



Action - Blocks Beta Receptors in
The Heart Causing:

- ↓ Heart Rate
- ↓ Force of Contraction
- ↓ Rate of A-V Conduction

Side Effects: Bradycardia
Lethargy
GI Disturbance
CHF
↓ BP
Depression

SALICYLATE POISONING



Severe Toxicity=

- Metabolic Acidosis
- Seizures

Toxic Level For A 30lb.
Child = 12 Adult Aspirin
or 48 Baby Aspirin.

NSAID's

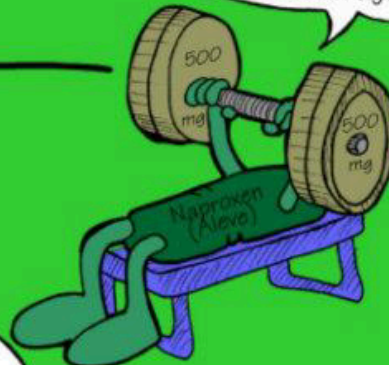
NSAID GYM

No Pain, No Flame... And
No Heat When We Meet.
Analgesic, Anti-inflammatory
Antipyretic

One, two, three
four... oof! That's
all I can do
in one day!



Oooooo, twooooooo,
That's all I can do
in one day!



Watch out for:
GI distress,
dizziness, rash,
heartburn, & occult
blood loss.

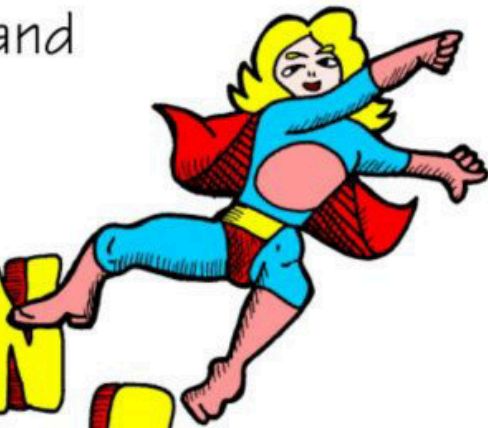
Okay, 'nuff said
about NSAID's!



Aspirin

So... With new purpose and strength she became...

**ASPIRIN
WOMAN!**



Aspirin Woman became the new Anti-Power...

- A**nti-inflammatory
- A**nti-pain (mild to moderate)
- A**nti-pyretic
- A**nti-platelet aggregation

Watch for:

- Tinnitus
- Stomach Pain
- GI Bleeding
- Thrombocytopenia

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BETA BLOCKER ACTIONS

β_1

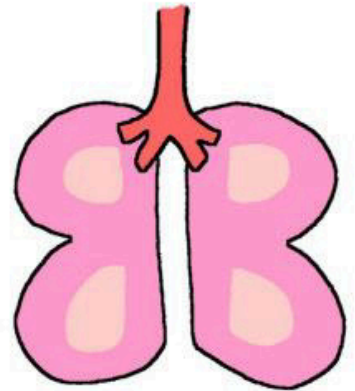
Blockers Affect
(**1** - Heart)



The Heart

β_2

Blockers Affect
(**2** - Lungs)



The Lungs

CJMILLER

Etodolac (Lodine)

Owww, my wrists and knuckles really hurt and aspirin isn't cutting it. You don't seem to be in any pain. Are you taking something new?

My doctor says Lodine for inflammation and pain. It's an NSAID that interferes with prostaglandins and can help relieve the pain in my hips and knees.

Gramps, you know the older you get the smarter you sound... Ever thought about advertising?

Warning, watch for indigestion, peptic ulcer, GI bleeding & ↑ bleeding time.

C. MILLER

ATROPINE OVERDOSE



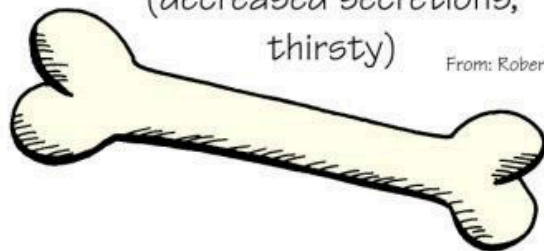
Hot as a Hare
(↑ temperature, ↓ sweating)

Mad as a Hatter
(confusion, delirium)

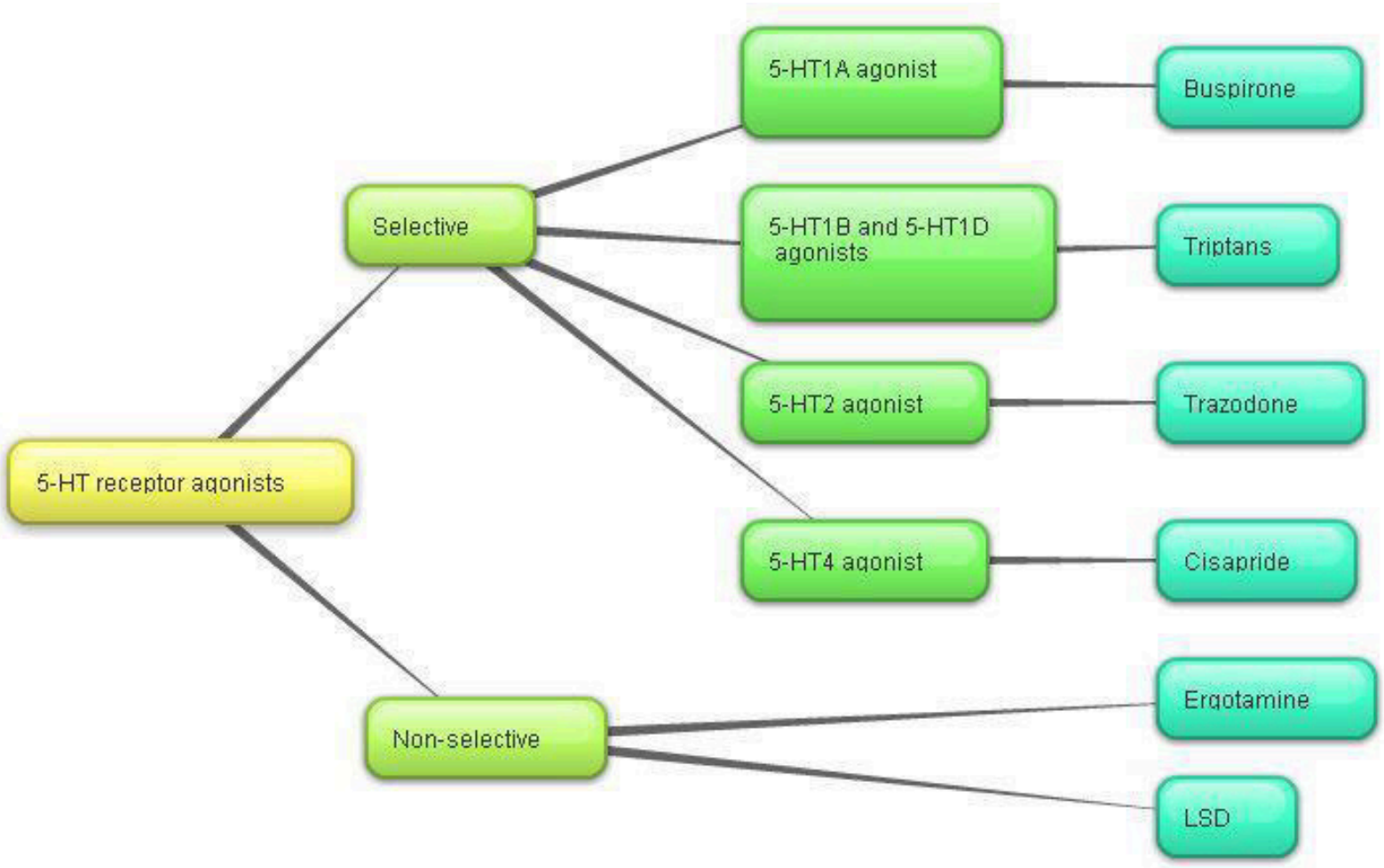


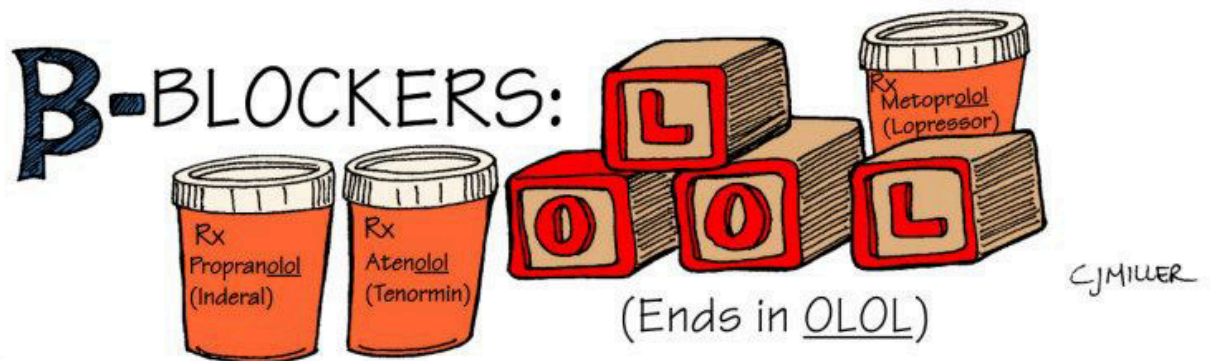
Red as a Beet
(flushed face, tachycardia)

Dry as a Bone
(decreased secretions,
thirsty)



From: Robert W. Malone, RN





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CHF
↓ BP
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SIDE EFFECTS OF ADRENERGIC ANTAGONISTS α - BLOCKERS



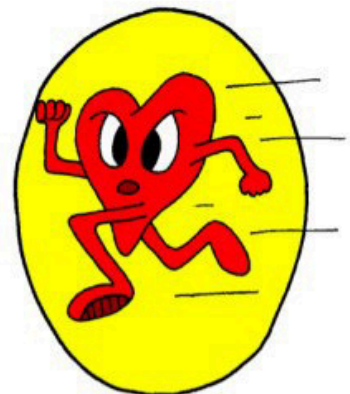
Orthostatic
Hypotension



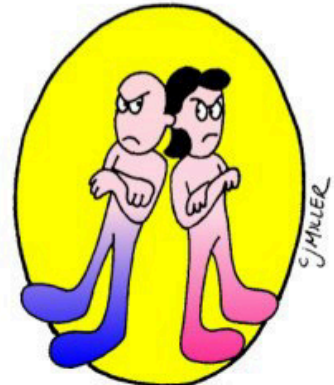
Vertigo

Examples:

Doxazosin
(Cardura)
Clonidine
(Catapres)
Methyldopa
(Aldomet)



Palpitations



Sexual
Dysfunction

Benzotropine (Cogentin)

"Controlling The Uncontrollable"

Anticholinergic; Antiparkinson Drug

Route:

PO

IM

IV

Used only
for
dystonia

Complete
loss of
muscle
movement

Tremors

Rigidity

Cogentin selectively blocks central cholinergic receptors and balances dopaminergic activity to reduce severity of symptoms.

Used in treatment of Parkinson's disease and drug-induced extrapyramidal reactions.

Assess your elderly client for confusion, disorientation, agitation and psychotic-like symptoms.

Also watch for drowsiness, dry mouth blurred vision, urinary retention, constipation, decreased sweating and GI upset.



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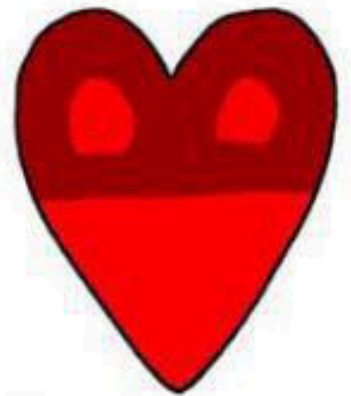
Antigout



BETA BLOCKER ACTIONS

β_1

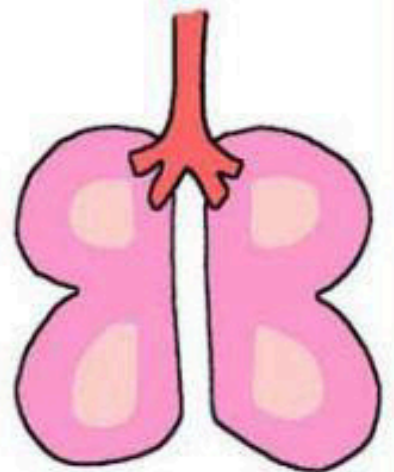
Blockers Affect
(1 = Heart)



The Heart

β_2

Blockers Affect
(2 = Lungs)



The Lungs

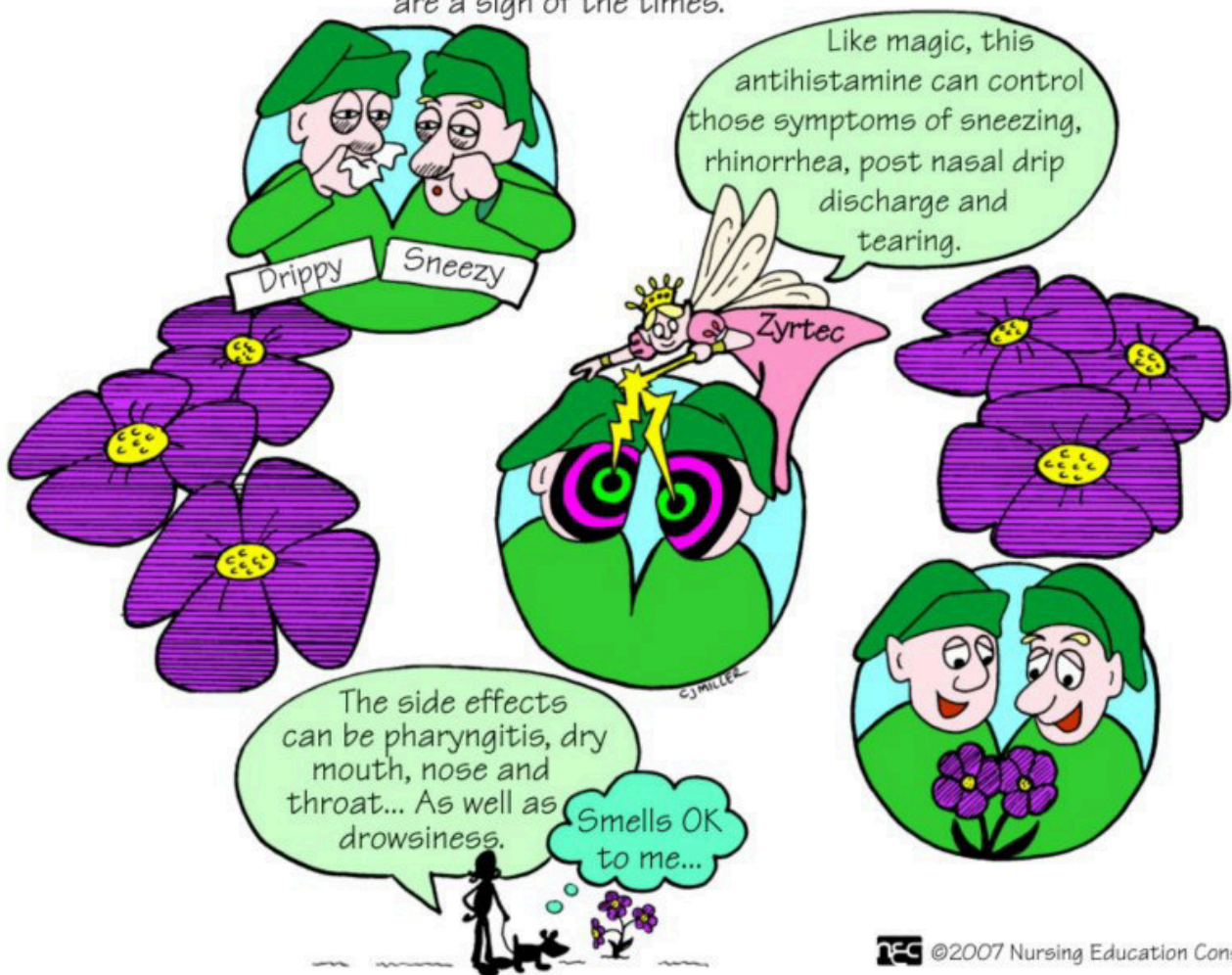
CJ MILLER

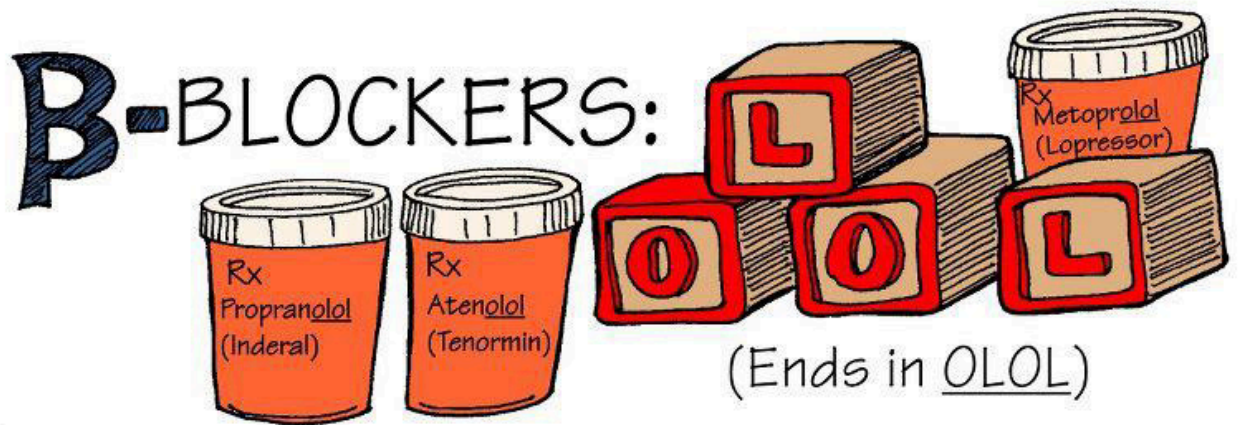
Celecoxib (Celebrex)



Cetirizine (Zyrtec)

When allergies strike, Drippy and Sneezy are a sign of the times.





Action - Blocks Beta Receptors in
The Heart Causing:

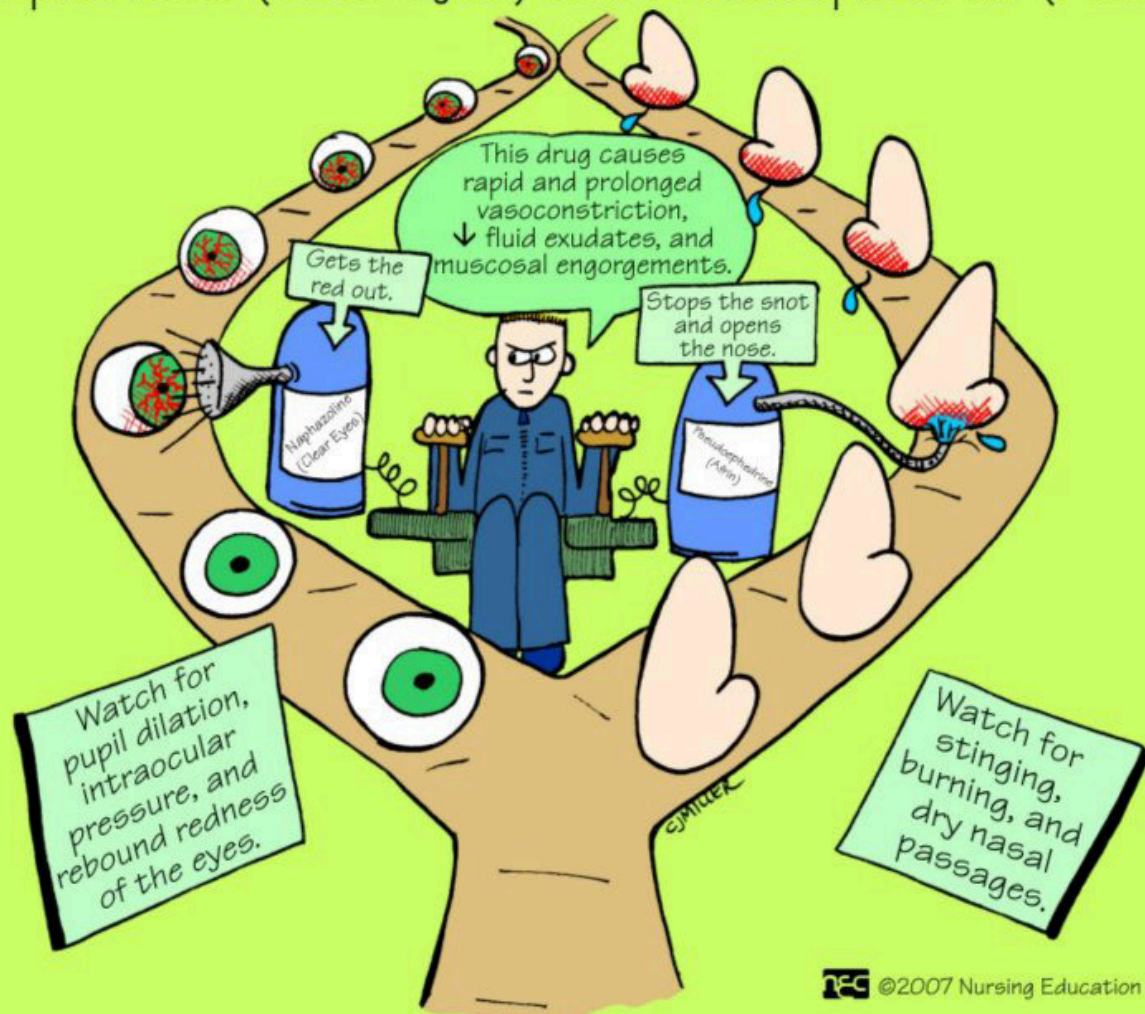
- ↓ Heart Rate
- ↓ Force of Contraction
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**MEDICAL
FREAKS**

Side Effects: Bradycardia
Lethargy
GI Disturbance
CHF
↓ BP
Depression

Topical Vasoconstrictor

Naphazoline (Clear Eyes) and Pseudoephedrine (Afrin)



Timolol (Timoptic)



I can't take any more of this humor, the pressure is killing me!

Watch for:
Rash
Dizziness
Blurred vision
Dry eyes

We can't stop the eyes increasing humor, but we can interfere with aqueous humor production which will reduce the pressure.

Although diseases like glaucoma are not life threatening, your assessment skills, knowledge & client teaching

Warrant to Stop Production

Officer
Timolol
(Timoptic)

CHOLINERGIC CRISIS

Salivation
Lacrimation
Urination
Defecation



Uterine Relaxants (Tocolytics)

I.

Indomethecin
(NSAID)

N.

Nifedipine
(CA Channel Blocker)

M.

Magnesium
Sulfate

T.

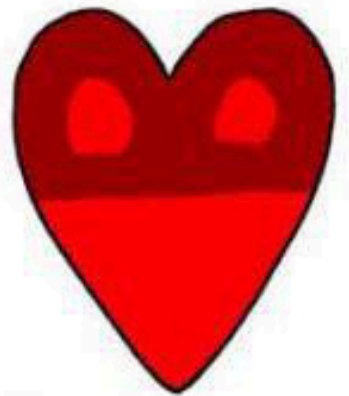
Terbutaune
(Adrenergic
Agonist)



BETA BLOCKER ACTIONS

β_1

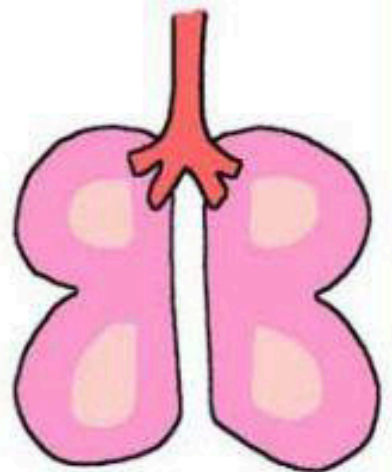
Blockers Affect
(1 = Heart)



The Heart

β_2

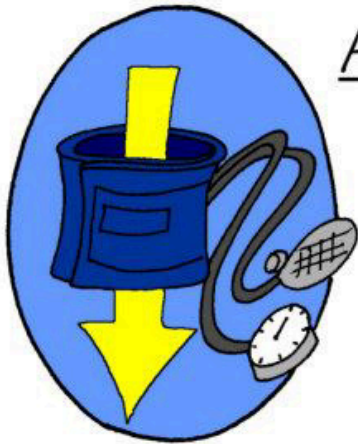
Blockers Affect
(2 = Lungs)



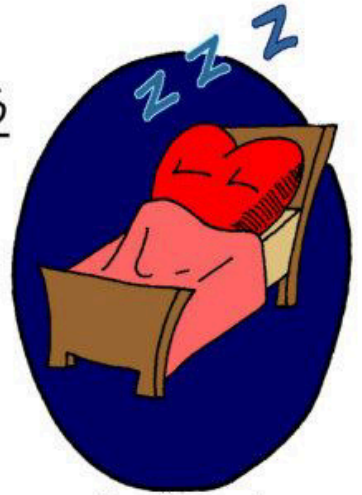
The Lungs

CJ MILLER

SIDE EFFECTS OF ADRENERGIC ANTAGONISTS β - BLOCKERS



Hypotension



Bradycardia
(AV-Block)



Symptoms of
CHF

Examples:

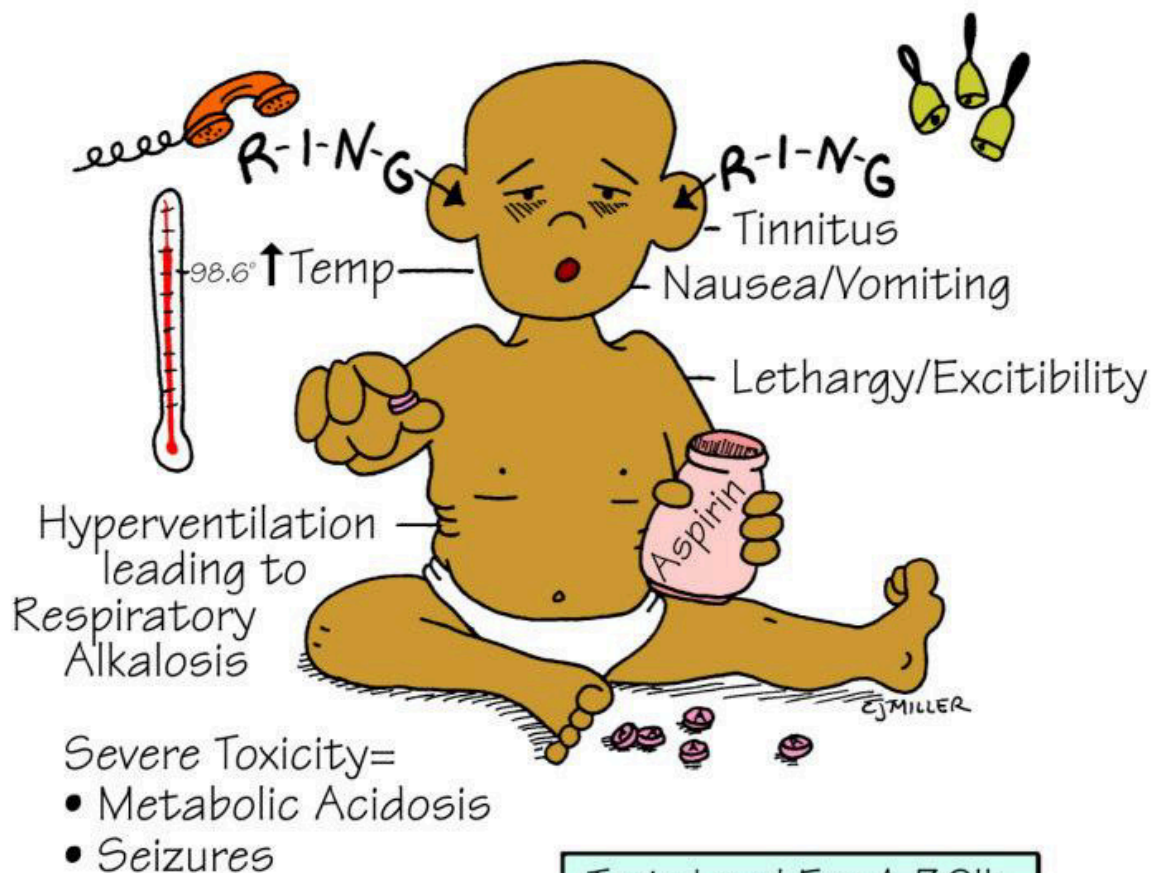
Propanolol
(Inderal)
Atenolol
(Tenormin)
Metoprolol
(Lopressor)



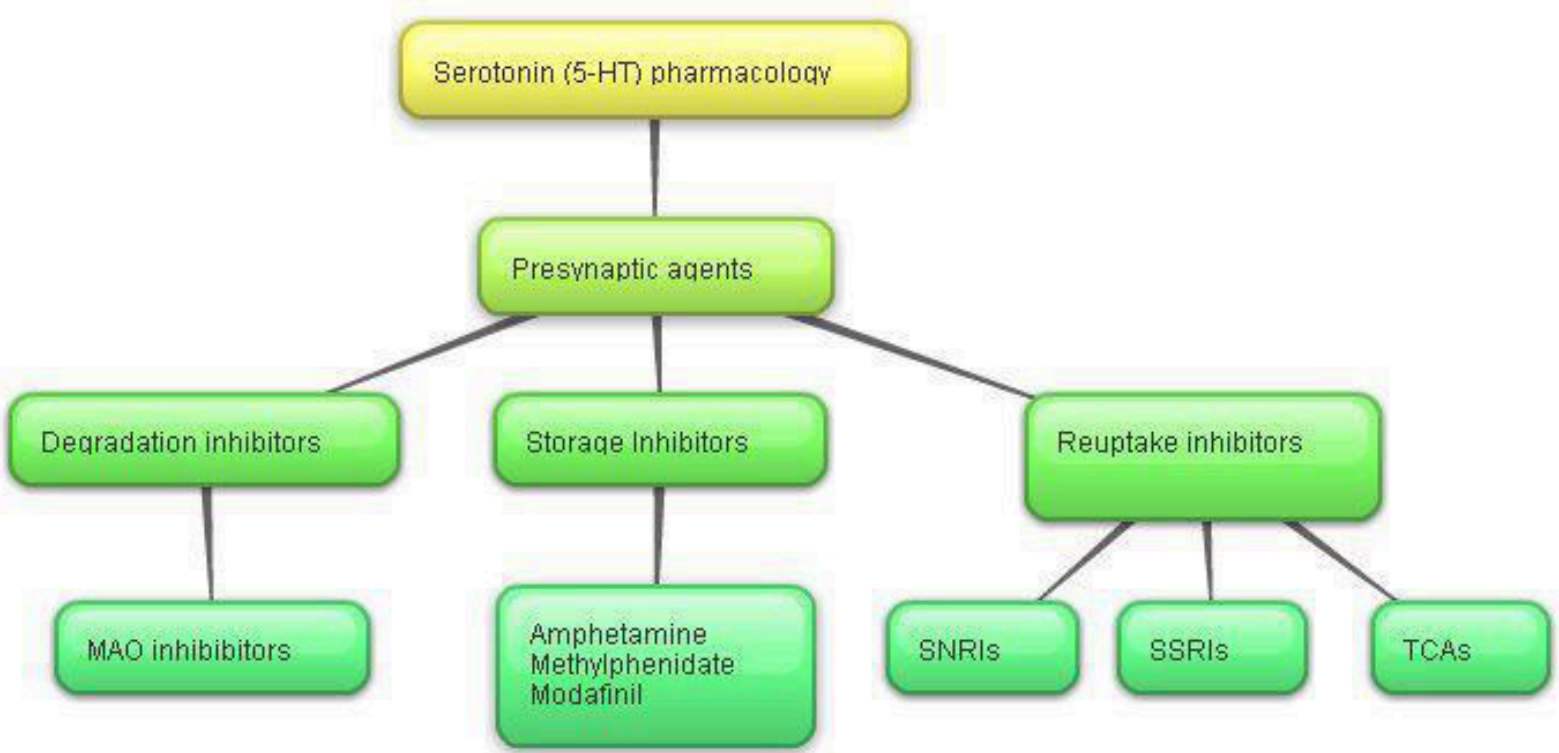
Drowsiness,
Depression



SALICYLATE POISONING



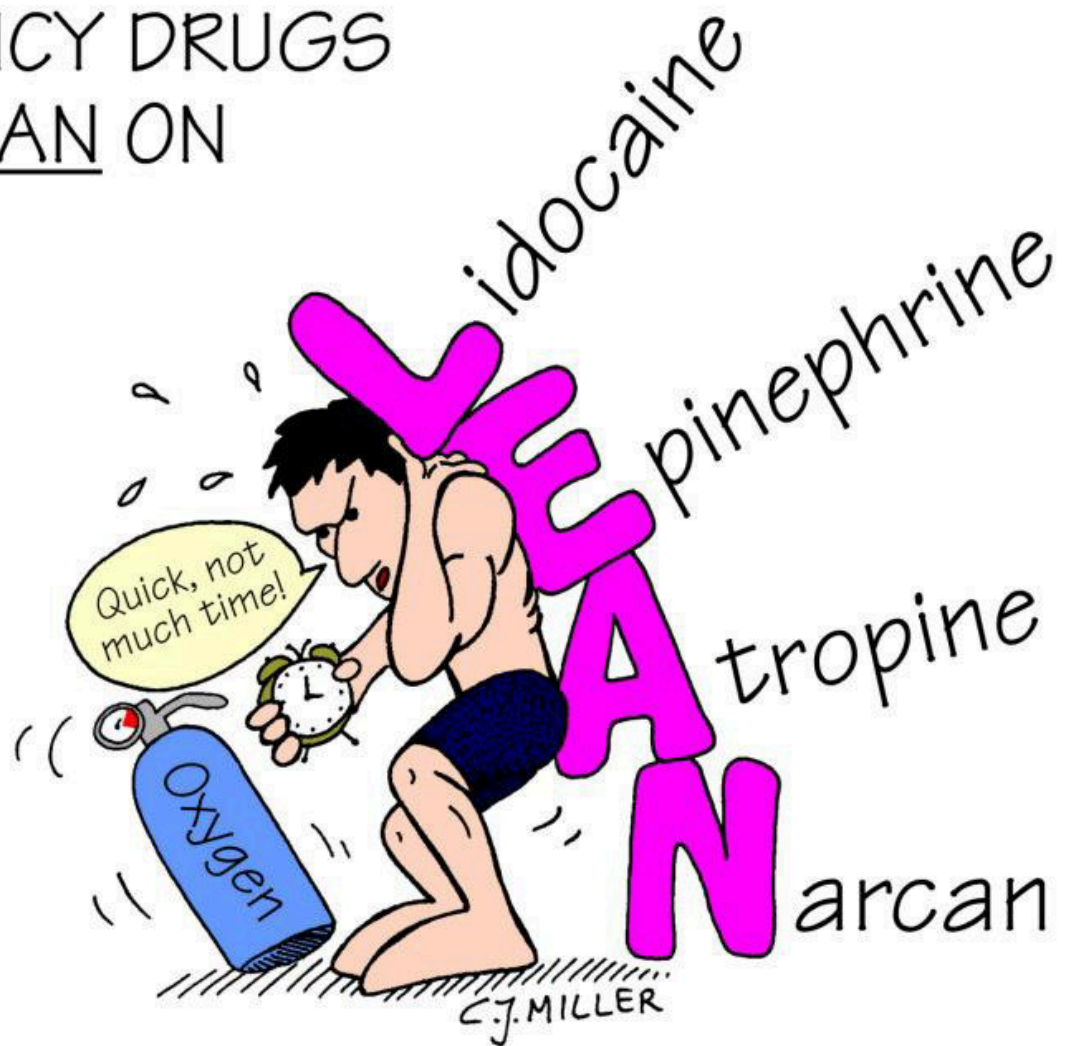
Toxic Level For A 30lb.
Child = 12 Adult Aspirin
or 48 Baby Aspirin.



Antihistamines



EMERGENCY DRUGS TO LEAN ON



Best Way of answering questions in viva

(U shud be very fast while telling answers)

1)Name 4 local anaesthetics?

Sir Procaine, lignocaine, sugarcane, cocaine

2)Good, Name 4 beta blockers?

Sir metoprolol, jawaharlal, timolol, mohanlal, atenolol.

3)Very Good ok

now Name 4 A.C.E inhibitors?

Sir captopril, enalapril, march april, lisinopril.



OPIOIDS

NSAIDS

Most Potent

FENTANYL 100:1

BUPRENORPHINE 30:1

METHADONE 10:1

LEVORPHANOL 7:1

OXYMORPHONE 5:1

HYDROMORPHONE 5:1

OXYCODONE 1.3:1

HYDROCODONE 1.2:1

MORPHINE 1:1

TAPENTADOL 1:5

TRAMADOL 1:5

CODEINE 1:10

MEPERIDINE 1:10

PROPOXYPHENE 1:15

MELOXICAM 1:1.5

DICLOFENAC 1:5

KETOPROFEN 1:5

CELECOXIB 1:10

IBUPROFEN 1:40

NAPROXEN 1:50

ASA 1:130

ACETAMINOPHEN 1:130

Least Potent