

The Effectiveness of Olive Oil to Combat Lice in Pregnant Women and Children

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Abstract

For the period from February 2019 until August 2019 it was checked 75 cases of pregnant women and children included girls and boys, and 28 pregnant women, 42 girls and 5 males were found to be infected . Head louse , as the study showed that the highest incidence of head louse was recorded among girls , it reached 56% , followed by pregnant women with a percentage of infection 37.33% , while males recorded less infection with head louse amounted to 6.66% , respectively , and olive oil was used to determine its effectiveness to combat head louse as a natural substance , and it used Statistical analysis was used Dunkin test .

Keyword : Lice , Olive oil , Pregnant , Children

Introduction

Pediculus humanus is a small insect the compact area of the dorsal and ventral region is lost to the wings . This insect hatch from eggs called nits . The infestation of them is called *Pediculus humanus capitis* . Which are attached to the individual hairs near the scalp . Nits can be found all over the hair , often located at the back of the scalp , behind the ears and the top of the head . Head louse not live more than 3 days away from warmth and moisture in the scalp . Head louse hatch in a period of 7 to 10days [1][2] . Female lice can live for 21-30 days , and lay about 6-8 eggs a day . This insect lives by biting and sucking blood from the scalp [3]. The most common symptom of lice infestation is itching. Other signs and symptoms may vary depending on the type of lice [4]. Severe itching from lice infestation can cause skin infections , especially when the itching is severe and persistent [5] . The olive tree is one of the perennial trees and is considered a wealth due to its economic and environmental benefits . Its fruit has many benefits , it is a complete food , and olive oil is extracted from it with health and nutritional benefits , as it does not contain cholesterol that is harmful to the heart [6] . In addition to auto oxidation and fat oxidation genes . The Olive oil is easy to digest , light and preserves . Beauty and

eyeglasses are recommended for use in cooking food and add it to fresh vegetables as it is reduces blood sugar [7] .

Material and Method

For the period from February 2019 until August 2019 . Examining 75 cases of pregnant women and children in the city of Kirkuk . To find out the prevalence of *Pediculus humanus capitis* , some information was recorded about each case upon examination , such as gender , area of residence and climate factor , according to the most famous study . Fully examine the hair from the scruff and behind the ears with the naked eye , using the magnifying glass when needed . The insect has collected in a 10 mm bottle , contain 70% alcohol and forceps for the purpose of dispersing hair , thin wooden sticks were used to facilitate the process . It used olive oil to eliminate head louse , by painting the scalp well with olive oil, and covering all hair follicles with it to ensure oxygen cut off . Here's how to use olive oil : Shampoo and clean hair thoroughly . Ensure that the hair is cleaned of any other greasy substance , as it prevents olive oil from sticking to the hair and scalp , thus reducing the effectiveness of the olive oil recipe . If the hair is thick and long , separate it into tufts to make it easier to apply

it well , apply olive oil to the hair and scalp , and ensure that the oil covers all areas of the head . Tie the hair , wrap it and cover it with a cap , and make sure that the cap is narrow enough to prevent the lice from trying to escape from underneath , and leave the hair covered with oil for 4 to 6 hours . After this period expires , remove the cap from the hair and comb it with a special comb . Wash hair with shampoo twice , and clean it of the effects of olive oil . Dry hair well by dividing the hair into several sections to make it easier to dry it with a hair dryer and ensure that the scalp is dried . And repeat this method two or three times during the week . Statistical analysis was used Dunkin test .

Result and Discussion

Of the 75case included in the study , 28 were pregnant and 47children (42 girls & 5 boys) , (Table1) . The prevalence of infestation was significantly higher among girls (56%) than (37.33%) pregnant and boys (6.66%) .This increase in pregnant women is due to the ease of movement of lice between mothers and affected children and the difficulty in dealing with them as a result of the physiological condition experienced by the mother ^{[8][9]} , And that the difference in the rates of head louse infection between the sexes is not due based on physiological basis , it depends on the difference in hairdo and hair length where long hair is a safe haven for lice , through other studies conducted in Jordan ^[10] , boys have a different behaviour , as they have a

short contact during daily play and sporting activities , while girls have a desire to direct and prolonged contact in small groups . Head louse are not a sign of people or impure homes . It can occur at any age and gender , whether male or female . Anyone who has close contact with an infected person or shares personal items can become infested ^{[11][12]} . As for the (Table2) . Compare the treatments within each category , the results were as follows in pregnant women (37.5%) , for girls (55.55%) and for males (6.944%) . He knows that a woman's body is exposed to many changes during pregnancy , and those changes affect her scalp as her hair becomes weak and fast falling out , Lice treatments may adversely affect the safety of pregnancy and the fetus , as most of these medical treatments contain toxic chemicals . For the safety of the pregnant mother ^[13] . Olive oil has been used that is easy to digest and preserves beauty and skin glasses . And olive oil is used to nourish the scalp where it works to soften and ease the demobilization of hair as it works to kill the insect that the use of olive oil bridges the gaps through which the lice breathe . The cause of the lice 'death is due to the action of some plant compounds in killing the epithelial cells lining the insect's skeletal channel . It has also been used for children because their skin is thin and protect them from exposure to toxic chemicals ^{[7][14]} . The values followed by the same letter are not significantly different according to the Dunkin test ($P \leq 0.05$) .

Table No. 1. Ratios of head louse infection in pregnant women and children in Kirkuk

Sex	The injured	%
Pregnant	28 b	37.33
girls (6-9) years	42 a	56
boys (6-9) years	5 c	6.66
Total	75	

The values followed by the same letter are not significantly different according to the Dunkin test ($P \leq 0.05$).

Table No.2. Treating lice with olive oil in pregnant women and children in Kirkuk (Compare the treatments within each category)

Sex	The injured	Use olive oil	%
Pregnant	28 a	27 b	37.5
girls (6-9) years	42 a	40 b	55.55
boys (6-9) years	5 a	5 a	6.944
Total	75 a	72 b	

The values followed by the same letter are not significantly different according to the Dunkin test ($P \leq 0.05$).

Conclusion

After representing these results, we concluded that head lice that affect pregnant women and children can be cured by using olive oil as a natural substance.

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