

NEW PERSPECTIVES FOR PREVENTION AND TREATMENT OF SULFUR MUSTARD INTOXICATION- CONTINUATION

Veselin Ivanov^{1*}, Georgi Arabadzhiev², Marian Pashov³

¹Department of Chemistry and
Biochemistry, Medical faculty, Trakia
University – Stara Zagora, Bulgaria

²Department of Anaesthesiology, Intensive
care medicine, General medicine and
Disaster medicine; Medical Faculty,
Trakia University, Stara Zagora, Bulgaria

³“KARNO BG” Ltd, Veliko
Tarnovo, Bulgaria

The chemical weapons are weapons for mass destruction. They have taken the life and damaged the health of many people. They have been used in many wars and terroristic acts and there is no guarantee that they are not going to be used in future.

Historically, one of the most applied chemical weapon is the sulfur mustard. It remains and one of the most dangerous chemical weapons, nowadays. At present there is not a universally approved treatment of sulfur mustard intoxication.

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In it the structure formulas of sulfur mustard, silybin A and silybin B have been observed. These compounds could be found in extract of *Silybum marianum* (L) Gaertner (Milk thistle), called silymarin.

The results of some Quant-chemical researches and EPR (electron paramagnetic resonance) investigations have been analyzed. Some data of the toxicity mechanism of sulfur mustard, have been analyzed, as well too. In conclusion reasoned has been expressed the hypothesis, that silymarin (silybin) could possibly have enormous beneficial effect in the prophylaxis and the therapy of intoxication with some chemical weapons, especially sulfur mustard and similar to it compounds, e.g. like nitrogen mustard and lewisite. It's been expressed and the hypothesis for high efficiency of silymarin (silybin) in combination with Vit.E and Vit. A (preparation Vitasil).

By the time of publishing of the article, the authors had not observed such statement in the literature. In the next couple of years, four publications supporting experimentally this hypothesis, were issued (1, 3, 5, 6). Unfortunately none of them, has not cited our article. Perhaps the authors did not find our publication, although another author quoted her (4).

Key words: *sulfur mustard, chemical weapons, chemical warfare agents, iprit, silybin,*

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