

The first statement is false; the second statement is true

Adverse effects caused by local anesthetics are categorized into two major groups:

1. Effects resulting from toxicity
2. Effects resulting from allergy

Toxicities:

- Too much anesthetic in the bloodstream can cause toxicities to the central nervous system (*CNS*) and cardiovascular system.
- The **CNS** effects include: restlessness, stimulation, tremors, convulsive seizures followed by CNS depression, slowed respiration and even coma.
- The **cardiovascular** effects include: bradycardia and reduction of cardiac output.

Allergy:

- Hypersensitivities or allergic reactions to local anesthetics, particularly from the amides, are rare. These reactions are manifested as dermatological reactions and edema at the injection site.
- Asthmatic wheezing syndromes have occurred in response to local anesthetic injections.
- Allergic reactions are **more prevalent** with the ester-type rather than the amide-type anesthetics.
- **Ester** local anesthetic allergic manifestations include: nasolabial swelling, itching, and oral mucosal swelling.