

VULNERABILITIES IN THE SUPPLY CHAIN

Counterfeits have entered legitimate pharmaceutical supply chains at nearly every step.

False Labeling of Pharmaceutical Ingredients

Broker falsely labels low-cost active ingredients as if from FDA-approved facility; later linked to 1,974 adverse reactions including 49 deaths.

Counterfeits Sold to Wholesalers

Florida criminals relabel low-dose anemia drug as a higher-strength product; passes via intermediaries to chain drugstore which sells counterfeit medicines to as many as 90,000 patients.



Adulterated Raw Materials

Supplier uses a cheaper synthetic chemical for blood thinner Heparin. Result: possible cause of 3-9 deaths.

Toxic Ingredients

Factory mislabels antifreeze solvent as 'glycerin' which is used in 60,000 units of medicine, resulting in 78 deaths.

Adulteration by Pharmacies

German pharmacist charged with handling \$2.16 million in counterfeit medications for impotency, bodybuilding products, painkillers, antibiotics, and cancer drugs.

REDUCE THE RISK: TOP PRACTICES

1. Foster greater cooperation, coordination, and accountability among all participants.
2. Increase information sharing to strengthen supply chain integrity.
3. Work collaboratively with government authorities to support product safety and quality.