothly in posttransplantation period.

15- Frequency distribution of autoimmunity among allogeneic group

	Frequency	Percent
T	1	16.7
present	5	83.3
absent		100.0
Total		

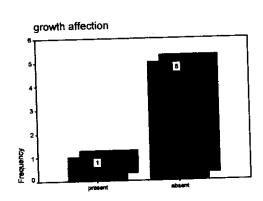
autoimmunity in allogeneic group



There was only one case that suffered from myopathy in late post-transplantation period.

16- Frequency distribution of growth affection among allogeneic group

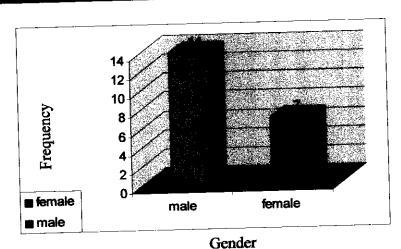
	Frequency	Percent
present	i	16.7
<u></u>	5	83.3
absent	6	100.0
Total		



Autologous group:

17- Frequency distribution of autologus group according to gender

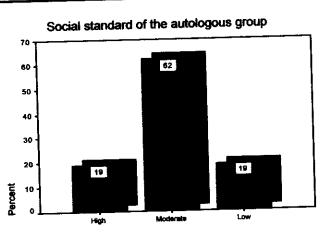
Frequency	Percent
7	33.33%
14	66.66%
21	100.00
	7 14



2/3 of autologous recipients were males

18-Frequency distribution of autologus group according to social class

	Frequency	Percent
Hab	4	19.0
High	13	61.9
Moderate		19.0
Low	4	100.0
Total	21	100.0



Nearly 62% of autologous group were moderate socially

19-Frequency distribution of autologous group according to degree of Complications

	Frequency	Percent
mild	7	33.3
	10	47.6
moderate	4	19.0
Severe	21	100.0
Total		100.0

Degree of complication

40

30

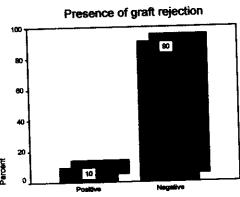
20

mild moderate Severe

Nearly 48% of autologous group had moderate (in severity) degree of complications.

20- Frequency distribution of autologus group according to graft failure (rejection).

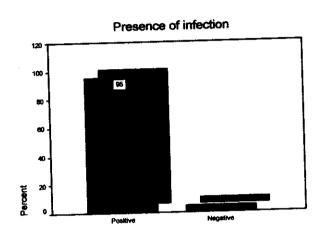
	Frequency	Percent
Positive	2	9.5
Negative	19	90.5
Total	21	100.0



Graft failure occurred in about 10% of autologous recipients

21- Frequency distribution of autologus group according to presence of infection

	Frequency	Percent
Positive	20	95.2
	1	4.8
Negative	21	100.0
Total		

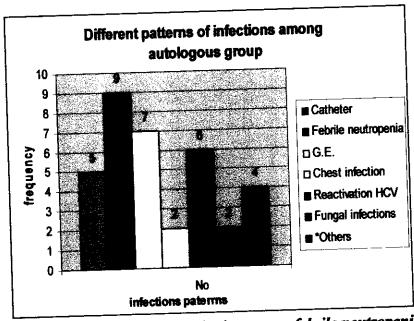


Significant infections were recorded in nearly 95% of autologous recipients

22-Infections patterns encountered in autologous group

Infections	No	%	
		14.3	
Catheter	3	25.7	
Febrile neutropenia	9	20.0	
G.E.	7	5.7	
Chest infection	2	17.1	
Reactivation HCV	6	5.7	
Fungal infections	2	11.5	
*Others	4	100.0	
**Total	35	100.0	

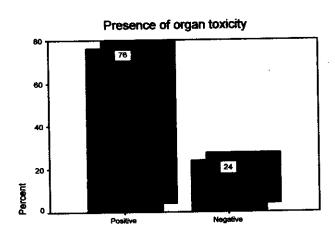
- *Others involved infections (dental, acquired virus, pyogenic skin& perianal cellulites)
- **Total of autologous patients was 21 (more than infection encountered in many patients).



The most commonly encountered infections were: febrile neutropenia, gastroenteritis, reactivation of HCV and catheter related infections.

24- Frequency distribution of autologus group according to presence of organ toxicity

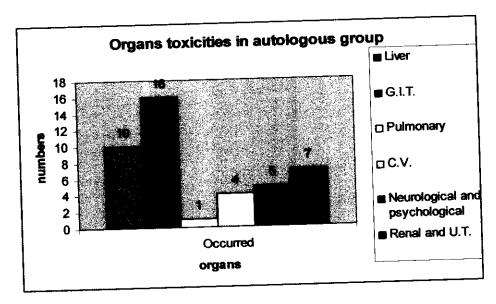
	Frequency	Percent
Positive	16	76.2
Negative	5	23.8
Total	21	100.0



There were 5 cases with no recorded organ toxicity, they all passed smoothly throughout post-transplantation period.

25- Frequency distribution of autologous group according to occurrence of toxicities in different organs.

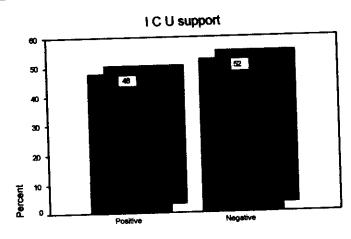
	Occ.		Not-c	ccurred	Tot	al
Toxicities	No	urred %	No	%	No	%
Organs Liver	10	47.6	11	52.4	21	100.0
	16	76.2	5	23.8	21	100.0
G.I.T.	10	4.8	20	95.2	21	100.0
Pulmonary	1 4	19.0	17	81.0	21	100.0
C.V. Neurological and	5	23.8	16	76.2	21	100.0
psychological						100.0
Renal and U.T.	7	33.3	14	66.7	21	100.0



GIT & liver toxicities were the most commonly recorded organ toxicities in autologous group.

26- Frequency distribution of autologus group according to presence of ICU support

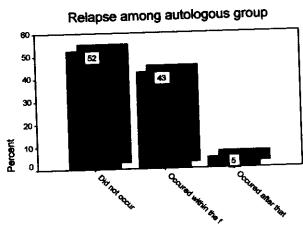
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	Frequency	Percent
	10	47.6
Positive	44	52.4
Negative		100.0
Total	21	100.0



Only 10 cases in autologous group had admitted to ICU

27- Frequency distribution of autologus group according to presence of relapse

	Frequency	Percent
Did not occur	11	52.4
Occured within the	9	42.9
first year Occured after that	1	4.8
Occured after trial	21	100.0

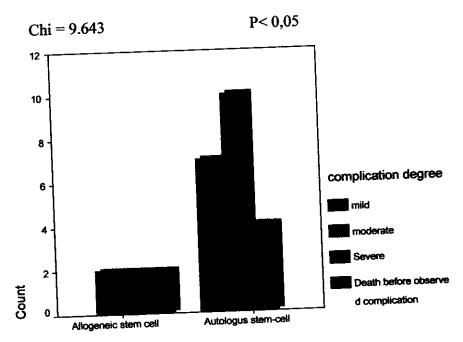


Relapse of the malignancy was a major problem in autologous group. Ten from 21 cases had relapses

Different relations between different variables and occurrence of complications in SCT recipients

28- Relation between type of procedure and degree of complication

			Allogeneic & autologous stem-cell recepients		
			Allogeneic stem cell recepient	Autologus stem-cell recepient	Total
		Count		7	7
	mild	Percet		33.3%	25.9%
		Count	2	10	12
	moderate	Percet	33.3%	47.6%	44.4%
Degree of		Count	2	4	6
complication	Severe		33.3%	19.0%	22.2%
		Percet	33.370		2
	Death before observed	Count		┼ ───	7.4%
complication		Percet	33.3%		
		Count	6	21	27
Total		Percet	100.0%	100.0%	100.0%



Allogeneic & autologous stem-cell recepients

Severe complications were recorded in 1/3 of allogeneic recipients, and in 19% of autologous group

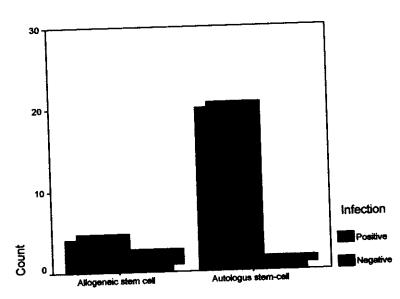
Death before observed complication were recorded in 1/3 of allogeneic recipients and was not recorded to occur in autologous group.

29- Relation between type of procedure and presence of infection

			Allogeneic & stem-cell r	Allogeneic & autologous stem-cell recepients	
			Allogeneic stem cell recepient	Autologus stem-cell recepient	Total
		Count	4	20	24
	Positive		66.7%	95.2%	88.9%
Presence of		Percent	2	,	3
infection		Count		100/	11.1%
	Negative	Percent	33.3%	4.8%	
	<u> </u>	Count	6	21	27
Total		Percent	100.0%	100.0%	100.0%

$$Chi = 3.857$$





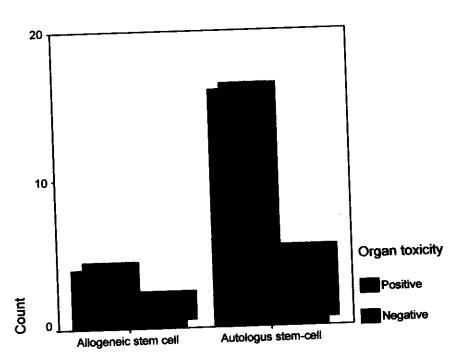
Allogeneic & autologous stem-cell recepients

Significant infections were recorded in 95% of autologous group & in 66.7 of allogeneic group, however, those who had no recorded infections in allogeneic recipients died early after transplantation.

30- Relation between type of procedure and presence of organ toxicity.

			Allogeneic & autologous stem-cell recepients		
			Allogeneic stem cell recepient	Autologus stem-cell recepient	Total
		Count	4	16	20
	Positive	Percent	66.7%	76.2%	74.1%
Presence of organ			2	5	7
toxicity		Count		 +-	25.9%
•	Negative	Percent	33.3%	23.8%	
		Count	6	21	27
Total		Percent	100.0%	100.0%	100.0%

Chi = 0.220 Odd's ratio = 0.625 P> 0.05



Allogeneic & autologous stem-cell recepients

Organ toxicities were recorded more commonly in autologous group. However, those who had no recorded organ toxicity in allogeneic group, died early after transplantations

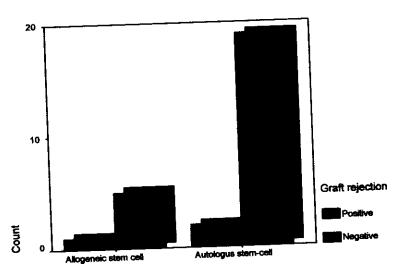
31- Relation between type of procedure and presence of graft rejection

			Allogeneic & s stem-cell re	utologous cepients			
			Allogeneic stem cell recepient	Autologus stem-cell recepient	Total		
		Count	1	2	3		
	Positive		16.7%	9.5%	11.1%		
Presence of graft		percent	5	19	24		
rejection	NI 45-10	Count		00.50/	88.9%		
•	Negative	Negative	Negative	percent	83.3%	90.5%	
	<u></u>	Count	6	21	27		
Total		percent	100.0%	100.0%	100.0%		

Chi =
$$0.241$$

Odd's ratio = 1.900

P > 0.05



Allogeneic & autologous stem-cell recepients

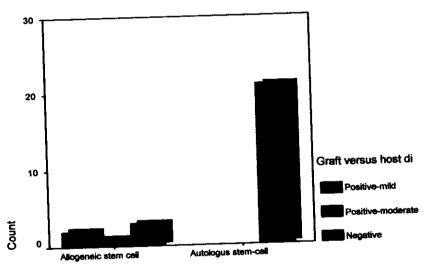
Graft rejection (failure) occurred in both groups. In allogeneic group it was related to donor recipient mismatch, while in autologous group it was attributed to affection of marrow microenvironment by previous chemotherapy, radiotherapy or initial disease.

32- Relation between type of procedure and graft versus host Disease

		Allogeneic & stem-cell re		autologous ecepients	
			Allogeneic stem cell recepient	Autologus stem-cell recepient	Total
		Count	2		2
	Positive-mild	Percent	33.3%		7.4%
Graft versus host	Positive-moderate	Count	1		1
disease for allogeneic		Percent	16.7%		3.7%
cases		Count	3	21	24
	Negative	Percent	50.0%	100.0%	88.9%
		Count	6	21	27
Total		Percent	100.0%	100.0%	100.0%

$$Chi = 11.813$$

P< 0.05



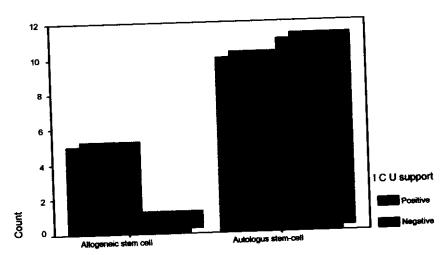
Allogeneic & autologous stem-cell recepients

- GVHD was not a problem with autologous SCT.
- Acute GVHD occurred in all allogeneic recipient who survived beyond the 1st month.

33- Relation between type of procedure and ICU support

			Allogeneic & : stem-cell re	entologous cepients	
			Allogeneic stem cell recepient	Autologus stem-cell recepient	Total
		Count	5	10	15
	Positive		83.3%	47.6%	55.6%
		Percent	03.370	——————————————————————————————————————	12
[C U support		Count			44.40
	Negative	Percent	16.7%	52.4%	44.4%
			6	21	27
		Count		100.0%	100.0%
Total		Percent	100.0%	100.076	100.07



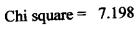


Allogeneic & autologous stem-cell recepients

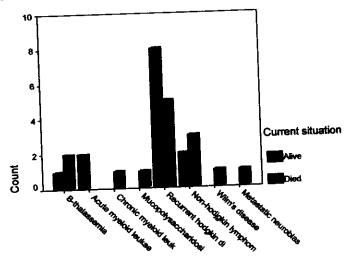
About 83% of allogeneic group had ICU support. While only 52% of autologous group had admitted to ICU.

34- Relation between initial disease and current situation

		Current sit	uation	
	Ţ	Alive	Died	Total
	Count	1	2	3
	% within Original disease	33.3%	66.7%	100.0%
B-thalassemia	% within Original disease	3.7%	7.4%	11.1%
	Count	2		2
	% within Original disease	100.0%		100.0%
Acute myeloid leukaemia		7.4%		7.4%
	% of Total		1	1
	Count		100.0%	100.0%
Chronic myeloid leukaemia	% within Original disease		3.7%	3.7%
	% of Total		1	1
	Count		100.0%	100.0%
Mucopolysaccharidosis	% within Original disease	 	3.7%	3.7%
	% of Total	8	5	13
	Count	61.5%	38.5%	100.0%
Recurrent hodgkin disease	% within Original disease	29.6%	18.5%	48.1%
	% of Total	29.070	3	
	Count	40.0%	60.0%	100.0%
Non-hodjgkin lymphoma	% within Original disease	7.4%	11.1%	18.59
	% of Total	7.476	1	
	Count	 	100.0%	100.09
Wilm's disease	% within Original disease		3.7%	3.79
	% of Total	 	3,770	<u> </u>
	Count		100.0%	100.0
Metastatic neuroblastoma	% within Original disease	 	3.7%	3.7
	% of Total	 	3.776	3
	Count	13	51.9%	100.0
Total	% within Original disease	48.1%	51.9%	100.0
	% of Total	48.1%	31.9%	100.0



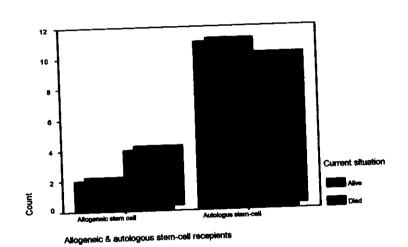




Best results were obtained in acute myeloid leukaemia & recurrent Hodgkin's disease.

35- Relation between the type of procedure and the patient's life

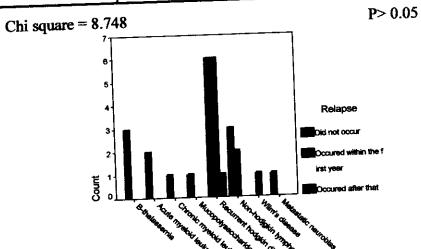
			Allogeneic & autologous stem-cell recepients		
			Allogeneic stem cell recepient	Autologus stem-cell recepient	Total
		Count	2	11	13
	Alive		33.3%	52.4%	48.1%
		Percent		10	14
Current situation		Count	4		51.9%
	Died	Percent	66.7%	47.6%	
			6	21	27
 		Count		100.0%	100.0%
Total		Percent	100.0%	100.070	100.00



A higher mortalities were observed among allogeneic group 66.7%.

36- Relation between initial disease and relapse

			Relapse amo	ng autologe	ous group	j
			oid not occur	Occured within the first year		Total
		Count	3			3
	D thelessemia	% within Original disea	100.0%		<u> </u>	100.0%
	D. Children Co	% of Total	11.1%			11.1%
+		Count	2			2
ł	Acute myeloid leukaem		100.0%			100.0%
	Acute mycloid formation	% of Total	7.4%		ļ	7.4%
}		Count	1		ļ	1
	Chronic myeloid leukae	% within Original disea	100.0%	<u> </u>	<u> </u>	100.0%
	Cilionic myoloto to	% of Total	3.7%	<u> </u>		3.7%
		Count	1	<u> </u>	 	100.0%
	Mucopolysaccharidosis	% within Original dise	a 100.0%	<u> </u>	 	3.7%
Original		% of Total	3.7%		 -	3.770
Origina. disease		Count	6			100.0%
<u> </u>	Recurrent hodgkin dise	% within Original disc	2 46.2%			48.1%
	Toolar I - B	% of Total	22.2%	_		48.176
		Count	3			100.0%
	Non-hodigkin lymphor	n % within Original disc				18.5%
	Thur many	% of Total	11.1%			10.370
		Count			<u> </u>	100.0%
	Wilm's disease	% within Original dis	C2	100.0%		3.79
		% of Total		3.79	6	- 3.72
		Count		<u> </u>		100.0%
	Metastatic neuroblasto	on % within Original dis	ea 100.09			3.79
		% of Total	3./9			1 2
		Count		_ 		
Total		% within Original dis	sea 63.09			
1		% of Total	63.09	% 33.39	6 3./9	0 100.07

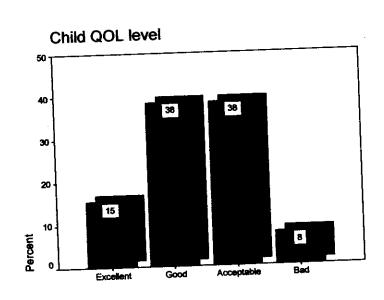


Higher relapse rates were observed in Hodgkin's disease (in 53% of cases) and in non Hodgkin lymphoma (in 40% of cases).

• Study of impact of stem cell transplantation on health related quality of life.

37- Frequency distribution of child QOL score according to different levels

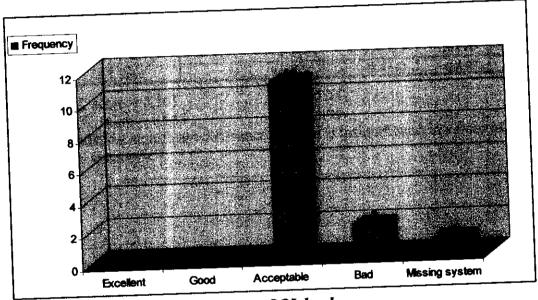
		Frequency	Percent
		Prequency 2	7.4
	Excellent		18.5
	Good	5	18.5
Valid Acceptable	5		
Ditts		1	3.7
	Bad	13	48.1
	Total	l	51.9
Missing	System	14	100.0
Total	1 - 1 - 1 - 1 - 1	27	100.0



38- Frequency distribution of parent QOL score according to different levels

		Emagnerey	Percent
		Frequency	40.7
	Acceptable	H	7.4
Valid	Bad	2	
Valla		13	48.1
	Total	14	51.9
Missing	System		100.0
Total		27	

Parent QOL level



Parent QOL level

Parents QOL scores were less than their children

41- Relation between initial disease and child QOL

child QOL	Excellent		Good		Acceptable		Bad		Total	
Original disease	No	%	No	%	No	%	No	%	No 1	% 100.0
B-thalassemia			1	50.0	1 1	100.0 50.0			2	100.0
Acute myeloid leukaemia		_	1					10.5	8	100.0
Recurrent	1	12.5	3	37.5	3	37.5		12.5	0	100.0
Hodgkin Non-Hodgkin	1	50.0	1	50.5	 				2	100.0
lymphoma	1	15.4	5	38.5	5	38.5	1	7.6	13	100.0
Total	2	15.4	1 -	1.00.5		1 3000				

Better scores were observed in Hodgkin's disease & non Hodgkin lymphoma.

42- Relation between initial disease and parent QOL

parent QOL	Acceptable		В	ad	Total		
	No	%	No	%	No	%	
Original disease		120.0	<u> </u>		 	100.0	
B-thalassemia	1	100.0	 	ļ	1 -	100.0	
Acute myeloid	2	100.0			2	100.0	
leukaemia	1-	75.0	2	25.0	8	100.0	
Recurrent Hodgkin	6			+	2	100.0	
Non-Hodgkin	2	100.0					
lymphoma	11	84.6	2	15.4	13	100.0	
Total	111	04.0		1			

The worst scores were observed in parent's of 2 cases with recurrent Hodgkin's disease who had multiple relapses.

43- Relation between type of procedure and child QOL

child QOL	Exce	ellent	Good		Acceptable		Bad		Total	
Type of procedure	No	%	No	%	No	%	No	%	No	%
Allogeneic			-		2	100.0			2	100.0
Autologous	2	18.1	5	45.5	3	27.3	1	9.1	11_	100.0
Total	2	15.3	5	38.5	5_	38.5	<u> </u>	<u>7.7 </u>	13_	100.0

Smaller allogeneic group (2 cases) made the comparison not logic.

44- Relation between type of procedure and parent QOL

Parent QOL	Accep	otable	Ba	d	Total		
Type of procedure	No	%	No	%	No	%	
Allogeneic	2	100.0		-	2	100.0	
Autologous	9	81.8	2	18.2	11	100.0	
Total	11	84.6	2	15.4	13	100.0	

Smaller allogeneic group (2 cases) made the comparison not logic.