

## Comparing COVID-19 Vaccines

	Pfizer	Moderna	Johnson & Johnson
<b>Emergency Use Authorization (EUA) Date*</b>	December 11, 2020	December 18, 2020	February 27, 2021
<b>Dosage</b>	Two doses, 21 days apart	Two doses, 28 days apart	One dose
<b>Time to full protection</b>	Two weeks after second shot	Two weeks after second shot	Two weeks after shot
<b>Who can get it</b> <i>Talk to your doctor if you are pregnant or breastfeeding, or if you have any serious allergies.</i>	People 12 and older	People 18 and older	People 18 and older
<b>What it does</b>	The vaccine contains messenger RNA (mRNA). mRNA is like an instruction manual. It teaches your body how to make a harmless protein (spike protein) that looks like a protein on this coronavirus. The spike protein gets displayed on the cell surface. Your body responds to	The vaccine contains messenger RNA (mRNA). mRNA is like an instruction manual. It teaches your body how to make a harmless protein (spike protein) that looks like a protein on this coronavirus. The spike protein gets displayed on the cell surface. Your body responds	The vaccine contains a harmless cold virus that contains DNA instructions to make a harmless protein that looks like a protein (spike protein) on this coronavirus. The spike protein gets displayed on the cell surface. Your body responds to the protein and

	the protein and creates disease-fighting cells and antibodies that can recognize and fight this coronavirus.	to the protein and creates disease-fighting cells and antibodies that can recognize and fight this coronavirus.	creates disease-fighting cells and antibodies that can recognize and fight this coronavirus.
<b>What it doesn't do</b>	None of the vaccines change your DNA or genetic material. They do not go into the nucleus of your cells (where your DNA lives). They do not cause infertility.		
<b>What's in it</b>	The vaccine contains mRNA and ingredients to help mRNA work in your body: fats, potassium, organic compounds to protect mRNA from too much acid, salt, and sugar.	The vaccine contains mRNA and ingredients to help mRNA work in your body: fats, potassium, organic compounds to protect mRNA from too much acid, salt, and sugar.	The vaccine contains modified adenovirus (a type of cold virus but with no cold virus DNA in it) with information from the coronavirus on it. It also contains ingredients that help keep the vaccine stable: salts, sugars, and other organic compounds.
<b>What isn't in it</b>	None of the vaccines contain coronavirus, and they can't give you COVID-19. They do not contain eggs, preservatives, latex, fetal cells, or pork or other animal products. COVID-19 vaccines do not contain a microchip to track people.		
<b>How well it works</b>	All three authorized vaccines have been tested to make sure they are safe. They are all effective at preventing serious illness, hospitalization, or death from COVID-19.		
<p><i>*In a public health emergency, manufacturing and approval of vaccines can be streamlined through an Emergency Use Authorization (EUA). An EUA does not affect vaccine safety, because it does not impact development. Instead, it speeds up manufacturing and administrative processes. Companies may begin manufacturing a vaccine why it is still in development or being tested. All vaccines follow the same testing process, whether they are approved for emergency use or through a standard approval process.</i></p>			

Who participated in the Phase 3 Clinical Trials			
	Pfizer	Moderna	Johnson & Johnson
<b>Number of volunteers</b>	About 45,000	About 30,000	About 40,000
<b>Race/Ethnicity</b>	Black or African American: 10% Hispanic/Latinx: 26% Asian: 5% Native American: 1.3%	Black or African American: 10% Hispanic/Latinx: 20% Asian: 4% Native American: 1.3%	Black or African American: 19% Hispanic/Latinx: 45% Asian: 2.6% Native American: 9%
<b>Age Range</b>	12 – 56+ 21% were 65+	18 – 65+ 25% were 65+	18 – 65+ 20% were 65+
<b>Underlying Health Conditions</b> <i>Percentage of clinical trial participants that had at least one health condition that increases the risk of severe COVID-19 disease, such as obesity, diabetes, lung disease, or high blood pressure</i>	About 46%	About 26%	About 38.7%
<b>Global Participation</b>	76.7% of participants were from the US, 15.3% from Argentina, 6.1% from Brazil, and 2% from South Africa.	Moderna was only tested in the United States	About 47% of study participants were from the United States, 17.3% in Brazil, 12.7% in South Africa, and remaining from Chile, Argentina, Colombia, Peru, and Mexico

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