	Pfizer-BioNTech (Comirnaty)	Moderna	Janssen (Johnson&Johnson)
DOSING	30 mcg 10 mcg (age 5-11y) pending*	100 mcg (initial dose and additional dose for immunocompromised)	5X10 ¹⁰ particles
		50 mcg (booster dose)	
MECHANISM	mRNA: gives cells instructions for how to make harmless protein to break down covid-19	mRNA: gives cells instructions for how to make harmless protein to break down covid-19	Vector Vaccine: modified version of a virus to give instructions to the body to break down covid-19
AUTHORIZATION	5-11y pending 12-15y EUA 16y+ FDA approved	18y+ EUA	18y+ EUA
Dosing	(Comirnaty) 2 doses, 21 days apart	2 doses, 28 days apart	1 dose
Additional dose to help those with immune- compromised systems (eg. cancer, autoimmune conditions)	Additional dose 4 weeks after completion of second dose	Additional dose 4 weeks after completion of second dose (full strength)	No recommendation
Booster dose to "boost" the immune system response (recommended for age 65y+, residents of long term care facilities, 18y+ with underlying medical conditions, those in high risk exposure groups)	Booster dose 6 months after completion of 2 dose series	Booster dose (1/2 strength) 6 months after completion of 2 dose series	Booster dose 2 months after completion of initial dose

Serious health problems are very rare

- Anaphylaxis (severe allergic reaction) may happen with any vaccination or medication and is very rare after COVID-19
 vaccination:
 - o 2 to 5 people per 1,000,000
- Thrombosis and thrombocytopenia syndrome (blood clotting and low platelet count) is rare:
 - 47 confirmed cases in 15,300,000 doses of J&J administered (as of October 20, 2021)
 - o 2 confirmed cases in 394,000,000 doses of Moderna vaccines (no increased risk)
 - Women under 50 years of age should be aware of this very rare risk
 - Myocarditis and Pericarditis (heart muscle inflammation and heart lining inflammation) is rare:
 - 963 confirmed cases in 414,000,000 doses administered, still being investigated if the conditions are related to the COVID-19 vaccines
- Report of death after COVID-19 vaccination is very rare:
 - o 0.0022% (9,143 reports of death in over 414,000,000 doses administered in the US)
 - o Reports of death does not mean that the vaccine was the direct cause

Source: CDC (Centers for Disease Control and Prevention)

Medications for Treatment of COVID-19 – updated October 15, 2021

Medication	Type of medication	Recommendations	Notes
Dexamethasone	Corticosteroid	Recommendation for use in <u>hospitalized</u> <u>patients requiring</u> <u>oxygen</u> no recommendation for ambulatory care use	
Remdesivir (Veklury)	Antiviral medication for treatment of COVID-19	FDA approved: suggest use with <u>hospitalized</u> <u>patient requiring</u> <u>oxygen but not with</u> <u>critical disease</u> (mechanical ventilation, ECMO) No recommendation for ambulatory care	5 days course, may extend to 10 days Intravenous medication only
Tocilizumab (Actemra)	Interleukin-6 antagonist (blocks IL-6 which is a substance that causes inflammation in the body), also used for rheumatoid arthritis, interstitial lung disease	EUA: suggest use <u>with</u> <u>corticosteroids in</u> <u>hospitalized patients</u> <u>requiring oxygen</u>	8mg/kg/dose IV x1, may repeat x1 after 8 hours
Sarilumab (Kevzara)	Interleukin-6 antagonist (blocks IL-6 which is a substance that causes inflammation in the body), also used for rheumatoid arthritis	EUA: suggest use <u>with</u> <u>corticosteroids in</u> <u>hospitalized patients</u> <u>requiring oxygen</u>	
Baricitinib (Olumiant)	Disease-modifying antirheumatic drug (DMARD) also used for treatment of rheumatoid arthritis	EUA: suggest use in hospitalized patients requiring oxygen	4 mg/day up to 14d Most benefit in severe COVID-19 on high-flow oxygen Should not be used with IL-6 inhibitors May be used with remdesivir and corticosteroids
Tofacitinib (Xeljanz)	Disease-modifying antirheumatic drug (DMARD) also used for treatment of rheumatoid arthritis, ulcerative colitis, psoriatic arthritis	EUA: suggest use in hospitalized patients requiring oxygen or high-flow oxygen	Should be used with prophylactic anticoagulation Should not be used with IL-6 inhibitors Trial did not include immunocompromised patients

Bamlanivimab/etesevimab	 Monoclonal antibody for	 EUA: suggest use with	700mg/1400mg IV or SC
Daman vinab/etesevinab	COVID-19	mild-moderate	x 1
		ambulatory disease	
		who are at high risk of	limited data in <18y
		progression to severe	
		disease or for patients	Bamlanivimab
		admitted to the hospital	monotherapy is not
		for reasons other than	recommended for use
		COVID-19	
Casirivimab/imdevimab	Monoclonal antibody for	EUA: suggest use with	600mg/600mg IV or SC
(REGEN-COV)	COVID-19	mild-moderate	······g······g······g······
()		ambulatory disease	limited data in <18y
		who are at high risk of	
		progression to severe	
		disease or for patients	
		admitted to the hospital	
		for reasons other than	
		COVID-19	
Sotrovimab	Monoclonal antibody for	EUA: suggest use with	500 mg IV x 1
	COVID-19	mild-moderate	
		ambulatory disease	limited data in <18y
		who are at high risk of	
		progression to severe	
		disease or for patients	
		admitted to the hospital	
		for reasons other than	
		COVID-19	
-			
Ivermectin (Stromectol)	Antiparasitic medication	Suggest against use	
	used for treatment of	except in clinical trial -	
	scabies, onchocerciasis,	hospitalized and	
	strongyloidiasis	ambulatory care	
Famotidine (Pepcid, Zantac)	Histamine (H2) blocker	Suggest against use	
	used for gastric reflux and	except in clinical trial	
	stomach and small		
	intestine ulcers, available		
	OTC		
Convalescent plasma	Plasma transfusion	Suggest against use in	Was recommended for
	containing antibodies	hospitalized patient	use in hospitalized
	against COVID-19		patients in early
		Only for use in clinical	treatment
		trials in ambulatory	
		care	
Hydroxychloroquine	Disease-modifying	Recommend against	Emergency
	antirheumatic drug	use – ambulatory and	authorization in early
	(DMARD) used in	hospitalized	2020, authorization
	treatment of malaria,		revoked June 15, 2020
	lupus, rheumatoid arthritis		
Lopinavir/ritonavir	Protease inhibitors used in	Recommend against	
	treatment of HIV	use – ambulatory and	
		hospitalized	

Sources: IDSA (Infectious Diseases Society of America); FDA (Food and Drug Administration), Epocrates