

Custom Medicines Prioritization lists

Table 1.- Medicines used in the general management of hospitalised patients with COVID-19.

Condition / Symptom	Medicine <i>INN (Proposed List)</i> <i>(Recommended List)</i>	HS Codes as pure substances / (*) put up as medicaments in measured doses	2019 Model List of Essential Medicines section	National HS classification (Lebanon)
Fever	<i>paracetamol</i> (8)(4)	2924.29; 3004.90*	2.1 Non- opioids and non-steroidal anti- inflammatory medicines (NSAIDs)	2924.29; 3004.90.90
Medicinal gas	Oxygen	2804.40	1.1 General anaesthetics and oxygen 1.1.1 Inhalational medicines	2804.40
Analgesia	Morphine <i>morphine glucuronide</i> (92)(54)	2939.11; 3004.49* 2939.19; 3004.49*	1.3 Preoperative medication and sedation for short- term procedures	2939.11; 3004.49* 2939.19; 3004.49*
	<i>fentanyl</i> (14)(8)	2933.33; 3004.90*	2.2 Opioid analgesics	2933.33; 3004.90.90
Sedation	<i>propofol</i> (49)(23)	2907.19; 3004.90*	1.1 Gener al anaestheti cs and oxygen 1.2 Inject able medicines	2907.19; 3004.90.90
	<i>midazolam</i> (40) (19)	2933.91;	1.3	2933.91; 3004.90.90

		3004.90*	Preoperative medication and sedation for short-term procedures	
	lorazepam (23)(10)	2933.91; 3004.90*	5. ANTICONVULSANTS/ANTI-EPILEPTICS	2933.91; 3004.90.90
	haloperidol (10)(4)	2933.39; 3004.90*	2.3 Medicines for pain and palliative care	2933.39; 3004.90.90
	levomepromazine (8)(4)	2934.30; 3004.90*		2934.30; 3004.90.90
Muscle relaxant	Atracurium ¹ atracurium besilate (42)(20)	2933.49; 3004.90*	20. MUSCLE RELAXANTS (PERIPHERALLY-ACTING) AND CHOLINESTERASE INHIBITORS	2933.49; 3004.90.90
	Succinylcholine (suxamethonium chloride (1))	2923.90; 3004.90*	20. MUSCLE RELAXANTS (PERIPHERALLY-ACTING) AND CHOLINESTERASE INHIBITORS	2923.90; 3004.90.90
Sedation adjuvant	Atropine atropinmethonitrate (4)(3)	2939.79; 3004.49* 2939.79; 3004.49*	1.3 Preoperative medication and sedation for short-	2939.79; 3004.49 2939.79; 3004.49 2939.79; 3004.49

	atropine oxide (13)(5)	2939.79; 3004.49*	term procedures	
Anti-infectives (for coinfections; need to refer to local guidelines and AMR data)	amoxicillin (27)(12)+ clavulanic acid ² (44)(21)	3003.10; 3004.10*	6.2.1 Access group antibiotics	3003.10; 3004.10
	amoxicillin (27)(12)	2941.10; 3004.10*	6.2.1 Access group antibiotics	2941.10; 3004.10
	azithromycin (58)(28)	2941.90; 3004.20*	6.2.2 Watch group antibiotics	2941.90; 3004.20
	ceftriaxone (44)(21)	2941.90; 3004.20*	6.2.2 Watch group antibiotics	2941.90; 3004.20
	ceftazidime (44)(21)	2941.90; 3004.20*	6.2.2 Watch group antibiotics	2941.90; 3004.20
	doxycycline (16)(8)	2941.30; 3004.20*	6.2.1 Access group antibiotics	2941.30; 3004.20
	vancomycin (6)(3)	2941.90; 3004.20*	6.2.2 Watch group antibiotics	2941.90; 3004.20
	meropenem (60)(29) ³	2941.90; 3004.20*	6.2.2 Watch group antibiotics	2941.90; 3004.20
	amikacin (30)(14)	2941.90; 3004.20*	6.2.1 Access group antibiotics	2941.90; 3004.20
	piperacillin (38)(18)+ tazobactam (63)(29)	3003.10; 3004.10*	6.2.2 Watch group antibiotics	3003.10; 3004.10
	amphotericin B (10)(4)	2941.90; 3004.20*	6.3 Antifungal medicines	2941.90; 3004.20
Glucocorticoids	hydrocortisone (1)(6) ⁴	2937.21; 3004.32*	3. Antiallergics and medicines used in	2937.21; 3004.32

			anaphylaxis	
Vasoactive medicines	norepinephrine (45)(23) ⁵	2937.90; 3004.39*		2937.90; 3004.39.90
	epinephrine (16)(7) ⁶	2937.90; 3004.39*	3. ANTIALLER GICS AND MEDICINES USED IN ANAPHYLA XIS	2937.90; 3004.39.90
	dobutamine (29)(13)	2922.29; 3004.90*		2922.29; 3004.90.90
	Vasopressin vasopressin injection (16)(7)	2937.19; 3004.39*		2937.19; 3004.39.90
Myocardial dysfunction	levosimendan (68)(23) ⁷	2933.99; 3004.90*		33.99; 3004.90.90
	milrinone(50)(24) ⁷	2933.79; 3004.90*		2933.79; 3004.90.90
Volume expanders (crystalloids)	Saline solution	2501.00; 3004.90*	26.2 Solutions correcting water, electrolyte and acid- base disturbances	2501.00.90; 3004.90.90
	Ringer's lactate	3004.90*	26.2 Solutions correcting water, electrolyte and acid- base disturbances	3004.90.90
Medicines for influenza co-infection	oseltamivir (80)(42) ⁸	2924.29; 3004.90*	6.4.3 Other antivirals	2924.29; 3004.90.90
Anticoagulant	enoxaparin enoxaparin sodium	3001.90; 3004.90*	10.2 Medicines affecting coagulation	3001.90; 3004.90.90

	(77)(39)			
	<u>heparin sodium</u> (54)(26)	3001.90; 3004.90*	10.2 Medicines affecting coagulation	3001.90; 3004.90.90
Antacids	<u>omeprazole</u> (46)(22)	2933.39; 3004.90*	17.1 Antiulcer medicines	2933.39; 3004.90.90
	<u>ranitidine</u> (41)(19)	2932.19; 3004.90*	17.1 Antiulcer medicines	2932.19; 3004.90.90
Antiemetic	<u>metoclopramide</u> (14)(6)	2924.29; 3004.90*	17.2 Antiemetic medicines	2924.29; 3004.90.90
	<u>ondansetron</u> (62)(29)	2933.29; 3004.90*	17.2 Antiemetic medicines	2933.29; 3004.90.90
Antiseptic	<u>chlorhexidine</u> (6)(3)	2925.29; 3004.90*	15.1 Antiseptics	2925.29; 3004.90.10
	alcohol-based hand rub	3808.94	15.1 Antiseptics	3808.94.10 3808.94.20 3808.94.90
	<u>povidone</u> (74)(36)- iodine	3905.99; 3004.90*	15.1 Antiseptics	3905.99; 3004.90.10
Bronchodilators	<u>salbutamol</u> (20)(9)	2922.50; 3004.90*	25.1 Antiasthmati c and medicines for chronic obstructive pulmonary disease	2922.50; 3004.90.90
	<u>ipratropium bromide</u> (31)(14)	2939.79; 3004.49*	25.1 Antiasthmati c and medicines for chronic obstructive	2939.79; 3004.49

			pulmonary disease	
Cough suppressants	Codeine	2939.11; 3004.49*	2.2 Opioid analgesics	2939.11; 3004.49

¹ [vecuronium bromide](#) (46)(22) can be an alternative. (HS Codes: 2933.49; 3004.90*)

² [ampicillin](#) (13)(8)+ [sulbactam](#) (45)(21) can be an alternative. (HS Codes: 3003.10; 3004.10*)

³ [imipenem](#) (50)(24)+ [cilastatin](#) (50)(24) can be an alternative. (HS Codes: 3003.20; 3004.20*)

⁴ [methylprednisolone](#) (8)(4) can be an alternative. (HS Codes: 2937.29; 3004.32*)

⁵ Recommended as first choice in patients with shock, as it produces less tachycardia than [epinephrine](#) (16)(7).

⁶ Vasopressin can be an alternative.

⁷ Panama guidelines (see Ref.)

⁸ In the case of influenza virus co-infection in compromised patients.

Table 2.- Medicines which are used as part of the direct treatment against COVID-19 in hospitalised patients.¹

Medicine <i>INN (Proposed List)</i> <i>(Recommended List)</i>	HS Codes as pure substances / (* put up as medicaments in measured doses	2019 Model List of Essential Medicines section ²	National HS Classification (Lebanon)
hydroxychloroquine (8)(4)	2933.49; 3004.90*	29.2 Disease-modifying agents used in rheumatoid disorders (DMARDs)	2933.49; 3004.90.90
chloroquine (4)(3)	2933.49; 3004.60*	6.5.3 Malaria due to Plasmodium vivax, ovale, malariae 29.2 Disease-modifying agents used in rheumatoid disorders (DMARDs)	2933.49; 3004.60.90
azithromycin (58)(28)	2941.90; 3004.20*	6.2.2 Watch group antibiotics	2941.90; 3004.20
lopinavir (80)(42) /ritonavir (74)(36)	2933.59; 3004.90* 2934.10; 3004.90*	6.4.2.3 Protease inhibitors	2933.59; 3004.90.90 2934.10; 3004.90.90
remdesivir (116)(78)	2934.99;	-	2934.99 –

	3004.90*		3004.90.90
interferon alfa(73)(36)	3002.13; 3002.15*	6.4.4.2.3 Other antivirals for hepatitis C	3002.13; 3002.15
ribavirin (31)(40)	2934.99; 3004.90*	6.4.3 Other antivirals	2934.99; 3004.90.90

¹Medicines being tested in different hospitals. Each country should identify the list of medicines prescribed in its hospitals.

²Medicines being tested for COVID-19 have not been included on the EML for COVID-19; in the above table are reported the sections for which they have been included in EML.

Table 3.- Medicines which interrupted supply could result in serious health consequences.

Medicine	2019 Model List of Essential Medicines section	National HS Classification (Lebanon)
Prescription medicines^{1 2}		
Analgesics	2.1 Non-opioids and non-steroidal anti-inflammatory medicines (NSAIDs)	
Anaphylaxis treatment	3. ANTIALLERGICS AND MEDICINES USED IN ANAPHYLAXIS	
Antianginal	12.1 Antianginal medicines	
Anti-arrhythmics	12.2 Antiarrhythmic medicines	
Anti-coagulants	10.2 Medicines affecting coagulation	
Anti-depressants	24.2.1 Medicines used in depressive disorders	
Anti-diarrhoeals	17.5 Medicines used in diarrhoea	
Anti-epileptics	5. ANTICONVULSANTS/ANTIEPILEPTICS	

Anti-hypertensives	12.3 Antihypertensive medicines	
Anti-parkinson drugs	9. ANTIPARKINSONISM MEDICINES	
Anti-platelets	12.5.1 Anti-platelet medicines	
Anti-psychotics	24.1 Medicines used in psychotic disorders	
Anti-virals	6.4.2 Antiretrovirals	
Benzodiazepines	24.3 Medicines for anxiety disorders	
Cancer/Palliative care medicines	8.2 Antineoplastics and supportive medicines	
Diuretics	16. DIURETICS	
Endocrine medicines	18. MEDICINES FOR ENDOCRINE DISORDERS	
Gastrointestinal medicines	17. GASTROINTESTINAL MEDICINES	
Glaucoma eye drops	21.4 Miotics and antiglaucoma medicines	
Immunosuppressants	8. IMMUNOMODULATORS AND ANTINEOPLASTICS	
Insulins	18.5.1 Insulins	
Oral contraceptives	22.1.1 Oral hormonal contraceptives	
Oral hypoglycaemics	18.5.2 Oral hypoglycaemic agents	
Respiratory medicines	25.1 Antiasthmatic and medicines for chronic obstructive pulmonary disease	
Non-prescription medicines^{1, 3 4}		
<u>epinephrine</u> (adrenaline) autoinjector (HS Code: 3004.39*)	3. ANTIALLERGICS AND MEDICINES USED IN ANAPHYLAXIS	3004.39.90

<u>chloramphenicol</u> (1)(1)eye drops/ointment (HS Code: 2941.40; 3004.20*)		2941.40 3004.20
GTN (glyceryltrinitrate) (HS Code: 2920.90; 3004.90*)	12.1 Antianginal medicines	2920.90; 3004.90.90
<u>levonorgestrel</u> (33)(15) (HS Code: 2937.23; 3004.39*)	22.1.1 Oral hormonal contraceptives	2937.23; 3004.39.90
<u>naloxone</u> (13)(5) (HS Code: 2939.19; 3004.49*)	4. ANTIDOTES AND OTHER SUBSTANCES USED IN POISONINGS	2939.19; 3004.49
<u>salbutamol</u> (20)(9) (HS Code: 2922.50; 3004.90*)	25.1 Antiasthmatic and medicines for chronic obstructive pulmonary disease	2922.50; 3004.90.90
Medicines used in specific programs		
WHO Global Malaria Program		
WHO Global TB Program		
HIV/AIDS Program		