

**DRAFT APPENDIX: B1**  
**Routine Injections for Administration by Pharmacists<sup>1</sup>**

AHFS Pharmacologic-Therapeutic Classification		Drug
<b>4:00 Antihistamines</b>	4:04 First-Generation Antihistamines	Diphenhydramine
		Promethazine
<b>8:00 Anti-infective Agents</b>	8:12 Antibiotics	8:12.02 Aminoglycosides
		Amikacin sulfate
		Gentamicin sulfate
		Streptomycin
		Tobramycin
		8:12.06 Cephalosporins
		Cefazolin sodium
		Cefepime HCl
		Cefotaxime sodium
		Ceftazidime pentahydrate
		Ceftriaxone sodium
		Cefuroxime sodium
		8:12.07 Carbapenems
		Ertapenem sodium
		Imipenem
		Meropenem
		8:12.08 Chloramphenicol
		Chloramphenicol
		8:12.16 Penicillins
		Ampicillin
		Cloxacillin
		Penicillin
		Piperacillin
8:12.28 Antiinfectives		
Bacitracin		
Clindamycin		
Colistimethate sodium		
Lincomycin		
8:14 Antifungals	8:14.28 Polyenes	Amphotericin B
8:18 Antivirals	8:18.08.04 HIV Entry and Fusion Inhibitors	Enfuvirtide
		8:18.20 Interferons
	Interferon Alfa-2b	
	Interferon Alfacon-1	
	Peginterferon alfa-2a	
Peginterferon alfa-2b		
8:18.32 Nucleosides and Nucleotides	Acyclovir	
<b>10:00 Antineoplastic Agents</b>	Bevacizumab	
	Bleomycin sulfate	
	Bortezomib	
	Buserelin	
	Clofarabine	
	Cytarabine	
	Degarelix acetate	
	Fulvestrant	
	Goserelin	
	Irinotecan HCl	

<sup>1</sup> On March 7, 2011, Council ratified a draft regulation to the Pharmacy Act to enable an expanded scope of practice. Since then, Council has begun a stakeholder consultation in support of the expansion of this scope of practice. It is the view of Council that it is in the public interest to permit pharmacists to exercise a broader scope in the administration of drugs by injection and inhalation. The training required for a pharmacist to administer injections is rigorous, whether they are administering for demonstration, or for other purposes. In keeping with the revised regulation, additional drugs have been added to the list of approved drugs, these are highlighted in yellow.

			Leuprolide	
			Methotrexate	
			Nelarabine	
			Pemetrexed disodium	
			Triptorelin pamoate	
<b>12:00 Autonomic Drugs</b>	12:04 Parasympathomimetic Agents		Neostigmine	
			Phenylephrine HCl	
	12:08 Parasympatholytic Agents	12:08.08 Antispasmodics	Atropine	
			Dicyclomine HCl	
	12:12 Sympathomimetic (Adrenergic) Agents	12:12.08 Selective Beta-adrenergic Agonists	12:12.08 Selective Beta-adrenergic Agonists	Dobutamine HCl
				Dopamine
		12:12.12 Alpha- and Beta-Adrenergic Agonists	12:12.12 Alpha- and Beta-Adrenergic Agonists	Isoproterenol HCl
				Ephedrine
			Epinephrine	
			Glycopyrrolate	
		Hyoscine		
		Scopolamine		
12:16 Sympatholytic Agents	12:16.04.04 Non-Selective Alpha-Adrenergic Blocking Agents		Phentolamine mesylate	
12:20 Skeletal Muscle Relaxants			Orphenadrine citrate	
			Succinylcholine chloride	
			Suxamethonium	
<b>20:00 Blood Formation and Coagulation</b>	20:04 Antianemia Drugs	20:04.04 Iron Preparations	Iron	
	20:12 Coagulants and Anticoagulants	20:12.04 Anticoagulants	Bivalirudin	
			Dalteparin	
			Danaparoid	
			Enoxaparin	
			Fondaparinux	
			Heparin	
			Nadroparin	
			Tinzaparin	
			20:12.20 Thrombolytic Agents	Alteplase
			Streptokinase	
20:16 Hematopoietic Agents			Ancestim	
			Darbepoetin alfa	
			Epoetin alfa	
			Filgrastim	
			Pegfilgrastim	
			Romiplostim	
<b>24:00 Cardiovascular Drugs</b>	24:04 Cardiac Drugs	24:04.04 Antiarrhythmics	Adenosine	
			Bretylum tosylate	
			Lidocaine HCl	
			Procainamide HCl	
			24:04.08 Cardiotonic Agents	Digoxin
	24:12 Vasodilating Agents			Alprostadil
			Papaverine HCl	
24:28 Calcium Channel Blockers			Verapamil HCl	
<b>28:00 Central Nervous System Agents</b>	28:04 Anesthetics, General		Ketamine HCl	
	28:08 Analgesics and Antipyretics	28:08.04 Non-steroidal Anti-inflammatory	Ketorolac	

		Agents	
		28:08.08 Opiate Agonists	Alfentanil Codeine Fentanyl citrate Hydromorphone Meperidine Morphine
		28:08.12 Opiate Partial Agonists	Nalbuphine Naloxone HCl Pentazocine
	28:12 Anticonvulsants	28:12.04 Barbiturates	Phenobarbital
		28:12.12 Hydantoin	Fosphenytoin sodium Phenytoin
	28:16 Psychotherapeutic Agents	28:16.08 Antipsychotics	Chlorpromazine Flupentixol Fluphenazine Haloperidol Loxapine Methotrimeprazine Olanzapine Pipotiazine Risperidone Zuclopenthixol
	28:24 Anxiolytics, Sedatives, Hypnotics	28:24.08 Benzodiazepines	Diazepam Lorazepam Midazolam
		28:24.92 Miscellaneous	Droperidol Hydroxyzine
	28:32 Antimigraine Agents	28:32.28 Selective Serotonin Agonists	Sumatriptan
	28:36 Anticholinergic Agents		Benztropine mesylate
<b>36:00 Diagnostic Agents</b>			Cosyntropin Thyrotropin
<b>40:00 Electrolytic, Caloric, and Water Balance</b>	40:08 Alkalinizing Agents		Sodium bicarbonate
	40:12 Replacement Preparations		Calcium salts Sodium chloride
	40:28 Diuretics		Furosemide
<b>48:00 Respiratory Tract Agents</b>	48:92 Respiratory Tract Agents, Miscellaneous		Omalizumab
<b>56:00 Gastrointestinal Drugs</b>	56:22 Antiemetics	56:22.08 Antihistamines	Dimenhydrinate Prochlorperazine
		56:22.20 5-HT <sub>3</sub> Receptor Antagonists	Ondansetron
	56:28 Antisecretory Agents	56:28.12 Histamine H <sub>2</sub> -Antagonists	Ranitidine
	56:32 Prokinetic Agents		Metoclopropamide
	56:92 GI Drugs, Miscellaneous		Cetrolizumab Pegol Methylnaltrexone
<b>64:00 Heavy Metal Antagonists</b>			Deferoxamine
<b>68:00 Hormones and Synthetic Substitutes</b>	68:08 Androgens	Androgen Receptor Antagonists	Cyproterone acetate
	68:04 Adrenals		Betamethasone

		Dexamethasone
		Hydrocortisone
		Methylprednisolone
		Triamcinolone
	68:08 Androgens	Testosterone
	68:16 Estrogens	Estrogens, conjugated
	68:18 Gonadotropins	Follitropin-alpha
		Follitropin-beta
		Gonadotropin-chorionic
		Gonadotropin-chorionic-alfa
		Gonadotropin-human
		Lutropin-alfa
		Menotropins
		Urofollitropin
	86:20 Antidiabetic Agents	Insulins
		Liraglutide
	68:22 Antihypoglycemic Agents	68:22.12 Glycogenolytic Agents
		Glucagon
	68:24 Parathyroid	Calcitonin Salmon
		Teriparatide
	68:28 Pituitary	Desmopressin
		Vasopressin
	68:30 Somatotropin Agonists and Antagonists	68:30.04 Somatotropin Agonists
		68:30.08 Somatotropin Antagonists
		Somatropin
	68:32 Progestins	Pegvisomant
		Medroxyprogesterone
		Progesterone
<b>72:00 Local Anesthetics</b>		Bupivacaine HCl
		Chloroprocaine HCl
		Mepivacaine HCl
		Ropivacaine HCl
		Tetracaine HCl
<b>76:00 Oxytocics</b>		Carboprost tromethamine
		Ergonovine
		Oxytocin
<b>84:00 Skin and mucous membrane preparations</b>		Alefacept
<b>88:00 Vitamins</b>	88:08 Vitamin B Complex	Cyanocobalamin
		Folic Acid
		Methylcobalamin
		Pyridoxine
Thiamine		
	88:12 Vitamin C	Ascorbic Acid
	8:24 Vitamin K Activity	Vitamin K
<b>92:00 Miscellaneous Therapeutic Agents</b>	92:12 Antidotes	Leucovorin
	92:20 Biologic Response Modifiers	Denosumab
		Glatiramer
		Interferon-Beta-1A
		Interferon-Beta-1B
		Natalizumab
	92:24 Bone Resorption Inhibitors	Pamidronate sodium
	92:36 Disease-modifying Antirheumatic Drugs	Abatacept
Adalimumab		

		Anakinra
		Etanercept
		Gold Sodium Thiomaleate
		Golimumab
		Ustekinumab
	92:40 Gonadotropin-releasing Hormone Antagonists	Cetrorelix
		Ganirelix
	92:92 Other Miscellaneous Therapeutic Agents	Octreotide
	Lanreotide acetate	
<b>Miscellaneous</b>		Sterile Water for Injection (diluent)

**DRAFT APPENDIX: B2**  
**Immunization Injections for Administration by Pharmacists<sup>1</sup>**

<b>Disease/Indication</b>	<b>Approved Vaccines</b>	<b>Preparation</b>
Diphtheria	Adacel®	Tetanus and diphtheria toxoids adsorbed combined with component pertussis vaccine, [Tdap]
	Pediacel®	diphtheria and tetanus toxoids and acellular pertussis vaccine adsorbed combined with inactivated poliomyelitis vaccine and Haemophilus b conjugate vaccine (tetanus protein-conjugate)
	Quadracel®	component pertussis vaccine and diphtheria and tetanus toxoids adsorbed combined with inactivated poliomyelitis vaccine, [DTaP-IPV]
	Td Adsorbed	tetanus and diphtheria toxoids [adult]
	Td Polio Adsorbed	tetanus and diphtheria toxoids and inactivated poliomyelitis vaccine adsorbed [adult]
Haemophilus influenza type b (Hib)	Act-HIB®	<i>Haemophilus</i> b conjugate vaccine [tetanus protein conjugate]
Hepatitis A virus (HAV)	Avaxim®	hepatitis A vaccine inactivated
	Avaxim® Pediatric	hepatitis A vaccine inactivated
	Havrix®	hepatitis A vaccine inactivated
	Havrix® 720 Junior	hepatitis A vaccine inactivated
	Vaqa®	hepatitis A vaccine inactivated
Hepatitis B virus (HBV)	Engerix®-B	hepatitis B vaccine, recombinant
	Engerix®-B Pediatric	hepatitis B vaccine, recombinant
	Recombivax HB®	hepatitis B vaccine, recombinant
Hepatitis (combined A and B)	Twinrix®	hepatitis A and hepatitis B vaccine
	Twinrix® Junior	hepatitis A and hepatitis B vaccine

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Influenza	Agriflu®	influenza vaccine, surface antigen, inactivated
	Fluad®	influenza vaccine, surface antigen, inactivated, adjuvanted with MF59C.1
	Fluviral®	influenza trivalent split virion
	Influvac™	influenza vaccine, inactivated, surface antigen
	Intanza®	influenza trivalent split virion
	Vaxigrip®	inactivated influenza vaccine trivalent types A and B (split virion)
Japanese Encephalitis (JE)	Ixiaro®	Japanese encephalitis vaccine, inactivated, adsorbed
Measles (rubeola)	M-M-R® II	measles, mumps, and rubella vaccine, live, attenuated
	Priorix®	measles, mumps, and rubella vaccine, live, attenuated
	Priorix-Tetra®	measles, mumps, rubella and varicella vaccine, combined, live, attenuated
Meningococcal disease (meningitis)	Menactra®	meningococcal (groups A, C, Y and W-135) polysaccharide diphtheria toxoid conjugate vaccine
	Meningitec™	composed of N. meningitidis group C oligosaccharides conjugated to cross reacting material 197 [CRM197]
	Menjugate™	meningococcal group C oligosaccharides conjugated to a purified non-toxic variant of diphtheria toxin CRM197
	Menomune® A/C/Y/W-135	containing capsular polysaccharide from serogroups A, C, Y and W135 meningococci
	Menveo™	meningococcal (groups A, C, W-135 and Y) oligosaccharide CRM197 conjugate vaccine
	NeisVac-C™	contains meningococcal group C polysaccharide conjugated to tetanus toxoids
Mumps	M-M-R® II	measles, mumps, and rubella vaccine, live, attenuated
	Priorix®	measles, mumps, and rubella vaccine, live,

		attenuated
	Priorix-Tetra®	measles, mumps, rubella and varicella vaccine, combined, live, attenuated
Pertussis (whooping cough)	Adacel®	Tetanus and diphtheria toxoids adsorbed combined with component pertussis vaccine, [Tdap]
	Pediacel®	diphtheria and tetanus toxoids and acellular pertussis vaccine adsorbed combined with inactivated poliomyelitis vaccine and Haemophilus b conjugate vaccine (tetanus protein-conjugate)
	Quadracel®	component pertussis vaccine and diphtheria and tetanus toxoids adsorbed combined with inactivated poliomyelitis vaccine, [DTaP-IPV]
Pneumococcal disease (streptococcus pneumonia)	IMOVAX® Polio	poliomyelitis vaccine, inactivated (Vero cell origin)
	Pneumovax® 23	pneumococcal vaccine, polyvalent
	Prevnar® 13	pneumococcal 13-valent conjugate vaccine
	Quadracel®	component pertussis vaccine and diphtheria and tetanus toxoids adsorbed combined with inactivated poliomyelitis vaccine, [DTaP-IPV]
	Td Polio Adsorbed	tetanus and diphtheria toxoids and inactivated poliomyelitis vaccine adsorbed [adult]
Rabies	Imovax® Rabies	Rabies vaccine
	RabAvert®	Rabies vaccine
Rubella	M-M-R® II	measles, mumps, and rubella vaccine, live, attenuated
	Priorix®	measles, mumps, and rubella vaccine, live, attenuated
	Priorix-Tetra®	measles, mumps, rubella and varicella vaccine, combined, live, attenuated
Tetanus	Adacel®	Tetanus and diphtheria toxoids adsorbed combined with component pertussis vaccine, [Tdap]
	Pediacel®	diphtheria and tetanus toxoids and acellular pertussis vaccine adsorbed combined with inactivated poliomyelitis vaccine and Haemophilus b conjugate vaccine (tetanus protein-conjugate)

	Quadracel®	component pertussis vaccine and diphtheria and tetanus toxoids adsorbed combined with inactivated poliomyelitis vaccine, [DTaP-IPV]
	Td Adsorbed	tetanus and diphtheria toxoids [adult]
	Td Polio Adsorbed	tetanus and diphtheria toxoids and inactivated poliomyelitis vaccine adsorbed [adult]
Tick-Borne Encephalitis	FMSE-IMMUN™	tick-borne encephalitis virus vaccine, inactivated, with adjuvant
Tuberculosis (TB)	Bacille Calmette-Guérin (BCG) Vaccine	bacillus Calmette-Guérin vaccine, freeze-dried
Typhoid fever	Typherix®	Parenteral, capsular polysaccharide vaccines (Typh-I)
	Typhim Vi®	Parenteral, capsular polysaccharide vaccines (Typh-I)
	ViVaxim™	combines purified Vi polysaccharide typhoid vaccine in solution and inactivated hepatitis A vaccine in suspension
Varicella-zoster virus (VZV)	Varilrix®	varicella virus vaccine, live attenuated
	Varivax® III	varicella virus vaccine, live attenuated
	Zostavax®	zoster vaccine live, attenuated
Yellow Fever (YF)	YF-VAX®	live virus vaccine
Passive Immunization	Botulism antitoxin (equine)	Trivalent (type A, B, E) and monovalent (type E) antitoxin preparation
	Diphtheria antitoxin (equine)	Antitoxin preparation
	Hepatitis B immune globulin (HBIG)	Prepared from human plasma with hepatitis B surface antigen
	Immune globulin (human) (Ig)	Protein from human plasma
	Palivizumab (RSVAb)	Antibodies from human plasma

	Rabies immune globulin (RabIg)	Passive rabies immunization
	Tetanus immune globulin (TIG)	Antitoxin
	Varicella-zoster immune globulin (VarIg) - VariZIG™	sterile, freeze-dried gamma globulin preparation containing high titres of antibodies
Human Papillomavirus (HPV)	Cervarix®	Types 16 and 18, recombinant, AS04 adjuvanted
	Gardasil®	quadrivalent human papillomavirus (types 6, 11, 16, 18) recombinant vaccine

**Resources:**

Public Health Agency of Canada (2006). *Canadian Immunization Guide*. Seventh Edition.

e-CPS

Injectable product DINs list (Tina)