

TOXIDROME ALGORITHM

pemsource.org

Work-up to consider
 Bedside glucose
 Lytes (anion gap)
 Serum osm
 CK
 Acetaminophen
 Salicylate
 Urine pregnancy
 ECG
 Tox screen

Toxidrome-oriented physical exam:
 Vital signs: temperature, heart rate, blood pressure, respiratory rate
 Neurologic: level of consciousness, pupils, motor response
 Skin moisture: check in patient's axillae
 Lung sounds and bowel sounds

Tachycardia +/-
Hypertension

Bradycardia +/-
Hypotension

Agitated behavior,
delirium, mydriasis,
increased temp

Nicotinic
Muscle cramps
Tachycardia
Weakness
Twitching
Fasciculations

MTuWThF
mnemonic

Altered mental
status, +/- resp
depression

Cholinergic
Diarrhea
Urination
Miosis
Bronchorrhea
Bradycardia
Emesis
Lacrimation
Salivation and
Sweating

Pesticides:
Organophos.
Carbamates

Dry skin
Decreased
bowel sounds

Sweaty
Hyperactive
bowel sounds

Anticholinergic
Anti-H1
TCA
Anti-
psychotics

Sympathomimetic
Cocaine
Amphetamines
PCP
Ephedrine

Miosis
(pinpoint
pupils)

↓

Opiate
Also
Clonidine

Normal pupils

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Sedative-
Hypnotic
ETOH
Benzos
If anion gap,
toxic alcohol

Vision changes,
N/V, abnormal
ECG

↓

Digoxin
Foxglove
Oleander

Hypo
glycemia

(may have)
Hyper
glycemia

Beta
blocker

Ca
Channel
blocker