

# **RESULTS**

In the present study the serum level of sFas/APO-1/CD95 was measured in 30 patients with ALL on admission, 24 hour after initiation of induction therapy and after 4 week of therapy i.e, (complete induction therapy). The results were correlated with various clinical, hematological and immunophenotypic prognostic criteria.

The results of the present study are summarized in tables (1-26) and figures (1-23).

### Patient's characteristics (Table 1-2):

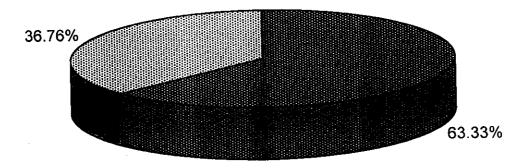
Table (1): Sex distribution in 30 children with ALL.

Sex	No.	%	
Male	19	63.33	
Female	11 '	36.67	
Total	30		

### Table (1) and Figure (1) show

Sex distribution of patients, 19 were males (63.33%) and 11 were females (36.67).

Fig. (1): Sex distribution in 30 children with ALL.



■ Male ■ Female

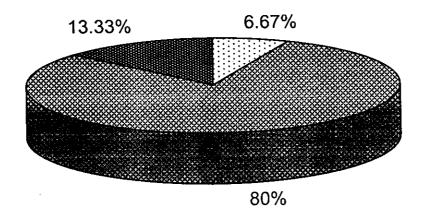
Table (2): Age distribution in 30 children with ALL.

Age in year	No.	%
<2 years	2	6.67
2-10 years	24	80.0
>10 years	4	13.33

### Table (2) and Figure (2) show

- Twenty four patients were in the age ranging from 2-10 years. They represent (80 %) of all studied patients.
- Two patients were less than two years of age. They represent (6.67%) of all studied patients.
- Four patients were above 10 years. They represent (13.33%) of all studied patients.

Fig. (2): Age distribution in 30 children with ALL.



☐ < 2Years

■>10Years

# Clinical picture of studied children are shown in tables 3 and 4:

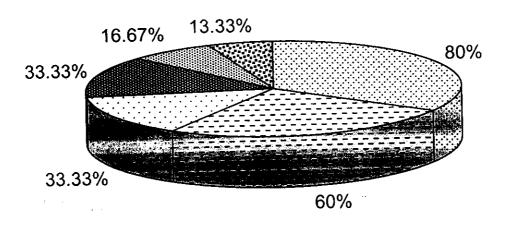
Table (3): Presenting symptoms in 30 children with ALL at diagnosis.

Symptoms	No.	%
Anaemic symptoms (fatigue and pallor)	24	80
Fever	18	60
Bleeding symptoms (bleeding & purpura)	10	33.33
Lymphadenopathy	10	33.33
Bone ache	5	16.67
Abdominal enlargement	4	13.33

## Table (3) and Figure (3) show

Anaemic symptoms (fatigue and pallor) were the commonest presenting symptoms as they were found in 24 patients (80%). Fever was the presenting symptoms in 18 patients (60%). Bleeding tendency was observed in 10 patients (33.33%). Lymphadenopathy was the presenting symptoms in 10 cases (33.33%). Bone ache was recorded in 5 patients (16.67%) and progressive abdominal enlargement was found in 4 patients (13.33%).

Fig. (3): Presenting symptoms in 30 children with ALL.



- ☑ Anaemic symptoms
- □Fever
- ☐ Bleeding symptoms
- **■** Lymphadenopathy
- Bone ache
- ☐ Abdominal enlargement

  ☐ Abdominal enlarge

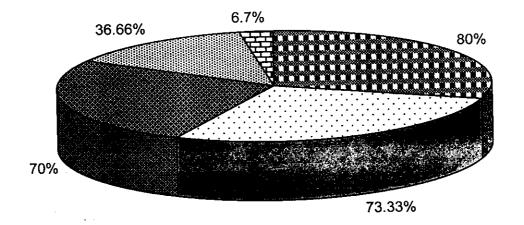
Table (4): Frequency of physical signs in 30 children with ALL.

Sign	No.	%
Hepatomegaly	24	80
Lymphadenopathy	22	73.33
Splenomegaly	21	70
Petichea-ecchymosis	11	36.66
Bone tenderness	2	6.7

Table (4) and Figure (4) show

- Eighty percent of the study group has hepatomegaly (24 patients).
- Lymphadenopathy was found in 22 patients (73.33%).
- Twenty one patients had splenomegaly (70%).
- Peticheal haemorrhage and echymosis were found in 11 patients (36.66%).
- Only 2 cases showed bone tenderness (6.7%).

Fig. (4): Frequency of physical signs in 30 children with ALL.



- Hepatomegaly
- □Lymphadenopathy
- Splenomegaly
- Petichea-ecchymosis
- ⊞Bone tenderness

#### Laboratory findings:

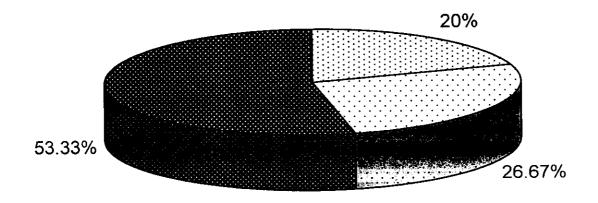
Table (5): Total leucocytic count in 30 children with ALL.

TLC /cmm	No. of cases	%
< 10000	6	20
10000 - 50000	8	26.67
> 50000	16	53.33

#### Table (5) and Figure (5) show:

- TLC less than 10,000/cmm was found in 6 patients. They represent (20%) of all studied patients.
- TLC ranging from 10,000 < 50,000/cmm was found in 8 patients.</li>
   They represent (26.67%) of all studied patients.
- TLC more than 50,000/cmm was found in 16 patients. They represent (53.33%) of all studied patients.

Fig. (5): Total leucocytic count in 30 children with ALL.



- □ < 10000 / cmm</p>
- □ 10000-50000 /cmm
- >50000/cmm

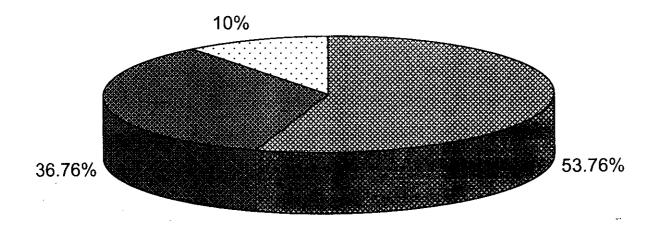
Table (6): Haemoglobin levels in 30 children with ALL.

Hg (gm/dl)	No.	%
<7	16	53.33
7-10	11 .	36.67
≥ 10	3	10

### Table (6) and Figure (6) show:

- Haemoglobin less than 7 gm/dl was found in 16 patients. They represent (53.33%) of all studied patients.
- Haemoglobin ranging from 7-10 gm/dl was found in 11 patients.
   They represent (36.67%) of all studied patients.
- Haemoglobin more than 10 gm/dl was found in only 3 patients.
   They represent (10%) of all studied patients.

Fig. (6): Haemoglobin levels in 30 children with ALL.



**⊠** < 7 g/dl

■ 7-10 g/dl

⊡>10 g/dl

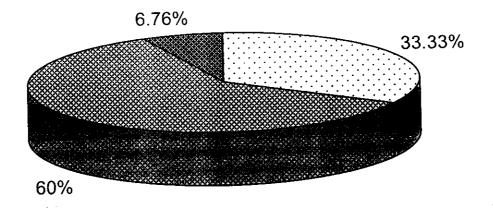
Table (7): Platelets count in 30 children with ALL.

Platelets count/cmm	No.	%
< 30.000	10	33.33
30.000 – 100.000	18	60
> 100.000	2	6.67

## Table (7) and Figure (7) show:

- Platelets count less than 30.000/cmm was found in 10 patients.
   They represent (33.33%) of all studied patients.
- Platelets count ranging from 30.000-100.000/cmm was found in 18 patients. They represent (60%) of all studied patients.
- Platelets count more than 100.000/cmm was found in 2 patients.
   They represent (6.66%) of all studied patients.

Fig. (7): Platelets count in 30 children with ALL.



⊡ < 30.000 / cmm

⊠ 30.000- 100.000 /cmm

■>100.000 / cmm

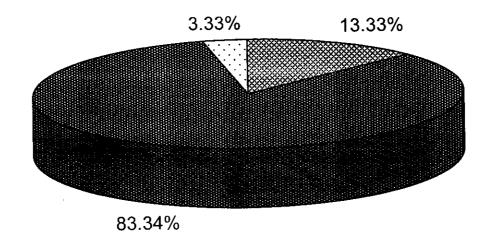
Table (8): FAB classification in 30 children with ALL.

FAB	No.	%
L1	4	13.33
L2	25	83.34
L3	1	3.33
Total	30	100.0

# Table (8) and Figure (8) show:

- L1 type was found in 4 patients. They represent (13.33%) of all studied patients.
- L2 type was found in 25 patients. They represent (83.34%) of all studied patients.
- L3 type was found in only one patients, that represents (3.33%).

Fig. (8): FAB classification in 30 children with ALL.



**⊠**L1

**III** L2

⊡L3

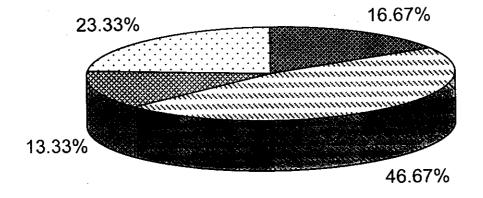
Table (9): Immunophenotyping in 30 children with ALL.

Immunophenotyping	No.	%
Early pre B ALL	5	16.67
Pre B ALL	14	46.67
B ALL	4	13.33
T ALL	7	23.33
Total	30	100%

# Table (9) and Figure (9) show:

- Early pre B ALL was found in 5 patients. They represent (16.67%)
   of all studied patients.
- Pre B ALL was found in 14 patients. They represent (46.67%) of all studied patients.
- B ALL was found in 4 patients. They represent (13.33%) of all studied patients.
- T ALL was found in 7 patients. They represent (23.33%) of all studied patients.

Fig. (9): Immunophenotyping in 30 children with ALL.



■ Early pre B ALL
□ Pre B ALL
■ B ALL
□ T ALL

Table (10): Other laboratory data of studied children with ALL.

Investigation	No	Percentage
* Liver enzymes		
Normal	24	80
Above normal	6	20
* Kidney functions		
Normal	28	93.4
Above normal	2	6.6
Uric acid level		
Normal	24	80
Above normal	6	20
LDH		
Normal	16	53.33
Above normal	14	46.67

\* Liver enzymes (ALT and AST)

#### Table (10) shows:

Some laboratory finding among 30 children with ALL, where serum level of ALT and AST above normal were recorded in 20% of the cases at diagnosis. High blood urea and serum creatinine were found in 6.6% of the cases, while serum uric acid level above normal was found in 20% of the cases and serum LDH level above normal was detected in 46.67% of the cases at diagnosis.

<sup>\*</sup> Kidney function tests (blood urea and serum creatinine)

Table (11): Comparison between cases before therapy and control group regarding mean TLC, Hb level and platelets count and serum LDH level.

Studied gps	Cases before therapy	Controls	Z	P
Variable	Mean ± SE	Mean ± SE		
TLC	90.726 ± 24.53	$6.16 \pm 0.37$	4.029	<0.001
Hb	$6.703 \pm 0.40$	11.65 ± 0.34	- 4.498	< 0.001
Platelet	45.3 ± 4.81	195. ± 7.93	- 4.685	<0.001
LDH	2241.47 ± 381.30	463.7 ± 32.09	2.905	< 0.01

#### Table (11) and Figure (10) show:

- There was significant increase in TLC and LDH in cases than control group.
- There was significant decrease in Hb level and platelets count in cases than control group.

Fig. (10): Comparison between cases before therapy and controls group regarding mean TLC count, Hb level and platelets count.

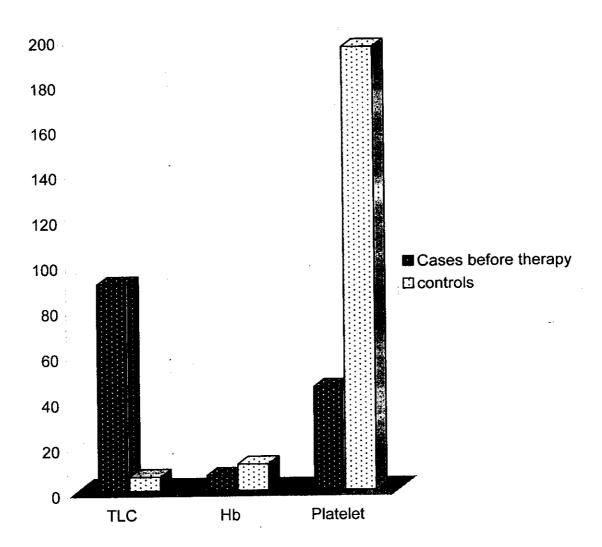


Table (12): Comparison between cases 1 day after therapy and control group regarding mean TLC, Hb level and platelets count.

Studied gps	Cases 1D after ttt	Controls	Z	P
Variable	Mean ± SE	Mean ± SE		
TLC	13.651± 4.41	$6.16 \pm 0.37$	0.484	>0.05
Hb	8.297 ± 0.38	11.65 ± 0.34	- 3.904	<0.001
Platelet	46.67 ± 3.39	195 ± 7.93	- 4.682	<0.001

## Table (12) and Figure (11) show:

- There was no significant difference in TLC between cases one day after therapy and control group.
- There was significant decrease in Hb level and platelets count in cases one days after therapy than control group.

Fig. (11): Comparison between cases 1 day after therapy and conrol group regarding mean TLC, Hb level and plateles count.

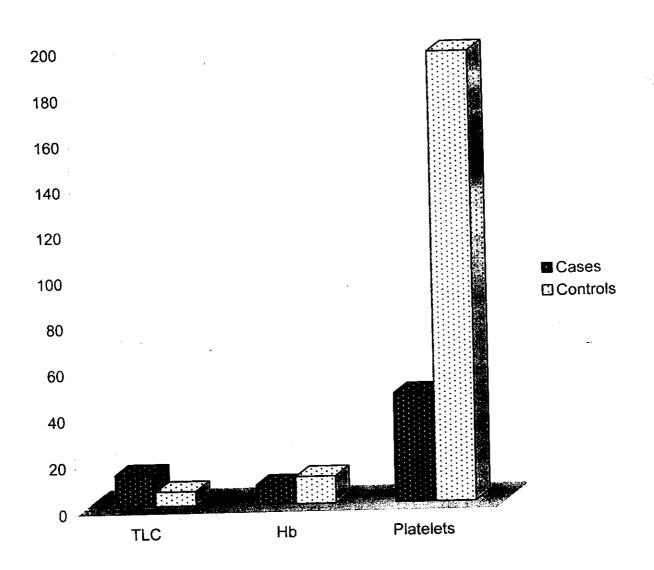


Table (13): Comparison between cases 1 month after treatment and control group regarding mean TLC, Hb level and platelets count.

Studied gps.	Cases 1 month after ttt	Controls	Z	P
Variables	Mean ± SE	Mean ± SE		
TLC	8.112 ± 2.52	6.16 ± 0.37	2.867	< 0.05
Hb	$10.332 \pm 0.26$	$11.65 \pm 0.34$	- 2.867	< 0.05
Platelet	121.25 ± 6.23	195 ± 7.93	- 4.160	< 0.001

### Table (13) and Figure (12) show:

- There was significant increase in TLC in cases one month after therapy than control group.
- There was significant decrease in Hb level and platelets count in cases one month after therapy than control group.

Fig. (12): Comparison between cases 1 month after treatment and control group regarding mean TLC, Hb level and platelets count.

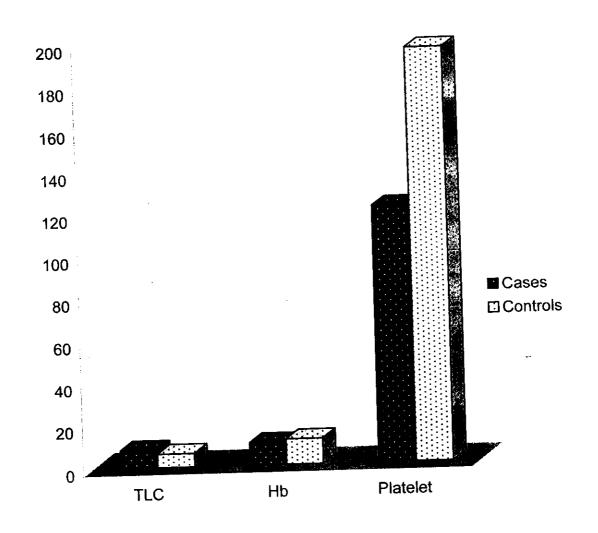


Table (14): Comparison between mean TLC in the studied cases before, 1 day and 1 month after start of therapy.

TLC	Range (cmm)	Mean ± SE	t-value	P
Phase				
Before	6-608.7(10) <sup>3</sup>	90.726± 24.53	2.250	
1 day	1.65-104(10) <sup>3</sup>	13.651±4.41	3.258	<0.001
Before	6-608.7(10) <sup>3</sup>	90.726±24.53		
1 month	3.9-66.1(10) <sup>3</sup>	11.89 ± 2.52	3.591	<0.001
1 day	1.65-104(10) <sup>3</sup>	13.651± 4.41		
I month	3.9 –66.1(10) <sup>3</sup>	11.89± 2.52	0.668	>0.05

### Table (14) and Figure (13) show:

- There was highly significant difference between mean TLC before and one day after initiation of induction therapy being higher before treatment.
- Also there was significant decrease in mean TLC one month after induction therapy than before treatment.
- There was no significant difference between mean TLC one day and one month after induction therapy.

Fig. (13): Comparison between mean TLC count in the studied cases before, 1 day and 1 month after strat of therapy.

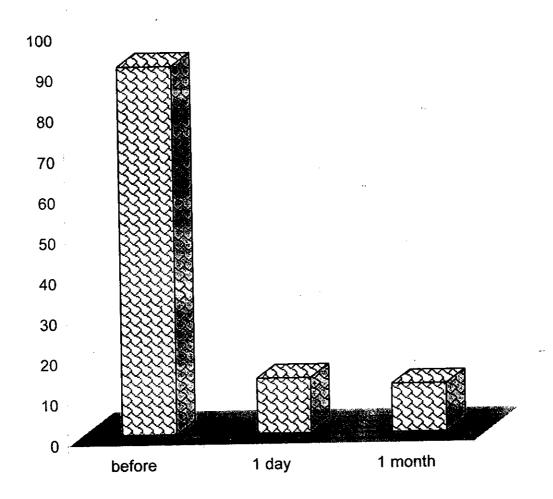


Table (15): Comparison between mean Hb levels in the studied cases before, 1 day and 1 month after start of therapy.

Hb	Range	Mean ± SE	t-value	P
Phase	(g/dl)	(g/dl)		
Before	2.7-10.6	6.703± 0.40	2.074	5001
l day	4.3-12.5	8.297 ± 0.38	- 3.074	< 0.01
Before	2.7-10.6	$6.703 \pm 0.40$	***	
1 month	6.7-12.5	10.09 ± 0.26	- 6.667	< 0.001
1 day	4.3-12.5	8.029 ± 0.38	<del></del>	
1 month	6.7-12.5	10.09 ± 0.26	- 3.740	< 0.001

#### Table (15) and Figure (14) show:

- There was significant increase in mean Hb levels one day after therapy than before start of therapy.
- Significant increase in mean Hb levels one month after therapy than before start of therapy.
- Significant increase in mean Hb levels one month after start of therapy than one day after therapy.

Fig. (14) Comparison between mean Hb levels in the studied cases before, 1 day and 1 month after start of therapy.

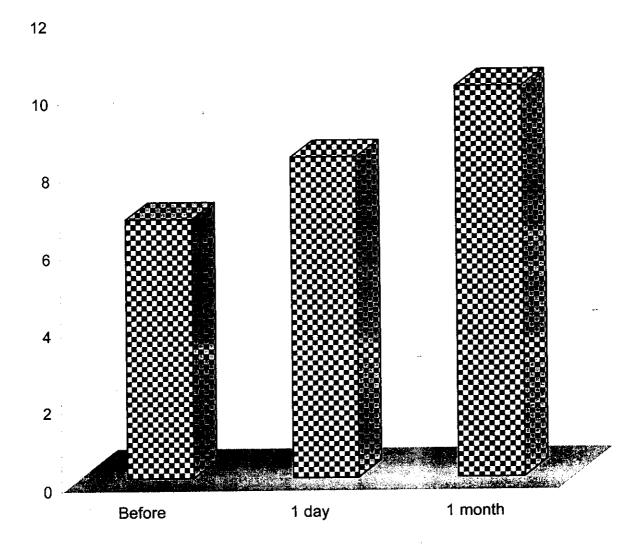


Table (16): Comparison between mean platelets count of the studied cases before, 1 day and 1 month after start of therapy.

Range (cmm)	Mean ± SE (cmm)	t-value	P
19-103(10) <sup>3</sup>	45.3 ± 4.81	- 0.519	
17-90 (10) <sup>3</sup>	46.67 ± 3.39		>0.05
19-103(10) <sup>3</sup>	45.3 ± 4.81	- 9.037	
66-193(10) <sup>3</sup>	121.25 ± 6.23		<0.001
17-90 (10) <sup>3</sup>	46.67 ± 2.39	- 10.094	
66-193(10) <sup>3</sup>	121.25 ± 6.23		<0.001
	19-103(10) <sup>3</sup> 17-90 (10) <sup>3</sup> 19-103(10) <sup>3</sup> 66-193(10) <sup>3</sup> 17-90 (10) <sup>3</sup>	$   \begin{array}{ccccccccccccccccccccccccccccccccccc$	Range (cmm)   Weath ± 52 (cmm)

# Table (16) and Figure (15) show:

- There was no significant difference between mean platelets count before and one day after start of therapy.
- Highly significant increase in mean platelets count one month after therapy than before treatment.
- Highly significant increase in mean platelets count one month after therapy, than one day after start of therapy.

Fig. (15): Comparison between mean platelets count in the studied cases before, 1 day and 1 month after start of therapy.

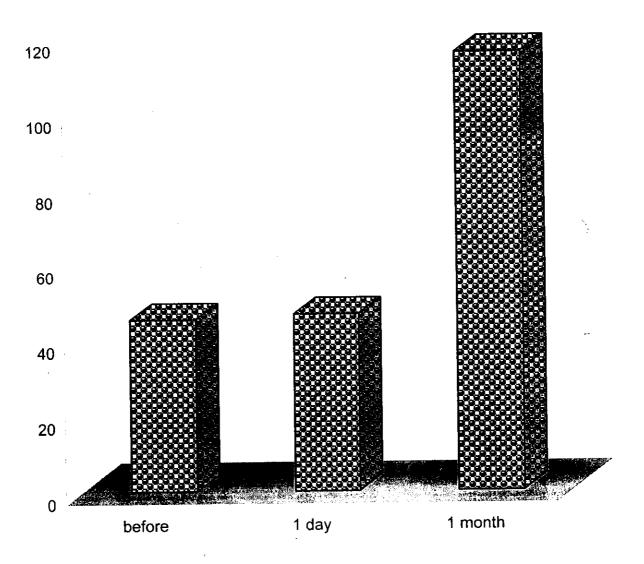


Table (17): Comparison between mean number of blast cells in peripheral blood in the studied cases before, I day and I month after start of therapy.

Blast cells	Range	Mean + SE	t-value	P
Phase	(%)	(%)		
Before	39-97	80.603 ± 2.58	6.452	< 0.001
1 day	33-90	74.033 ± 2.54		
Before	39-97	80.603 ± 2.58	31.740	< 0.001
1 month	0-16	1.069 ± 0.74		
1 day	33-90	74.033 ± 2.54	00.114	< 0.001
1 month	0-16	1.069 <u>+</u> 0.74	29.114	< 0.001

# Table (17) and Figure (16) show:

- There was highly significant decrease in mean number of blast cells count after one day therapy than before start of therapy.
- There was highly significant decrease in mean number of blast cells count one month after therapy than before start of therapy.
- There was highly significant decrease in mean number of blast cells count after end of induction therapy than one day after therapy.

Fig. (16): Comparison between mean number of blast cells in peripheral blood in the studied cases before, 1 day and 1 month after start of therapy.

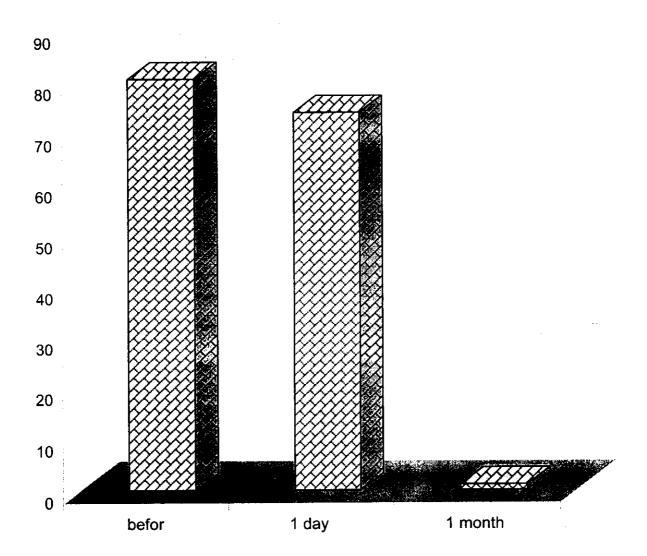


Table (18): Comparison between mean bone marrow blast cell count in studied patients at diagnosis and after end of induction therapy.

Blast cells Phase	Range (%)	Mean <u>+</u> SE (%)	t-value	P
Before	25-97	84.833 ± 2.93	23.615	< 0.001
1 month	0-27	2.074 ± 1.18		

# Table (18) and Figure (17) show:

■ There was highly significant decrease in mean number of blast cells in bone marrow after end of induction therapy than at diagnosis.

Fig. (17): Comparison between mean bone marrow blast cells count in studied patients at diagnosis and after end of induction therapy.

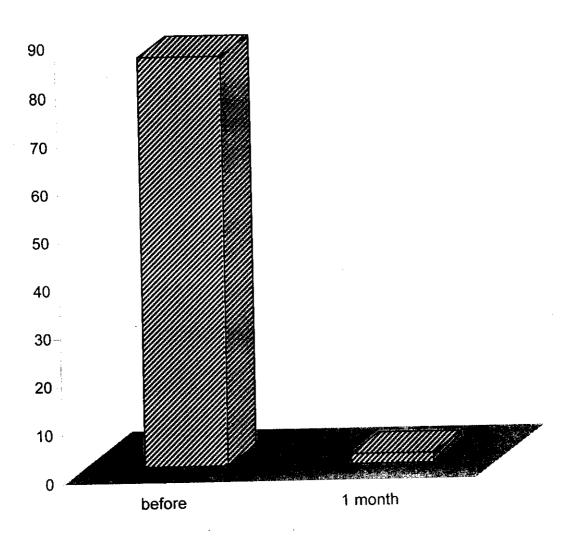


Table (19): Comparison between mean serum levels of sFas in patients of ALL before therapy and control group.

Blast cells Phase	Range (ng/ml)	Mean ±SEM (ng/ml)	Z	P
Case before ttt				
(n=30)	2.4 - 14	$7.79 \pm 0.74$		:
Control	1 – 2.1	1.62 ± 0.12	4.685	<0.001
(n = 10)				•

### Table (19) and Figure (18) shows:

• There was highly significant increase of serum sFas level in patients in comparison to control group.

Fig. (18): Comparison between mean serum levels of sFas in patients of ALL before Therapy and control group

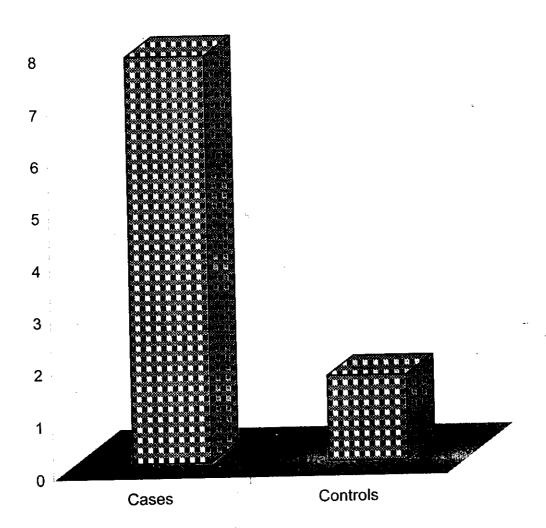


Table (20): Comparison between mean serum levels of sFas in the studied cases before, 1 day and 1 month after start of therapy.

sFas Phase	Range (ng/ml)	Mean ± SE (ng/ml)	t-value	P
Before	2.4-14	7.79 ± 0.74		
1 day	2-13.3	6.69 ± 0.70	0.422	>0.05
Before	2.5-14	7.79 ± 0.74		
1 month	1-13.2	$2.756 \pm 0.53$	6.823	<0.001
1 day	2-13.3	$6.69 \pm 0.70$		
1 month	1-13.2	$2.756 \pm 0.53$	6.035	<0.05

# Table (20) and Figure (19) show:

- There was no significant difference between mean of serum sFas level before and after one day of induction therapy.
- There was highly significant decrease in mean of serum sFas level after one month of induction therapy than before therapy.
- There was significant decrease in mean of serum sFas level after 1 month of induction therapy and 1 day after therapy.

Fg. (19): Comparison between the mean serum levels of sFas in the studied cases before,1 day and 1 month after start of therapy.

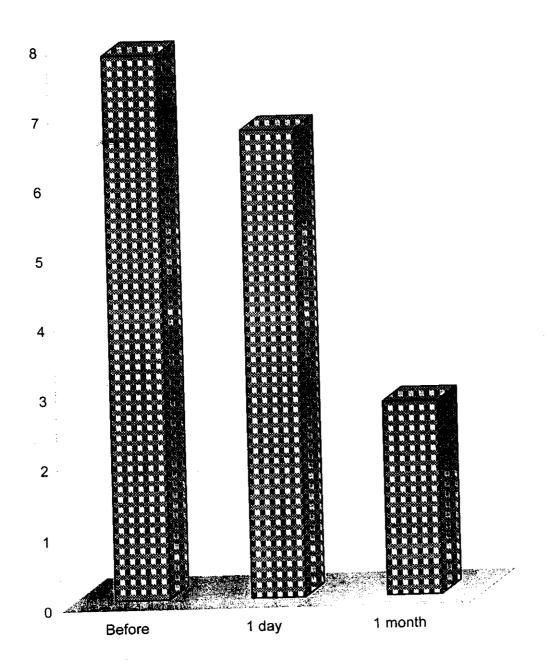


Table (21): Distribution of 30 children with ALL according to risk factors.

Parameters	High ris	k group	Low risl	c group
	No.	%	No.	%
Patients data				
* Age	5	16.67	25	83.33
* Sex	19	63.33	11	36.67
Clinical presentation:				
* Organomegaly	16	53.33	14	46.67
Hematological data				
* Hb level gm/dl	3	10	16	53.33
* TLC x 10 <sup>3</sup> /cmm	16	53.33	6	20
* Platelet x 10 <sup>3</sup> /cmm	10	33.33	2	6.67
Morphological classification				
* L1	-	-	4	13.33
* L2	25	80	-	-
* L3	1	6.67	-	-
Immunophenotyping				
* Early pre B ALL	-	-	5	16.67
* Pre B ALL	-		14	46.67
* B ALL	4	13.33	-	-
* T ALL	7	23.33	-	-
LDH	14	46.67	16	53.33

#### High risk group characterized by:

- Age less than 1 year or more than 10 years.
- Male.
- Hepatosplenomegaly and lymphadenopathy.
- Haemoglobin more than 10 gm/dl.
- TLC more than 50 x 10<sup>3</sup>/cmm.
- Platelets count less than 30 x 10³/cmm.
- L2 or L3 according FAB classification.
- B or T-cell type according to immunophenotyping.

#### Low risk group characterized by:

- Age between 1-10 years.
- Female.
- Absence of organomegaly.
- Haemoglobin less than 7 gm/dl.
- TLC less than 10 x 10<sup>3</sup>/cmm.
- Platelets count more than 100 x 10<sup>3</sup>/cmm.
- L1 according to FAB classification.
- Early pre B or pre B according to immunophenotyping.

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Fig. (20): Distribution of 30 children with ALL according to risk factors.

■ High risk groub

☐ Low risk group

Table (22): Comparison between serum sFas levels in low and high risk groups ALL children.

sFas (ng/ml)	Low risk	High risk	t	P
risk factors	Mean ± SD	Mean ± SD		
Age	7.117 ± 4	10.417 ± 2.623	1.697	<0.05*
Sex	6.982 ±3.798	8.258 ± 4.229	- 0.667	>0.05
Oranomegally	$8.40 \pm 4.379$	7.591 ± 5.057	0.431	>0.05
Haemoglobin	$6.80 \pm 3.90$	7.96 ± 5.16	0.377	>0.05
Platelets	9.45 ± 6.29	7.32 ± 3.57	0.465	>0.05
TLC	4.33 ± 2.56	10.25 ± 3.73	2.079	<0.05*
LDH	4.763 ± 1.572	11.25 ± 3.116	3.117	<0.001*
IPT	6.047 ± 3.413	10.8 ± 3.324	2.453	<0.01*
FAB	6.9 ± 5.06	7.926 ± 3.986	0.427	>0.05

### Table (22) and Figure (21) show:

- There was significant increase in serum Fas level in high risk group than low risk group regarding to age, TLC, LDH and IPT.
- There was no significant difference in serum Fas between high and low risk group regarding to sex organomegally, platelets count haemoglobin level and FAB classification.

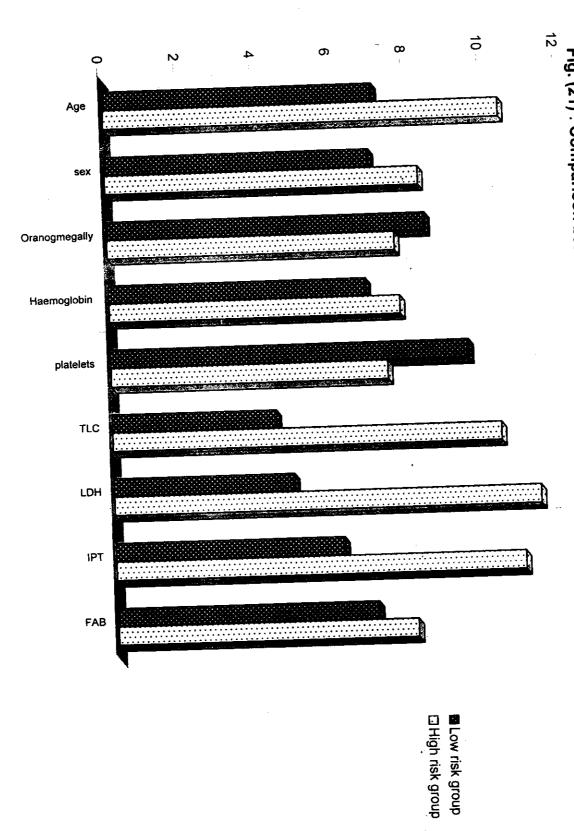


Fig. (21) : Comparison between serum sFas levels in low and high risk groups ALL children.

Table (23): Correlations between serum sFas level & prognostic factors at diagnosis.

sFas	r	P
Prognostic factors		
Age	- 0.1029	>0.05
Sex	0.1059	> 0.05
Organomegally	0.2727	>0.05
Haemoglobin	0.2043	> 0.05
TLC	0.7281	<0.05
Platelets	- 0.3750	>0.05
Blast cells	0.2937	> 0.05
FAB	0.2413	>0.05
IPT	0.6326	<0.05
LDH	0.7708	<0.05

### Table (23) shows:

- There were significance positive correlations between the serum sFas level and TLC, IPT, LDH.
- There was no significance correlations between the serum sFas level and age, sex, organomegally haemoglobin level, platelets count, blast cell count, and FAB classification.

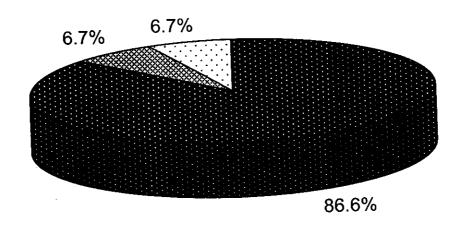
Table (24): Results of induction therapy in 30 children with ALL.

Results	No.	%
Complete remission	26	86.6
Refractory	2	6.7
Death	2	6.7

## Table (24) and Figure (23) show:

Twenty six cases achieved complete remission (86.6%), two patients (6.7%) died during induction, and another two patients (6.7%) were refractory to induction therapy.

Fig. (23): Results of induction therapy in 30 children with ALL.



- Complete remission
- ⊠refractory
- □Death

Table (25) clinical and laboratory data in patients with ALL

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Table(26) clinical and laboratory data in control

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