



دائرة الصحة
DEPARTMENT OF HEALTH

STANDARD ON MANAGING DRUG SHORTAGE

JULY 2022

PUBLIC

عام



 دائرة الصحة DEPARTMENT OF HEALTH	
Document Title:	Standard on Managing Drug Shortage
Document Type	Standard
Document Ref. Number:	DOH/STD/RIC/DMPR/V.2
Effective Date:	14 July 2022
Previous Versions:	HAAD/HRD/MMPS/V.1
Document Owner:	Research and Innovation Center
Applies to:	All Healthcare Facilities (Pharmacy) and Drug Suppliers
Note: Read this Standard in conjunction with related UAE Laws, Department of Health (DOH) Policies, Standards and Manuals.	

1. Definitions

- 1.1. Drug Shortage:** disruption of supply of an essential medicine that has no available interchangeable alternative/s in the DOH Approved Drug List.
- 1.2. Mandatory Drugs List:** includes medicines that meet the needs of the majority of the population in Abu Dhabi and should be available in hospital pharmacies and other pharmacies that work 24X7 (appendix).
- 1.3. Minimum stock level of medicine/s:** quantity sufficient for three months' supply for two patients of any essential medicine or its interchangeable generic alternative/s.

2. Purpose

- 2.1. Managing drug shortage is of critical importance for assuring quality and safe patient care, therefore, contingency drug supply strategies are required to ensure that healthcare professionals (HCPs) are able to manage and responds appropriately to drug shortages. This standard mandate;
 - 2.1.1. The requirements to manage and maintain sufficient stock of drugs that are listed in the Mandatory Drugs List.



2.1.2. Methods through which the healthcare facilities should notify DOH on shortage in regards to the following:

2.1.2.1. Drugs included in the Mandatory Drugs List

2.1.2.2. Other drugs used or prescribed by HCPs in accordance with the clinical scope of services that are offered by these facilities.

3. Scope

3.1. The Standard applies to all DOH licensed healthcare facilities (HCFs) that provide 24x7 services including hospital pharmacies both Inpatient and outpatient and also community pharmacies that are approved to provide service 24x7.

4. Duties

4.1. All DOH HCFs providing pharmacy services 24X7 must:

4.1.1. Ensure all drugs included in the mandatory drugs list or interchangeable alternatives are continuously available with adequate stocks as per the facility's scope of service and not necessarily limited to the minimum stock level of medicines that is defined by this standard.

4.1.2. Have in place drug shortage management system comprising policies, processes and governance mechanism to manage drug shortage in accordance with the requirements in this standard.

4.1.2.1. In case of inpatient pharmacy (Hospitals only), to apply for request for quotation (RFQ) by the authorized vendor/drug supplier/s who can arrange non- registered interchangeable generic alternative/s. (cross ref. non-registered medicines standard).

4.1.3. Notify DOH when minimum stock threshold is reached and the drug or interchangeable alternative/s generic is/are not available with the registered agent/s, this can be done by:

4.1.3.1. Sending an email to drugshortage@doh.gov.ae accompanied with all the previous communications with the drug agent/s.

4.1.3.2. Sending a letter requesting replenishing the stock by borrowing/purchasing from another facility that has excess stock and are willing to share it.

5. Enforcement and Sanctions

DOH may impose sanctions in relation to any breach of requirements under this Standard in accordance with the Complaints, Investigations, Regulatory Action and Sanctions Chapter, Healthcare Regulator Manual.



6. Appendix

Mandatory Drug List.

1	ACETYLSALICYLIC ACID (Enteric-Coated) 100 mg tablet
2	ACETYLSALICYLIC ACID EC 75 mg tablet
3	ACETYLSALICYLIC ACID EC 81 mg tablet
4	ACYCLOVIR 200 mg tablet
5	ACYCLOVIR 200 mg/5 mL oral suspension
6	ACYCLOVIR 3% eye ointment
7	ALBENDAZOLE 100 mg/5 mL oral suspension
8	ALBENDAZOLE 200 mg tablet
9	ALFACALCIDOL 1 mcg capsule
10	ALFACALCIDOL 2 mcg/mL oral drops
11	ALLOPURINOL 100 mg tablet
12	AMIODARONE 200 mg tablet
13	AMITRIPTYLINE 25 mg tablet
14	AMLODIPINE 5 mg capsule
15	AMOXICILLIN / CLAVULANATE 375 mg
16	AMOXICILLIN / CLAVULANATE 625 mg
17	AMOXICILLIN / CLAVULANATE 1000 mg
18	AMOXICILLIN / CLAVULANATE 156 mg per 5 mL oral suspension
19	AMOXICILLIN / CLAVULANATE 457 mg per 5 mL oral suspension
20	AMOXICILLIN / CLAVULANATE 642.9 mg per 5 mL oral suspension
21	AMOXICILLIN 250mg capsule
22	AMOXICILLIN 500 mg capsule
23	AMOXICILLIN 250 mg / 5 mL oral suspension
24	ASCORBIC ACID (VITAMIN C) 500 mg
25	ASCORBIC ACID (VITAMIN C) 1000mg
26	ATORVASTATIN 10 mg tablet
27	ATORVASTATIN 20 mg tablet
28	ATORVASTATIN 40 mg tablet
29	ATROPINE 0.5% eye drops
30	AZATHIOPRINE 50 mg tablet
31	AZITHROMYCIN 200 mg/5 mL oral suspension
32	AZITHROMYCIN 250 mg capsule



33	BECLOMETHASONE 250 mcg per metered dose (inhaler)
34	BECLOMETHASONE 50 mcg per metered dose (nasal spray)
35	BETAMETHASONE VALERATE 1% cream
36	BICALUTAMIDE 50MG TABLETS
37	BISOPROLOL 10 mg tablet
38	BISOPROLOL 5 mg tablet
39	BISOPROLOL 2.5 mg tablet
40	BROMOCRIPTINE 2.5 MG TABLET
41	BUDESONIDE / FORMOTEROL 160 mcg / 4.5 mcg per dose inhaler
42	BUDESONIDE / FORMOTEROL 80 mcg / 4.5 mcg per dose inhaler
43	BUDESONIDE 0.5 mg/mL (2 mL) nebule (for inhalation)
44	BUDESONIDE 64 mcg/dose 120 doses nasal spray
45	CALAMINE (B.P) lotion
46	CALCIUM CARBONATE 600 mg/500mg (600 /500 elemental calcium) tablet
47	CANDESARTAN 80mg tablet
48	CARBAMAZEPINE 100 mg/5 mL oral liquid (sugar-free)
49	CARBAMAZEPINE 200 mg tablet
50	CARBIMAZOLE 5 mg tablet
51	CARNITINE 500 mg/5 mL oral liquid
52	CARVEDILOL 6.25MG TABLET
53	CARVEDILOL 25 mg tablet
54	CEFIXIME 400 mg tablet (or capsule)
55	CEFUROXIME AXETIL 500 mg tablet
56	CHOLECALCIFEROL (Vitamin D3) 1000 IU tablet
57	CIPROFLOXACIN 250 mg tablet
58	CIPROFLOXACIN 500 mg tablet
59	CIPROFLOXACIN 250 mg/5 mL oral suspension
60	CIPROFLOXACIN WITH HYDROCORTISONE 0.2% with 1% ear drops
61	CLARITHROMYCIN 500 mg tablet
62	CLINDAMYCIN 150 mg capsule/tablet
63	CLONAZEPAM 2.5mg/ml
64	CLONAZEPAM 0.5mg/Tablet
65	CLONAZEPAM 2mg/Tablet
66	CLOPIDOGREL 300 mg tablet
67	CLOPIDOGREL 75 mg tablet
68	CLOTRIMAZOLE 500 mg vaginal tablet (single dose treatment)
69	Coal Tar / Salicylic acid 4.25% / 2% Shampoo
70	COAL TAR 2% cream



71	COTRIMOXAZOLE (SULFAMETHOXAZOLE / TRIMETHOPRIM) 200 mg/40 mg per 5 mL oral suspension
72	COTRIMOXAZOLE (SULFAMETHOXAZOLE / TRIMETHOPRIM) 800 mg/160 mg tablet
73	CYCLIZINE HCl 50mg/Tablet
74	CYCLOPHOSPHAMIDE 50 mg tablet
75	CYCLOSPORIN (NEORAL) 25 mg capsule
76	CYCLOSPORIN (NEORAL) 100 mg capsule
77	CYPROHEPTADINE HYDROCHLORIDE 4mg tablet
78	DEXAMETHASONE 1mg/ml oral solution
79	DEXAMETHASONE 0.5mg
80	DEXAMETHASONE 4 mg
81	DIAZEPAM 2 mg tablet
82	DIAZEPAM 5 mg/2.5 mL rectal tube
83	DIAZEPAM 5 mg/mL (2 mL) injection
84	DICLOFENAC 50 mg
85	DICLOFENAC 1% topical gel
86	DIGOXIN 0.0625 mg (62.5 mcg) tablet
87	DIGOXIN 0.25 mg (250 mcg) tablet
88	DIGOXIN 0.25 mg/5 mL (250 mcg/5 mL) oral solution
89	DIPHENHYDRAMINE 25 mg tablets
90	DOCUSATE SODIUM 50 mg/5 mL oral solution
91	DOCUSATE SODIUM 100 mg capsule
92	DORZOLAMIDE 2%
93	DROSPIRENONE/ ETHINYLESTRADIOL 3 mg / 30 mcg tablet
94	ELECTROLYTE (FOR REHYDRATION) oral solution
95	ENALAPRIL 5 mg tablet
96	ENALAPRIL 10 mg tablet
97	ENALAPRIL 20 mg tablet
98	EPINEPHRINE 1 mg/mL (1:1,000) 1 mL / EpiPen® Adrenaline Auto Injector 0.3 mg
99	EpiPen® Jr. Adrenaline Auto Injector 0.15 mg
100	ERGOCALCIFEROL (VITAMIN D) 50,000 IU (1.25 mg) tablet
101	ERGOCALCIFEROL (VITAMIN D) 8,000 Oral solution
102	FERROUS SULFATE SR 150 mg capsule
103	FERROUS SULFATE 15 mg/0.6 mL oral drops
104	FLUCLOXACILLIN 125 mg/5 mL oral suspension
105	FLUCLOXACILLIN 250 mg capsule



106	FLUCONAZOLE 50 mg capsule
107	FLUCONAZOLE 50 mg/5mL oral suspension
108	FLUDROCORTISONE 0.1 mg tablet
109	FLUOXETINE 20 mg Capsules/tablet
110	FLUTICASONE PROPIONATE 100mcg DPI
111	FLUTICASONE PROPIONATE 125 mcg Aerosol Inhaler
112	FLUTICASONE PROPIONATE 250 mcg DPI
113	FLUTICASONE PROPIONATE 500 mcg DPI
114	FLUTICASONE PROPIONATE 50 mcg Aerosol Inhaler
115	FOLIC ACID 1 mg tablet
116	FUROSEMIDE 10 mg/mL oral solution
117	FUROSEMIDE 40 mg tablet
118	GABAPENTIN 300 mg capsule
119	GABAPENTIN 400 mg capsule
120	GENTAMICIN 0.3% eye drops
121	GLIBENCLAMIDE (GLYBURIDE) 5 mg tablet
122	GLIBENCLAMIDE/ METFORMIN 2.5 mg/ 500 mg tablet
123	GLIBENCLAMIDE/ METFORMIN 5 mg/ 500 mg tablet
124	GLICLAZIDE MR 60mg tablet
125	GLICLAZIDE 80 mg tablet
126	GLIMEPIRIDE 1 mg tablet
127	GLIMEPIRIDE 2 mg tablet
128	GLIMEPIRIDE 3 mg tablet
129	GLIMEPIRIDE 4 mg tablet
130	GLUCAGON 1 mg vial (injection)
131	GLYCOPYRROLATE 1 mg tablet
132	HALOPERIDOL 2 mg/mL oral solution (drops)
133	HALOPERIDOL 5 mg tablet
134	HYDROCHLOROTHIAZIDE 25 mg tablet
135	HYDROCORTISONE 10 mg tablet
136	HYDROCORTISONE 1% cream
137	HYDROXYCHLOROQUINE 200 mg tablet
138	HYDROXYUREA 500 mg capsule
139	HYOSCINE-N-BUTYL BROMIDE 10 mg tablet
140	IBUPROFEN 100 mg/5 mL oral suspension
141	IBUPROFEN 400 mg
142	INDAPAMIDE SR 1.5 mg tablet
143	INSULIN ASPART 100 units/mL



144	INSULIN BIPHASIC ISOPHANE 30/70 100 units/mL injection
145	INSULIN DETEMIR 100 IU/ ml Penfill/flexipen
146	INSULIN GLARGINE 100 UNITS/ML
147	INSULIN REGULAR 100 units/mL injection
148	IPRATROPIUM 125 mcg/mL (2 mL) solution for nebulization, nebule
149	IPRATROPIUM 20 mcg per metered dose (inhaler)
150	IRBESARTAN 150 mg tablet
151	ISOSORBIDE DINITRATE SL 5 mg tablet
152	ITRACONAZOLE 100 mg capsule
153	LABETALOL 100 mg tablet
154	LABETALOL 200mg tablet
155	LAMOTRIGINE 100mg
156	LAMOTRIGINE 200mg
157	LAMOTRIGINE 25mg
158	LAMOTRIGINE 50mg
159	LAMOTRIGINE 5mg
160	LATANOPROST 0.005% Ophthalmic Solution
161	LETROZOLE 2.5 mg tablet
162	LEVETIRACETAM 100 mg/mL (5-mL) injection
163	LEVETIRACETAM 100mg/ml oral solution
164	LEVETIRACETAM 250 mg
165	LEVETIRACETAM 1000 mg
166	LEVODOPA / CARBIDOPA 100 mg / 10 mg tablet
167	LEVODOPA / CARBIDOPA 100 mg / 25 mg tablet
168	LEVODOPA / CARBIDOPA 250 mg / 25 mg tablet
169	LEVOFLOXACIN 500 mg tablet
170	LEVONORGESTREL 30 mcg tablet
171	LEVONORGESTREL / ETHINYL ESTRADIOL 0.15 mg / 0.03 mg tablet
172	LEVOTHYROXINE SODIUM TABLETS 100 MICROGRAMS
173	LEVOTHYROXINE SODIUM TABLETS 50 MICROGRAMS
174	LEVOTHYROXINE SODIUM 25 mcg tablet
175	LISINOPRIL TABLETS 10MG
176	LISINOPRIL TABLETS 5MG
177	LOPERAMIDE 2 mg capsule/tablet
178	LORATADINE 10mg/tablet
179	LORATADINE 5 mg/5 mL
180	LOSARTAN POTASSIUM TABLETS 50MG
181	MERCAPTOPURINE 50 mg tablet



182	METFORMIN 850 mg tablet
183	METFORMIN 500 mg tablet
184	METHOTREXATE 2.5 mg tablet
185	METHYLDOPA 250 mg tablet
186	METOCLOPRAMIDE 10 mg tablet
187	METOPROLOL 50 mg tablet
188	METRONIDAZOLE 200 mg or 250 mg tablet
189	METRONIDAZOLE 200 mg/5 mL oral suspension
190	MICONAZOLE 2% cream
191	MICONAZOLE 2% vaginal cream
192	MICONAZOLE 24 mg/mL oral gel
193	MIDAZOLAM 7.5 mg tablet
194	MOXIFLOXACIN 400 mg tablet
195	MOXONIDINE 0.2 mg tablet
196	MUPIROCIN 2% cream/ointment
197	MYCOPHENOLATE MOFETIL 250 mg capsule
198	NIFEDIPINE XL 30 mg tablet
199	NIFEDIPINE 10 mg capsule
200	NITROFURANTOIN MACROCRYSTALS MONOHYDRATE (SUSTAINED RELEASE) 100 mg capsule
201	NITROGLYCERIN 0.5 mg/0.4mg sublingual tablets / sublingual spray
202	NORETHISTERONE 10 mg tablet
203	NORETHISTERONE 5 mg tablet
204	NYSTATIN 100,000 IU/mL suspension
205	OFLOXACIN 0.3% eye drops
206	OMEPRazole 20 mg capsule
207	ONDANSETRON 4 mg/5 mL oral solution
208	ONDANSETRON 8 mg tablet
209	PARACETAMOL 120 mg/5 mL oral solution
210	PARACETAMOL 100/125 mg suppository
211	PARACETAMOL 500 mg tablet
212	PENICILLAMINE 250 mg tablet
213	PENICILLIN V POTASSIUM 312mg /625mg
214	PENICILLIN V POTASSIUM 125 mg/250mg oral suspension
215	PERMETHRIN 5% cream
216	PHENYTOIN 50 mg capsule
217	PHENYTOIN 100 mg capsule
218	PHENYTOIN 30 mg/5 mL oral suspension 500 ML



219	PHYTOMENADIONE 5mg/ 10 mg tablet
220	PILOCARPINE 2% eye drops
221	PILOCARPINE 4% eye drops
222	PIMECROLIMUS 1%
223	PIOGLITAZONE 15 mg / 30mg/ 45mg
224	POTASSIUM CHLORIDE SR 600 mg (8 mmol) per tablet
225	POTASSIUM SODIUM HYDROGEN CITRATE
226	POVIDONE IODINE 10% (equivalent to 1% available iodine).
227	PREDNISOLONE 20 mg/ 100 mL for rectal administration
228	PREDNISOLONE 5 mg
229	PREDNISOLONE 20 mg
230	PREDNISOLONE 25 mg
231	PREDNISOLONE 1% eye drops
232	PROPRANOLOL 10 mg tablet
233	PROPRANOLOL 40 mg tablet
234	PROPYLTHIOURACIL 50 mg tablet
235	PYRIDOXINE (VITAMIN B6) 50 mg Tablet
236	RAMIPRIL 5 mg tablet
237	RANITIDINE 150 mg tablet
238	RANITIDINE 75 mg/5 mL oral suspension
239	RIBAVIRIN 200 mg capsule
240	RISPERIDONE 4 mg tablet
241	RISPERIDONE 1 mg/ mL (100 mL) syrup
242	ROSUVASTATIN 5mg tab
243	ROSUVASTATIN 10mg tab
244	SALBUTAMOL 100 mcg per metered dose inhaler
245	SALBUTAMOL 5 mg/mL; 5mg/2.5ml
246	SENNA 7.5 mg tablet
247	SILVER SULPHADIAZINE 1% cream(jar)
248	SIMVASTATIN 10 mg tablet
249	SITAGLIPTIN /METFORMIN 50mg/ 1000mg tablet
250	SITAGLIPTIN /METFORMIN 50mg/500mg tablet
251	SITAGLIPTIN 100 mg tablet
252	SODIUM BICARBONATE 325 mg (3.8 mmol) tablet
253	SPIRONOLACTONE 25 mg tablet
254	SULFASALAZINE 500 mg tablet
255	TACROLIMUS 0.5 mg
256	TACROLIMUS 1 mg



257	TACROLIMUS 5mg
258	TACROLIMUS 0.3mg/g
259	TACROLIMUS 1mg/g
260	TAMOXIFEN 20 mg tablet
261	TAMSULOSIN 0.4 mg Tablet
262	TELMISARTAN 40 mg Tablet
263	TERBINAFINE 1% cream
264	TERBINAFINE 10 mg/g spray solution (30 mL)
265	THIAMINE (VITAMIN B1) 100 mg tablet
266	TIMOLOL 0.5% eye drops
267	TOPIRAMATE 15 mg "sprinkle capsule"
268	TOPIRAMATE 25 mg
269	TOPIRAMATE 50 mg
270	TOPIRAMATE 100 mg
271	TRAVOPROST 0.04mg/ml
272	UREA CREAM 10%.
273	VALPROATE SODIUM 250 mg / 5 ml syrup
274	VALPROATE SODIUM 200 mg tablet
275	VALPROATE SODIUM 500mg tablet
276	VALPROIC ACID EC 200 mg tablet
277	VALPROIC ACID SR 500 mg oral
278	VALPROIC ACID 100 mg/mL (4 mL) injection
279	VALPROIC ACID 500 mg
280	VALSARTAN 80 mg tablet
281	VALSARTAN 160 mg tablet
282	VERAPAMIL 240 mg tablet
283	VERAPAMIL 40 mg tablet
284	VIGABATRIN 500 mg tablet/sachet
285	VORICONAZOLE 200 mg tablet
286	WARFARIN 1 mg tablet
287	WARFARIN 2 mg tablet
288	WARFARIN 5 mg tablet
289	XYLOMETAZOLINE 0.1% nasal spray (adult)