

# US Military COVID-19 Statistics

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“Military” herein refers to the Army, Navy, Marine Corps, Air Force and Space Force and includes Active Duty, Reserves, and National Guard, unless otherwise indicated. The Coast Guard and Federal Civil Servants also remain under COVID-19 vaccine mandates but are not included herein due to my own resource constraints.

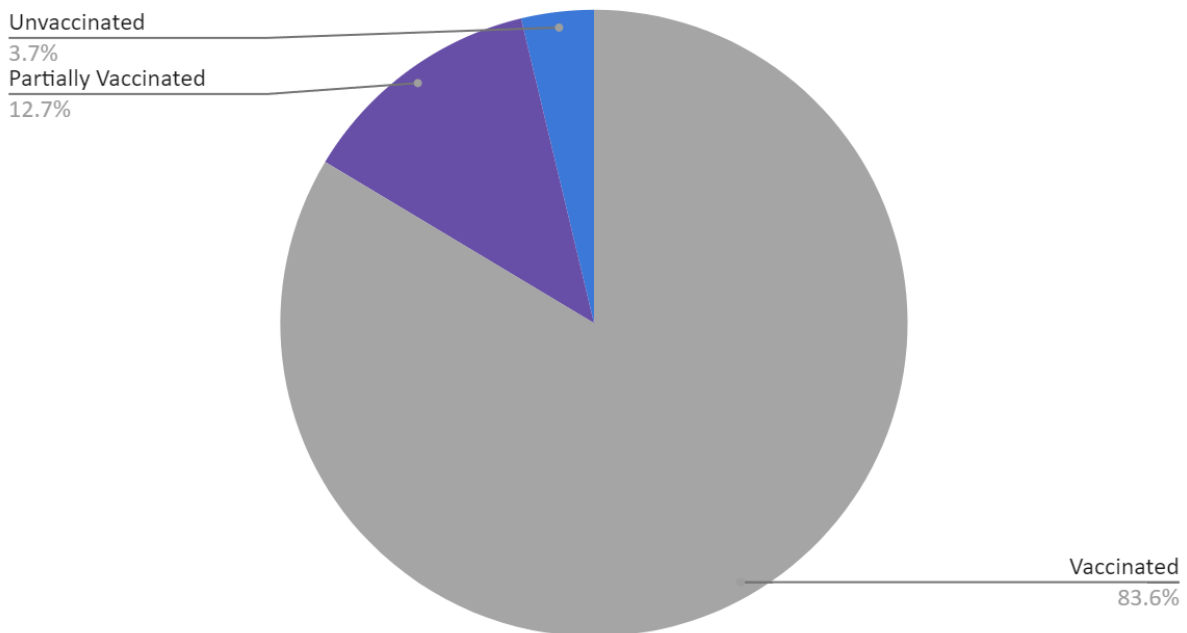
“Vaccinated” or “Vaccine Compliant” are those service members with one dose of a single-dose regimen (Johnson & Johnson) or two doses of a two-dose regimen (gray in the chart below). There are no current DOD-wide mandates for boosters.

“Partially Vaccinated” are those service members with one dose of a two-dose regimen (purple in the chart below); these service members are included in the “Non-Compliant” population group.

“Unvaccinated” are those service members who have not received any doses of COVID-19 vaccine (blue in the chart below); these service members are included in the “Non-Compliant” population group.

“Non-Compliant” are those service members who are at risk of discharge due to their vaccination status; the sum of both Partially Vaccinated and Unvaccinated populations (purple and blue in the chart below)

### Military Vaccination Status



**Question 1.** How many vaccine non-compliant service members have been infected with COVID-19 and, therefore, have natural immunity?

**Answer 1.** An estimated 70,000 non-compliant service members have had COVID-19 and, therefore, have natural immunity.

**Question 2.** How many unvaccinated service members have been infected with COVID-19 and, therefore, have natural immunity?

**Answer 2.** An estimated 16,000 unvaccinated service members have had COVID-19 and, therefore, have natural immunity.

**Question 3.** How many service members have died from COVID-19?

**Answer 3.** 95 out of a current population of 2,092,192

**Question 4.** How many service members have been discharged as a result of their refusal to submit to COVID-19 vaccination?

**Answer 4.** As of July 2022, 6,748 service members have been discharged as a result of their refusal to submit to COVID-19 vaccination.

**Question 5.** How many service members are currently at risk of discharge?

**Answer 5.** 343,065 service members are vaccine non-compliant and therefore at risk of discharge. Approximately 2,300 are protected from discharge by approved exemptions/accommodations.

**Question 6.** How many permanent exemption/accommodation requests have been approved?

**Answer 6.** Approximately 200 religious accommodations and 2,100 medical and other administrative exemptions have been approved, 2,300 total approvals.

**Question 7.** What proportion of non-compliant service members await disposition of their exemption/accommodation requests?

**Answer 7.** Of the 343,065 non-compliant service members, approximately 18,000 await disposition of their exemption/accommodation requests.

**Question 8.** How have the rates of vaccination changed between June and July 2022?

**Answer 8.** 31,191 service members became fully vaccinated in July 2022.

**Question 9.** What is the mortality rate for COVID-19 among service members?

**Answer 9.** 1.9 per 100,000 per year

**Question 10.** How does the mortality rate of 1.9 per 100,000 per year compare to mortality rates in the general population?

**Answer 10.** The mortality rate from COVID-19 among service members would rank 14th compared to mortality rates in the general US population between the ages of 18 and 55. The flu and pneumonia rank 11th at 3.0 per 100,000.

**Question 1. How many vaccine non-compliant service members have been infected with COVID-19 and, therefore, have natural immunity?**

**Answer 1. An estimated 70,000 non-compliant service members have had COVID-19 and, therefore, have natural immunity.**

Explanation 1. The individual infection and vaccination data necessary for an exact answer to this question is only accessible by military medical personnel with privileged system-of-record access and the “need to know.” The Defense Medical Epidemiology Database (DMED) was queried, but only provides population-wide COVID-19 infection statistics and not vaccination status. Therefore, the above estimate was derived from open source COVID-19 case data (DOD “Coronavirus: DOD Response” website, ref. a) and end-strength reports from Defense Manpower Data Center (DMDC, ref. b).

Transcribed from ref. a (<https://www.defense.gov/Spotlights/Coronavirus-DOD-Response/>), the following table provides a snapshot of military COVID-19 cases as of July 22, 2022:

	<b>Cases</b>	Hospitalized	Recovered	Deaths
Military	<b>428,764</b>	2,712	417,422	95

Notes:

1. Does not distinguish between vaccine compliant or non-compliant populations.
2. Presumably includes multiple cases experienced by the same individual.

Collected from ref. b (“Military and Civilian Personnel by Service/Agency by State/Country,” <https://dwp.dmdc.osd.mil/dwp/app/dod-data-reports/workforce-reports>), the following table reflects current total military end-strength as of May 28, 2022:

	Active	National Guard	Reserve	Total
Army	466,172	333,182	180,647	980,001
Navy	340,390	NA	56,017	396,407
Air/Space Force	329,257	106,964	69,697	505,918
Marine Corps	176,259	NA	33,607	209,866
<b>Total</b>	<b>1,312,078</b>	<b>440,146</b>	<b>339,968</b>	<b>2,092,192</b>

Derived from refs. a and b:

	Fully Vaccinated	Partially Vaccinated	Unvaccinated	<b>Non-compliant</b>
Army	666,574	248,596	64,831	313,427
Navy	384,845	5,272	6,290	11,562
Air/Space Force	497,558	7,871	489	8,360
Marine Corps	200,150	3,091	6,625	9,716
Total	1,749,127	264,830	78,235	<b>343,065</b>

Calculations 1.

Approximate case rate in the military:

428,764 cases per 2,092,192 service members

**20.5 per 100 or 20.5%**

Approximate number of vaccine non-compliant personnel who have had COVID-19:

**.205 x 343,065 = 70,306**

Note: Some proportion of the 428,764 cases reported by the DOD likely represent multiple cases in single individuals. This would have the effect of reducing the case rate per service member and therefore our calculated total of 70,306. As indicated in Answer 1, we recommend rounding this figure to one significant digit (70,000) and referring to it as an estimate based on reported DOD case counts.

**Question 2. How many unvaccinated service members have been infected with COVID-19 and, therefore, have natural immunity?**

**Answer 2. An estimated 16,000 unvaccinated service members have had COVID-19 and, therefore, have natural immunity.**

Explanation 2. The individual infection and vaccination data necessary for an exact answer to this question is only accessible by military medical personnel with privileged system-of-record access and the “need to know.” The Defense Medical Epidemiology Database (DMED) was queried, but only provides population-wide COVID-19 infection statistics and not vaccination status. Therefore, the above estimate was derived from open source COVID-19 case data (DOD “Coronavirus: DOD Response” website, ref. a) and end-strength reports from Defense Manpower Data Center (DMDC, ref. b).

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Notes:

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2. Presumably includes multiple cases experienced by the same individual.

Collected from ref. b (“Military and Civilian Personnel by Service/Agency by State/Country,” <https://dwp.dmdc.osd.mil/dwp/app/dod-data-reports/workforce-reports>), the following table reflects current total military end-strength as of May 28, 2022:

	Active	National Guard	Reserve	Total
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<b>Total</b>	<b>1,312,078</b>	<b>440,146</b>	<b>339,968</b>	<b>2,092,192</b>

Derived from refs. a and b:

	Fully Vaccinated	Partially Vaccinated	<b>Unvaccinated</b>	Non-compliant
Army	666,574	248,596	64,831	313,427
Navy	384,845	5,272	6,290	11,562
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Marine Corps	200,150	3,091	6,625	9,716
Total	1,749,127	264,830	<b>78,235</b>	343,065

## Calculations 2.

Approximate case rate in the military:

428,764 cases per 2,092,192 service members

**20.5 per 100 or 20.5%**

Approximate number of vaccine non-compliant personnel who have had COVID-19:

**.205 x 78,235 = 16,038**

Note: Some proportion of the 428,764 cases reported by the DOD likely represent multiple cases in single individuals. This would have the effect of reducing the case rate per service member and therefore our calculated total of 16,038. As indicated in Answer 2, we recommend rounding this figure to two significant digits (16,000) and referring to it as an estimate based on reported DOD case counts.

**Question 3. How many service members have died from COVID-19?**

**Answer 3. 95 out of a current population of 2,092,192**

Explanation 3. The first death was March 30, 2020; the latest death is believed to be in early 2022, but the specific date is not available outside of military medical systems-of-record.

Transcribed from ref. a (<https://www.defense.gov/Spotlights/Coronavirus-DOD-Response/>), the following table provides a snapshot of military COVID-19 cases as of July 22, 2022:

	Cases	Hospitalized	Recovered	Deaths
Military	428,764	2,712	417,422	<b>95</b>

Note: Does not distinguish between vaccine compliant or non-compliant populations.

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<b>Total</b>	<b>1,312,078</b>	<b>440,146</b>	<b>339,968</b>	<b>2,092,192</b>



**Question 4. How many service members have been discharged as a result of their refusal to submit to COVID-19 vaccination?**

**Answer 4. As of July 2022, 6,748 service members have been discharged as a result of their refusal to submit to COVID-19 vaccination.**

Explanation 4.

Compiled from multiple official sources, the following table reports total discharges by service branch as of July 2022:

Army	1,379
Navy	1,466
Air/Space Force	834
Marine Corps	3,069
<b>Total</b>	<b>6,748</b>

Sources:

Army

[https://www.army.mil/article/258656/department\\_of\\_the\\_army\\_announces\\_total\\_army\\_covid\\_19\\_vaccination\\_statistics](https://www.army.mil/article/258656/department_of_the_army_announces_total_army_covid_19_vaccination_statistics)

Navy <https://www.navy.mil/us-navy-covid-19-updates/>

Air/Space Force <https://www.af.mil/News/Coronavirus-Disease-2019/>

Marine Corps <https://www.marines.mil/Coronavirus/>

### **Talking Point**

As a measure of relative impact on US military readiness between the short-sighted military vaccine mandate and the virus itself, the “discharge to death” ratio provides an easily-cited reference. As of the date of writing, the discharge to death ratio stands at **6,748 discharges to 95 deaths**. This ratio will only grow over time as discharges continue.

### Question 5. How many service members are currently at risk of discharge?

**Answer 5. 343,065 service members are vaccine non-compliant and therefore at risk of discharge. Approximately 2,300 are protected from discharge by approved exemptions/accommodations.**

Explanation 5. Vaccine compliance requires either one dose of a single-dose regimen or two doses of a two-dose regimen no later than service-specific deadlines. The last deadline to expire was for the Army National Guard and Reserves on June 30, 2022.

Derived from refs. a and b:

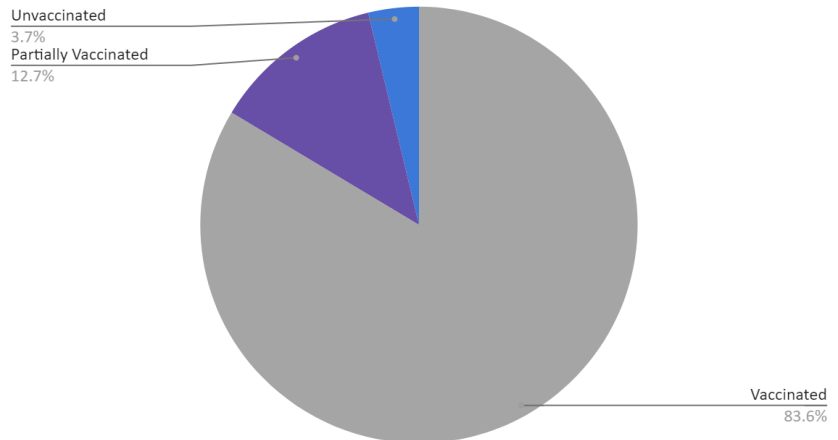
	Fully Vaccinated	Latest Deadline	Partially Vaccinated	Unvaccinated	Non-compliant
Army	666,574	6/30/2022	<b>248,596</b>	64,831	<b>313,427</b>
Navy	384,845	12/28/2021	<b>5,272</b>	6,290	<b>11,562</b>
Air/Space Force	497,558	12/2/2021	<b>7,871</b>	489	<b>8,360</b>
Marine Corps	200,150	12/14/2021	<b>3,091</b>	6,625	<b>9,716</b>
Total	1,749,127		<b>264,830</b>	78,235	<b>343,065</b>

Note: The “Non-compliant” column in this table is the sum of “Partially Vaccinated” and “Unvaccinated” since both populations are non-compliant with DOD policy and at risk of discharge.

#### Talking Point

DOD press releases and public-facing statistics focus on vaccinated and unvaccinated populations. Yet a very large number of service members remain partially vaccinated well after their service-specific vaccination deadlines. Since they are non-compliant, these service members remain at-risk of discharge as a part of the larger non-compliant population.

Military Vaccination Status



**Question 6. How many permanent exemption/accommodation requests have been approved?**

**Answer 6. Approximately 200 religious accommodations and 2,100 medical and other administrative exemptions have been approved, 2,300 total approvals.**

Explanation 6. There is some ambiguity in reporting approved exemptions/accommodations between the service branches. For example, Air Force data does not make clear whether or not their approved exemptions are permanent, temporary, or a combination of both. Due to these ambiguities, we recommend rounding to two significant digits (2,300) and referring to this figure as an estimate.

Compiled from multiple official sources, the following table reports approved exemptions/accommodations by service branch as of July 2022:

	Admin. and Medical	Religious	Total
Army	34	20	54
Navy	22	44	66
Air/Space Force	1,441	135	1,576
Marine Corps	602	7	609
<b>Total</b>	<b>2,099</b>	<b>206</b>	<b>2,305</b>

Sources:

Army

[https://www.army.mil/article/258656/departments\\_of\\_the\\_army\\_announces\\_total\\_army\\_covid\\_19\\_vaccination\\_statistics](https://www.army.mil/article/258656/departments_of_the_army_announces_total_army_covid_19_vaccination_statistics)

Navy <https://www.navy.mil/us-navy-covid-19-updates/>

Air/Space Force <https://www.af.mil/News/Coronavirus-Disease-2019/>

Marine Corps <https://www.marines.mil/Coronavirus/>

**Question 7. What proportion of non-compliant service members await disposition of their exemption/accommodation requests?**

**Answer 7. Of the 343,065 non-compliant service members, approximately 18,000 await disposition of their exemption/accommodation requests.**

Explanation 7. There is significant ambiguity in reporting pending exemptions/accommodations between the service branches. Due to these ambiguities, we recommend rounding to two significant digits (18,000) and referring to this figure as an estimate.

Compiled from multiple official sources, the following table reports all available information regarding exemptions/accommodations by service branch as of July 2022:

	Med/Admin - Approved	Med/Admin - Disapproved	Med/Admin - Requested	Med/Admin - Pending
Army	34	1,011	1,100	55
Navy	22	UNK	UNK	UNK
Air/Space Force	1,441	UNK	UNK	UNK
Marine Corps	602	UNK	UNK	UNK
Sub-Total	2,099	1,011	1,100	55
	Religious - Approved	Religious - Disapproved	Religious - Requested	Religious - Pending
Army	20	1,445	8,000	6,535
Navy	44	UNK	4,244	4,200
Air/Space Force	135	10,488	14,045	3,422
Marine Corps	7	UNK	3,733	3,726
Sub-Total	206	11,933	30,022*	17,883
<b>Grand Total (Pending Exemptions)</b>				<b>17938</b>

Sources:

Army

[https://www.army.mil/article/258656/department\\_of\\_the\\_army\\_announces\\_total\\_army\\_covid\\_19\\_vaccination\\_statistics](https://www.army.mil/article/258656/department_of_the_army_announces_total_army_covid_19_vaccination_statistics)

Navy <https://www.navy.mil/us-navy-covid-19-updates/>

Air/Space Force <https://www.af.mil/News/Coronavirus-Disease-2019/>

Marine Corps <https://www.marines.mil/Coronavirus/>

**Talking Point**

Only .69% (206 of \*30,022 submitted) of religious accommodation/exemption requests have been approved.

**Question 8. How have the rates of vaccination changed between June and July 2022?**

**Answer 8. 31,191 service members became fully vaccinated in July 2022.**

Derived from refs. a and b, the following table contains vaccination data from the end of June and the end of July 2022, demonstrating the change in vaccination status among all categories of service during July 2022:

Vaccination Data as of June 29	Fully Vaccinated	Partially Vaccinated	Unvaccinated	Non-compliant
Army	648,903	262,706	68,392	331,098
Navy	384,241	5,611	6,555	12,166
Air/Space Force	484,767	20,646	505	21,151
Marine Corps	200,025	3,070	6,771	9,841
<b>Total</b>	<b>1,717,936</b>	<b>292,033</b>	<b>82,223</b>	<b>374,256</b>
as of July 27				
Army	666,574	248,596	64,831	313,427
Navy	384,845	5,272	6,290	11,562
Air/Space Force	497,558	7,871	489	8,360
Marine Corps	200,150	3,091	6,625	9,716
<b>Total</b>	<b>1,749,127</b>	<b>264,830</b>	<b>78,235</b>	<b>343,065</b>
Change				
Army	17,671	-14,110	-3,561	-17,671
Navy	604	-339	-265	-604
Air/Space Force	12,791	-12,775	-16	-12,791
Marine Corps	125	21	-146	-125
<b>Total</b>	<b>31,191</b>	<b>-27,203</b>	<b>-3,988</b>	<b>-31,191</b>

**Question 9. What is the mortality rate for COVID-19 among service members?**

**Answer 9. 1.9 per 100,000 per year**

Explanation 9. The [CDC definition](#) of cause-specific mortality rate is “the mortality rate from a specified cause for a population. The numerator is the number of deaths attributed to a specific cause. The denominator remains the size of the population at the midpoint of the time period. The fraction is usually expressed per 100,000 population.”

Transcribed from ref. a (<https://www.defense.gov/Spotlights/Coronavirus-DOD-Response/>), the following table provides a snapshot of military COVID-19 cases as of July 22, 2022:

	Cases	Hospitalized	Recovered	Deaths
Military	428,764	2,712	417,422	<b>95</b>

Note: Does not distinguish between vaccine compliant or non-compliant populations.

The 1st service member COVID-19 related death was [Mar. 30, 2020](#); date of writing is Aug. 1, 2022. Total pandemic is days 854 or **2.34 years**.

Collected from ref. b (“Military and Civilian Personnel by Service/Agency by State/Country,” <https://dwp.dmdc.osd.mil/dwp/app/dod-data-reports/workforce-reports>), the following table reflects total military end-strength as of as of Aug. 7, 2021 (approx. midpoint):

	Active	National Guard	Reserve	Total
Army	481,593	336,725	186,040	1,004,358
Navy	345,245	NA	57,623	402,868
Air/Space Force	332,174	107,655	70,156	509,985
Marine Corps	180,136	NA	35,468	215,604
<b>Total</b>	<b>1,339,148</b>	<b>444,380</b>	<b>349,287</b>	<b>2,132,815</b>

Calculations 9.

95 deaths / 2,132,815 service members / 2.34 years x 100,000 = 1.9 per 100,000 per year

**Question 10. How does the mortality rate of 1.9 per 100,000 per year compare to mortality rates in the general population?**

**Answer 10. The mortality rate from COVID-19 among service members would rank 14th compared to mortality rates in the general US population between the ages of 18 and 55. The flu and pneumonia rank 11th at 3.0 per 100,000.**

Explanation 10. From Centers for Disease Control and Prevention, National Center for Health Statistics. National Vital Statistics System, Mortality 1999-2020 on CDC WONDER Online Database, released in 2021. <https://wonder.cdc.gov/mcd-icd10.html>

UCD - 15 Leading Causes of Death ↓	Deaths ↑↓	Population ↑↓	Crude Rate Per 100,000 ↑↓
#Accidents (unintentional injuries) (V01-X59,Y85-Y86)	106,533	162,876,824	65.4
#Diseases of heart (I00-I09,I11,I13,I20-I51)	57,086	162,876,824	35.0
#Malignant neoplasms (C00-C97)	56,574	162,876,824	34.7
#Intentional self-harm (suicide) (*U03,X60-X84,Y87.0)	28,752	162,876,824	17.7
#COVID-19 (U07.1)	28,434	162,876,824	17.5
#Assault (homicide) (*U01-*U02,X85-Y09,Y87.1)	19,775	162,876,824	12.1
#Chronic liver disease and cirrhosis (K70,K73-K74)	17,523	162,876,824	10.8
#Diabetes mellitus (E10-E14)	13,167	162,876,824	8.1
#Cerebrovascular diseases (I60-I69)	9,291	162,876,824	5.7
#Chronic lower respiratory diseases (J40-J47)	5,800	162,876,824	3.6
#Influenza and pneumonia (J09-J18)	4,814	162,876,824	3.0
#Septicemia (A40-A41)	4,392	162,876,824	2.7
#Nephritis, nephrotic syndrome and nephrosis (N00-N07,N17-N19,N25-N27)	3,971	162,876,824	2.4
#Essential hypertension and hypertensive renal disease (I10,I12,I15)	2,911	162,876,824	1.8
#Human immunodeficiency virus (HIV) disease (B20-B24)	2,600	162,876,824	1.6

Note: A '#' symbol preceding the label indicates a rankable cause of death. [More information.](#)

Note:

**Query Criteria:**

- Single-Year Ages:** 18 years; 19 years; 20 years; 21 years; 22 years; 23 years; 24 years; 25 years; 26 years; 27 years; 28 years; 29 years; 30 years; 31 years; 32 years; 33 years; 34 years; 35 years; 36 years; 37 years; 38 years; 39 years; 40 years; 41 years; 42 years; 43 years; 44 years; 45 years; 46 years; 47 years; 48 years; 49 years; 50 years; 51 years; 52 years; 53 years; 54 years; 55 years
- Year/Month:** 2020
- Group By:** UCD - 15 Leading Causes of Death