

ACAAI COVID-19 VACCINE COMPARISON CHART – 3/3/21

Vaccine	Pfizer-BioNTech	Moderna	J&J Vaccine
Mechanism of action	Vaccine contains 30 mcg of a nucleoside-modified messenger RNA (mod RNA) encoding the viral spike (S) glycoprotein of SARS-CoV-2	Vaccine contains 100 mcg of nucleoside-modified messenger RNA (mRNA) encoding the pre-fusion stabilized Spike glycoprotein (S) of SARS-CoV-2 virus.	Replication-incompetent adenovirus type 26 (Ad26)- vector vaccine encoding a stabilized variant of the SARS-CoV-2 S protein
Dose	0.3 ml	0.5 ml	0.5 ml
Schedule	2 doses ,21 days apart	2 doses, 28 days apart	1 dose
Storage	<p>1. Vials must be kept frozen between -80°C to -60°C (-112°F to -76°F) and protected from light.</p> <p>2. If an ultra-low temperature freezer is not available, the thermal container may be used as temporary storage</p> <p>3. Thaw and then store undiluted vials in the refrigerator [2°C to 8°C (35°F to 46°F)] for up to 5 days (120 hours)</p> <p>4 For immediate use, thaw undiluted vials at room temperature [up to 25°C (77°F)] for 30 minutes.</p> <p>5. Undiluted vials may be stored at room temperature for no more than 2 hours.</p>	<p>1. Vaccine multiple-dose vials are stored frozen between -25° to -15°C (-13° to 5°F) protected from light, .</p> <p>2. Do not store on dry ice or below -40°C (-40°F).</p> <p>3. Vials can be stored refrigerated between 2° to 8°C (36° to 46°F) for up to 30 days prior to first use.</p> <p>4. Unpunctured vials may be stored between 8° to 25°C (46° to 77°F) for up to 12 hours.</p> <p>5. After the first dose has been withdrawn, the vial should be held between 2° to 25°C (36° to 77°F). Discard vial after 6 hours. Do not refreeze</p>	<p>1. Stored at 2°C to 8°C (36°F to 46°F)] in a multi-dose vial containing 5 doses, protected from light.</p> <p>2. Unpunctured vials may be stored between 9°C to 25°C (47°F to 77°F) for up to 12 hours.</p> <p>2. After withdrawal of first dose, the vial should be held between 2° to 8°C (36° to 46°F) for up to 6 hours or at room temperature for up to 2 hours.</p>
Age approved	16 and up	18 and up	18 and up
Efficacy against Moderate to Severe COVID19	<p>7 days after second dose.</p> <p>18 -64 years- 95.1%</p> <p>65 years and above 94.7%</p>	<p>14 days after second dose.</p> <p>18 - < 65 years – 95.6 %</p> <p>>65 years– 86.4 %</p>	<p>28 days after dose</p> <p>18- 59 years – 66.1%</p> <p>>60 years – 66.2 %</p> <p>USA 72.0%</p> <p>South Africa 64.0%</p> <p>Brazil 68 .1 %</p>
VAERS	Mandatory Reporting of adverse events Including MIS, hospitalization/ fatal COVID	Mandatory Reporting of adverse events including MIS, hospitalization/ fatal COVID	Mandatory Reporting of adverse events including

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Solicited adverse reactions within 7 days after each dose.	<p>Lasted 2-3 days, more adverse reactions after second dose</p> <table border="1"> <tr> <td>Dose (%)</td> <td>1</td> <td>2</td> </tr> <tr> <td>Pain at site</td> <td>83.1</td> <td>77.98</td> </tr> <tr> <td>Fatigue</td> <td>47.4</td> <td>59.4</td> </tr> <tr> <td>Headache</td> <td>41.9</td> <td>51.7</td> </tr> <tr> <td>Myalgia</td> <td>21.3</td> <td>37.3</td> </tr> <tr> <td>Chills</td> <td>14.0</td> <td>35.1</td> </tr> <tr> <td>Arthralgia</td> <td>11.0</td> <td>21.9</td> </tr> </table>	Dose (%)	1	2	Pain at site	83.1	77.98	Fatigue	47.4	59.4	Headache	41.9	51.7	Myalgia	21.3	37.3	Chills	14.0	35.1	Arthralgia	11.0	21.9	<p>Lasted 2-3 days, more adverse reactions after second dose</p> <table border="1"> <tr> <td>Dose (%)</td> <td>1</td> <td>2</td> </tr> <tr> <td>Pain at site</td> <td>86.9</td> <td>89.9</td> </tr> <tr> <td>Fatigue</td> <td>38</td> <td>67.6</td> </tr> <tr> <td>Headache</td> <td>24.5</td> <td>19.3</td> </tr> <tr> <td>Myalgia</td> <td>23.7</td> <td>61.6</td> </tr> <tr> <td>Chills</td> <td>9.2</td> <td>8.6</td> </tr> <tr> <td>Arthralgia</td> <td>16.6</td> <td>45.5</td> </tr> </table>	Dose (%)	1	2	Pain at site	86.9	89.9	Fatigue	38	67.6	Headache	24.5	19.3	Myalgia	23.7	61.6	Chills	9.2	8.6	Arthralgia	16.6	45.5	(%) <table border="1"> <tr> <td>Pain</td> <td>48.6%</td> </tr> <tr> <td>Erythema</td> <td>7.3</td> </tr> <tr> <td>Swelling</td> <td>5.3</td> </tr> <tr> <td>Headache</td> <td>38.9</td> </tr> <tr> <td>Fatigue</td> <td>38.2</td> </tr> <tr> <td>Myalgia</td> <td>33.2</td> </tr> <tr> <td>Nausea</td> <td>14.2</td> </tr> <tr> <td>Fever</td> <td>9.0</td> </tr> </table>	Pain	48.6%	Erythema	7.3	Swelling	5.3	Headache	38.9	Fatigue	38.2	Myalgia	33.2	Nausea	14.2	Fever	9.0
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Unsolicited	<p>12 cases of appendicitis reported</p> <p>Anaphylaxis -reported after EUA with first dose</p>	<p>a). 3 cases of Bell’s palsy reported 22,28, 32 days after vaccination –</p> <p>b). 2 cases Facial swelling in vaccine recipients with history of dermatological fillers in 1-2 days</p> <p>c). 1 case of nausea, vomiting 1 day after vaccination</p> <p>d) allergic reaction being investigated after EUA with first dose</p> <p>e) large local vaccine site reaction onset after day 7/8</p>	<p>a) embolic and thrombotic events- 0.06% of vaccine recipients</p> <p>b) Tinnitus was reported in 6 vaccine recipients</p> <p>c) angioedema 0.2% of vaccine recipients</p> <p>d) urticaria</p> <p>e) arthritis 0.5%</p> <p>f) peripheral neuropathy 0.2%</p>																																																										
Ingredients	<p>1. Lipids - 0.43 mg (4-hydroxybutyl) azanediyl), bis(hexane-6,1-diyl)bis(2-hexyldecanoate), 0.05 mg 2[(polyethylene glycol)-2000], N,N-ditetradecylacetamide, 0.09 mg 1,2-distearoyl-sn-glycero-3-phosphocholine, 0.2 mg cholesterol)</p> <p>2. 0.01 mg potassium chloride, 3.0.01 mg monobasic potassium phosphate</p>	<p>1. Lipids- 1.93 mg (SM-102, polyethylene glycol [PEG] 2000,dimyristoyl glycerol [DMG], cholesterol,1,2-distearoyl-sn-glycero-3-phosphocholine [DSPC])</p> <p>2. 0.31 mg tromethamine,</p> <p>3. 1.18 mg tromethamine hydrochloride,</p> <p>4..043 mg acetic acid,</p> <p>0.12 mg sodium acetate</p> <p>5.43.5 mg sucrose.</p>	<p>1. Polysorbate 80</p> <p>2. Citric acid mono hydrate</p> <p>3. Trisodium citrate dihydrate</p> <p>4. Hydroxypropyl Sodium chloride</p> <p>5. Sodium hydroxide</p> <p>6. Hydrochloric acid</p>																																																										

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	4. 0.36 mg sodium chloride 5. 0.07 mg dibasic sodium phosphate dihydrate, 6. 6 mg sucrose		
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