



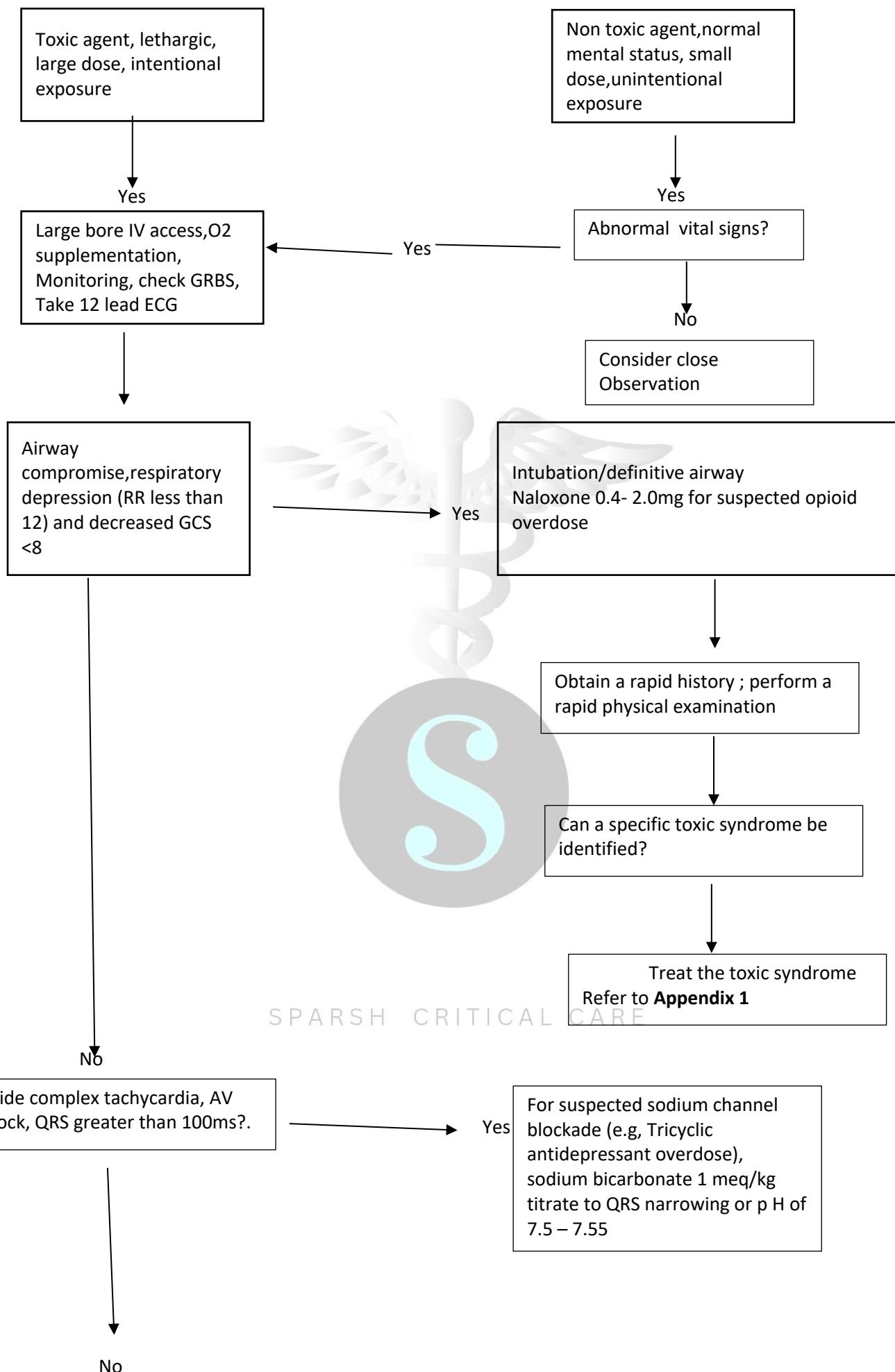
POISONING TO OP POISONING

Provisional diagnosis	
Duration of previous hospitalization (if any)	
Previous lab investigations if any	

CO-MORBIDS	<input type="checkbox"/> Hypertension	<input type="checkbox"/> AF	<input type="checkbox"/> COPD
	<input type="checkbox"/> Type 2 Diabetes Mellitus	<input type="checkbox"/> Anticoagulation	<input type="checkbox"/> CLD
	<input type="checkbox"/> CAD	<input type="checkbox"/> CKD	<input type="checkbox"/> Recent Surgery



SPARSH CRITICAL CARE



Hypotension?

Yes

IV Fluid boluses
Vasopressors :
Noradrenaline : 0.05 – 0.5 mcg/kg/min
Adrenaline : 0.01-0.5 mcg/kg/min
If B-Blocker or Calcium channel toxicity, use specific antidote :
Inj.Glucagon : 3-10 mg bolus, if clinical response, start iv infusion 3-5 mg/hr
Inj.Calcium Gluconate 0.6-1.2 ml/kg/hr
Inj.Insulin/Dextrose infusion : High dose insulin 1 unit/kg bolus, then 0.5 unit/kg iv infusion along with dextrose infusion targeting GRBS 140-180 mg/dl

No

Seizures/ status epilepticus

Yes

25% Dextrose for hypoglycemia
Inj.Lorazepam/ Inj.Midazolam 0.1 mg/kg
Inj. Levetiracetam 60mg/kg loading dose
Or
Inj.Phenytoin 20mg/kg loading dose as slow iv infusion
Or
Inj. Valproate 40 mg/kg as the loading dose

No

Coma or persistent altered mental status

Head CT scan
25% Dextrose if hypoglycemia

SPARSH CRITICAL CARE

Reassess and complete physical examination
Send bloods : CBP,RFT, ABG, Serum osmolality and check osmolol gap (if >10,toxic alcoholic intake is possibility)
Send serum acetaminophen level and Urine for toxicological screening

Consider gastric lavage unless contraindicated (e.g., corrosive ingestion)

Consider prevention of absorption with activated charcoal 50 to 100 g

Evaluate for enhanced elimination
1) Multiple-dose activated charcoal
2)Urinary Alkalization
3) Extracorporeal removal (e.g., dialysis, charcoal hemoperfusion)

Appendix 1

Toxidromes	Mental status	Pupils	Vitals	Other manifestations	Examples of toxic agents
Sympathomimetic	Hyper alert, agitation, hallucination, paranoia	Mydriasis	Hyperthermia, tachycardia, hypertension, widened pulse pressure	Diaphoresis, tremors, hyperreflexia, seizures	Cocaine, amphetamines, ephedrine, theophylline, caffeine
Anticholinergic	Agitation, hallucinations, delirium, coma	Mydriasis	Hyperthermia, tachycardia, hypertension, tachypnea	Dry flush skin, dry mucous membranes, decreased bowel sounds, urinary retention, myoclonus	Antihistamines, TCA, antiparkinsonism agents, atropine, antispasmodics
Hallucinogenic	Hallucinations, perceptual distortions, depersonalization, agitation	Mydriasis (usually)	Hyperthermia, tachycardia, hypertension, tachypnea	Nystagmus	Phencyclidine, MDMA, MDEA
Opioid	CNS depression, coma	Miosis	Bradypnea, apnea	Hyporeflexia, pulmonary edema, needle marks	Heroin, morphine, methadone, diphenoxylate
Sedative-hypnotic	CNS depression, confusion, stupor, coma	Variable	Often normal; hypothermia, bradycardia, hypotension, bradypnea, apnea	Hyporeflexia	Benzodiazepines, barbiturates, alcohols, zolpidem
Cholinergic	Confusion, coma	Miosis	Bradycardia, hypertension, tachypnea, hypotension, bradypnea	Salivation, urinary and fecal incontinence, diarrhea, emesis, diaphoresis, lacrimation, GI cramps, bronchoconstriction, muscle fasciculations and weakness, seizures	Organophosphate and carbamate insecticides, nerve agents, nicotine, physostigmine, edrophonium
Serotonin syndrome	Confusion, agitation, coma	Mydriasis	Hyperthermia, tachycardia, hypertension, tachypnea	Tremors, myoclonus, hyperreflexia, clonus, diaphoresis, flushing, trismus, rigidity, diarrhea	MAOIs, SSRIs, meperidine, dextromethorphan, TCA

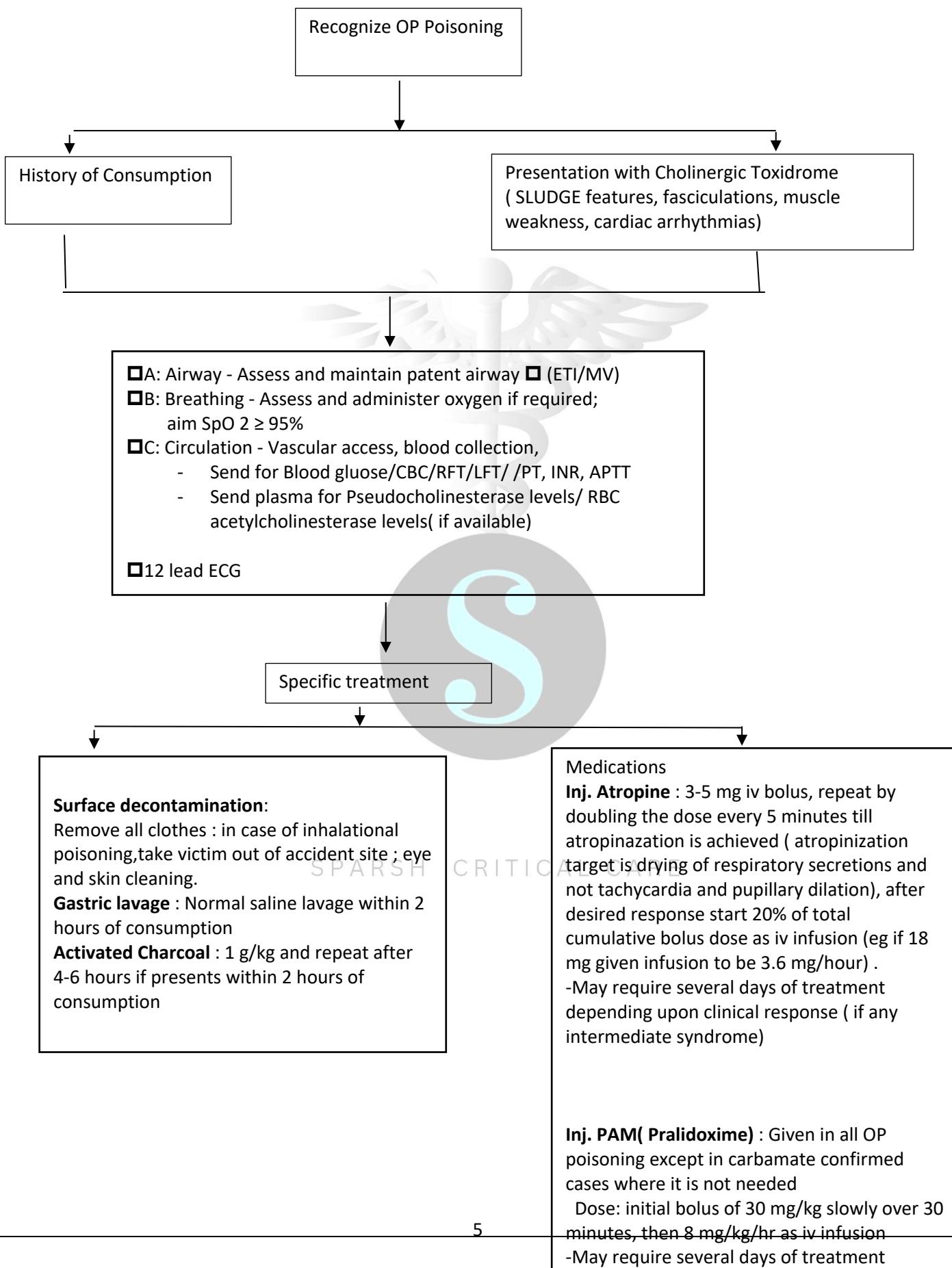
TCA, tricyclic antidepressant; MDMA, 3,4-methylenedioxymethamphetamine; MDEA, methylenedioxymethamphetamine; CNS, central nervous system; GI, gastrointestinal; MAOI, monoamine oxidase inhibitor; SSRI, selective serotonin reuptake inhibitor



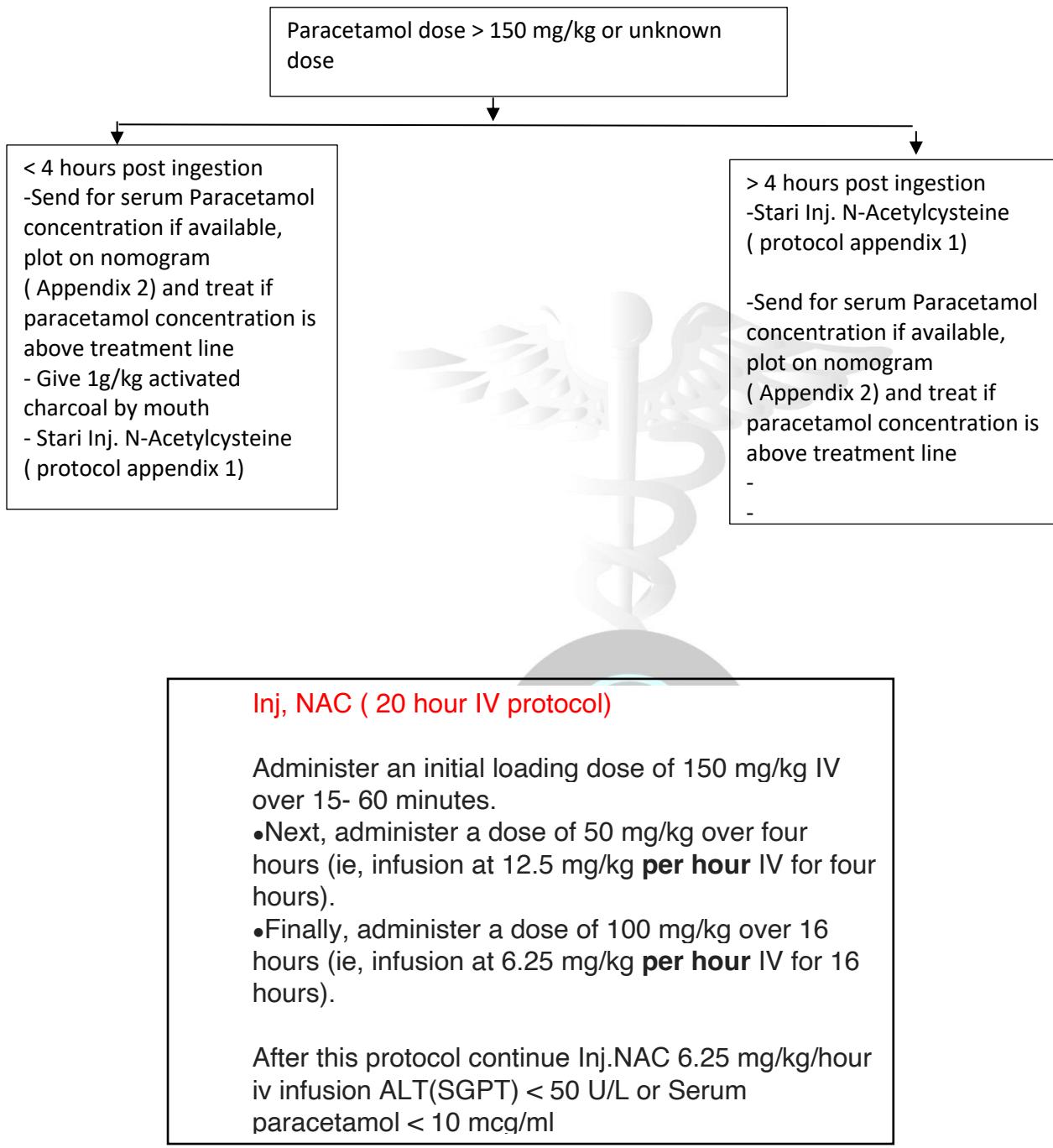
Reference:

- Chandran J, Krishna B. Initial Management of Poisoned Patient. Indian J Crit Care Med. 2019;23(Suppl 4):S234-S40.

OP POISONING



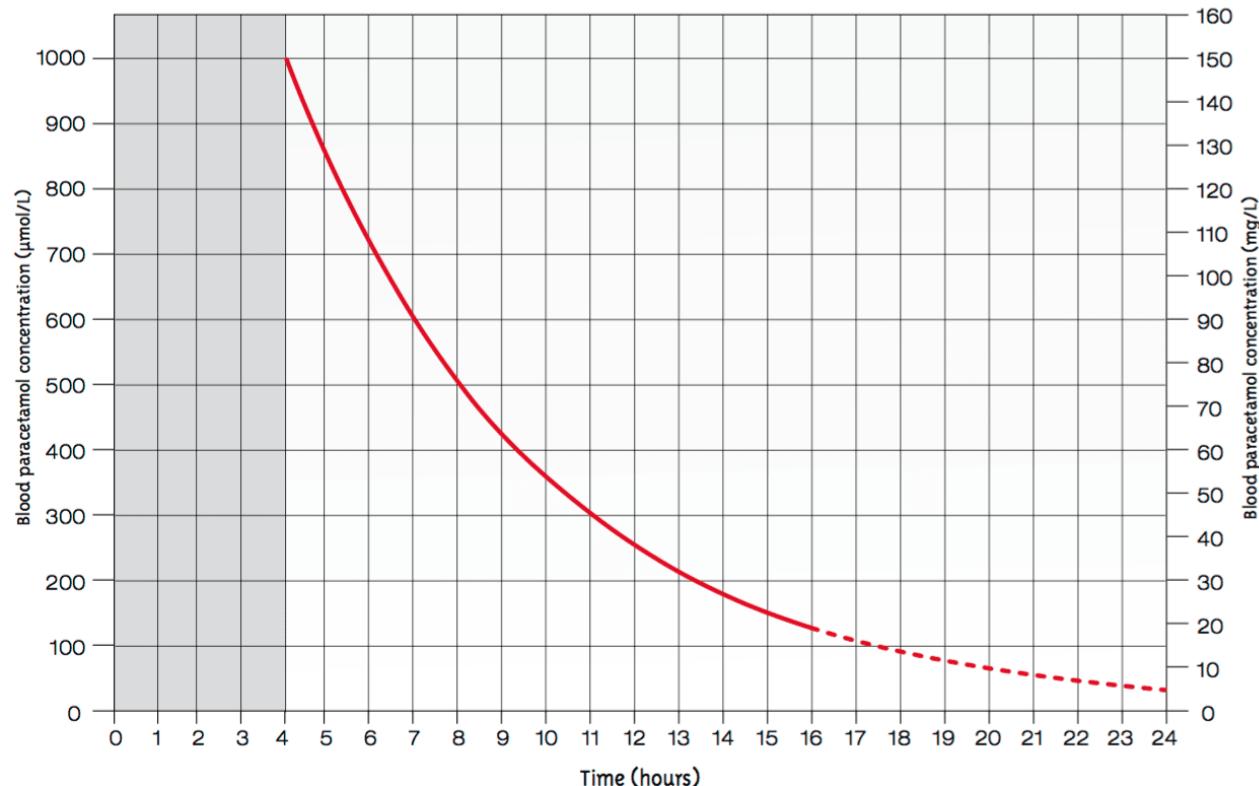
PARACETAMOL POISONING



APPENDIX 1

Paracetamol Treatment Nomogram⁸

- ▶ Treat ALL patients with serum paracetamol levels above the nomogram treatment line.
- ▶ A single nomogram treatment line is recommended. This line has been lowered by 25% from standard lines to take into account:
 1. Potential for minor error estimating the time of ingestion
 2. Increased safety for all patients with potential risk factors
- ▶ Ensure that correct units are used (ie $\mu\text{mol/L}$ or mg/L)



Adapted from Rumack and Mathew
(Smilkstein et al. Ann Emerg Med 1991; 20: 1058-63)

APPENDIX 2



SPARSH CRITICAL CARE

ICU Days	EVENTS / SUPPORTS				
1	<input type="checkbox"/> MV	<input type="checkbox"/> RRT	<input type="checkbox"/> Vasopressors	<input type="checkbox"/> Organ dysfunction	<input type="checkbox"/> Others
2	<input type="checkbox"/> MV	<input type="checkbox"/> RRT	<input type="checkbox"/> Vasopressors	<input type="checkbox"/> Organ dysfunction	<input type="checkbox"/> Others
3	<input type="checkbox"/> MV	<input type="checkbox"/> RRT	<input type="checkbox"/> Vasopressors	<input type="checkbox"/> Organ dysfunction	<input type="checkbox"/> Others
4	<input type="checkbox"/> MV	<input type="checkbox"/> RRT	<input type="checkbox"/> Vasopressors	<input type="checkbox"/> Organ dysfunction	<input type="checkbox"/> Others
5	<input type="checkbox"/> MV	<input type="checkbox"/> RRT	<input type="checkbox"/> Vasopressors	<input type="checkbox"/> Organ dysfunction	<input type="checkbox"/> Others
6	<input type="checkbox"/> MV	<input type="checkbox"/> RRT	<input type="checkbox"/> Vasopressors	<input type="checkbox"/> Organ dysfunction	<input type="checkbox"/> Others
7	<input type="checkbox"/> MV	<input type="checkbox"/> RRT	<input type="checkbox"/> Vasopressors	<input type="checkbox"/> Organ dysfunction	<input type="checkbox"/> Others
>7 days Course of illness					

Outcome

- I. APACHE II/IV Score: _____ 2. SOFA Score at the time of admission: _____ , 48hr: _____
at the time of transfer out / LAMA / Discharge: _____ 3. Length of ICU Stay: _____
4.Length of Hospital stay:_____
- II. Organ Failure : AKI Liver failure Coagulopathy Encephalopathy
Myocardial Dysfunction CIPNM MV dependent
- III. Renal replacement therapy _____ day from CRRT / SLED
- IV. MV _____ duration Proning ECMO Tracheostomy
- V. Outcome: Death Survived (Discharged from ICU / Transfer out to stepdown / HDU/
Room) LAMA
- Ambulated Bed ridden (with support / without support)
- Doctor Name: _____, Sign: _____

Author	Supervised by	Version/Date	Review Date
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