

Results

Table (1) Age and gender distribution of the control group and the study group.

		Control No = 30	Study group No = 30	t-test	P Value
		Mean $\pm$ SD	Mean $\pm$ SD		
Age		21.40 $\pm$ 10.10	25.26 $\pm$ 12.58	1.184	.236
Gender	M	20.0	26.7	0.373	.542
	F	80.0	73.3		

Table (2) : Comparison between pure tone threshold of control group and family history of vitiligo subgroups .

Freq. Bands	Side	Control (30)	Family history		F	P value
			Positive (11)	Negative (19)		
250	R	10.00 $\pm$ 5.25	13.18 $\pm$ 3.37	9.74 $\pm$ 4.24	2.250	0.115
	L	10.00 $\pm$ 4.55	10.46 $\pm$ 4.16	10.00 $\pm$ 4.71	0.045	0.956
500	R	10.33 $\pm$ 4.72	13.64 $\pm$ 3.23	10.00 $\pm$ 5.27	2.440	0.096
	L	10.00 $\pm$ 4.15	13.18 $\pm$ 4.62	11.58 $\pm$ 3.75	2.605	0.083
1000	R	10.67 $\pm$ 4.50	10.91 $\pm$ 5.39	10.26 $\pm$ 4.56	0.076	0.927
	L	10.67 $\pm$ 4.10	10.91 $\pm$ 3.75	10.79 $\pm$ 3.82	0.017	0.984
2000	R	9.00 $\pm$ 4.62	10.91 $\pm$ 4.91	9.21 $\pm$ 3.82	0.774	0.466
	L	12.00 $\pm$ 3.62	13.18 $\pm$ 4.05	10.26 $\pm$ 4.85	1.945	0.152
4000	R	11.33 $\pm$ 4.72	10.91 $\pm$ 4.37	11.32 $\pm$ 4.96	0.035	0.966
	L	11.67 $\pm$ 4.80	13.64 $\pm$ 6.74	10.79 $\pm$ 5.34	0.992	0.377
8000	R	11.67 $\pm$ 4.01	15.46 $\pm$ 6.88	11.84 $\pm$ 5.82	2.292	0.110
	L	11.00 $\pm$ 3.81 ^a	16.36 $\pm$ 7.10 ^a _b	11.32 $\pm$ 5.97 ^b	4.510	0.015*

Table (3) : Comparison between TEOAE -SNR of control group and age of onset of vitiligo subgroups.

Freq band s	Side	Control (30)	Age of onset			F	P value
			<20y (A)	20-30y B)	($\geq$ 30y (C)		
1000	R	8.33 $\pm$ 5.25	8.24 $\pm$ 5.86	9.60 $\pm$ 2.61	8.25 $\pm$ 5.92	0.092	0.964
	L	9.73 $\pm$ 7.67	8.12 $\pm$ 5.97	8.20 $\pm$ 4.32	7.63 $\pm$ 5.15	0.343	0.794
1500	R	12.07 $\pm$ 6.22	13.53 $\pm$ 4.12	12.40 $\pm$ 8.26	11.38 $\pm$ 5.95	0.326	0.807
	L	11.13 $\pm$ 4.44	11.76 $\pm$ 4.44	9.40 $\pm$ 2.07	14.25 $\pm$ 4.37	0.498	0.685
2000	R	13.13 $\pm$ 7.72	14.94 $\pm$ 5.15	13.40 $\pm$ 5.32	12.75 $\pm$ 7.63	0.301	0.825
	L	13.13 $\pm$ 5.	14 $\pm$ 6.18	15.40 $\pm$ 7.8	13.25 $\pm$ 7.4	0.241	0.868

3000	R	26 12.13±8.	13.29±6.6	9 14.80±4.5	2 9.88±6.60	0.589	0.624
	L	17 11.27±4.	2 12.71±5.5	5 14.80±5.4	5 10.88±7.9	1.139	0.341
4000	R	48 16.87±4. 67 ^{ab}	0 10.24±7.0 ^{ac}	5 16.20±3.57 cd	7 6.88±4.49 ^b d	10.502	≤0.001* *
	L	76 ^{ab} 15.73±5.	8.76±5.27 ^a	1 13.40±5.4	8.75±6.04 ^b	6.989	≤0.001* *

Table (4) Measurement of central tendency, dispersion and position, by frequency to the value of amplitude of the distortion otoacoustic emission Product in the study group .

Freq bands	Side	Mean	SD	Minimum	Maximum
1000	R	8.58	6.71	-3.2	18.6
	L	10.07	4.58	3.9	22
1500	R	15.41	7.63	1.6	26.7
	L	13.78	6.01	2.3	23.1
2000	R	14.63	5.61	3.2	22.3
	L	15.24	6.11	6.2	29.1
3000	R	12.43	9.71	-17.2	24.1
	L	14.17	6.04	6.3	23.6
4000	R	19.56	6.04	6	31.4
	L	19.49	5.94	6.6	30.5
8000	R	17.92	8.10	-1	33.9
	L	15.8	10.4	-1.6	32.7

Table (5) Mean and SD of auditory brainstem response (ABR) latencies in milliseconds of both control and study group .

ABR waves at 90 dB nHL	side	Control group Mean ± SD	Study group Mean ± SD	t-test	P value
Wave I	Rt	1.52 ±0.0276	1.48 ± 0.0234	3.314	0.002**
	Lt	1.53 ± 0.025	1.49 ± 0.027	4.120	0.001***
Wave III	Rt	3.56 ± 0.0887	3.54 ± 0.0688	0.935	0.012*
	Lt	3.36 ± 0.084	3.35 ± 0.071	1.550	0.011*
Wave V	Rt	5.636 ± 0.110	5.643 ± 0.128	1.563	0.011*
	Lt	5.62 ± 0.105	5.60 ± 0.086	0.883	0.013*

No statistically significant difference was found between control and study