BESULTS

Table (3) Distribution of cases according
to the mean gestational age , weight and sex

	Gr	Gr. I		. II	t	P
	$\overline{\mathbf{X}}$	SD	$\overline{\mathbf{X}}$	SD		
G. A.	30.4	2.6	31.3	2.2	1.30	0.198
Wt.	1.754	0.453	1.910	0.452	1.21	0.231
Sex	14	11	11	13		0.221
	(56%)	(44%)	(46%)	(54%)		

P > 0.05 = not significant

 $Gr_I = iodine group$

 $Gr_{II} = chlorhexidine group$.

 $G \cdot A = gestational age in weeks$

Wt. = weight in kilograms

 $\overline{\mathbf{X}} = \mathbf{mean}$

S.D = standard deviation

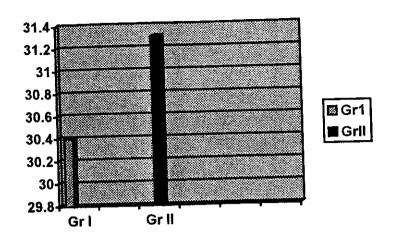


Fig (15-1) Distribution of cases according to the mean gestational age

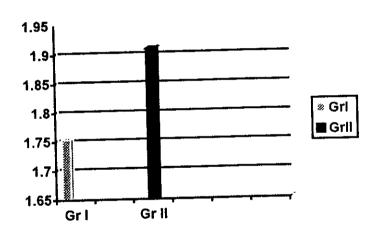


Fig (15-2) Distribution of cases according to the mean weight

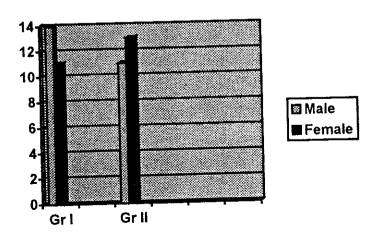


Fig (15-3): Distribution of cases according to sex

Table (4) Frequency of clinical data in the two groups

Item	G	r. I	Gr. II		X2	P
	N	%	N	%		ļ <u></u>
Fever	4	16%	3	12.5%	0.12	0.726
Hypothermia	9	36	7	29	0.26	0.610
Tachypnea	2	8	11	45.8	8.99	0.002
Grunting	9	36	11	45.8	0.49	0.484
Apnea	7	28	8	33.3	0.16	0.686
Bradycardia	6	24	3	12.5	1.08	0.299
Tachycardia	4	16	8	33.3	1.99	158
Absent or weak Moro	13	52	13	54	-	_
reflex						
Exaggerated Moro	2	8	1	4.1	0.31	0.576
reflex						
Poor suckling	16	64	16	66.6	•	_
Vomiting	9	36	6	25	-	-
Abdominal distensian	9	36	10	41.6	0.17	0.684
Seizures	5	20	7	29	0.56	0.456
Pulging fontanelles	4	16	4	16.6	-	-
Organomegaly	4	16	3	12.5	0.12	0.726
Jaundice	6	24	5	20.8	0.07	0.791
Cyanosis	7	28	6	25	0.06	0.812
Pallor	8	32	5	20.8	0.78	0.376
Plethora	1	4	1	4.1	-	_

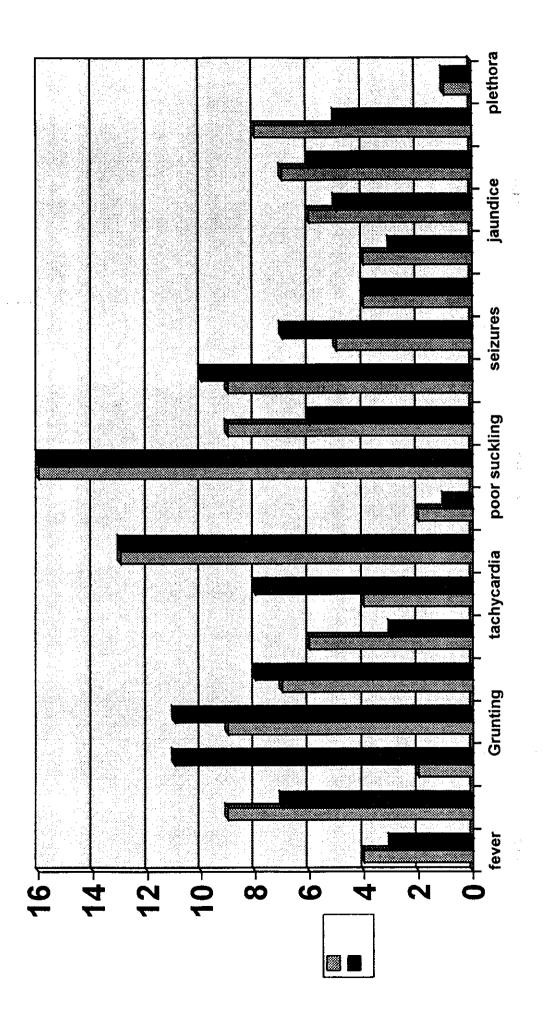


Fig (16) Frequency of clinical data in the two groups

Table (5) The mean heart rate, respiratory rate and temperature in the two groups

	Gı	Gr. I		. II	t	P
	X	S.D.	$\overline{\mathbf{X}}$	S.D.	· · · · · · · · · · · · · · · · · · ·	
H.R	124	31	148	26	2.96	0.005
R.R	65	13	66	13	0.1	0.91
Temp	36.6	1.2	36.8	0.8	0.47	.0643

P < 0.05 = sig.

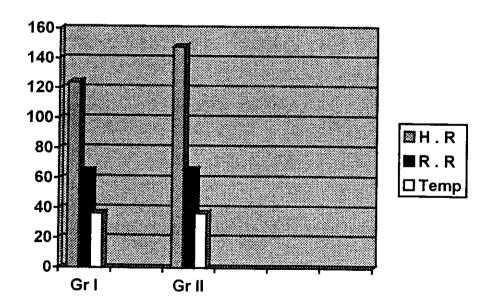


Fig. (17) The mean heart rate, respiratory rate and temperature in the two groups

Table (6) Frequency of routine laboratory investigations in the 2 groups

	Gr	. I	Gr.	II	t	P
	X	SD	X	SD		
TLC	9584	5052	10962	4013	1.05	0.297
TPN	4487	2795	5666	3010	1.42	0.1262
TPN %	45.8%	11.8	51.9%	16.8	1.49	0.143
Platelets	166000	85000	191000	46000	1.3	0.199
Hb. Conc.(gm / dl)	13.4	3.5	13	3.1	0.14	0.886

P>0.05 = not significant

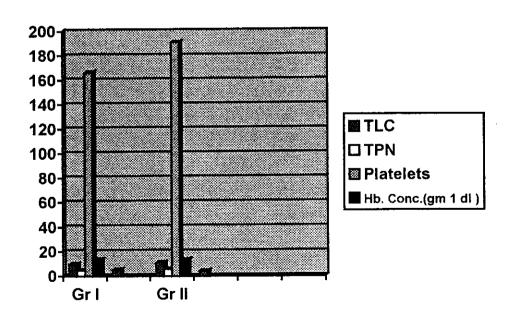


Fig. (18) Frequency of routine laboratory investigations in the 2 groups

Table (7) Distribution of cases according to diagnosis

	Gı	·. I	Gr. II	
Diagnosis	N	%	N	%
Simple P.T	10	40	10	31.7
RDS asphyxia	6	24	8	33.3
Septicemia	5	20	3	12.5
Intracranial bleeding	2	8	2	8.3
Combination	2	8	1	4.2

$$\overline{\mathbf{X}^2} = 1.10$$

$$P = 0.894$$
 (not significant)

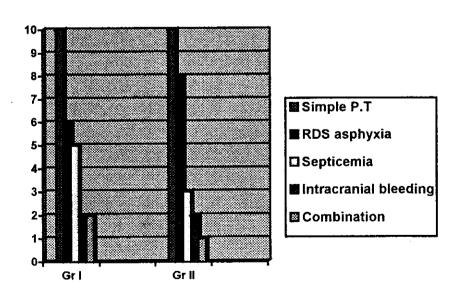


Fig. (19) Distribution of cases according to diagnosis

Table (8) Comparison between the levels of T3, T4 and TSH in the 2 groups at the first day of admission

	Gr. I		Gr.	. II	t	P
	$\overline{\mathbf{X}}$	SD	$\overline{\mathbf{X}}$	SD		
T3(ng /dl)	179.9	14.9	174	21.7	1.1	0.278
T4(μg/dl)	11.1	0.543	10.9	0.75	4.05	0.060
TSH(µIU/dl)	9.9	0.31	9.6	0.52	3.46	0.059

P > 0.05 = not significant

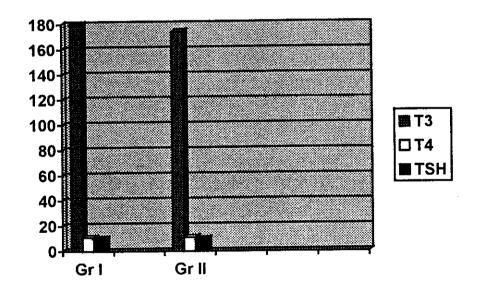
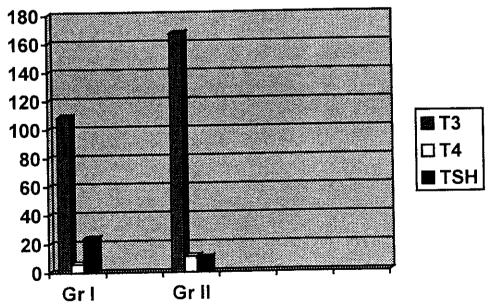


Fig.(20) Comparison between the levels of T3, T4 and TSH in the 2 groups at the first day of admission

Table (9) Comparison between the levels of T3, T4 and TSH in the 2 groups at the tenth day of admission

	Gr. I		Gr.	II	t	P	•
	$\overline{\mathbf{X}}$	SD	X	SD			194
T3(ng /dl)	108.8	17.5	167	22.5	15	0.001	. or sales
T4(μg/dl)	5.77	1.5	10.99	0.824	16	0.0001	:
TSH(μIU/dl)	23.7	9.1	9.77	0.665	7.65	0.0001	

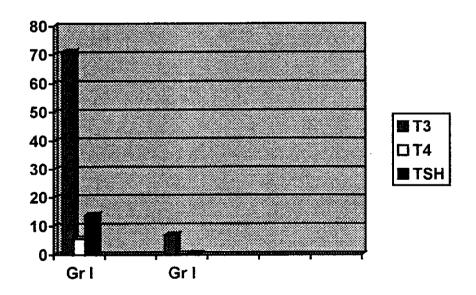




Fig(21) Comparison between the levels of T3, T4 and TSH in the 2 groups at the tenth day of admission

Table (10) study of the change in T3, T4 and TSH level from the first day to the tenth day in the 2 groups

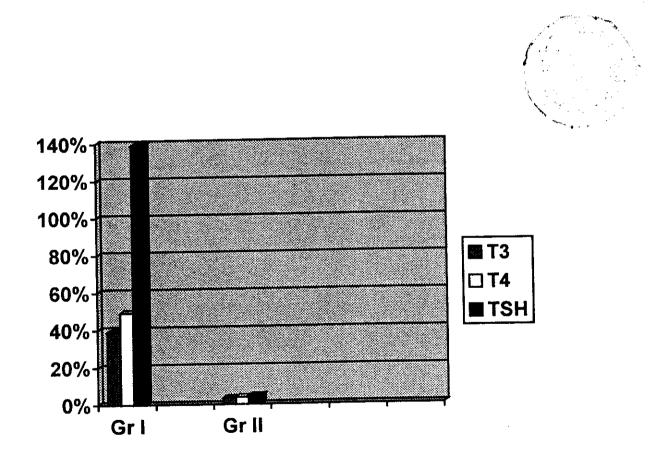
	Gr. I		Gr.	II	t	P
	X	SD	X	SD		
T3(ng /dl)	71	23.7	6.9708	20.6	15	0.0001
T4(μg/dl)	5.62	1.73	-0.356	0.89	16.26	0.001
TSH(µIU/dl)	13.82	9.03	-0.404	0.64	7.65	0.0001



Fig(22) study of the change in T3, T4 and TSH level from the first day to the tenth day in the 2 groups

Table (11) Study of the change in T3, T4 and TSH levels as a percentage of the first day level

	Gr	. I	Gr	. II	t	P
	$\overline{\mathbf{X}}$	SD	$\overline{\mathbf{X}}$	SD		
T3(ng/dl)	39%	11.4%	3.3%	12.9%	10.25	0.0001
T4(μg/dl)	49.1%	14.2%	-3.7%	8.9%	15.5	0.0001
TSH (μIU/dl)	-139%	90%	-4.6%	7.1%	-7.26	0.001



Fig(23) Study of the change in T3, T4 and TSH levels as a percentage of the first day level

Table (12) Clinical characteristics of patients with TSH levels > 30 μ IU/dl and those of levels \leq 30 μ IU/dl in iodine group

	TSH > 30	TSH ≤ 30	t	Р
G.A	28.5+2.1	32.4±2.5	6.657	0.03
Wt.	1435±173	2103±210	7.521	0.001
R.D	4	-(0)	7.981	0.006
Diameter of area	16.6±11.04	5.9±5.4	4.385	0.001
of disinfections				

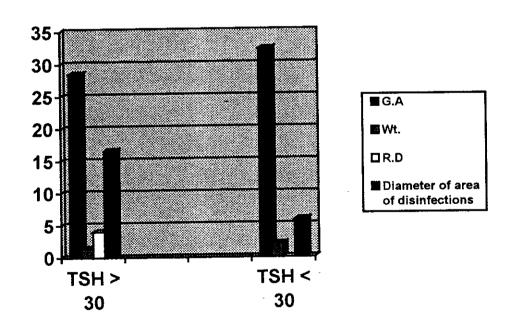


Fig (24) Clinical characteristics of patients with TSH levels > 30 μ IU/dl and those of levels \leq 30 μ IU/dl in iodine group

Table (13) Correlation between level changes in T3, T4 and TSH with each other and with G.A and wt in Gr I

	T.	3	<u> </u>	Γ4	T	SH	G	. A	W	/t
	r	р	R	р	r	p	r	p	r	p
• T3			0.11	0.61	0.02	0.94	0.01	0.96	0.001	0.99
T4	01	0.61		<u> </u>	0.85	0.001	0.59	0.002	0.66	0.001
TSH	0.02	0.94	0.85	0.001			0.78	0.002	0.77	0.001
G.A	0.01	0.96	0.59	0.002	0.78	.0002			-	-
Wt	0.001	0.99	0.66	0.0001	0.77	0.001	-	-		

r = correlation coefficient

P < 0.05 = significant

P>0.05 = non significant

Table (14) Correlation between level changes is T3, T4 and TSH with each other and with G.A, Wt in Gr. II

	T3		T4		TSH		G.A		Wt	
	r	р	r	р	R	р	r	_p	r	p
T3	1	0	0.10	0.64	0.22	0.30	0.13	0.54	0.001	0.99
T4	0.10	0.64	1	0	0.24	0.25	0.05	0.81	0.05	0.83
TSH	0.22	0.30	0.24	0.25	1	0	0.13	0.56	0.22	0.29
G.A		0.54	_		0.13	0.56	1	0	-	-
Wt	0.001		1		0.22		-	-	1	0

r = correlation coefficient

P < 0.05 = significant

P>0.05 = non significant

Table (15) Comparison between the Percentage level Change in T3, T4 and TSH in group I according to the diagnosis

No.	T3 %		T4 %		TSH %	
	$\overline{\mathbf{X}}$	SD	$\overline{\mathbf{X}}$	SD	X	SD
20	23.3		19.3		45.3	:
14	16.9		23.1		84.1	
8	23.7		31.8		115.8	
4	20.7		14.8		29.0	
3	27.1		38.7		154.4	
-	0.3		0.5		1.8	
-	0.9		0.7		0.2	
	14 8 4	X 20 23.3 14 16.9 8 23.7 4 20.7 3 27.1 - 0.3	X SD 20 23.3 14 16.9 8 23.7 4 20.7 3 27.1 - 0.3	X SD X 20 23.3 19.3 14 16.9 23.1 8 23.7 31.8 4 20.7 14.8 3 27.1 38.7 - 0.3 0.5	X SD X SD 20 23.3 19.3 14 16.9 23.1 8 23.7 31.8 4 20.7 14.8 3 27.1 38.7 - 0.3 0.5	\overline{X} SD \overline{X} SD \overline{X} 20 23.3 19.3 45.3 14 16.9 23.1 84.1 8 23.7 31.8 115.8 4 20.7 14.8 29.0 3 27.1 38.7 154.4 - 0.3 0.5 1.8

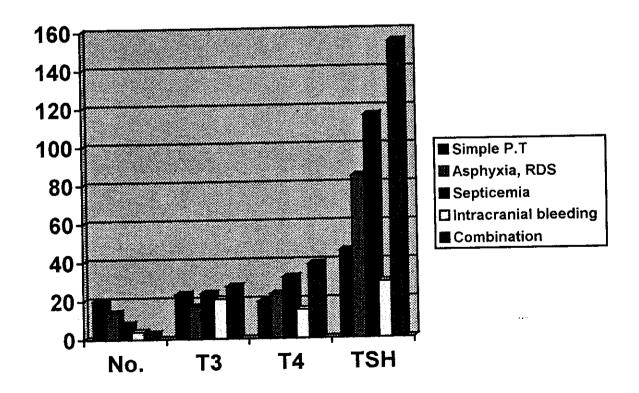


Fig (25) Comparison between the Percentage level Change in T3, T4 and TSH in group I according to the diagnosis

Table (16) Comparison between the level of urinary iodine (µg/dl) in the 2 groups at the tenth day of admission

Group	$\overline{\mathbf{X}}$	S.D	X dif.	t	P
Gr. I	7459	4488	-	-	<u></u>
			7388	8.1	0.00001
Gr. II	70.13	12.3			

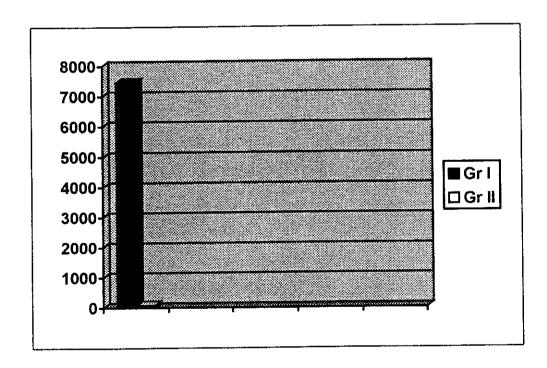


Fig. (26) Comparison between the level of urinary iodine (µg/dl) in the 2 groups at the tenth day of admission

Table (17) Characteristics of cases excluded

Cause	Number
No concent	6
Death within 48 h	8
Congenital anomalies	2
Congenital hypothyroidism	2