

12 May 2023 EMA/285556/2022 Rev.2¹² European Medicines Agency

List of critical medicines for COVID-19 pu (EU) 2022/123

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health mergency (PHE) under Regulation

Regulation (EU) 2022/123 provides the Europ nationally authorised medicinal products for h

Medi

Age. The a framework to monitor and mitigate potential and actual shortages of centrally and lered as critical to address a given 'public health emergency' or 'major event' [2].

As further defined in the Regulation Medicinal Products (MSSG) is rehealth emergency critical medicine

ig the record of a public health emergency, the Executive Steering Group on Shortages and Safety of oth list of medicinal products considered to be critical during the public health emergency (the 'public



¹ This document was up er 2022 to include COVID-19 Vaccine (inactivated, adjuvanted) Valneva, VidPrevtyn Beta and the adapted vaccines Spikevax and Comirnaty (which were authorised after adopted vaccines Spikevax and Comirnaty (which were authorised after adopted vaccines Spikevax and Comirnaty (which were authorised after adopted vaccines Spikevax and Comirnaty (which were authorised after adopted vaccines Spikevax and Comirnaty (which were authorised after adopted vaccines Spikevax and Comirnaty (which were authorised after adopted vaccines Spikevax and Comirnaty (which were authorised after adopted vaccines Spikevax and Comirnaty (which were authorised after adopted vaccines Spikevax and Comirnaty (which were authorised after adopted vaccines Spikevax and Comirnaty (which were authorised after adopted vaccines Spikevax and Comirnaty (which were authorised after adopted vaccines Spikevax and Comirnaty).

² This document was updated in April 2023 to include Bimervax which was authorised on 30 March 2023.

^[1] public health emergency' means a public health emergency recognised by the European Commission in accordance with Decision No 1082/2013/EU

^[2] major event' means an event which is likely to pose a serious risk to public health in relation to medicinal products in more than one Member State. Such an event concerns a deadly threat or otherwise serious threat to health of biological, chemical, environmental or other origin or incident that can affect the supply, demand or quality, safety, and efficacy of medicinal products. Such an event may lead to shortages of medicinal products in more than one Member State and necessitates urgent coordination at Union level in order to ensure a high level of human health protection according to Article 2(b) of Regulation (EU) 2022/123.

On 7 June 2022, the MSSG adopted a list of authorised medicines considered critical for the management and prevention of COVID-19 <u>and</u> for which supply and demand will be closely monitored in EU/EEA countries.

Given the current stage of the COVID-19 pandemic, the list of critical medicines includes all authorised COVID-19 vaccines (Table 2), and will be subject to update when necessary, to take into account any changes in COVID-19 miology in EU/EEA which may give rise to an increased risk of shortages of particular medicines or following the authorisation of new medicines he will remain in place until the end of the public health emergency.

The MSSG adopted the list after consultation with the Medicines Shortages SPOC Working Party (SP Wr), an her relev ups, including the Emergency Task Force (ETF), EMA's Patients' and Consumers' Working Party (PCWP) and Heaver Professional Orking Party (HCPWP) and EU Industry (Trade) Associations.

Supply and demand of the medicines included in the list will be closely monitore that potent fortage can be avoided or managed early. Marketing authorisation holders for medicines on the list will regularly provide EMA with info ion on pote existing shortages, including available stocks and forecasts of supply and demand. In addition, national competent authorisation to provide regular reports on estimated demand for these medicines at national level. Medicines for which mand is polywill be discussed by the MSSG who will decide on the need for further actions.

The list does not pre-empt or reflect national procure ant decision show the read as recommendations on national stockpiles.

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Table 1. List of critical medicines for COVID-19 public health emergency - authorised COVID-19 vaccines

Product name	International non- proprietary name (INN) or common name	Active substance	Pharmaceutic m(s)	Route of administration	Strengths
Comirnaty	Tozinameran/ riltozinameran and tozinameran/ famtozinameran and tozinameran/ COVID-19 mRNA Vaccine (nucleoside modified)	Single-stranded, 5'-capped messenger RNA produced using a cell-free <i>in vitro</i> transcription from the corresponding the viral spike protein of SARS-CoV-2	dispersion injection;	Parenteral	All
COVID-19 Vaccine (inactivated, adjuvanted) Valneva	COVID-19 vaccine (inactivated, adjuvanted, adsorbed)	SARS-CoV- strain hC 9 / Ital, IMI1 / 2020	Suspension for injection	Parenteral	All
Jcovden (previously COVID-19 Vaccine Janssen)	COVID-19 vaccine (Ad26.COV2-S [recombinant])	denovirus oding the SARS-glycoprotein (Ad26.COV2-S)	Suspension for injection	Parenteral	All
Nuvaxovid	COVID-19 V (recombinan)	S V-2 recombinant spike protein	Dispersion for injection	Parenteral	All
Spikevax (previously COVID-19 Vaccine Moderna)	d elaso n/ vesomer nd mera C nRNA vaccine (nucleoside-modified)	CX-024414 (single-stranded, 5'-capped messenger RNA (mRNA) produced using a cell-free <i>in vitro</i> transcription from the corresponding DNA templates, encoding the viral spike (S) protein of SARS-CoV-2)	Dispersion for injection	Parenteral	All

Product name	International non- proprietary name (INN) or common name	Active substance	Pharmaceutical form(s)	Route of administration	Strengths
Vaxzevria (previously COVID-19 Vaccine AstraZeneca)	COVID-19 Vaccine (ChAdOx1-S [recombinant])	ChAdOx1-SARS-COV-2	Suspension for ir on	Parenteral	All
VidPrevtyn Beta	COVID-19 Vaccine (recombinant, adjuvanted)	SARS-CoV-2 prefusion Spike delta TM protein, recombinant (B.1.351 strain)	Sc n emulsion mulsion ection	Parenteral	All
Bimervax	COVID-19 Vaccine (recombinant, adjuvanted)	SARS-CoV-2 virus recombinant spike protein receptor binding domain (RBD) fusion heterodimer – B.1.351-B.1.1.7 strains	r sion for it ction	Parenteral	All

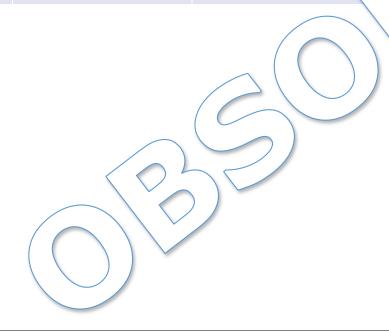


Table 2. List of critical medicines for COVID-19 public health emergency - authorised COVID-19 therapeutics

Product name	International non- proprietary name (INN) or common name	Active substance(s)	Pharmaceutical form(s)	Route of administration	Strengths
Dexamethasone- containing medicines ^{3,4}	Dexamethasone	Dexamethasone	Tablet; Oral solution tion for injection; Solution on injection	1, Parenteral	All
Evusheld	Tixagevimab/ Cilgavimab	Tixagevimab/ Cilgavimab	Solution njection	Parenteral	All
Kineret	Anakinra	Anakinra	Solution	Parenteral	All
Paxlovid	PF-07321332/Ritonavir	PF-07321332 ⁵ / Ritonav	Film-coated t	Oral	All
Regkirona	Regdanvimab	Regdanvin	Co. crate for solution for infusion	Parenteral	All
RoActemra	Tocilizumab	T ma	Solution for injection; Concentrate for solution for infusion	Parenteral	All
Ronapreve	Casirivimab/Imdevimab	Imdevin	Solution for injection/infusion	Parenteral	All
Veklury	Remdesivir	lemdesivir	Powder for concentrate for solution for infusion	Parenteral	All
Xevudy	otrovima	Sotrovimab	Concentrate for solution for infusion	Parenteral	All

³ As per <u>Article 57. database</u>.

⁴ All dexamethasone-containing medicines will be monitored, even though not all have currently an authorisation for COVID-19 (1R,2S,5S)-N-((1S)-1-Cyano-2-((3S)-2-oxopyrrolidin-3-yl)ethyl)-3-((2S)-3,3-dimethyl-2-(2,2,2-trifluoroacetamido) butanoyl)-6,6-dimethyl-3-azabicyclo[3.1.0]hexane-2-carboxamide; Nirmatrelvir