COVID-19 - WCO-WHO Cooperation

List of priority medicines for customs during COVID-19 pandemic WHO Secretariats of INN Programme and EML

Background

The World Customs Organisation (WCO) wishes to produce a list of medical supplies and medicines for COVID-19, which will serve to help customs and economic operators identify them and facilitate their classification at the border. The list contains medicines used in the general management of hospitalised patients and some medicines being used as part of the direct treatment against COVID-19 with their suggested HS codes. Where appropriate, medicines are identified by their International Nonproprietary Names (INN).

As of 15 January 2022, the present COVID-19 pandemic has affected 223 countries, areas or territories, where more than 326 million cases have been confirmed, and more than 5,500,000 people have died as a consequence of the infection. Due to the clinical characteristics of this coronavirus disease and its evolution, COVID-19 is challenging the health system of many countries, as patients in the severe stage require transfer to Intensive Care Units (ICU) and mechanical ventilation, intubation, sedation, and treatment of potential coinfections.

Within this framework, shortages of medicines can worsen the situation, especially in three cases:

- (1) Medicines used in the general management of hospitalised patients with COVID-19.
- (2) Medicines which are used as part of the direct treatment against COVID-19 in hospitalised patients.
- (3) Medicines where interrupted supply could result in serious health consequences.

Method

The following tables have been prepared considering different documents published by National Health Authorities, scientific societies or pharmacology experts, namely:

- (1) The Office of the Chief Pharmacist Department for Health and Wellbeing; Government of South Australia.
- (2) The Australian Therapeutics and Goods Administration (TGA)
- (3) The Essential Medicines List for the management of COVID-19 patients admitted to ICU prepared by the Argentinian CUFAR, a WHO-CC for the Rational Use of Medicines.
- (4) NICE COVID-19 rapid guidelines.
- (5) The National guidelines for the management of adult COVID-19 patients issued by different medical societies in Panama.

(6) Brazilian Ministry of Health, Protocolo de Manejo Clínico da Covid-19 na Atenção Especializada.

The complete references appear at the end of the document.

This is a living document, which will be regularly updated.

General Disclaimer:

The WHO Secretariats of the International Nonproprietary Name Programme and of the Model List of Essential Medicines, in this exceptional situation, wish to serve customs and economic operators by compiling a list of active substances that have been used in the context of the COVID-19 pandemic. This interim list will be continuously updated and will be a living document.

In view of the exceptional circumstances and the emergency due to the COVID-19 pandemic, the Secretariats are not in a position to verify the possible benefits and harms of the listed medicines for treatment and management of COVID-19, as well as the dosage. The mention of specific medicines or combinations does not imply that they are endorsed or recommended by WHO against COVID-19 or in the context of the COVID-19 pandemic. The responsibility for the interpretation and use of the material lies with the reader. In no event shall WHO and WCO be liable for damages arising from its use.

The HS 2022 codes were provided by the WCO Secretariat with a view to facilitating the classification at the international level (6 digit of the HS) of the medicines contained in the list. Economic operators are kindly advised to consult with the relevant Customs administrations in relation to classification at domestic levels (7 or more digits) or in the event of any discrepancy between their practices and this list.

Some INN substances were classified by the Harmonized System Committee (HSC). The complete table of all INN substances classified by the HSC can be found at:

http://www.wcoomd.org/en/topics/nomenclature/instrument-and-tools/tools-to-assist-with-the-classification-in-the-hs/hs_classification-decisions/inn-table.aspx

Custom Medicines Prioritization lists

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

Condition /	Medicine	HS 2022 Codes as	2019 Model List of Essential Medicines
Symptom	INN (Proposed List)	pure substances / (*)	section
-,	(Recommended List)	put up as	
	(**************************************	medicaments in	
		measured doses	
Fever	paracetamol (8)(4)	2924.29; 3004.90*	2.1 Non-opioids and non-steroidal anti-
1 0 101	paracetamer (c)(1)	2024.20, 0004.00	inflammatory medicines (NSAIMs)
Modicinal gas	Oxygen	2804.40	1.1 General anaesthetics and oxygen
Medicinal gas	Oxygen	2604.40	1.1.1 Inhalational medicines
Analgosia	Morphine	2939.11; 3004.49*	1.3 Preoperative medication and sedation for
Analgesia	Morphine glucuronide		
		2939.19; 3004.49*	short-term procedures
	(92)(54)		
	<u>fentanyl</u> (14)(8)	2933.33; 3004.90*	2.2 Opioid analgesics
Sedation	<u>propofol</u> (49)(23)	2907.19; 3004.90*	1.1 General anaesthetics and oxygen
			1.2 Injectable medicines
	<u>midazolam</u> (40) (19)	2933.91; 3004.90*	1.3 Preoperative medication and sedation for
			short-term procedures
	<u>lorazepam</u> (23)(10)	2933.91; 3004.90*	5. ANTICONVULSANTS/ANTIEPILEPTICS
	haloperidol (10)(4)	2933.39; 3004.90*	2.3 Medicines for pain and palliative care
	levomepromazine (8)(4)	2934.30; 3004.90*	
Muscle relaxant	Atracurium¹	-	20. MUSCLE RELAXANTS (PERIPHERALLY-
	atracurium besilate	2933.49; 3004.90*	ACTING) AND CHOLINESTERASE
	(42)(20)	, , , , , , , , , , , , , , , , , , , ,	INHIBITORS
	Succinylcholine		20. MUSCLE RELAXANTS (PERIPHERALLY-
	(suxamethonium chloride	2923.90; 3004.90*	ACTING) AND CHOLINESTERASE
	(1))	2020.00, 0004.00	INHIBITORS
Sedation	Atropine	2939.79; 3004.49*	1.3 Preoperative medication and sedation for
adjuvant	atropine methonitrate (4)(3)	2939.79; 3004.49*	short-term procedures
aujuvan	atropine oxide (13)(5)		Short-term procedures
A - the factions		2939.79; 3004.49*	0.04 A
Anti-infectives	<u>amoxicillin</u> (27)(12)+	3003.10; 3004.10*	6.2.1 Access group antibiotics
(for coinfections;	clavulanic acid ² (44)(21)		
need to refer to	amoxicillin (27)(12)	2941.10; 3004.10*	6.2.1 Access group antibiotics
local guidelines	azithromycin (58)(28)	2941.90; 3004.20*	6.2.2 Watch group antibiotics
and AMR data)	ceftriaxone (44)(21)	2941.90; 3004.20*	6.2.2 Watch group antibiotics
	ceftazidime (44)(21)	2941.90; 3004.20*	6.2.2 Watch group antibiotics
	doxycycline (16)(8)	2941.30; 3004.20*	6.2.1 Access group antibiotics
	vancomycin (6)(3)	2941.90; 3004.20*	6.2.2 Watch group antibiotics
	meropenem (60)(29)3	2941.90; 3004.20*	6.2.2 Watch group antibiotics
	amikacin (30)(14)	2941.90; 3004.20*	6.2.1 Access group antibiotics
	piperacillin (38)(18)+	3003.10; 3004.10*	6.2.2 Watch group antibiotics
	tazobactam (63)(29)	0000110, 000 1110	Siziz II aton group anazioneo
	amphotericin B (10)(4)	2941.90; 3004.20*	6.3 Antifungal medicines
Glucocorticoids	hydrocortisone (1)(6) ⁴	2937.21; 3004.32*	Antiallergics and medicines used in
Giucocorticolus	<u>nydrocortisone (1)(0)</u>	2937.21, 3004.32	
\/	navaninanhvina (45)(22) 5	2027 00: 2004 20*	anphylaxis
Vasoactive	norepinephrine (45)(23) 5	2937.90; 3004.39*	A ANTENI EDOLOGIAND MEDICINES LIGED
medicines	epinephrine (16)(7) 6	2937.90; 3004.39*	3. ANTIALLERGICS AND MEDICINES USED
			IN ANAPHYLAXIS
	<u>dobutamine</u> (29)(13)	2922.29; 3004.90*	
	Vasopressin	2937.19; 3004.39*	
	vasopressin injection		
	(16)(7)		
Myocardial	levosimendan (68)(23) 7	2933.99; 3004.90*	
dysfunction	milrinone (50)(24) 7	2933.79; 3004.90*	
Volume	Saline solution	2501.00; 3004.90*	26.2 Solutions correcting water, electrolyte and
expanders			acid-base disturbances
(crystalloids)	Ringer's lactate	3004.90*	26.2 Solutions correcting water, electrolyte and
(5.) 5.6.1.5.16.0)	Tanger 3 laciate	000 1 .00	acid-base disturbances
Medicines for	oseltaminir (201/42) 8	2924.29; 3004.90*	6.4.3 Other antivirals
influenza co-	oseltamivir (80)(42) 8	∠9∠4.∠9, 3004.90°	0.4.3 Other aniivirais
infection		0004.00.0004.00*	100M F: # # # # # # # # # # # # # # # # # #
Anticoagulant	enoxaparin "	3001.90; 3004.90*	10.2 Medicines affecting coagulation
	enoxaparin sodium		
	(77)(39)		
	heparin sodium (54)(26)	3001.90; 3004.90*	10.2 Medicines affecting coagulation
A 1 ! -l -	omonrozolo (46)(22)	2933.39; 3004.90*	17.1 Antiulcer medicines
Antacids	omeprazole (46)(22)	2933.39, 3004.90	17.1 Antitulcer medicines

Antiemetic	metoclopramide (14)(6)	2924.29; 3004.90*	17.2 Antiemetic medicines
	ondansetron (62)(29)	2933.29; 3004.90*	17.2 Antiemetic medicines
Antiseptic	<u>chlorhexidine</u> (6)(3)	2925.29; 3004.90*	15.1 Antiseptics
	alcohol-based hand rub	3808.94	15.1 Antiseptics
	povidone (74)(36)-iodine	3905.99; 3004.90*	15.1 Antiseptics
Bronchodilators	salbutamol (20)(9)	2922.50; 3004.90*	25.1 Antiasthmatic and medicines for chronic obstructive pulmonary disease
	<u>ipratropium bromide</u> (31)(14)	2939.79; 3004.49*	25.1 Antiasthmatic and medicines for chronic obstructive pulmonary disease
Cough suppressants	Codeine	2939.11; 3004.49*	2.2 Opioid analgesics

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

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

Medicine INN (Proposed List) (Recommended List)	HS 2022 Codes as pure substances / (*) put up as medicaments in measured doses	2019 Model List of Essential Medicines section ²
<u>hydroxychloroquine</u> (8)(4)	2933.49; 3004.90*	29.2 Disease-modifying agents used in rheumatoid disorders (DMARDs)
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)
azithromycin (58)(28)	2941.90; 3004.20*	6.2.2 Watch group antibiotics
<u>lopinavir</u> (80)(42)	2933.59; 3004.90*	6.4.2.3 Protease inhibitors
/ <u>ritonavir</u> (74)(36)	2934.10; 3004.90*	
<u>remdesivir</u> (116)(78)	2934.99; 3004.90*	-
interferon alfa (73)(36)	3002.13; 3002.15*	6.4.4.2.3 Other antivirals for hepatitis C
<u>ribavirin</u> (31)(40)	2934.99; 3004.90*	6.4.3 Other antivirals

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

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

Medicine	2019 Model List of Essential Medicines section
Prescription medicines ^{1 2}	
Analgesics	2.1 Non-opioids and non-steroidal anti-inflammatory medicines (NSAIMs)
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

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.

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.

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}	
epinephrine (adrenaline)	3. ANTIALLERGICS AND MEDICINES USED IN ANAPHYLAXIS
autoinjector	
(HS Code: 3004.39*)	
<u>chloramphenicol</u> (1)(1) eye	
drops/ointment	
(HS Code: 2941.40; 3004.20*)	
GTN (glyceryl trinitrate)	12.1 Antianginal medicines
(HS Code: 2920.90; 3004.90*)	
<u>levonorgestrel</u> (33)(15)	22.1.1 Oral hormonal contraceptives
(HS Code: 2937.23; 3004.39*)	
<u>naloxone</u> (13)(5)	4. ANTIDOTES AND OTHER SUBSTANCES USED IN POISONINGS
(HS Code: 2939.19; 3004.49*)	
salbutamol (20)(9)	25.1 Antiasthmatic and medicines for chronic obstructive pulmonary disease
(HS Code: 2922.50; 3004.90*)	
Medicines used in specific	
programs	
WHO Global Malaria Program	
WHO Global TB Program	
HIV/AIDS Program	
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¹ List recommended by the Australian TGA.

References

- WHO International Nonproprietary Names Programme
 https://www.who.int/medicines/services/inn/en/
 Lists of Recommended and Proposed INNs
 https://www.who.int/medicines/publications/druginformation/innlists/en/
 INN Mednet
 https://mednet.who.int/inn
- Therapeutics Goods Administration (TGA) COVID-19 limits on dispensing and sales at pharmacies. Link: https://www.tga.gov.au/media-release/limits-dispensing-and-sales-prescription-and-over-counter-medicines
- Dept. Health and Wellbeing. Government of South Australia. Emergency Supply of essential medicines and COVID 19. Link:
 <a href="https://www.sahealth.sa.gov.au/wps/wcm/connect/923029ea-fcba-4fb7-b0cd-11a66c86f5d7/Health+Professionals+Factsheet+-+Emergency+Supply+of+essential+medicines+and+the+Coronavirus.pdf?MOD=AJPERES&CACHEID=ROOTWORKSPACE-923029ea-fcba-4fb7-b0cd-11a66c86f5d7-n4P0JEW
- CUFAR PAHO: The Essential Medicines List for the management of COVID-19 patients admitted to ICU.Link: https://www.paho.org/en/documents/lista-medicamentos-esenciales-para-manejo-pacientes-que-ingresan-unidades-cuidados

² Classifications are not given for classes of medicaments as classification varies dependent on the specific substance.

³ In certain countries, some of these active ingredients can be prescription medicines.

⁴ Classifications not marked are for the pure substance. Classifications marked * are for the substances put up as medicaments in measured doses. Note, the classification for epinephrine if it is imported as a pure substance, *not in an autoinjector or otherwise put up for retail sale or in measured doses*, is 2937.90.

- NICE. COVID-19 rapid guideline: managing suspected or confirmed pneumonia in adults in the community. Link: https://www.nice.org.uk/guidance/ng165
- NICE. COVID-19 rapid guideline: managing symptoms (including at the end of life) in the community. Link: https://www.nice.org.uk/guidance/ng163
- NICE. COVID-19 rapid guideline: severe asthma. Link: https://www.nice.org.uk/guidance/ng166
- Brazilian Ministry of Health. Protocolo de Manejo Clínico da Covid-19 na Atenção Especializada. Link: http://bvsms.saude.gov.br/bvs/publicacoes/manejo clinico covid-19 atenção especializada.pdf
- Sociedad de Enfermedades Infecciosas de Panamá (SEIP), Asociación Panameña de Neumología y Cirugía del Tórax (APNCT), Asociación Panameña de Médicos Intensivistas (ASPAMI), Sociedad Panameña de Anestesiología, Reanimación y Algiología (SPARA), Sociedad Panameña de Medicina Interna (SPMI), Asociación Panameña de Medicina de Emergencias (ASPAME), Sociedad Panameña de Reumatología (SPR), Asociación Panameña de Alergología e Inmunología Clínica (APAIC), Asociación Panameña de Geriatría (APG), Asociación Panameña de Medicina Crítica y Terapia Intensiva (APMCTI), Asociación Panameña de Neurología (APN), Sociedad Panameña de Nefrología e Hipertensión (SPNH). National guidelines for the management of adult COVID-19 patients. Panamá, 16 March,Ri 2020.
- FEMEBA (Argentinian Medical Federation). Coronavirus y medicamentos específicos: ¿qué sabemos hasta ahora? Informe Área Farmacología, 31 de marzo 2020. Link: https://www.fundacionfemeba.org.ar/blog/farmacologia-7/post/informe-coronavirus-y-medicamentos-especificos-que-sabemos-hasta-ahora-47679
- WHO. Report of the WHO-China Joint Mission on Coronavirus Disease 2019 (COVID-19). February 2020. Link: https://www.who.int/docs/default-source/coronaviruse/who-china-joint-mission-on-covid-19-final-report.pdf
- Sociedad Peruana de Enfermedades Infecciosas y Tropicales (SPEIT) revisada y consensuada con la Sociedad Peruana de Medicina Intensiva (SOPEMI), Sociedad Peruana de Medicina Interna (SPMI), Sociedad Peruana de Neumología (SPN). Propuesta en base a consideración de manejo de COVID – 19 Link:

https://www.call.org.pe/coronavirus/doc/20200326 0309 67 0.pdf