## Resilient Drug Supply Project: Critical Acute Drug List & Critical COVID-19 Drug List Drug Shortages Reported by ASHP & FDA

Shortages as of 6/6/2022

						6/6/2022	
Drug #	Critical Acute Drugs Generic Name	Drug Category	UMN RDSP List of 156 Critical Acute Drugs	UMN RDSP List of 40 Critical COVID-19 Drugs	ASHP Drug Shortage List	FDA Drug Shortage List	
1	Cisatracurium	Paralytic	X	X	Yes		
2	Rocuronium	Paralytic	X	X	Yes		
3	Vecuronium	Paralytic	X	X	Yes	Yes	
4	Succinylcholine	Paralytic	X	X	165	105	
5	Atracurium	Paralytic	X		Yes		
6	Propofol	Sedation	X	X	Yes	Yes	
7	Midazolam	Sedation	X	X	Yes	Yes	
8	Lorazepam	Sedation	X	X	Yes	Yes	
9	Dexmedetomidine	Sedation/Anesthesia	X	X		Yes	
10	Phenobarbital	Sedation	X		Yes		
11	Ketamine	Sedation/Anesthesia	X	X	Yes	Yes	
12	Diazepam	Sedation	X				
13	Lidocaine	Local Anesthetic	X		Yes	Yes	
14	Bupivacaine	Local Anesthetic	X		Yes	Yes	
	Fentanyl	Pain	X	X	Yes	Yes	
	Hydromorphone	Pain	X	X	Yes	Yes	
17	Morphine	Pain	X	X	Yes	Yes	
18	Oxycodone	Pain	X	X	1 05	1 03	
19	Acetaminophen	Pain & Fever	X	71			
20	Ketorolac	Pain	X		Yes	Yes	
21	Anakinra	Pain	X				
22	Oxygen	Medical Gas	X	X			
23	Nitric Oxide	Medical Gas	X	Λ			
24	Sevoflurane	Medical Gas	X				
		Bronchodilator	X	V	Vac		
25 26	Albuterol Ipratropium (Inhaler)	Bronchodilator  Bronchodilator	X	X	Yes		
27	Azithromycin	Anti-infective	X	X			
	Piperacillin-Tazobactam	Anti-infective	X	X	37		
	Cefepime	Anti-infective	X	X	Yes		
30	Ceftriaxone Vancomycin	Anti-infective Anti-infective	X	X	Yes		
	Doxycycline	Anti-infective  Anti-infective	X	Λ	Yes		
	Meropenem	Anti-infective	X	X	1 05		
	Cefazolin	Anti-infective	X	X	Yes	Yes	
	Levofloxacin	Anti-infective	X				
	Linezolid	Anti-infective	X				
37	Ampicillin-Sulbactam	Anti-infective	X		Yes		
38	Sulfamethoxazole-Trimethoprim	Anti-infective	X				
	Ceftazidime	Anti-infective	X	X	Yes		
	Ciprofloxacin	Anti-infective	X				
	Clindamycin	Anti-infective	X		Yes		
-	Gentamicin	Anti-infective	X		Yes	Yes	
	Imipenem	Anti-infective	X				
	Metronidazole	Anti-infective	X		Yes	Yes	
	Ampicillin	Anti-infective	X				
46 47	Nafcillin Oxacillin	Anti-infective	X X				
48	Penicillin G	Anti-infective Anti-infective	X				
49	Tobramycin	Anti-infective  Anti-infective	X				
50	Amphotericin B	Anti-infective  Anti-infective	X				
51	Posaconazole	Antifungal	X				

			UMN RDSP	IIMN RDSP	ASHP	FDA
Drug	Critical Acute Drugs	Drug Category	List of 156	List of 40	Drug	Drug
#	Generic Name	Drug Category	Critical Acute	Critical	Shortage	Shortage
,,,	Generic I tame		Drugs	COVID-19	List	List
			Ü	Drugs		
52	Ganciclovir (IV)	Antiviral	X			
53	Highly Active Anti-Retroviral Therapies**	Antiviral	X			
54	Hydroxychloroquine	Antiviral ( Lupus, RA)	X	X	Yes	
55	Chlorhexidine	Antiseptic	X	X		
56	Betadine	Antiseptic	X	21		
57	Ethanol	Antiseptic	X			
58	Norepinephrine	Vasopressor	X	X	Yes	
59			X	X	Yes	Yes
60	Epinephrine Vasopressin	Vasopressor Vasopressor	X	X	res	res
61	Phenylephrine	Vasopressor	X	Λ		
62	Amiodarone	Cardiovascular	X	X	Yes	
63	Hydralazine	Cardiovascular	X		Yes	
64	Nicardipine	Cardiovascular	X			
65	Labetalol	Cardiovascular	X		Yes	
66	Metoprolol	Cardiovascular	X		Yes	
67	Esmolol	Cardiovascular	X		Yes	
68	Verapamil	Cardiovascular	X		Yes	
69	Diltiazem	Cardiovascular	X		Yes	Yes
70	Atropine	Cardiovascular	X		Yes	Yes
71	Adenosine	Cardiovascular	X			
72	Epoprostenol	Pulmonary Vasodilator	X		Yes	
73	Bosentan	Pulmonary Vasodilator	X			
74	Milrinone	Pulmonary Vasodilator	X			
75	Dexamethasone	Corticosteroids	X		Yes	Yes
76	Methylprednisolone	Corticosteroids	X		Yes	Yes
77	Hydrocortisone	Corticosteroids	X		1 45	Yes
78	Betamethasone	Corticosteroids	X		Yes	1 05
79	Prednisone	Corticosteroids	X		Yes	
						X7
80	Furosemide	Diuretic	X		Yes	Yes
81	Potassium chloride (IV)	Electrolyte Replacement	X		Yes	Yes
82	Magnesium (IV)	Electrolyte Replacement	X		Yes	
83	Calcium chloride	Electrolyte Replacement	X	X	Yes	
84	Calcium gluconate	Electrolyte Replacement	X		Yes	Yes
85	Calcium carbonate	Electrolyte Replacement	X			
86	Sevelamer carbonate	Electrolyte Replacement	X			
87	Sodium bicarbonate	Electrolyte Replacement	X		Yes	Yes
88	Phosphorous	Electrolyte Replacement	X			
89	Zinc	Electrolyte Replacement	X			
90	Sodium chloride (0.9%, 3%, 5%)	Electrolyte & Fluids	X		Yes	Yes
91	Lactated Ringers	Electrolyte & Fluids	X		Yes	
92	Dextrose (50%)	Electrolyte & Fluids	X		Yes	Yes
93	Anticoagulant Citrate Dextrose Solution A	Electrolyte & Fluids	X			
94	Hemodialysis, Intermittent (IHD) Solution	Electrolyte & Fluids	X			
95	Peritoneal Dialysis (PD) Solution	Electrolyte & Fluids	X			
96	Renal Replacement Therapy, Continuous (CRRT)	Electrolyte & Fluids	X			Yes
97	Organ Preservation Solution	Electrolyte & Fluids	X			
98	Enoxaparin	Anticoagulant	X	X		
99	Heparin	Anticoagulant	X	X	Yes	Yes
100	Argatroban	Anticoagulant	X	X	Yes	1 03
101	Tissue Plasminogen Activator (TPA)	Anticoagulant	X	71	100	
102	Warfarin	Anticoagulant	X			
103	Prothrombin complex conc. (Kcentra)	Warfarin Reversal	X			
104	Vitamin K (phytonadione)	Warfarin Reversal	X			
105	Insulin, Short acting- Regular (aspart)	Insulin & Endocrine	X			
106	Insulin, Long acting (Lantus, Levemir, NPH)	Insulin & Endocrine	X			



Bosnopressin Acetate (DDAVP)				UMN RDSP	UMN RDSP	ASHP	FDA
Desmopressin Acetate (DDAVP)	Drug	Critical Acute Drugs	Drug Category				Drug
Desmopressin Acetate (DDAVP)	#	Generic Name					Shortage
Desmopressin Acetate (DDAVP)   Insulin & Endocrine   X   Yes				Drugs		List	List
Insulin & Endocrine   X	107	Desmopressin Acetate (DDAVP)	Insulin & Endocrine	X	Drugs	Yes	Yes
110   Carbamzzepine	108		·				
112	109	Valproate sodium	Anti-epileptic			Yes	Yes
112   Levetiracetam							
113   Phenytoin							
114 Antivenom, Snake (CroFab)						Yes	
115   Antivenom, Spider							
116   Dantrolene   Antidote   X   Yes     117   Diphenhydramine   Antidote   X   Yes     118   Epinephrine (EpiPen, auto-injector)   Antidote   X   Yes     119   Levocarnitine   Antidote   X   Yes     119   Levocarnitine   Antidote   X   Yes     110   Lipid emulsion (IV)   Antidote   X   Yes     121   Methylene Blue   Antidote   X   Yes     122   N-acetyleysteine   Antidote   X   Yes     123   Naloxone   Antidote   X   Yes     124   Nesstigmine   Antidote   X   Yes     125   Protamine   Antidote   X   Yes     126   Rabies Vaccine IG   Antidote   X   Yes     127   Sugammadex   Antidote   X   Yes     128   Tetanus toxoid   Antidote   X   X     129   Vitamin B12 (hydroxocobalamin)   Antidote   X   X     130   Immune globulin (IV)   Immunodeficiency   X   X     131   Epoetin   Blood Modifier   X     132   Granulocyte-Colony Stimulating Factor (GSCF)   Blood Modifier   X     133   Granulocyte-Colony Stimulating Factor   Blood Modifier   X     134   NPEG-Granulocyte-Colony Stimulating Factor   Blood Modifier   X     135   Blood Factor IVI   Hemophilia   X   X     136   Blood Factor VII   Hemophilia   X   X     137   Blood Factor VII   Hemophilia   X     138   Anti-inhibitor coagulant complex (FEIBA)   Hemophilia   X     140   Mycophenolate Mofetil (MMF)   Immunosuppressant   X     141   Taerolimus   Immunosuppressant   X     142   Cyclophosphamide (CHOP regimen)   Lymphoma / Leukemia   X     144   Procarbazine (MOPP regimen)   Lymphoma / Leukemia   X     145   Procarbazine (MOPP regimen)   Lymphoma / Leukemia   X     146   Vincrisine (CHOP regimen)   Lymphoma / Leukemia   X     147   Ondansetron (oral & inj)   Anti-enetics   X   Yes							
117   Diphenhydramine   Antidote   X   Yes     118   Epinephrine (EpiPen, auto-injector)   Antidote   X   Yes     119   Levocamitine   Antidote   X   Yes     120   Lipid emulsion (IV)   Antidote   X   Yes     121   Methylene Blue   Antidote   X   Yes     122   N-acetylcysteine   Antidote   X   Yes     123   Naloxone   Antidote   X   Yes     124   Neostigmine   Antidote   X   Yes     125   Protamine   Antidote   X   Yes     126   Rabies Vaccine IG   Antidote   X   Yes     127   Sugammadex   Antidote   X   Yes     128   Tetanus toxoid   Antidote   X   X   Yes     129   Vitamin B12 (hydroxocobalamin)   Antidote   X   X   X     130   Immune globulin (IV)   Immunodeficiency   X   X   X     131   Epoetin   Blood Modifier   X   X   X     132   Granulocyte-Colony Stimulating Factor (GSCF)   Blood Modifier   X   X   X     133   Granulocyte-Colony Stimulating Factor (Blood Modifier   X   X   X     134   NPEG-Granulocyte-Colony Stimulating Factor (Blood Modifier   X   X   X   X     135   Blood Factor IX   Hemophilia   X   X   X     136   Blood Factor VII   Hemophilia   X   X   X     137   Blood Factor VII   Hemophilia   X   X   X     138   Anti-inhibitor coagulant complex (FEIBA)   Hemophilia   X   X   X     140   Mycophenolate Mofetil (MMF)   Immunosuppressant   X   X   X     141   Tacrolimus   Immunosuppressant   X   X   X     142   Cyclophosphamide (CHOP regimen)   Lymphoma / Leukemia   X   X     144   Mechlorethamine (MOPP regimen)   Lymphoma / Leukemia   X   X     145   Procarbazine (MOPP regimen)   Lymphoma / Leukemia   X   X     146   Vincristine (CHOP, MOPP regimen)   Lymphoma / Leukemia   X     147   Ondansetron (oral & inj)   Anti-emetics   X   Yes							
118   Epinephrine (EpiPen, auto-injector)   Antidote   X   Yes     119   Levocamitine   Antidote   X   Yes     120   Lipid emulsion (IV)   Antidote   X   Yes     121   Methylene Blue   Antidote   X   Yes     122   N-acetyleysteine   Antidote   X   Yes     123   Naloxone   Antidote   X   Yes     124   Neostigmine   Antidote   X   Yes     125   Protamine   Antidote   X   Yes     126   Rabies Vaccine IG   Antidote   X   Yes     127   Sugammadex   Antidote   X   Yes     128   Tetanus toxoid   Antidote   X   X     129   Vitamin B12 (hydroxocobalamin)   Antidote   X   X     130   Immune globulin (IV)   Immunodeficiency   X     131   Epoetin   Blood Modifier   X   X     132   Granulocyte-Colony Stimulating Factor (GSCF)   Blood Modifier   X     133   APEG-fonulocyte-Colony Stimulating Factor (NPEG-GSCF)   Blood Modifier   X     134   NPEG-fonulocyte-Colony Stimulating Factor (NPEG-GSCF)   Blood Modifier   X     135   Blood Factor VII   Hemophilia   X   X     136   Blood Factor VII   Hemophilia   X   X     137   Tranexamic Acid   Hemophilia   X     138   Anti-inhibitor coagulant complex (FEIBA)   Hemophilia   X     140   Mycophenolate Mofetil (MMF)   Immunosuppressant   X     141   Tacrolimus   Immunosuppressant   X     142   Cyclophosphamide (CHOP regimen)   Lymphoma / Leukemia   X     144   Procarbazine (MOPP regimen)   Lymphoma / Leukemia   X     145   Ondansetron (oral & inj)   Anti-emetics   X   Yes     146   Native (IV)   Native (IV)							
119   Levocarnitine							Yes
120   Lipid emulsion (IV)						1 45	1 65
122 N-acetyleysteine	120	Lipid emulsion (IV)	Antidote	X		Yes	Yes
123 Naloxone							
124   Neostigmine		• •	-			Yes	
125   Protamine				_			
Rabies Vaccine IG						37	X7
127   Sugammadex						Yes	Yes
Tetanus toxoid							
129   Vitamin B12 (hydroxocobalamin)							
130   Immune globulin (IV)   Immunodeficiency   X							
131   Epoetin   Blood Modifier   X	130	`	Immunodeficiency	X			
132   Granulocyte-Colony Stimulating Factor (GSCF)   Blood Modifier   X       133   Granulocyte-Macrophage Colony- Stimulating Factor   Blood Modifier   X       134   NPEG-Granulocyte-Colony Stimulating Factor (NPEG-GSCF)   Blood Modifier   X       135   Blood Factor IX   Hemophilia   X       136   Blood Factor VII   Hemophilia   X       137   Blood Factor VIII   Hemophilia   X       138   Anti-inhibitor coagulant complex (FEIBA)   Hemophilia   X       139   Tranexamic Acid   Hemophilia   X       140   Mycophenolate Mofetil (MMF)   Immunosuppressant   X       141   Tacrolimus   Immunosuppressant   X       142   Cyclophosphamide (CHOP regimen)   Lymphoma / Leukemia   X   Yes     144   Mechlorethamine (MOPP regimen)   Lymphoma / Leukemia   X       145   Procarbazine (MOPP regimen)   Lymphoma / Leukemia   X       146   Vincristine (CHOP, MOPP regimen)   Lymphoma / Leukemia   X       147   Ondansetron (oral & inj)   Anti-emetics   X   Yes     148   Ondansetron (oral & inj)   Anti-emetics   X   Yes     149   Ondansetron (oral & inj)   Anti-emetics   X   Yes     140   Modifier   X   X   X   Yes     141   Nechlorethamine (MoPP regimen)   Lymphoma / Leukemia   X       143   Ondansetron (oral & inj)   Anti-emetics   X   Yes	131		,				
133   Granulocyte-Macrophage Colony- Stimulating Factor   Blood Modifier   X							
134   NPEG-Granulocyte-Colony Stimulating Factor (NPEG-GSCF)   Blood Modifier   X							
136   Blood Factor VII   Hemophilia   X       137   Blood Factor VIII   Hemophilia   X       138   Anti-inhibitor coagulant complex (FEIBA)   Hemophilia   X     139   Tranexamic Acid   Hemophilia   X     140   Mycophenolate Mofetil (MMF)   Immunosuppressant   X     141   Tacrolimus   Immunosuppressant   X     142   Cyclophosphamide (CHOP regimen)   Lymphoma / Leukemia   X     143   Doxorubicin (CHOP regimen)   Lymphoma / Leukemia   X     144   Mechlorethamine (MOPP regimen)   Lymphoma / Leukemia   X     145   Procarbazine (MOPP regimen)   Lymphoma / Leukemia   X     146   Vincristine (CHOP, MOPP regimen)   Lymphoma / Leukemia   X     147   Ondansetron (oral & inj)   Anti-emetics   X   Yes	134	NPEG-Granulocyte-Colony Stimulating Factor (NPEG-GSCF)	Blood Modifier	X			
137       Blood Factor VIII       Hemophilia       X         138       Anti-inhibitor coagulant complex (FEIBA)       Hemophilia       X         139       Tranexamic Acid       Hemophilia       X         140       Mycophenolate Mofetil (MMF)       Immunosuppressant       X         141       Tacrolimus       Immunosuppressant       X         142       Cyclophosphamide (CHOP regimen)       Lymphoma / Leukemia       X         143       Doxorubicin (CHOP regimen)       Lymphoma / Leukemia       X         144       Mechlorethamine (MOPP regimen)       Lymphoma / Leukemia       X         145       Procarbazine (MOPP regimen)       Lymphoma / Leukemia       X         146       Vincristine (CHOP, MOPP regimen)       Lymphoma / Leukemia       X         147       Ondansetron (oral & inj)       Anti-emetics       X       Yes	135	Blood Factor IX	Hemophilia	X			
138       Anti-inhibitor coagulant complex (FEIBA)       Hemophilia       X         139       Tranexamic Acid       Hemophilia       X         140       Mycophenolate Mofetil (MMF)       Immunosuppressant       X         141       Tacrolimus       Immunosuppressant       X         142       Cyclophosphamide (CHOP regimen)       Lymphoma / Leukemia       X         143       Doxorubicin (CHOP regimen)       Lymphoma / Leukemia       X         144       Mechlorethamine (MOPP regimen)       Lymphoma / Leukemia       X         145       Procarbazine (MOPP regimen)       Lymphoma / Leukemia       X         146       Vincristine (CHOP, MOPP regimen)       Lymphoma / Leukemia       X         147       Ondansetron (oral & inj)       Anti-emetics       X       Yes	136		Hemophilia				
139 Tranexamic Acid     Hemophilia     X       140 Mycophenolate Mofetil (MMF)     Immunosuppressant     X       141 Tacrolimus     Immunosuppressant     X       142 Cyclophosphamide (CHOP regimen)     Lymphoma / Leukemia     X       143 Doxorubicin (CHOP regimen)     Lymphoma / Leukemia     X     Yes       144 Mechlorethamine (MOPP regimen)     Lymphoma / Leukemia     X       145 Procarbazine (MOPP regimen)     Lymphoma / Leukemia     X       146 Vincristine (CHOP, MOPP regimen)     Lymphoma / Leukemia     X       147 Ondansetron (oral & inj)     Anti-emetics     X     Yes							
140     Mycophenolate Mofetil (MMF)     Immunosuppressant     X       141     Tacrolimus     Immunosuppressant     X       142     Cyclophosphamide (CHOP regimen)     Lymphoma / Leukemia     X       143     Doxorubicin (CHOP regimen)     Lymphoma / Leukemia     X     Yes       144     Mechlorethamine (MOPP regimen)     Lymphoma / Leukemia     X       145     Procarbazine (MOPP regimen)     Lymphoma / Leukemia     X       146     Vincristine (CHOP, MOPP regimen)     Lymphoma / Leukemia     X       147     Ondansetron (oral & inj)     Anti-emetics     X     Yes							
141     Tacrolimus     Immunosuppressant     X       142     Cyclophosphamide (CHOP regimen)     Lymphoma / Leukemia     X       143     Doxorubicin (CHOP regimen)     Lymphoma / Leukemia     X     Yes       144     Mechlorethamine (MOPP regimen)     Lymphoma / Leukemia     X       145     Procarbazine (MOPP regimen)     Lymphoma / Leukemia     X       146     Vincristine (CHOP, MOPP regimen)     Lymphoma / Leukemia     X       147     Ondansetron (oral & inj)     Anti-emetics     X     Yes			•				
142       Cyclophosphamide (CHOP regimen)       Lymphoma / Leukemia       X         143       Doxorubicin (CHOP regimen)       Lymphoma / Leukemia       X       Yes         144       Mechlorethamine (MOPP regimen)       Lymphoma / Leukemia       X         145       Procarbazine (MOPP regimen)       Lymphoma / Leukemia       X         146       Vincristine (CHOP, MOPP regimen)       Lymphoma / Leukemia       X         147       Ondansetron (oral & inj)       Anti-emetics       X       Yes				X			
143     Doxorubicin (CHOP regimen)     Lymphoma / Leukemia     X     Yes       144     Mechlorethamine (MOPP regimen)     Lymphoma / Leukemia     X       145     Procarbazine (MOPP regimen)     Lymphoma / Leukemia     X       146     Vincristine (CHOP, MOPP regimen)     Lymphoma / Leukemia     X       147     Ondansetron (oral & inj)     Anti-emetics     X     Yes	141	Tacrolimus	Immunosuppressant	X			
144     Mechlorethamine (MOPP regimen)     Lymphoma / Leukemia     X       145     Procarbazine (MOPP regimen)     Lymphoma / Leukemia     X       146     Vincristine (CHOP, MOPP regimen)     Lymphoma / Leukemia     X       147     Ondansetron (oral & inj)     Anti-emetics     X     Yes				X			
145     Procarbazine (MOPP regimen)     Lymphoma / Leukemia     X       146     Vincristine (CHOP, MOPP regimen)     Lymphoma / Leukemia     X       147     Ondansetron (oral & inj)     Anti-emetics     X     Yes						Yes	
146     Vincristine (CHOP, MOPP regimen)     Lymphoma / Leukemia     X       147     Ondansetron (oral & inj)     Anti-emetics     X     Yes							
147 Ondansetron (oral & inj) Anti-emetics X Yes							
						**	
148     Prochlorperazine     Anti-emetics     X     Yes       149     Metoclopramide     Anti-emetics     X						Y es	
·							
150 Methylergonovine Pregnancy-related Medication X		, ,					
151 Oxytocin     Pregnancy-related Medication     X       152 Surfactants     Pregnancy-related Medication     X							
152 Surfactants Frieghancy-related Medication X  153 Terbutaline Pregnancy-related Medication X							
154 Fluoxetine     Anti-psychotic     X       155 Haloperidol     Anti-psychotic     X     Yes						Vec	
	156	Olanzapine	Anti-psychotic	X		Yes	



			UMN RDSP	UMN RDSP	ASHP	FDA
Drug	Critical Acute Drugs	Drug Category	List of 156	List of 40	Drug	Drug
#	Generic Name		Critical Acute	Critical	Shortage	Shortage
			Drugs	COVID-19	List	List
				Drugs		
		tical Drugs for Treatment of COVID-19	Patients			
C1	Remdesivir*	Other Critical COVID-19 Drugs		X	Yes	Yes
C2	Lopinavir-Ritonavir	Other Critical COVID-19 Drugs		X		
C3	Oseltamivir	Other Critical COVID-19 Drugs		X		
C4	Chloroquine	Other Critical COVID-19 Drugs		X		
C5	Droperidol	Other Critical COVID-19 Drugs		X	Yes	
C6	Etomidate	Other Critical COVID-19 Drugs		X		
C7	Fluconazole	Other Critical COVID-19 Drugs		X		
C8	Vitamin C	Other Critical COVID-19 Drugs		X		
# of Drugs on Critical List 156 40						
# of Drugs in Shortage (ASHP) 68 24					70	
% of Drugs in Shortage (ASHP) 43.6% 60.0%						
# of Drugs in Shortage (FDA) 34 13						35
		% of Drugs in Shortage (FDA)	21.8%	32.5%		

## Resilient Drug Supply Project (RDSP)

The Resilient Drug Supply Project is a research program of the University of Minnesota's CIDRAP and the PRIME Institute.

The RDSP has been funded by a generous gift from the Walton Family Foundation

## **UMN RDSP List of 156 Critical Acute Drugs**

<u>Critical Acute Drugs</u> are drugs that "when medically needed in acute care must be available and used within hours or days of the need or the patient will suffer serious outcomes which may include disability or death. Absence of a Critical Acute Drug, or lack of availability of an effective substitute, may cause serious health outcomes or limited ability to provide humane care."

Source of Critical Acute Drug List: Created by an expert panel convened by the Univ, of Minnesota's RDSP on December 11 & 12, 2018.

Participating experts came from government, academia, and the private sector and represented the fields of pharmacy, medicine, nursing, public health, others in clinical health care, pharmaceutical supply chains, emergency preparedness and response, emergency medical services, and drug distribution.

## **UMN RDSP List of 40 Critical COVID-19 Drugs**

<u>Critical COVID-19 Drugs</u>: drugs used in the active treatment of COVID-19 positive patients or their COVID-19 related symptoms. <u>Source of Critical COVID-19 Drug List</u>: Created by the Univ. of Minnesota's Resilient Drug Supply Project staff in January of 2020.

- "Yes" means that a drug is on the active shortage list named at the top of the column (either ASHP or FDA).
- \* Remdesivir (Gilead) has been approved by the FDA for treatment of COVID-19 requiring hospitalization in adults and pediatric patients age 12 and older.
- \*\* Highly Active Anti-Retroviral Therapies (HAART) and particularly agents used for post-exposure prophylaxis (PEP) are included on the critical acute drug list.
- ( ) Information in parentheses after a drug name indicates a specific dosage form, strength or product name that is of interest on the Critical List.

ASHP Drug Shortage List: Drug shortages reported by the American Society of Health Systems can be found at: https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortages-List?page=CurrentShortages&loginreturnUrl=SSOCheckOnly

FDA Drug Shortage List: Drug shortages reported by the U.S. Food & Drug Administration can be found at: <a href="https://www.accessdata.fda.gov/scripts/drugshortages/default.cfm">https://www.accessdata.fda.gov/scripts/drugshortages/default.cfm</a>





<sup>&</sup>quot;X" means that a drug is on the list named at the top of the column.