THE PREVALENCE OF NICKEL DERMATIT J. Fac. Med. Baghdad 1989 Vol. 31 No. 4 AMONG MALES IN BAGHDAD Hikmet Jamil¹, Al-Tawil, NG², Al-Tawil, WG¹ and Mukhlis, GM

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Key words: Nickel allergy, dermatitis, males, Iraq. نسبة انتشار حساسية التماس بمادة النيكل بين الذكور في مدينة بغداد

الخلاصة:

لقد تبين أن نسة انتشار حساسية التماس لمادة النيكل بين الذكور في مدينة بغداد كانت ٤ ر٨٪ رور بي سيد بسد و مرسي من خلال استجواب ٢ ٥٥٩ شخصا اختيروا بشكل عشوائي من جميع مناطق بغداد . كما تبين ان سير الساعة كان اكثر المواد سببا لحساسية التماس .

SUMMARY:

An epidemiological study, using questionnaire forms, was conducted to estimate the prevalence of nickel dermatitis among males in Baghdad. A prevalence rate of 8.4% (729/8592) was found. Watch straps were the most common sensitizers.

INTRODUCTION:

Nickel allergy is an important problem in everyday life. In many countries Nickel is the commonest sensitizer in females while allergy to nickel in males has been infrequent¹. In a previous study, a high prevalence rate of 29.2% (1461/ 4998) was found among Iraqi females². This study was conducted to estimate the prevalence of nickel dermatitis among males in Baghdad.

SUBJECTS AND METHODS:

Questionnaire forms were filled-out by 8592 maies during a two-months period in 1986. The population sample included maies from schools, institutes, colleges and visitors to outpatient clinics (except dermatology sections). The forms were distributed and collected by eight groups (five students in each

group) of well-instructed fourth year medical students. The groups were assigned to different districts of Baghdad City and each group was supposed to different districts of Baghdad City and each group was supposed to different districts of Baghdad City and each group was supposed to different districts of Baghdad City and each group was supposed to the supposed t group) of well-instruction of Baghdad City and each group was supposed to col-gred to different districts of Baghdad City and each group was supposed to col-gred to different However, the number of complete forms was contracted. gned to different. However, the number of complete forms was only 8592; the let 1250 forms. However are cause of nickel dermatitis such as watch at the cause of nickel dermat lect 1250 toring. The cause of nickel dermatitis such as watch straps, shoe rest were neglected, was enquired about, the Dimethylalyovime (DMC) rest We're negretic, was enquired about, the Dimethylglyoxime (DMG) test was laces, pens ...etc, was enquired about, the Dimethylglyoxime (DMG) test was laces, pens ...etc, was enquired about, the Dimethylglyoxime (DMG) test was laces, pens ...etc, was enquired about, the Dimethylglyoxime (DMG) test was laces, pens ...etc, was enquired about, the Dimethylglyoxime (DMG) test was laces, pens ...etc, was enquired about, the Dimethylglyoxime (DMG) test was laces, pens ...etc, was enquired about, the Dimethylglyoxime (DMG) test was laces, pens ...etc, was enquired about, the Dimethylglyoxime (DMG) test was laces, pens ...etc, was enquired about, the Dimethylglyoxime (DMG) test was laces, pens ...etc, was enquired about, the Dimethylglyoxime (DMG) test was laces, pens ...etc, was enquired about, the Dimethylglyoxime (DMG) test was laces, pens ...etc, was enquired about, the Dimethylglyoxime (DMG) test was laces, pens ...etc, was enquired about, the Dimethylglyoxime (DMG) test was laces, pens ...etc, was enquired about, the Dimethylglyoxime (DMG) test was laces, pens ...etc, was enquired about, the Dimethylglyoxime (DMG) test was laces, pens ...etc, was enquired about, the Dimethylglyoxime (DMG) test was laces, pens ...etc, was enquired about, the Dimethylglyoxime (DMG) test was laces, pens ...etc, was enquired about the Dimethylglyoxime (DMG) test was laces, pens ...etc, was enquired about the Dimethylglyoxime (DMG) test was laces, pens ...etc, was enquired about the Dimethylglyoxime (DMG) test was laces, pens ...etc, was enquired about the Dimethylglyoxime (DMG) test was laces, pens ...etc, was enquired about the Dimethylglyoxime (DMG) test was laces and ...etc. laces, performed to detect nicl'el in such objects¹.

Aprevalence rate of 8.4% (729/8592) for nickel dermatitis was found among RESULTS: Aprevaled Baghdad (Table 1). Watch straps were the most common sensitionales living in Baghdad (Table 1). zers (Table 2).

Table 1. Prevalence of nickel allergy among males in different age groups

	In different age 5			A Date of the second
Age group	Total no.	Nickel all	ergy %	Thinky was a series
(years)	1110	106	9.5	S.M.WIEBA.
-15	2355	175	7.4	
16-20	2037	162	7.9	Art ecideniles actait
21-25	827	77	9.3	mate the blavaler of
26-30	643	65	10.1	ce ante of 6 4 % 1729 3
31-35	390	43	11.0	pacificity to pacific
36-40	448	40	8.9	
41-45	434	43	9.9	A STATE OF THE PARTY OF THE PAR
46-50	348	18	5.1	MORE TRANSPORTER
50-		729	8.4	
Total	8 5 9 2	and the later		tolins a ymals awald
2000111111111		4: 4: 4	a provale	ence

Table 2. Nickel source and its prevalence among 729 nickel-allergic males in Baghdad

Metal source	Nickel al	lergy
	431	59.1
Watch straps	88	:00 12.13 M C 4A
Shoe laces	83	11.4
Pens	22	4.4
Coins		5.3
Keys	and the second s	1.0
Buttons Others	49	6.7
Total 3	729	100.0
11/20	0.93	

ickel sensitivity as well as female to male ratio varies from er probably due to variation in the exposure to nickel. Preser probably due to variation in the exposure to nickel. Preser probably due to variation in the exposure to nickel. Preserved from different clinics 1.3-5. The female sensitive individuals is generally high, and in six Scandinavaried from 2:1 to 15:1⁶. In Kuwait, however, the ratio was varied from 2:1 to 15:1⁶. In Kuwait, however, the ratio was the greater exposure of men to nickel. In Iraq, a high preserved from all the greater exposure of men to nickel. This, if compared with the reserved from this study male to male ratio of 3.5:1 is obtained. However, the prevasults of this study titles whether in males or females in Iraq is higher than in other countries.

iects may be the socipitating factors.
In this study warm straps were the most common cause of nickel dermatitis.
The back and the powarches are made of brass plated with nickel and in many watches the which wheel and the metal bar to hold the strap are nickel plated which are unsuappoded sources of nickel contact.

The prevalence of nickel sensitivity is high in Iraq. Health education programs and regulations reparding the manufacture of nickel-containing objects should be considered.

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