

Essential Medicines for Children (Draft #2 2007)

****ALL ORAL SOLID FORMULATIONS SHOULD BE EASILY DISPERSED IN WATER AND ORAL LIQUIDS SHOULD BE MANUFACTURED OR BE AVAILABLE AT THE HIGHEST CONCENTRATION****

1. ANAESTHETICS

1.1 General anaesthetics and oxygen

Sevoflurane-ADDED	Inhalation: <ul style="list-style-type: none"> • Newer agent replacing halothane • Lower gas partition co-efficients
Ketamine-ADDED	Injection: 50mg/mL in 10mL vial <ul style="list-style-type: none"> • Hypnotic, analgesic anaesthetic
Nitrous Oxide	Inhalation.
Oxygen	Inhalation (medicinal gas).
Thiopental	Powder for injection: 0.5g; 1g (sodium salt) in ampoule
1.2 Local anaesthetics	
Bupivacaine	Injection: 0.25%; 0.5% (hydrochloride) in vial Injection for spinal anaesthesia: 0.5% (hydrochloride) in 4mL ampoule to be mixed with 7.5% glucose solution
Lidocaine	Injection: 1%; 2% (hydrochloride) in vial Injection for spinal anaesthesia: 5% (hydrochloride) in 2mL ampoule to be mixed with 7.5% glucose solution
Lidocaine + Epinephrine	Dental cartridge: 2% (hydrochloride) + Epinephrine 1:80,000 Injection: 1%; 2% (hydrochloride) + Epinephrine 1: 200,000 in vial
1.3 Preoperative medication and sedation for short-term procedures	
Atropine	Injection: 1mg (sulfate) in 1mL ampoule <ul style="list-style-type: none"> • Refer to Section 4.2
Diazepam-ADDED	Injection: 5mg/mL in 2mL ampoule Tablet: 5mg. <ul style="list-style-type: none"> • Refer to Section 5
Morphine	Injection: 10mg (sulfate or hydrochloride) in 1mL ampoule <ul style="list-style-type: none"> • Refer to Section 2.2

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2. ANALGESICS, ANTIPYRETICS, NON-STEROIDAL ANTI-INFLAMMATORY MEDICINES, (NSAIMs), MEDICINES USED TO TREAT GOUT AND DISEASE MODIFYING AGENTS IN RHEUMATOID DISORDERS (DMARDs)	
2.1 Non-opioids and non-steroidal anti-inflammatory medicines (NSAIMs)	
Acetylsalicylic acid (ASA)- ADDED	Tablet: 100-500mg Suppository: 50-150mg <ul style="list-style-type: none"> • Use in Rheumatoid Arthritis • Use in Kawasaki syndrome
Ibuprofen- ADDED	Tablet: 200mg; 400mg Suspension: 20mg/mL <ul style="list-style-type: none"> • Use in Migraine
Paracetamol (acetaminophen)	Tablet: 100-500mg Suppository: 100mg Oral liquid: 125mg/5mL <ul style="list-style-type: none"> • Use in Migraine • Use in PONV
2.2 Opioid analgesics	
Codeine- ADDED	Tablet: 15mg <ul style="list-style-type: none"> • Use as Antitussive • Use in Migraine
Morphine	Injection: 10mg(hydrochloride or sulfate) in 1mL ampoule Tablet: 10mg (sulfate) Tablet/Capsule (prolonged release): 10mg, 15mg, 30mg, 60mg Oral liquid: 10mg (hydrochloride or sulfate)/5mL
3. ANTIALLERGICS AND MEDICINES USED IN ANAPHYLAXIS	
Dexamethasone	Injection: 4mg dexamethasone phosphate (as disodium salt) in 1mL ampoule Tablet: 0.5mg; 4mg <ul style="list-style-type: none"> • Consider prepared suspension taste
Diphenhydramine- ADDED	Injection: 50mg/1mL Tablet: 25mg <ul style="list-style-type: none"> • Replaces chlorpheniramine
Epinephrine (adrenalin)	Injection: 1mg (hydrochloride or hydrogen tartrate) in 1mL ampoule
Hydrocortisone	Powder for injection: 100mg (sodium succinate) in vial

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4. ANTIDOTES AND OTHER SUBSTANCES USED IN POISONINGS	
4.1 Non-specific	
Charcoal, activated	Powder.
4.2 Specific	
Acetylcysteine	Injection: 200mg/mL in 10mL ampoule
Atropine	Injection: 1mg (sulfate) in 1mL ampoule <ul style="list-style-type: none"> • Refer to Section 1.3
Calcium gluconate	Injection: 100mg/mL in 10mL ampoule
Deferoxamine	Powder for injection: 500mg (mesilate) in vial
Dimercaprol	Injection in oil: 50mg/mL in 2mL Ampoule
Methylthioninium chloride- ADDED (Methylene Blue)	Injection: 50mg/5mL in 5mL ampoule
Naloxone- ADDED	Injection: 400 micrograms (hydrochloride) in 1mL ampoule <ul style="list-style-type: none"> • Use in narcotic reversal, cardiac arrest and symptomatic arrhythmias
Potassium ferric hexacyano-ferrate(II)-2H ₂ O (Prussian Blue)	Powder for oral administration.
Protamine sulfate- ADDED	Injection: 10mg/mL in 5mL ampoule
Sodium calcium edetate	Injection: 200mg/mL in 5mL ampoule
Sodium nitrite	Injection: 30mg/mL in 10mL ampoule
Sodium thiosulfate	Injection: 250mg/ML in 50mL ampoule
5. ANTICONVULSANTS/ANTIEPILEPTICS	
Carbamazepine	Tablet: 100mg; 200mg Oral liquid: 100mg/5mL <ul style="list-style-type: none"> • Refer to Section 24.2.2
Diazepam- ADDED	Injection: 5mg/mL in 2mL ampoule <ul style="list-style-type: none"> • For intravenous or rectal use • Refer to Section 1.3
Phenobarbital	Injection: 200mg/mL (as sodium) Tablet: 15-100mg Oral liquid: 15mg/5mL (as phenobarbital or as sodium)
Phenytoin	Injection: 50mg/mL in 5mL vial (as sodium salt) Tablet: 25mg; 50mg; 100mg (sodium) Oral liquid: 25-30mg/5mL
Valproic Acid	Tablet (crushable): 100mg Oral liquid: 200mg/5mL

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****SECTIONS 6 FOR INSERTION HERE****	
7. ANTIMIGRAINE MEDICINES	
7.1 For treatment of acute attack	
Acetylsalicylic acid- ADDED	Tablet: 100-500mg Suppository: 50-150mg • Refer to Section 2.1
Paracetamol (acetaminophen)	Tablet: 100-500mg Suppository: 100mg Oral liquid: 125mg/5mL • Refer to Section 2.1
7.2 For prophylaxis	
Atenolol- ADDED	Tablet: 50mg; 100mg
8. ANTINEOPLASTIC, IMMUNOSUPPRESSIVES AND MEDICINES USED IN PALLIATIVE CARE	
****SECTIONS 8.1 & 8.2 FOR INSERTION HERE****	
8.3 Hormones and Antihormones	
Hydrocortisone- ADDED	Tablet: 10mg.
****SECTION 8.4 FOR INSERTION HERE****	
****SECTION 9 NOT APPLICABLE IN CHILDREN****	
10. MEDICINES AFFECTING THE BLOOD	
10.1 Anti-anemia Medicines	
Ferrous salt- ADDED	Tablet: equivalent to 60mg (sulfate) elemental iron. Oral Suspension: equivalent to 20mg elemental iron (fumarate)/mL
Folic Acid- ADDED	Tablet: 1mg; 5mg
Hydroxocobalamin	Injection: 1mg in 1mL ampoule
10.2 Medicines affecting coagulation	
Heparin sodium- ADDED	Injection: 1,000iu/mL; 5,000iu/mL; 20,000iu/mL in 1mL ampoule
Phytomenadione	Injection: 10mg/mL in 5mL ampoule Tablet: 10mg.
Warfarin	Tablet: 1mg; 2mg; 5mg (as sodium salt)

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11. BLOOD PRODUCTS AND PLASMA SUBSTITUTES	
11.1 Plasma substitutes	
Pentastarch (Pentaspán®)- ADDED	Injection: 10% solution.
11.2 Plasma fractions for specific use	
Human normal immunoglobulin	Intravenous administration: 5%; 10% protein solution Intramuscular administration: 16% protein solution
Factor VIII concentrate	Dried
Factor IX complex (coagulation Factors II, VII, IX, X) concentrate	Dried

12. CARDIOVASCULAR MEDICINES	
****SECTION 12.1 NOT APPLICABLE IN CHILDREN****	
12.2 Antiarrhythmic Medicines	
Amiodarone- ADDED	Injection: 150mg/3mL in ampoule Tablet: 400mg
Atenolol- ADDED	Tablet: 50mg; 100mg
Digoxin	Injection: 250 micrograms/mL in 2mL ampoule Tablet: 62,5microgram; 250microgram Oral liquid: 50 micrograms/mL
Epinephrine (adrenalin)- ADDED	Injection: 100micrograms/mL (hydrochloride or tartrate) in 10mL ampoule
Lidocaine	Injection: 20mg (hydrochloride)/mL in 5mL ampoule
12.3 Antihypertensive Medicines	
Amlodipine- ADDED	Tablet: 5mg
Atenolol- ADDED	Tablet: 50mg; 100mg <ul style="list-style-type: none"> • Refer to Section 7 (Antimigraine...) • Refer to Section 12.2
Enalapril- ADDED	Tablet: 2.5mg
Furosemide- ADDED	Injection: 10mg/mL in 2mL ampoule Tablet: 40mg
Hydralazine- ADDED	Powder for Injection: 20mg (hydrochloride) in ampoule
Hydrochlorothiazide- ADDED	Tablet: 25mg
12.4 Medicines Used in Heart Failure	
Digoxin	Injection: 250 micrograms/ML in 2mL ampoule

	Tablet: 62,5microgram; 250microgram Oral liquid: 50 micrograms/mL
Dopamine	Injection: 40mg (hydrochloride) in 5mL vial
Enalapril-ADDED	Tablet: 2.5mg • Refer to Section 12.3
Furosemide-ADDED	Injection: 10mg/mL in 2mL ampoule Tablet: 40mg • Refer to Section 12.3
Hydrochlorothiazide-ADDED	Tablet: 25mg • Refer to Section 12.3
12.5 Antithrombotic Medicines	
Acetylsalicylic Acid-ADDED	Tablet: 100mg • Refer to Section 2.1
Alteplase (tPA)-ADDED	Injection: 2mg/mL; 50mg in vial
****SECTION 12.6 FOR INSERTION HERE****	

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13. DERMATOLOGICAL MEDICINES	
13.1 Antifungal Medicines	
Benzoic Acid + Salicylic Acid	Cream or Ointment: 6% + 3%
Miconazole	Cream or Ointment: 2% (nitrate)
Selenium Sulfide- ADDED	Suspension: 2% (detergent-based)
13.2 Anti-infective Medicines	
Methylrosanilinium chloride (gentian violet)- ADDED	Aqueous solution: 0.5% Tincture: 0.5%
Neomycin sulfate + bacitracin	Ointment: 5mg neomycin sulfate + 250iu bacitracin zinc/gram
Polyvidone Iodine topical	Solution: 10% Ointment: 10% • Refer to Section 15.1
Potassium Permanganate	Aqueous Solution: 1:10,000.
Silver Sulfadiazine	Cream: 1% in 500g jar
13.3 Anti-inflammatory and Antipruritic Medicines	
Betamethasone	Cream or Ointment: 0.1% (as valerate)
Calamine Lotion	Lotion.
Hydrocortisone	Cream or Ointment: 1% (acetate)
13.4 Astringent Medicines	
Aluminium diacetate- ADDED	Solution: 5%
13.5 Medicines affecting skin differentiation and proliferation	
Benzoyl Peroxide	Cream or Lotion: 5%
Coal Tar	Solution: 5%
Dithranol	Ointment: 0.1-2%
Podophyllum Resin	Solution: 10-25%
Salicylic Acid- ADDED	Solution: 5%
Urea- ADDED	Cream or Ointment: 10%
13.6 Scabicides and Pediculicides	
Benzyl Benzoate	Lotion: 25%
Permethrin	Cream: 5% Lotion: 1%

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14. DIAGNOSTIC AGENTS	
14.1 Ophthalmic Medicines	
Fluorescein	Eye Drops: 1% (as sodium salt)
Tropicamide	Eye Drops: 0.5%
14.2 Radiocontrast Media	
Amidotrizoate- ADDED	Injection: 140-420mg iodine (as sodium or meglumine salt)/mL in 20 mL ampoule
Iohexol	Injection: 140-350mg iodine/mL in 5mL 10MI; 20mL ampoule
15. DISINFECTANTS AND ANTISEPTICS	
15.1 Antiseptics	
Chlorhexidine	Solution: 5% (digluconate) for dilution.
Ethanol	Solution: 70% (denatured)
Polyvidone Iodine- ADDED	Solution: 10% <ul style="list-style-type: none"> • Refer to Section 13.2
****SECTION 15.2 NOT APPLICABLE****	
16. DIURETICS	
Furosemide- ADDED	Injection: 10mg/mL in 2mL ampoule Tablet: 40mg <ul style="list-style-type: none"> • Refer to Section 12.3, 12.4
Hydrochlorothiazide- ADDED	Tablet: 25mg <ul style="list-style-type: none"> • Refer to Section 12.3. 12.4
Mannitol	Injectable Solution: 10%; 20% <ul style="list-style-type: none"> • Decreases ICP
Spironolactone- ADDED	Tablet: 25mg <ul style="list-style-type: none"> • Potassium-sparing

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17. GASTROINTESTINAL MEDICINES	
17.1 Antacids and other Antiulcer Medicines	
Aluminium Hydroxide	Tablet: 500mg Oral liquid: 320mg/5mL
Magnesium Hydroxide	Oral liquid: equivalent to 550mg magnesium oxide/10mL
Ranitidine	Injection: 25mg/mL in 2mL ampoule Tablet: 150mg (hydrochloride) Oral liquid: 75mg/5mL
17.2 Antiemetic Medicines	
Chlorpromazine- ADDED	Injection: 25mg (hydrochloride)/mL Tablet: 25mg; 50mg; 100mg <ul style="list-style-type: none"> • Replaces Promethazine
Metoclopramide- ADDED	Injection: 5mg (hydrochloride)/mL in 2mL ampoule Tablet: 10mg (hydrochloride)
****SECTION 17.3 NOT REQUIRED****	
17.4 Laxatives	
Docusate Sodium- ADDED	Capsule: 100mg Oral liquid: 25mg/5mL
Senna- ADDED	Tablet: 7.5mg; 8.6mg (sennosides)
17.5 Medicines Used in Diarrhea	
17.5.1 Oral Rehydration	
Oral Rehydration Salts	Glucose: 75mEq Sodium: 75mEq or mmol Chloride: 65mEq or mmol Potassium: 20mEq or mmol Citrate: 10mmol/L Osmolarity: 245mOsm/L Glucose: 13.5g/L Sodium Chloride: 2.6g/L Potassium Chloride: 1.5g/L Trisodium Citrate dihydrate: 2.9g/L <ul style="list-style-type: none"> • Higher concentrations of sodium may be required for cholera
17.5.2 Medicines for diarrhea in children	
Zinc Sulfate	Tablet: in 10mg per unit dosage forms Oral liquid: in 10mg per unit dosage Forms <ul style="list-style-type: none"> • Used as adjunct to oral rehydration Salts
****SECTION 17.5.3 NOT APPLICABLE IN CHILDREN****	

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18. HORMONES, OTHER ENDOCRINE MEDICINES AND CONTRACEPTIVES	
****SECTIONS 18.1-18.4 FOR INSERTION HERE****	
18.5 Insulins and Other Antidiabetic Agents	
Insulin injection (soluble)	Injection: 40iu/mL in 10mL vial; 100iu/mL in 10mL vial
Insulin intermediate-acting	Injection: 40iu/mL in 10mL vial; 100iu/mL in 10mL vial (as compound insulin zinc suspension or isophane insulin)
Metformin-ADDED	Tablet: 500mg
****SECTIONS 18.6-18.7 FOR INSERTION HERE****	
18.8 Thyroid Hormones and Antithyroid Medicines	
Levothyroxine-ADDED	Tablet: 50 micrograms; 100 micrograms (as sodium salt)
19. IMMUNOLOGICALS	
19.1 Diagnostic Agents	
Tuberculin, purified protein derivative PPD	Injection.
19.2 Sera and Immunoglobulins	
Antitetanus Immunoglobulin (human)	Injection: 500iu in vial
Antivenom Immunoglobulin	Injection: exact type locally defined
Diphtheria antitoxin	Injection: 10,000iu; 20,000iu in vial
Rabies Immunoglobulin	Injection: 150iu/mL in vial
****SECTION 19.3 FOR INSERTION HERE****	
20. MUSCLE RELAXANTS (PERIPHERALLY-ACTING) AND CHOLINESTERASE INHIBITORS	
Neostigmine	Injection: 500 micrograms in 1mL ampoule; 2.5mg (metilsulfate) in 1mL ampoule Tablet: 15mg (bromide)
Suxamethonium	Injection: 50mg (chloride)/mL in 2mL ampoule Powder for Injection: (chloride) in vial
Vecuronium	Powder for Injection: 10mg (bromide) in vial

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21. OPHTHALMOLOGICAL PREPARATIONS	
21.1 Anti-infective Agents	
Erythromycin- ADDED	Ointment: 3.5% in 3.5g tube
Gentamicin	Solution (Eye Drops): 0.3% (sulfate)
21.2 Anti-inflammatory Agents	
Prednisolone	Solution (Eye Drops): 0.5% (sodium phosphate)
21.3 Local Anaesthetics	
Tetracaine	Solution (Eye Drops): 0.5% (hydrochloride)
****SECTION 21.4 NOT APPLICABLE****	
21.5 Mydriatics	
Atropine- ADDED	Solution (Eye Drops): 0.1%; 0.5%; 1% (sulfate)
****SECTION 22 NOT APPLICABLE IN CHILDREN****	
23. PERITONEAL DIALYSIS SOLUTION	
Intraperitoneal Dialysis Solution (of appropriate composition)	Parenteral Solution.

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24. PSYCHOTHERAPEUTIC MEDICINES	
24.1 Medicine Used in Psychotic Disorders	
Benztropine (benzatropine)-ADDED	Injection: 1mg/mL in 2mL ampoule Tablet: 2mg
Chlorpromazine	Injection: 25mg (hydrochloride)/mL In 2mL ampoule Tablet: 25mg; 50mg; 100mg • Refer to Section 17.2
Risperidone-ADDED	Tablet: 500 micrograms; 1mg; 2mg; 3mg Oral liquid: 1mg/mL • Replaces haloperidol
24.2 Medicines Used in Mood Disorders	
24.2.1 Medicines Used in Depressive Disorders	
Fluoxetine-ADDED	Capsule or Tablet: 20mg (hydrochloride)
24.2.2 Medicines Used in Bipolar Disorders	
Carbamazepine	Tablet: 100mg; 200mg Oral liquid: 100mg/5mL • Refer to Section 5
Lamotrigine-ADDED	Tablet: 5mg; 25mg
Valproic Acid	Tablet (Enteric Coated): 200mg; 500mg (as sodium salt) Oral liquid: 200mg/5mL • Refer to Section 5
SECTION 24.3, 24.4. 24.5 NOT REQUIRED	

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25. MEDICINES ACTING ON THE RESPIRATORY TRACT

25.1 Antiasthmatic and Medicines for Chronic Obstructive Pulmonary Disease

Beclomethasone	Inhalation (pressurized metered dose): 50 micrograms per dose (dipropionate); 250 micrograms per dose (dipropionate)															
Epinephrine (adrenaline)	Injection: 1mg (as hydrochloride or as (hydrogen tartrate) in 1mL ampoule															
Ipratropium Bromide	Inhalation (pressurized metered dose): 20 micrograms per metered dose															
Salbutamol	<p>Injection: 50 micrograms (sulfate)/mL In 5mL ampoule Tablet: 2mg; 4mg (sulfate) Inhalation (pressurized metered dose): 100 micrograms (sulfate) per dose Respirator Solution for Use in Nebulizers: 5mg (sulfate)/mL</p> <table border="1"> <thead> <tr> <th colspan="3">Choosing an Inhaler Device for Children with Asthma (2006 GINA)</th> </tr> <tr> <th>Age Group (years)</th> <th>Device Preferred</th> <th>Alternate Device</th> </tr> </thead> <tbody> <tr> <td>< 4</td> <td>MDI + spacer with face mask</td> <td>Nebulizer with face mask</td> </tr> <tr> <td>4-6</td> <td>MDI + spacer with mouthpiece</td> <td>Nebulizer with mouthpiece</td> </tr> <tr> <td>>6</td> <td>MDI/Dry powder inhaler/ Breath actuated inhaler + space with mouthpiece</td> <td>Nebulizer with mouthpiece</td> </tr> </tbody> </table> <p>*MDI=metered dose inhaler</p>	Choosing an Inhaler Device for Children with Asthma (2006 GINA)			Age Group (years)	Device Preferred	Alternate Device	< 4	MDI + spacer with face mask	Nebulizer with face mask	4-6	MDI + spacer with mouthpiece	Nebulizer with mouthpiece	>6	MDI/Dry powder inhaler/ Breath actuated inhaler + space with mouthpiece	Nebulizer with mouthpiece
Choosing an Inhaler Device for Children with Asthma (2006 GINA)																
Age Group (years)	Device Preferred	Alternate Device														
< 4	MDI + spacer with face mask	Nebulizer with face mask														
4-6	MDI + spacer with mouthpiece	Nebulizer with mouthpiece														
>6	MDI/Dry powder inhaler/ Breath actuated inhaler + space with mouthpiece	Nebulizer with mouthpiece														
25.2 Other Medicines Acting on the Respiratory Tract																
Caffeine Citrate	<p>Injection: 20mg/mL (equivalent to 10mg caffeine base/mL) Oral liquid: 20mg/mL (equivalent to 10mg caffeine base/mL)</p>															

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26. SOLUTIONS CORRECTING WATER, ELECTROLYTE AND ACID-BASE DISTURBANCES	
26.1 Oral	
Oral Rehydration Salts	• Refer to Section 17.5.1
Potassium Chloride	Powder for Solution.
26.2 Parenteral	
Glucose	Injectable Solution: 5%; 10% isotonic; 50% hypertonic
Glucose with Sodium Chloride	Injectable Solution: 4% glucose, 0.18% sodium chloride (equivalent to Na 30mmol/L, Cl 30mmol/L)
Potassium Chloride	Solution: 11.2% in 20mL ampoule (equivalent to K 1.5mmol/mL, Cl 1.5mmol/mL)
Sodium Chloride	Injectable Solution: 0.9% isotonic (equivalent to Na 154mmol/L, Cl 154mmol/L)
Sodium Hydrogen Carbonate	Injectable Solution: 1.4% isotonic (equivalent to Na 167mmol/L HCO₃ 167mmol/L) Solution: 8.4% in 10mL ampoule (equivalent to Na 1,000mmol/L HCO₃ 1,000mmol/L)
Sodium Lactate, compound solution	Injectable Solution.
26.3 Miscellaneous	
Water for Injection	2mL; 5mL; 10mL ampoules

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27. VITAMINS AND MINERALS	
Ascorbic Acid- ADDED	Tablet: 50mg
Calcium Gluconate- ADDED	Injection: 100mg/mL in 10mL ampoule • Refer to Section 4
Ergocalciferol (calciferol, Vitamin D2)	Capsule or Tablet: 1.25mg (50,000iu) Oral liquid: 250 micrograms/mL (10,000iu/mL)
Iodine	Capsule: 200mg Iodized oil: 1mL (480mg) iodine; 0.5mL (240mg iodine) in ampoule (oral or injectable); 0.57mL (308mg iodine)
Pyridoxine (Vitamin B6)- ADDED	Tablet: 25mg (hydrochloride)
Retinol	Water-miscible Injection: 100,000iu (palmitate) in 2mL ampoule Capsule: 50,000iu; 100,000iu; 200,000iu (palmitate) Tablet (sugar-coated): 10,000u (palmitate) Oral oily Solution: 100,000iu (palmitate) per mL in multidose dispenser
Riboflavin (Vitamin B2)- ADDED	Tablet: 5mg
Sodium Fluoride	Tablet: 1.1mg; 2.2mg
Thiamine (Vitamin B1)- ADDED	Tablet: 50mg (hydrochloride)

References

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