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Table (4): Beta-Endorphin concentration in patients with psoriasis, and patients with atopic dermatitis versus control.

Group	B-END (pg/ml) (mean ± SD)
Psoriasis (N = 20)	14.2 ± 5.9a
Atopic dermatitis (N = 20)	9.3 ± 2.2b,c
Control (N = 10)	6.9 ± 2.3

- P < 0.05
- a) control versus psoriasis.
- b) control versus atopic dermatitis.
- c) Psoriasis versus atopic dermatitis.

Table (4) shows a significant increase in serum **B-END** concentration in patients with psoriasis and atopic dermatitis versus control group. There is also a significant increase in **B-END** concentration in psoriasis group versus atopic dermatitis group.

Table (5): Relation between beta-endorphin concentration and severity, percentage of skin affection, pruritus, asthma and family history of atopy in atopic dermatitis patients.

Lesion	B-END (Pg/ml) (mean ± SD)
1- Severity	
Mild (N = 10)	8.1 ± 2.1
Severe (N = 10)	$10.5 \pm 1.5a$
2- Percentage of skin affection	
↓ 9% of body surface area (N =10)	8.1 ± 2.1
↑36% of body surface area (N =10)	10.5 ± 1.5 b
3- Pruritus	
Mild (N= 10)	8.1 ± 2.1
Severe $(N = 10)$	10.5 ± 1.5c
4- Asthma	
No (N = 13)	9.2 ± 2.3
Yes (N = 7)	9.4 ± 2.2
5- Family history of atopy	
No $(N = 3)$	10.2 ± 2.3
Yes (N = 17)	9.1 ± 2.2

a,b,c, P < 0.05

mild versus severe

Table (5) shows that severity of atopic dermatitis, percentage of skin affection as well as severity of pruritus have a significant increase of **B-END** concentration when compared to mild cases.

Table (6): Relation between beta-endorphin concentration and severity, percentage of skin affection and pruritus in psoriatic patients.

Lesion	B-END (Pg/ml) (mean ± SD)
1- Severity (PASI Score)	
Mild (10) (N = 10)	11.5 ± 4.1
\$evere (10) (N=10)	16.8 ± 6.3a
2- Percentage of skin affection ≤ 10% of body surface area: (N = 3) > 10% of body surface area (N=17)	11.3 ± 4.4 14.7 ± 3.3b
3- Pruritus No (N = 16) Yes (N = 4)	14.1 ± 6.3 14.6 ± 4.5

a,b P < 0.05 mild versus severe prosirasis

Table (6) shows the effect of severity and percentage of skin affection as well as pruritus on **B-END** concentration.

There is a significant increase in **B-END** in severe cases when compared to mild cases of psoriasis and in cases with skin affection more than 10% of body surface area when compared with cases with skin affection less than and/or equal to 10% of body surface area.

Table (7): Serum cortisol, thyroxin, thyroid stimulating hormones in patients with psoriasis, atopic dermatitis versus control.

Group	Cortisol (µg/dl)	T4 (μg/dl)	TSH (μ IU/ml)
Control (N = 10)	14.1 ± 3.3	11.8 ± 2.9	0.8 ± 0.1
Psoriasis (N = 20)	21.1 ± 7.2	11.6 ± 1.9	0.8 ± 0.1
Atopic dermatitis (N=20)	13.6 ± 2.4a,b	8.7 ± 2.1 a,b	0.97 ± 0.2

P < 0.05

- a) control versus atopic dermatitis
- b) psoriasis versus atopic dermatitis.

Table (7) shows a significant increase in serum cortisol concentration in patients with psoriasis versus atopic dermatitis and control groups. Also it shows a significant increase in serum T4 concentration in patients with psoriasis versus atopic dermatitis group.

Table (8): Comparison between beta-endorphin concentration in mild atopic dermatitis, mild psoriasis and control cases.

Group	B-END (pg/ml)
Control (N = 10)	6.9 ± 2.3
Mild atopic dermatitis (N = 10)	8.1 ± 2.1a
Mild psoriasis (N = 10)	11.5 ± 4.1 b,c

P < 0.05.

- a) control versus mild AD
- b) control versus mild psoriasis
- c) mild atopic dermatitis versus mild psoriasis`

Table (8) shows a significant increase in concentration of **B-END** in mild psoriatic patients and mild atopic dermatitis patients versus control and also there is a significant increase in **B-END** concentration in mild psoriasis patients versus mild atopic dermatitis patients.

Table (9): Comparison between beta-endorphin concentration in severe atopic dermatitis, severe psoriasis and control.

Group	B-END (pg/ml)	
Control (10)	6.9 ± 2.3	
Severe atopic dermatitis (10)	$10.5 \pm 1.5a$	
Severe psoriasis (10)	$16.8 \pm 6.3 \text{ b,c}$	

P < 0.05

- a) control versus severe AD.
- b) control versus severe psoriasis
- c) severe AD versus severe psoriasis.

Table (9) shows a significant increase in concentration of **B-END** in severe psoriatic patients and severe atopic dermatitis patients versus control and also there a significant increase in **B-END** concentration in severe psoriasis patients versus severe atopic dermatitis patients.

Table (10): Comparison between mild, severe psoriasis mild, severe atopic dermatitis in beta-endarphin, cortisol, thyroxine, thyroid stimulating hormones concentration.

Group	B-END	Cortisol	Thyroxin	T.S.H.
	pg/ml	ug/dl	ug/dl	uIU/ml
Mild psoriasis (10)	11.5 ± 4.1	12.5 ± 4.5	10 ± 1.3	0.5 ± 0.1
Severe psoriasis (10)	16.8 ± 6.3	2.5 ± 1.4a	13 ± 0.8a	0.5 ± 0.1
Mild atopic derm. (10)	8.1 ± 2.1	8.7 ± 1.4	8.7 ±2.3	0.9 ± 0.1
Severe atopic derm. (10)	10.5 ± 1.5	10.8 ± 2.9	8.7 ±2	1.1 ± 0.3

a P< 0.05 mild versus severe

Table (10) show a significant increase in **B-END** concentration in severe psoriasis versus mild psoriasis and in severe atopic dermatitis versus mild atopic dermatitis.

There also a significant increase in cortisol and thyroxin concentration in severe psoriasis versus mild psoriasis.

Table (11): The relation between stress and the concentration of betaendorphin, cortisol, T4, TSH in patients with psoriasis and atopic dermatitis.

Group	B-END (pg/ml)	Cortisol ug/dl	T4 ug/dl	TSH uIU/ml
1- Psoriasis				
Non stress (N =6)	12.2 ± 7.3	12.2 ± 5.3	17.3 ± 8.2	0.2 ± 1.9
Stress (1N= 4)	15 ± 9.8	25.0 ± 6a	19.4 ± 7	0.8± 1.9
2- Atopic dermatitis				·
Non stress (N =12)	9.9 ± 2	10.2 ± 2.9	9 ± 2.7	0.9 ± 0.2
Stress (N = 8)	8.3 ± 2.2	18.9 ± 1.4a	8.2 ± 0.8	0.9 ± 0.3

aP < 0.05 stress versus no stress

Table (11) shows that stress has a non significant effect on B-END concentration as well as T4, TSH concentration in psoriasis and atopic dermatitis group of patients.

While stress show a significant effect on cortisol concentration when compared to cases with no stress in psoriasis and atopic dermatitis patients.

MASTER SHEET OF ATOPIC DERMATITIS CASES (1-20)

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72%	72%	60%	72%	54%	48%	60%	50%	39%	39%	6%	6%	6%	6%	6%	6%	6%	3%	6%	6%	affection	of skin	
+ve	-ve	-ve	+ve	+ve	-ve	-ve	+ve	+ve	-ve	-ve	-vc	-ve	-ve	+ve	-ve	+ve	-ve	-ve	-ve	of asthma	existence	(
+ve	+ve	+ve	-ve	+ve	+ve	+ve	-ve	-ve	+ve	+ve	+ve	+ve	· +ve	+ve	+ve	+ve	+ve	+ vc	+ve		actpy	Lammy.
Severe	Severe	Severe	Severe	Severe	Severe	Severe	Severe	Severe	Severe	Mild	Mild	Mild	Mild	Mild	Mild	Mild	Mild	Mild	Mild			CM11TH T
Severe	Severe	Severe	Severe	Severe	Severe	Severe	Severe	Severe	Severe	Mild	Mild	Mild	Mild	Mild	Mild	Mild	Mild	Mild	PIIM			ATELOADE
9	\$	∞	9	∞	9	∞	9	9	œ	4	W	4	w	4	w	4	Ų	w	3		summation	Score
12.5	9.7	12.5	10.3	7.9	8.7	11.5	9.7	10.7	11.2	11.2	6.9	8.7	6.7	5.7	4.7	8.7	7.5	10.5	9.9		([m/gd)	
11.9	12.7	8.7	19.5	10.5	8.2	16.5	12.8	16.6	οο .:.	9.3	20.0	18.8	19.5	8.7	20.9	5.6	19.3	17.1	8.6	q	lb/an	COPUSOI
10.0	9.5	.e .4	9.5	7.5	6.1	13.0	8.5 5.	8.7	5.9	7.9	7.7	8.7	7.2	8.2	7.9	8.4	8.3	7.5	15.1	9	μø/dll	14
Ξ ;	u u	0.9	0.8	1.3	1.2	0.9	0.8	1.6	0.8	0.9	0.9	1.0	0.7	0.8	0.9	0.8	0.8	1.0	0.9		uIU/ml	Z

MASTER SHEET OF PSORIASIS CASES (1-20)

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-ve	-ve	-ve	-ve	-ve	-ve	-ve	-ve	-ve	-ve	-ve	-ve	-ve	-γe	-ve	-ve	+ve	+ye	+ve	+ve			Pruritus
70%	90%	80%	70%	70%	90%	80%	90%	70%	50%	30%	10%	30%	30%	10%	30%	30%	10%	20%	20%		affection	Percentage
38.7	34.0	49.0	32.0	43.0	55.0	50.6	35.1	38.7	30.8	4.9	2.8	9.6	5.4	4.8	3.2	7.2	2.1	w	w		score	PASI
Ç,	ω	7	Çı	w	4	6	w	S	4	1	2	w	2	-	2	1	2	-	w	(months)	of recent relapse	Duration
Severe	Severe	Severe	Severe	Severe	Severe	Severe	Severe	Severe	Severe	Mild	Mild	Mild	Mild	Mild	Mild	Mild	Mild	Mild	Mild			Severity
9.5	14	20	15	10	27	15	10.9	22	25	7.3	13.5	10.5	7.5	8.9	00 00	16.5	11.5	10.2	20		(pg/ml)	B-END
16.9	25	28	23.7	25.1	22.9	25.5	23.9	14.7	25.5	22.7	25.5	23.6	10.5	13.9	27.8	.4	,00 ,00	29.9	21.5		µg/dl	Cortisol
12.9	13.1	13.7	11.9	12.7	12.2	12.5	14.5	13.5	14	9.9	11.2	10.5	10.3	11	9.4	7.7	8.2	111.4	=		IP/Bri	T4
0.5	0.6	0.3	0.4	0.5	0.6	0.6	0.4	0.5	0.3	0.6	0.5	0.4	0.4	0.5	0.4	0.3	0.5	0.5	0.8		µIw/ml	HSI

MASTER SHEET OF CONTROL CASES

Case no.	Age (yrs)	Sex	B-END pg/ml	Cortisol ug/dl	T4 ug/dl	TSH uIU/ml
1	23	M	6.2	6	5.6	0.6
2	16	M	5.5	18.9	10	0.6
3	35	M	5	16.0	17.1	0.7
4	45	M	4	15	13.3	0.8
5	45	M	10.5	14.1	11.2	0.7
6	21	F	9.5	13.9	12.2	0.9
7	28	F	8.7	15	13	0.7
8	5	F	5.7	16.2	12.7	0.6
9	18	F	4.9	12.9	11.9	0.6
10	50	F	9.1	13.1	10.9	0.8

Figure (1): Beta-endorphin concentration in patients with psoriasis and patients with atopic dermatitis versus control.

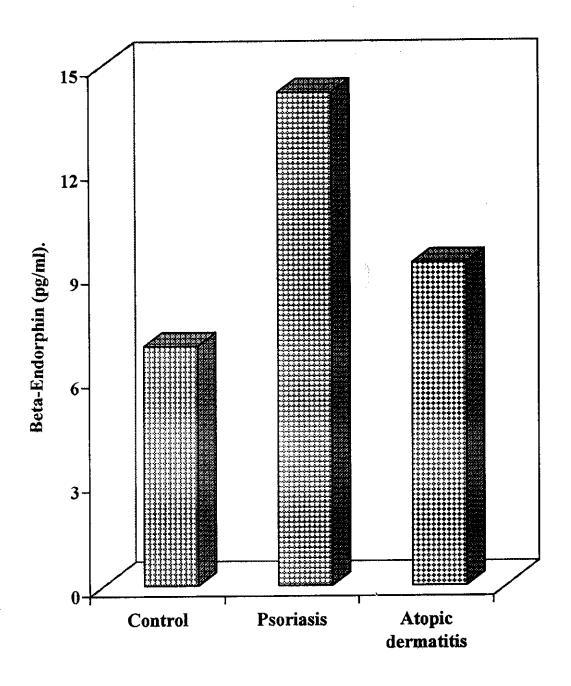


Figure (2): Relation between beta-endorphin concentration and the percentage of skin affection in patients with psoriasis.

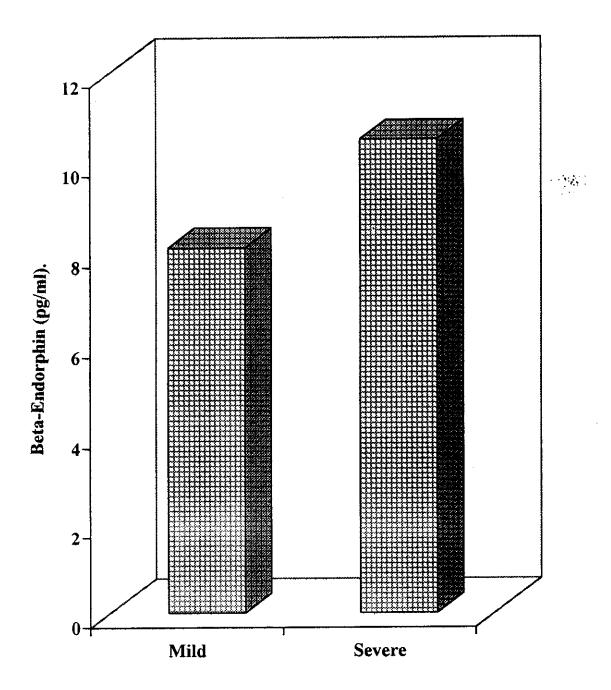


Figure (3): Relation between beta-endorphin concentration and the degree of pruritus in patients with psoriasis.

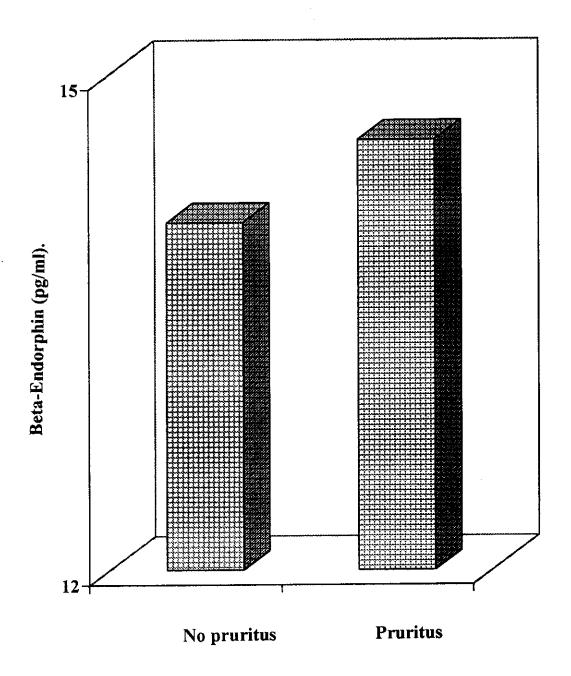


Figure (4): Relation between beta-endorphin concentration and severity of psoriasis.

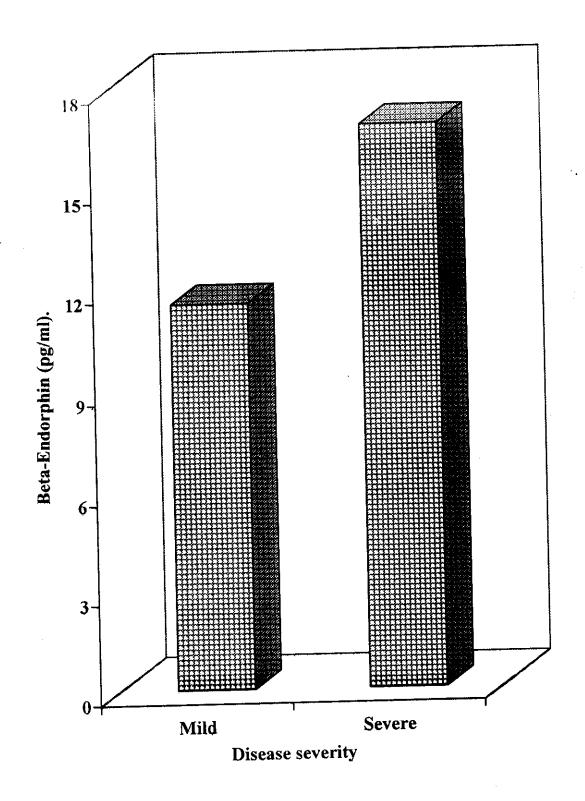


Figure (5): Relation between beta-endorphin concentration and the percentage affection in patients with atopic dermatitis.

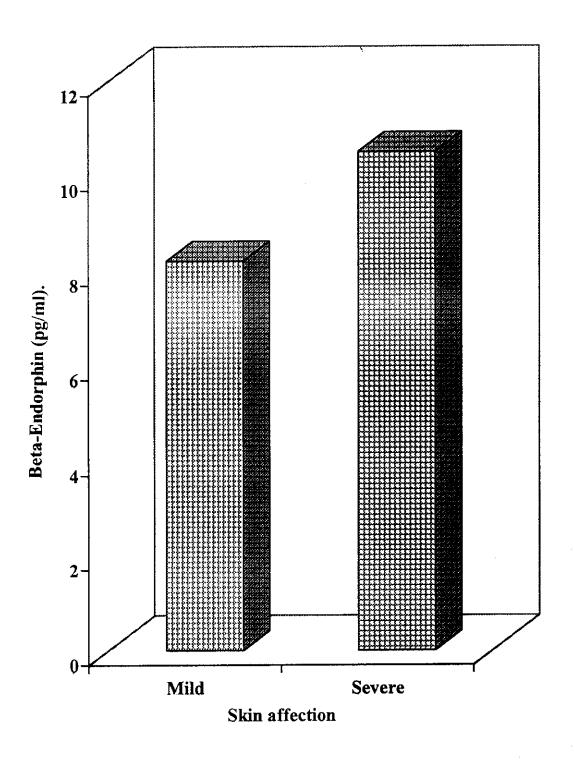


Figure (6): Relation between beta-endorphin concentration and the degree of pruritus in patients with atopic dermatitis.

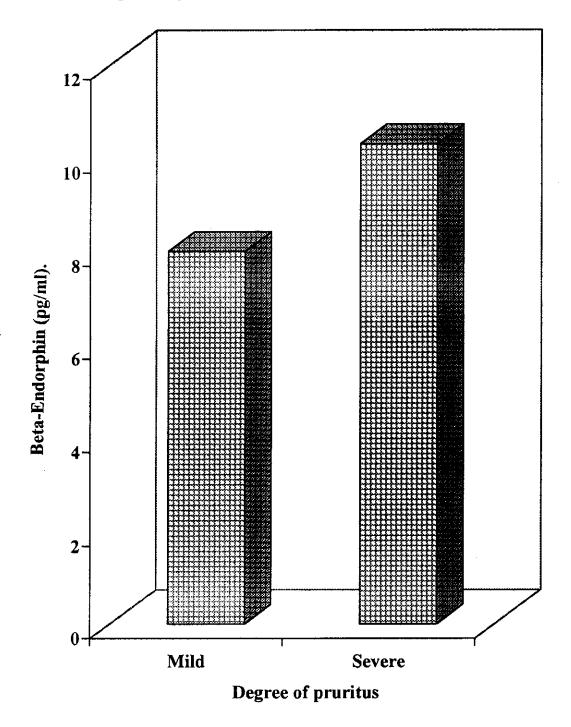


Figure (7): Relation between beta-endorphin concentration and the coexistence of asthma in patients with atopic dermatitis.

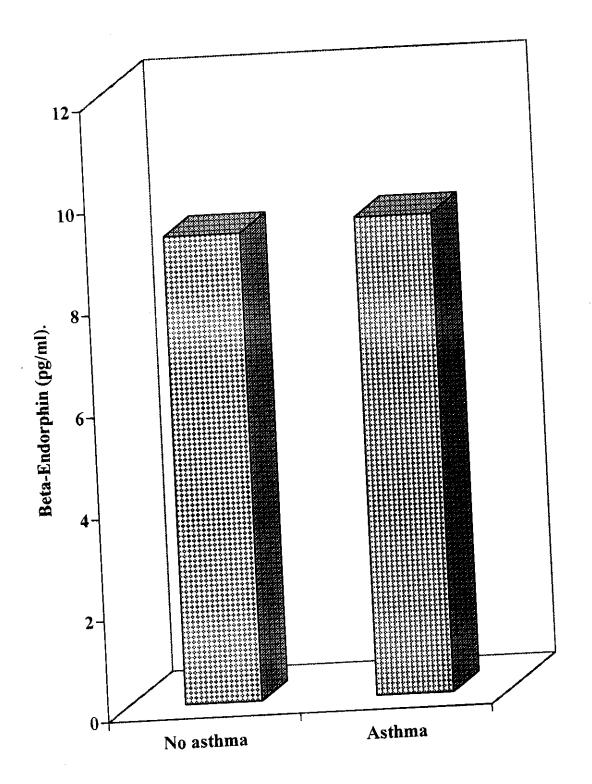


Figure (8): Relation between beta-endorphin concentration and presence of family history of atopy in patients with atopic dermatitis.

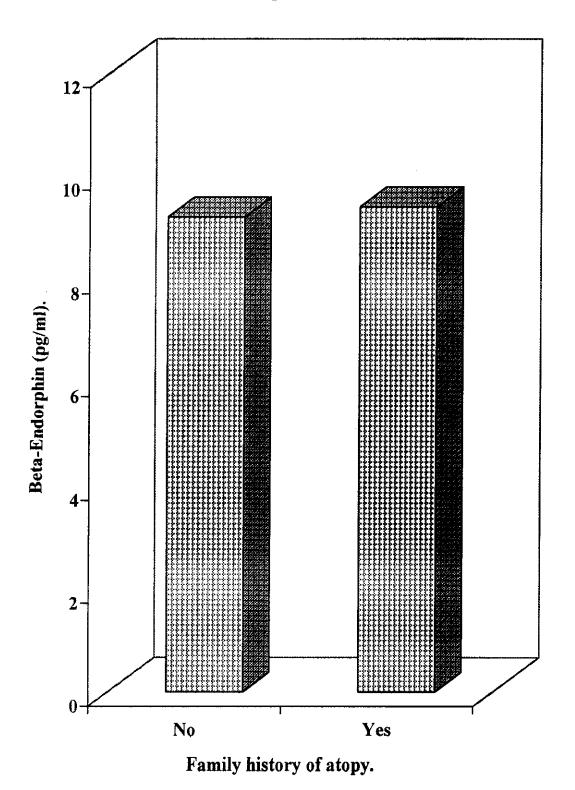


Figure (9): Relation between beta-endorphin concentration and severity of atopic dermatitis.

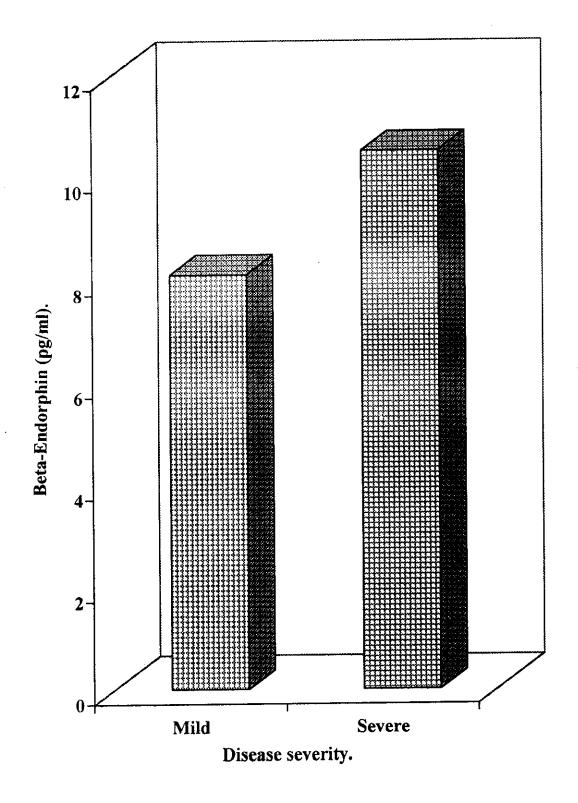


Figure (10): Serum cortisol concentration in patients with psoriasis and patients with atopic dermatitis versus control.

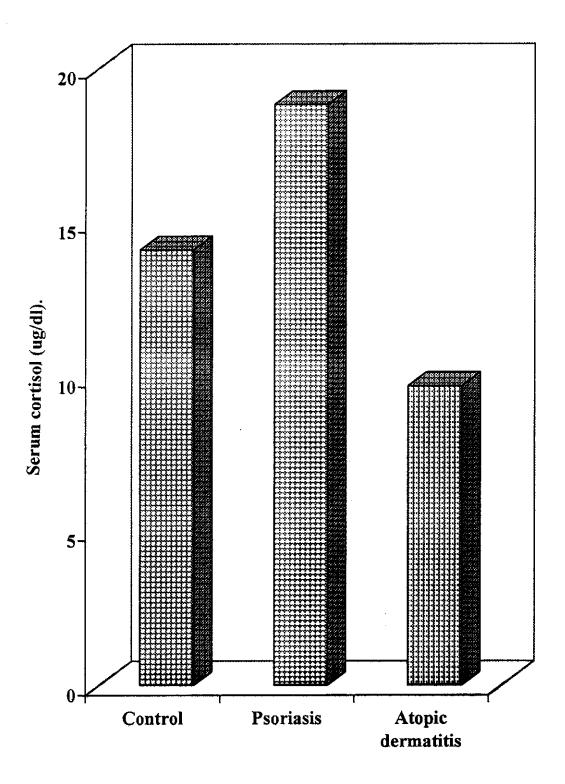


Figure (11): Serum thyroxin (T4) concentration in patients with psoriasis and patients with atopic dermatitis versus control.

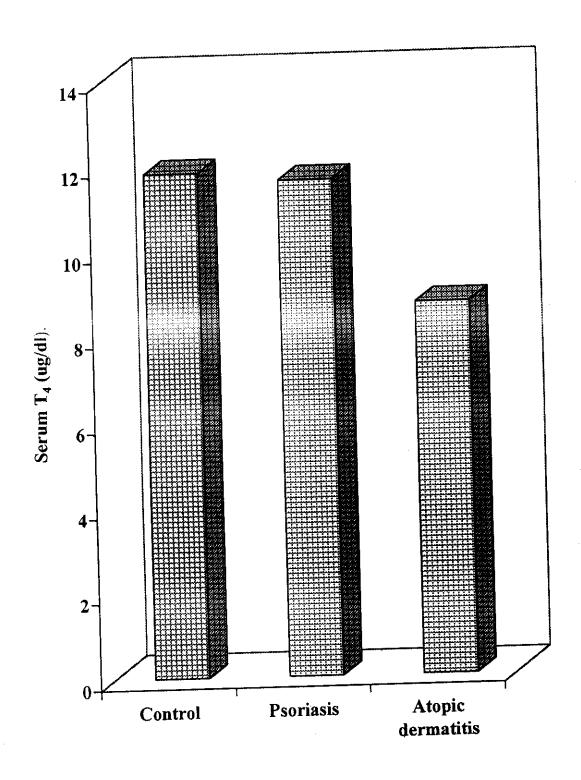


Figure (12): Serum thyroid stimulating hormone (TSH) concentration in patients with psoriasis and patients with atopic dermatitis versus control.

