**Influence of *Pistacia Lentiscus* Oil on Serum Biochemical Parameters of Domestic Rabbit *Oryctolagus Cuniculus* in Mercury**

**Induced Toxicity**

***Abstract***

 The impact of *Pistacia lentiscus* oil, on mercury induced toxicity in domestic rabbit

*Oryctolagus* c*uniculus* was investigated. Twenty four males were divided into three groups.The control was fed a basic diet, whereas the other two groups were treated either by Hg alone (1g HgCl2/Kg food) or Hg-oil (1g HgCl2/Kg food + 5% *Pistacia* oil), respectively, for 37 consecutive days. The following serum parameters were estimated; alkaline phosphatase (ALP), aspartate aminotransferase (AST), alanine aminotransferase (ALT), urea, creatinine, uric acid, triglicerides, total cholesterol, HDL-cholesterol and LDLcholesterol. Compared to the control, results have revealed a significant decrease in serum ALP activity in mercury treated group, accompanied by a significant increase in serum AST. Furthermore, serum urea concentration was significantly higher in the mercury group compared to the control. However, the concentration of urea and the activity of ALP and AST of the Hg+oil group were not statistically different from the control. Moreover, no significant variations were recorded concerning AST, creatinine and uric acid. The lipid profile; triglycerides, total cholesterol, HDL-cholesterol and LDL-cholesterol were not significantly varied between the three groups, despite the observed elevated concentration of triglycerides in Hg+oil group. In conclusion, *P. lentiscus* oil may partially help in the protection against mercury intoxication as in the case of ALP, AST and urea, and it could

also be considered a safe nutritional source, at least by maintaining total cholesterol and LDL-cholesterol in their normal ranges.

**Keywords:** Hg, lipid profile, oil, *Pistacia lentiscus*, rabbit, serum biochemical

 Parameters

**I. Reading comprehension**

1. **The type of text is :**

a) narrative b) argumentative c) descriptive

1. **Answer the questions according to the text**
	1. What are the serum parameters estimated after the treatment?
	2. Does the the concentration of urea and the activity of ALP AST of the Hg+oil group remain the same ?
	3. What are the possible protection ways of *Pistacia lentiscus*  oil ?
2. **Are these statements true or false ?**
3. Hg oil (1g HgCl2/Kg food + 15% *Pistacia* oil) is the major factor of *Oryctolagus* c*uniculus ?*
4. The objective of the present work is therefore, to evaluate the beneficial roles of *P. lentiscus* oil.
5. Pistacia lentiscus is commonly used in Algeria.

***II.* Mastery of Language**

1. Give the synonym of: Component = strong=
2. Give the antonym of: Increase≠ Actual ≠
3. Fill in the table below

|  |  |  |
| --- | --- | --- |
| Noun  | Verb  | adjectif |
| Empowrment  |  |  |
|  | To research  |  |
|  |  | Significant  |

1. Make the verb between brackets into the right form

Researchers (to discover) that mercury (to provoke) the oxidative stress

**III. Production**

In a well coherent paragraph, write about Pistacia Lentiscus production in Algeria.

 **GOOD LUCK !!!**