

### Antiepileptics (Anticonvulsants)

Phenytoin  
 Phenobarbital  
 Primidone  
 Carbamazepine  
 Valproic Acid (VA, Valproate)  
 Ethosuximide  
 Diazepam  
 Lorazepam  
 Clonazepam  
 Clorazepate  
 Vigabartin (Sabril)  
 Tiagabine (Gabitril)  
 Gabapentin  
 Mg Salts  
 Pregabalin (Lyrica)  
 Lamotrigine (Lamictal)  
 Topiramate (Topamax)  
 Levetiracetam (Keppra)

### Alcohols

Ethanol (C<sub>2</sub>H<sub>5</sub>OH)  
 significance  
 pharmacologic effects  
 CNS effects  
 CV effects  
 liver effects  
 genitourinary effects  
 misc effects  
 pharmacokinetics  
 metabolism and elimination  
 drug interactions  
 implications for dentistry  
 alcohol abstinence syndrome  
 tx of alcoholism  
 Disulfiram  
 Naltrexone  
 Acamprosate

### Alcohols (cont)

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 Methanol (CH<sub>3</sub>OH)  
 metabolism  
 toxicity  
 poisoning  
 cause of death  
 treatment

### General Anesthesia

general anesthesia  
 Horace Wells  
 William Morton  
 goals of anesthesia  
 other drugs used as adjuncts  
 minimum alveolar concentration (MAC)  
 correlation between inhalation anesthetic potency and lipid solubility      the lower the MAC value, the greater the potency and vice versa  
 membrane theories - molecular mechanisms  
 neurophysiologic explanation  
 behavioral manifestations of anesthesia - concentration dependent effects  
 depth of anesthesia  
 speed of induction and termination/recovery  
 induction  
 termination/recovery  
 driving force and concentration of gas  
 Dalton's Law  
 Henry's Law  
 partition coefficient (PC)  
 second gas effects  
 metabolism and elimination  
 common pharmacologic effects  
 cv effects  
 rp effects  
 liver effects  
 kidney effects

### General Anesthesia (cont)

skeletal muscle effects

agents used in general anesthesia

inhalation agents

nitrous oxide (N<sub>2</sub>O)

halothane

isoflurane

desflurane

sevoflurane

intravenous agents

thiopental

methohexital

propofol

ketamine

etomidate

dexmedetomidine

benzodiazepines

midazolam

opioids

morphine

meperidine (demerol)

fentanyl

anesthetic adjuvants and premeds

antihistamines

promethazine

hydroxyzine

### Drug Abuse

### Antipsychotics and Antidepressants

Phenothiazines	chlorpromazine
Thioxanthenes	chlorprothixene
Butyrophenones	Haloperidol and Droperidol
Dihydroindolones	Molindone
Dibenzoxazepines	Loxapine
Dibenzodiazepines	Clozapine
Thienbenzodiazepines	Olanzapine
Diphenylbutylpiperidines	Pimozide

### Antipsychotics and Antidepressants (cont)

Benzodiazepines	Diazepam, Clonazepam, Alprazolam, Lorazepam
Benzisoxazoles	Risperidone
Diazepam	
Chlorpromazine	
Clonazepam	
Clozapine	
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Tricyclic Antidepressants (TCA)	
Monoamine oxidase inhibitors (MAOI)	
second and third generation compounds	bupropion
serotonin (5-HT) reuptake inhibitors (SSRI)	fluoxetine (Prozac)

### CNS Stimulants

Amphetamine and Related Drugs	amphetamine, methamphetamine, methylphenidate, dextroamphetamine, ecstasy
methamphetamine	
ecstasy	
abuse characteristics	
acute over-dosage	
chronic abuse	
toxicity treatment	
dental implications	
meth mouth syndrome	
xanthine derivatives	caffeine, theophylline, theobromine
caffeine	
Doxapram	

### Anti-parkinson's Agents

Levodopa (L-dopa)

Bromocriptine

Pergolide

Pramipexole (Miraprex)



### Anti-parkinson's Agents (cont)

Ropinirole (Requip)

Selegiline

Entacapone

Tolcapone

Amantadine

Atropine

Benzotropine

Tri-hexaphendryl

### Clinical Anatomy for Local Anesthesia

basic injection technique

anatomical considerations

techniques of maxillary local infiltration, field block, nerve anesthesia block

posterior superior alveolar nerve block

PSA landmarks

PSA technique

PSA nerve block advantages

PSA nerve block disadvantages

middle superior alveolar nerve block

MSA technique

MSA landmark

MSA nerve block - areas anesthetized

infraorbital nerve block

infraorbital nerve block technique

infraorbital nerve block areas anesthetized

infraorbital nerve block indications

local infiltration

local infiltration indications

local infiltration advantages

local infiltration disadvantages

palatal anesthesia

greater palatine nerve block

greater palatine nerve block landmarks

greater palatine nerve block areas anesthetized

greater palatine nerve block indications

nasopalatine nerve block

### Clinical Anatomy for Local Anesthesia (cont)

nasopalatine nerve block landmarks

nasopalatine nerve block technique

nasopalatine nerve block areas anesthetized

nasopalatine nerve block indications

buccal nerve

buccal nerve block

buccal nerve block landmark

buccal nerve block injection site

buccal nerve block tissues anesthetized

inferior alveolar nerve largest branch of posterior division

inferior alveolar nerve block

inferior alveolar nerve block landmarks

inferior alveolar nerve block technique

inferior alveolar nerve block nerves anesthetized

inferior alveolar nerve block disadvantages

inferior alveolar nerve block alternatives

mental nerve block

mental nerve block areas anesthetized

incisive nerve block areas anesthetized

incisive nerve block indications

incisive nerve block advantages

incisive nerve block disadvantages

lingual nerve blocked with

gow-gates nerve block true mandibular nerve block

gow-gates nerve block landmarks

gow-gates nerve block nerves anesthetized

gow-gates nerve block advantages

gow-gates nerve block disadvantages

vazirani-akinosi nerve block

vazirani-akinosi nerve block landmarks

vazirani-akinosi nerve block nerves anesthetized

vazirani-akinosi nerve block advantages

vazirani-akinosi nerve block disadvantages

