

Chemical warfare agents

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Nerve agents (NA) were developed over six decades ago. Nerve agents that are defined nervous gases are compound organ phosphorous(OP). It is chemically related to some insecticides(parathion, malathion). NA are divided into tabun, sarin, soman and VX. NA is able to irreversible bounding to acetyl cholinesterase (AChE) Enzyme, and leads to preventing hydrolyzing. These agents are highly toxic and possess some physical properties, such as, colorless, relatively odorless. Lipophilic and liquid form. All agents are able rapidly penetrating to CNS and through inhibition neuromuscular junction of skeletal muscle; preganglionic nerves of autonomic nerves. Following exposure and inhibition over > 60% of AChE enzyme pool. Over in CNS and peripheral are presented.

Some of the signs of poisoning consist of:

Sweating

Palpitation

Tachycardia

Bronchial constriction

Respiratory failure

Weakness

Paralysis

Tremor

And Urinary incontinence.