

OKLAHOMA BOARD OF NURSING
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CRNA Inclusionary Formulary

To be granted authority to select, order, obtain and administer drugs, Certified Registered Nurse Anesthetists (CRNAs) must hold a current Registered Nurse license, be recognized as a CRNA in Oklahoma and meet the continuing education requirements noted in the *Rules of the Oklahoma Board of Nursing*, specifically 485:10-18-2. Pursuant to 59 O.S. § 567.3a.10 [*Oklahoma Nursing Practice Act*], a Formulary Advisory Council has been established to develop and submit to the Board recommendations for an inclusionary formulary.

The following Board-approved *CRNA Inclusionary Formulary* lists drugs that may be ordered, selected, obtained or administered during the **perioperative** and **periobstetrical** periods by CRNAs who have been granted authority by the Board to select, order, obtain, and administer drugs.

4:00 Antihistamine Drugs

4:04 First Generation Antihistamines

Diphenhydramine Hydrochloride

Promethazine Hydrochloride (see also 28:24.92 and 28:16.08.24) **[CAUTION:**

Be aware of pediatric restrictions (Not to be administered to children under the age of two years).]

[CAUTION: Be aware of the FDA Boxed Warning on IV use (limit the drug's concentration and rate of administration and ensure a properly functioning intravenous line).]

12:00 Autonomic Drugs

12:04 Parasympathomimetic (Cholinergic) Agents

Neostigmine Bromide

Physotigmine Salicylate*

Pyridostigmine Bromide*

12:08 Anticholinergic Agents

12:08.08 Antimuscarinics/antispasmodics

Atropine

Glycopyrrolate

Ipratropium Bromide

Scopolomine*

12:12 Sympathomimetic (Adrenergic) Agents

12:12.04 α -Adrenergic Agents

Midodrine*

Phenylephrine

12:12.08 β -Adrenergic Agonists

12:12.08.04 Non-selective β -Adrenergic Agonists

Isoproterenol*

- 12:12.08.08 Selective β_1 -Adrenergic Agonists
 - Dobutamine
 - Dopamine
- 12:12.08.12 Selective β_2 -Adrenergic Agonists
 - Albuterol/Levalbuterol
 - Formoterol
 - Indacaterol
 - Metaproterenol*
 - Salmeterol
 - Terbutaline Sulfate
- 12:12.12 α - and β -Adrenergic Agonists
 - Ephedrine
 - Epinephrine
 - Metaraminol*
 - Norepinephrine
 - Pseudoephedrine
- 12:16 Sympatholytic (Adrenergic Blocking) Agents
 - 12:16.04 α -Adrenergic Blocking Agents
 - 12:16.04.04 Non-selective α -Adrenergic Blocking Agents
 - Phentolamine
- 12:20 Skeletal Muscle Relaxants (all intravenous future new drugs approved)
 - 12:20.04 Centrally Acting Skeletal Muscle Relaxants
 - Carisoprodol*
 - Cyclobenzaprine
 - Metaxalone*
 - Methocarbamol*
 - Tizanidine
 - 12:20.08 Direct-acting Skeletal Muscle Relaxants
 - Dantrolene Sodium
 - 12:20.12 GABA-derivative Skeletal Muscle Relaxants
 - Baclofen
 - 12:20.20 Neuromuscular Blocking Agents
 - Atracurium Besylate*
 - Cisatracurium
 - Pancuronium Bromide*
 - Rocuronium Bromide
 - Succinylcholine Chloride
 - Vecuronium Bromide

16:00 Blood Derivatives

- Albumin Human
- Plasma Protein Fraction*

Blood and Blood Components (not in AHFS)

20:00 Blood Formation and Coagulation

- 20:12 Antithrombotic Agents
 - 20:12.04 Anticoagulants

- 20:12.04.16 Heparins
 - Enoxaparin
 - Heparin
- 20:28 Antihemorrhagic Agents
 - 20:28.08 Antiheparin Agents
 - Protamine Sulfate*
 - 20:28.16 Hemostatics
 - Aminocaproic Acid*
 - Tranexamic Acid (TXA) (not in AHFS)
 - 20:28.92 Antihemorrhagic Agents, Misc.
 - Idarucizumab

24:00 Cardiovascular Drugs

- 24:04 Cardiac Drugs
 - 24:04.04 Antiarrhythmic Agents
 - 24:04.04.04 Class Ia Antiarrhythmics
 - Disopyramide
 - Procainamide
 - Quinidine
 - 24:04.04.08 Class Ib Antiarrhythmics
 - Lidocaine
 - 24:04.04.20 Class III Antiarrhythmics
 - Amiodarone
 - 24:04.04.24 Class IV Antiarrhythmics
 - Adenosine
 - 24:04.08 Cardiotonic Agents
 - Digoxin
- 24:08 Hypotensive Agents
 - 24:08.16 Central α -Agonists
 - Clonidine
 - Methyldopa
 - 24:08.20 Direct Vasodilators
 - Hydralazine
 - Sodium Nitroprusside
- 24:12 Vasodilating Agents
 - 24:12.08 Nitrates and Nitrites
 - Nitroglycerine
- 24:24 β -Adrenergic Blocking Agents
 - Atenolol
 - Esmolol Hydrochloride*
 - Labetalol
 - Metoprolol
 - Nadolol*
 - Propranolol
- 24:28 Calcium-Channel Blocking Agents
 - 24:28.08 Dihydropyridines
 - Nicardipine*

- Nifedipine
- 24:28.92 Calcium-Channel Blocking Agents, Miscellaneous
- Verapamil
- 24:32 Renin-Angiotensin-Aldosterone System Inhibitors
- 24:32.04 Angiotensin-Converting Enzyme Inhibitors
- Captopril
- Enalaprilat/Enalapril

28:00 Central Nervous System Agents

- 28:04 General Anesthetics (all in this class approved including future new drugs)
 - 28:04.04 Barbiturates
 - Methohexital*
 - 28:04.16 Inhalation Anesthetics (not in AHFS)
 - 28:04.92 General Anesthetics, Miscellaneous
 - Etomidate
 - Ketamine** (not in AHFS)
 - Fospropofol
 - Propofol
- 28:08 Analgesics and Antipyretics
 - 28:08.04 Nonsteroidal Antiinflammatory Agents
 - 28:08.04.08 Cyclooxygenase-2 (COX-2) Inhibitors
 - Celecoxib
 - 28:08.04.24 Salicylates
 - Aspirin
 - 28:08.04.92 Other Nonsteroidal Anti-inflammatory Agents
 - Ibuprofen (PO or IV)
 - Indomethacin
 - Ketorolac
 - 28:08.08 Opiate Agonists (all in this class approved including future new drugs)
 - Codeine*** **[NOTE: Be aware of PEDIATRIC CAUTION, FDA Drug safety communication new Boxed Warning on use after tonsillectomy or adenoidectomy 2/20/2013]*****
 - Fentanyl
 - Hydrocodone
 - Hydromorphone
 - Levorphanol*
 - Meperidine
 - Morphine
 - Remifentanyl*
 - Sufentanil Citrate
 - Tramadol
 - 28:08.12 Opiate Partial Agonists (all in this class approved including future new drugs)
 - Buprenorphine
 - Butorphanol
 - Nalbuphine*

- 28:08.92 Analgesics and Antipyretic, Miscellaneous
 - Acetaminophen (PO or IV)
 - Sodium Thiosalicylate*
- 28:10 Opiate Antagonists (all in this class approved including future new drugs)
 - Nalmefene*
 - Naloxone
 - Naltrexone
- 28:12 Anticonvulsants
 - 28:12.04 Barbituates
 - Phenobarbital
 - 28:12.08 Benzodiazepines
 - Clonazepam
 - 28:12.12 Hydantoins
 - Ethotoin*
 - Fosphenytoin
 - Phenytoin
 - 28:12.92 Anticonvulsants, Miscellaneous
 - Carbamazepine
 - Felbamate*
 - Gabapentin
 - Lamotrigine
 - Magnesium Sulfate
 - Valproate/Divalproex
- 28:16 Psychotherapeutic Agents
 - 28:16.08 Antipsychotics
 - 28:16.08.04 Atypical Antipsychotics
 - 28:16.08.08 Butyrophenones
 - Haloperidol
 - 28:16.08.24 Phenothiazines
 - Perphenazine*
 - Prochlorperazine
- 28:20 Anorexigenic Agents and Respiratory and CNS Stimulants
 - 28:20.32 Respiratory and CNS Stimulants
 - Caffeine/Caffeine and Sodium Benzoate
 - Doxapram*
- 28:24 Anxiolytics, Sedatives, and Hypnotics
 - 28:24.04 Barbiturates (all in this class approved including future new drugs)
 - Phenobarbital*
 - 28:24.08 Benzodiazepines (all in this class approved including future new drugs)
 - Alprazolam
 - Chlordiazepoxide
 - Diazepam
 - Lorazepam
 - Midazolam
 - Temazepam*
 - 28:24.92 Anxiolytics, Sedatives, and Hypnotics, Miscellaneous
 - Dexmedetomidine*

- Hydroxyzine
- Promethazine
- 28:36 Antiparkinsonian Agents
- 28:36.08 Anticholinergic Agents
- Benztrapine Mesylate
- 28:92 Central Nervous System Agents, Miscellaneous
- Flumazenil

36:00 Diagnostic Agents

- 36:40 Kidney Function
- Indigo Carmine (Indigotindisulfonate)*
- 36:56 Myasthenia Gravis
- Edrophonium Chloride*

40:00 Electrolytic, Caloric, and Water Balance

- 40:08 Alkalinizing Agents
- Citrate Salts
- Sodium Bicarbonate
- Sodium Lactate*
- 40:12 Replacement Preparations
- Calcium Salts
- Dextran 40*
- Dextran75 (not in AHFS) **[CAUTION: Potential complication of anaphylactic reaction to Dextran 75]**
- Electrolyte Solutions*
- Hetastarch **[CAUTION: Potential complication of anaphylactic reaction to Hetastarch in patients allergic to corn] [AVOID use with renal compromised patients]**
- Potassium Supplements
- Sodium Chloride*
- 40:20 Caloric Agents
- Dextrose*
- Invert Sugar*
- 40:24 Salt and Sugar Substitutes (not in AHFS)
- 40:28 Diuretics
- 40:28.08 Loop Diuretics
- Bumetanide
- Furosemide
- 40:28.12 Osmotic Diuretics
- Mannitol
- 40:28.20 Thiazide Diuretics
- Chlorothiazide

48:00 Respiratory Tract Agents (all in this class approved including future new drugs)

- 48:08 Antitussives
- Benzonatate*
- Codeine

- Dextromethorphan
- Hydrocodone
- 48:16 Expectorants
 - Guaifenesin
 - Potassium Iodide (see also 68:36.08)
- 48:24 Mucolytic Agents
 - Acetylcysteine (see also 92:12)

52:00 Eye, Ear, Nose, and Throat (EENT) Preparations

- 52:16 Local Anesthetics
 - Benzocaine
 - Dyclonine*
 - Proparacaine*
 - Tetracaine*
- 52:32 Vasoconstrictors
 - Epinephrine*
 - Naphazoline*
 - Oxymetazoline*
 - Phenylephrine*
 - Propylhexedrine*
 - Tetrahydrolozine*
- 52:40 Antiglaucoma Agents
 - 52:40.12 Carbonic Anhydrase Inhibitors
 - Acetazolamide*

56:00 Gastrointestinal Drugs

- 56:04 Antacids and Adsorbents
 - Aluminum Carbonate
 - Aluminum Hydroxide
 - Aluminum Phosphate
 - Antacids
 - Calcium Carbonate
 - Charcoal, Activated
 - Dihydroxyaluminum Aminoacetate
 - Dihydroxyaluminum Sodium Carbonate
 - Magaldrate
 - Magnesium Carbonate
 - Magnesium Hydroxide
 - Magnesium Oxide
 - Magnesium Trisilicate
 - Sodium Bicarbonate
- 56:22 Antiemetics
 - 56:22.08 Antihistamines
 - Dimenhydrinate
 - Meclizine
 - Prochlorperazine
 - Trimethobenzamide*

- 56:22.20 5-HT₃ Receptor Antagonists
 - Dolasetron*
 - Granisetron
 - Ondansetron
- 56:22.92 Antiemetics, Miscellaneous
 - Aprepitant/Fosaprepitant
- 56:28 Antiulcer Agents and Acid Suppressants
 - 56:28.12 Histamine H₂-Antagonists
 - Cimetidine*
 - Famotidine
 - Nizatidine*
 - Ranitidine
 - 56:28.32 Protectants
 - Sucralfate*
 - 56:28.36 Proton-pump Inhibitors
 - Dexlansoprazole
 - Esomeprazole
 - Lansoprazole
 - Omeprazole
 - Pantoprazole
 - Rabeprazole
- 56:32 Prokinetic Agents
 - Metoclopramide

68:00 Hormones and Synthetic Substitutes

- 68:04 Adrenals (all in this class approved including future new drugs)
 - Beclomethasone
 - Betamethasone*
 - Cortisone Acetate
 - Dexamethasone
 - Fludrocortisone*
 - Flunisolide
 - Hydrocortisone
 - Methylprednisolone
 - Prednisolone
 - Prednisone
 - Triamcinolone
- 68:20 Antidiabetic Agents
 - 68:20.08 Insulins
 - Insulin Aspart
 - Insulin Glargine
 - Insulin Human
 - Insulin, Isophane (not in AHFS)
 - Insulin Lispro
 - Insulin Zinc*
 - 68:20.20 Sulfonylureas
 - Chlorpropamide*
 - Glimepiride*

- Glipizide
- Glyburide
- Tolazamide*
- Tolbutamide*
- 68:22 Antihypoglycemic Agents
 - 68:22.12 Glycogenolytic Agents
 - Glucagon
- 68:28 Pituitary
 - Corticotropin
 - Desmopressin
 - Vasopressin
- 68:44 Renin-Angiotensin-Aldosterone System (RAAS)
 - Angiotensin II (not in AHFS)

72:00 Local Anesthetics (all in this class approved including future new drugs)

- Articaine
- Bupivacaine
- Chlorprocaine*
- Lidocaine
- Mepivacaine
- Prilocaine
- Procaine (not in AHFS)
- Ropivacaine (not in AHFS)
- Tetracaine

76:00 Oxytocics

- Carboprost Tromethamine*
- Dinoprostone
- Ergonovine/Methergonovine
- Oxytocin
- Sodium Chloride 20% Injection
- Urea 40-50% Injection

84:00 Skin and Mucous Membrane Agents

- 84:04 Anti-infective
 - 84:04.92 Local Anti-Infectives, Miscellaneous
 - Chlorhexidine gluconate*
- 84:08 Antipruritics and Local Anesthetics (all in this class approved including future new drugs)
 - Benzocaine*
 - Dibucaine*
 - Doxepin*
 - Ethyl Chloride*
 - Phenazopyridine*
 - Pramoxine*

86:00 Smooth Muscle Relaxants

86:16 Respiratory Smooth Muscle Relaxants

Aminophylline

Theophyllines

92:00 Miscellaneous Therapeutic Agents

92:12 Antidotes

Acetylcysteine

Methylene Blue*

Sugammadex

[NOTE: ACLS Algorithm medications are listed according to the classification system in the AHFS Drug Information resource.]

Regulatory Authority:

59 O.S. §567.4b. C.

Reference:

American Hospital Formulary Service®. *AHFS Drug Information* (2018). Published by Authority of the Board of the American Society of Health-System Pharmacists®, Bethesda, MD.

*Omitted from the print version of *AHFS Drug Information* because of space limitations, as stated by the publisher. May view the AHFS Drug Information website:

<http://www.ahfsdruginformation.com>

**Reference for Ketamine: <http://reference.medscape.com/drug/ketalar-ketamine-343099>

*** Reference for Codeine precautions: <http://www.fda.gov/Drugs/DrugSafety/ucm118108.htm>