

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 (C₂H₅OH)
 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
 Acamprostate

Alcohols (cont)

 Methanol (CH₃OH)
 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 (N2O)

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

Tricyclic Antidepressants (TCA)

Monoamine oxidase inhibitors (MAOI)

second and third generation bupropion
compounds

serotonin (5-HT) reuptake fluoxetine (Prozac)
inhibitors (SSRI)

CNS Stimulants

Amphetamine and amphetamine, methamphetamine, methylphe-
Related Drugs nidate, dextroamphetamine, ecstasy

methamphetamine

ecstasy

abuse characteristics

acute over-dosage

chronic abuse

toxicity treatment

dental implications

meth mouth syndrome

xanthine deriva- caffeine, theophylline, theobromine
tives

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