**Table S1.** Gaza Strip population size estimates (2021)

| No | Governorate | Geolocality name | Geolocality type | Population in geolocality (2021) | Number of clusters | Number of households | Code assigned geolocality (survey) | Number of clusters allocated in sample | Number of households selected |
|---|---|---|---|---|---|---|---|---|---|
| 1 | محافظة شمال غزة North Gaza Governorate | North Gaza Governorate | | 416906 | 288 | 71880 | | | |
| 2 | | Um A Nasser | Rural | 5352 | 4 | 923 | 591 | 1 | 7 |
| 3 | | Beit Lahiaبِيت لاهْيا | Urban | 101507 | 70 | 17501 | 588 | 19 | 110 |
| 4 | | Beit بِيت حَانُون Hanoun | Urban | 59022 | 41 | 10176 | | | |
| 5 | | Jabalia مُخَيَّم جَبَالْيا Camp | Camp | 55887 | 39 | 9636 | 590 | 10 | 60 |
| 6 | | Jabaliaجَبَاليا | Urban | 195137 | 135 | 33644 | | | |
| 7 | محافظة غزة Gaza Governorate | Gaza Governorate | | 713488 | 492 | 123015 | | | |
| 8 | | Al Shati مُخَيَّم الشَاطِىء Camp | Camp | 44535 | 31 | 7678 | 593 | 5 | 72 |
| 9 | | Gazaغزّة | Urban | 645576 | 445 | 111306 | 594 | 44 | 235 |
| 10 | | Al مدينة الزهراء Zahra'a City | Urban | 5836 | 4 | 1006 | | | |
| 11 | | Moghraqa Alالمُغْراقَة | Rural | 12527 | 9 | 2160 | 592 | 3 | 16 |
| 12 | | Joh Al جُحْر الدِيك Deek | Rural | 5014 | 3 | 864 | | | |
| 13 | محافظة الوسطى Middle Governorate | Middle Governorate | | 302507 | 209 | 52156 | | | |
| 14 | | Al مُخَيَّم النُصَيْرَات Nuseirat Camp | Camp | 35153 | 24 | 6061 | | | |
| 15 | | Nuseirat Alالنُصَيْرَات | Urban | 60735 | 42 | 10472 | | | |
| 16 | | Al Bureij مُخَيَّم البُرَيْج Camp | Camp | 31030 | 21 | 5350 | 598 | 10 | 79 |
| 17 | | Bureij Alالبُرَيْج | Urban | 17153 | 12 | 2957 | | | |
| 18 | | Zawayda Alالزَوايْدَة | Rural | 26398 | 18 | 4551 | | | |
| 19 | | Deir Al مُخَيَّم دِير البَلح Balah Camp | Camp | 7734 | 5 | 1333 | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **20** | | AL مُخَيَّم المَغَازِي Maghazi Camp | Camp | 20105 | 14 | 3466 | | | |
| **21** | | Maghazi Alالمَغَازِي | Urban | 10707 | 7 | 1846 | | | |
| **22** | | Deir Al دِير البَلح Balah | Urban | 83192 | 57 | 14343 | | | |
| **23** | | Musader Alالمُصَدَّر | Urban | 2865 | 2 | 494 | 601 | 2 | 16 |
| **24** | | Al Salqa وادِي السَلْقَا Valley | Rural | 7435 | 5 | 1282 | 607 | 2 | 36 |
| **25** | محافظة خانيونس Khan Younis Governorate | Khan Younis Governorate | | 413727 | 285 | 71332 | | | |
| **26** | | Qarara Alالقَرَارة | Urban | 32376 | 22 | 5582 | | | |
| **27** | | Khan مخيم خانيونس Younis | Camp | 45970 | 32 | 7926 | 614 | 3 | 87 |
| **28** | | Khanخانيونس Younis | Urban | 228972 | 158 | 39478 | | | |
| **29** | | بَنِي سُهِيلا | Urban | 46257 | 32 | 7975 | | | |
| **30** | | عَبَسَان الجَديدَة | Urban | 10370 | 7 | 1788 | | | |
| **31** | | عَبَسَان الكَبِيرَة | Urban | 29879 | 21 | 5152 | 609 | 2 | 55 |
| **32** | | خُزَاعَة | Rural | 12712 | 9 | 2192 | 615 | 2 | 36 |
| **33** | | الفُخَّارِي | Rural | 7192 | 5 | 1240 | | | |
| **34** | محافظة رفح Rafah Governorate | Rafah Governorate | | 260117 | 179 | 44848 | | | |
| **35** | | Rafahرَفَح | Urban | 191185 | 132 | 32963 | 618 | 13 | 79 |
| **36** | | Rafah مُخَيَّم رَفَح Camp | Camp | 40651 | 28 | 7009 | 619 | 3 | 20 |
| **37** | | Al Nasrالنصر | Urban | 9992 | 7 | 1723 | | | |
| **38** | | Shoka Alالشُوكَة | Rural | 18290 | 13 | 3153 | 616 | 2 | 13 |

**Table S2.** Comparison of vaccination and vaccine hesitancy between 2021 and 2023

| | 2021 survey | | 2023 survey | | |
|---|---|---|---|---|---|
| **Characteristic** | **N = 906**[1] | **95% CI**[2] | **N = 894**[1] | **95% CI**[2] | **p-value** |
| **Received Vaccine** | 49.1% | 43.1%, 55.1% | 63.5% | 59.4%, 67.5% | <0.001 |
| **Vaccine Hesitant** | 34.1% | 28.1%, 40.6% | 31.7% | 27.8%, 35.6% | 0.381 |

[1]% Weighted %
[2]CI = Confidence Interval

**Table S3.** Respondents' self-reported vaccination history

| Variable | Frequency (N=572) [1] | %[2] (95% CI)[3] |
|---|---|---|
| **Manufacturer** | | |
| *Pfizer only* | 335 | 61.7 (56-67) |
| *Sputnik only* | 160 | 24.2 (20-29) |
| *Pfizer/Sputnik* | 3 | 0.5 (0.15-1.8) |
| *Pfizer and other* | 7 | 1.4 (0.59-3.4) |
| *Other combinations* | 67 | 12.1 (9.5-15) |
| **Number of doses** | | |
| *One* | 240 | 43.5 (38-49) |
| *Two* | 290 | 48.6 (43-54) |
| *Three* | 40 | 7.9 (5.4-11) |
| **First dose received** | | |
| 2020 | 58 | 7.6 (5.1-11) |
| 2021 | 340 | 55.8 (50-61) |
| *2022* | 174 | 36.6 (32-42) |
| **Last dose received** | | |
| *2020* | 38 | 6.2 (3.8-9.9) |
| *2021* | 315 | 50.6 (45-56) |
| 2022 | 218 | 42.9 (38-48) |
| *2023* | 1 | 0.2 (0.03-1.6) |

[1] Excludes vaccinations where the manufacturer was unknown (n=7) and vaccinations with suspected date errors where the date of first or last vaccination was prior to 2020 (n=4) and where the date of first vaccination was reported to be after the date of last vaccination (n=12).
[2] Weighted percentage
[3] CI = Confidence Interval

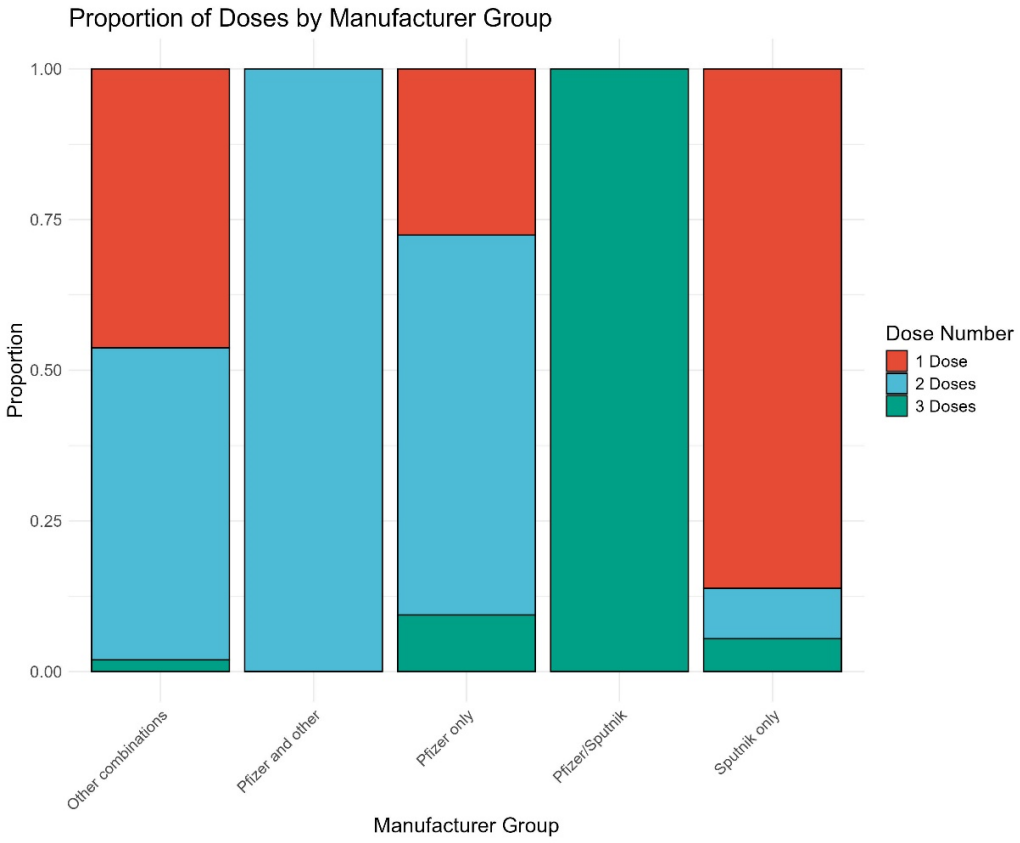


**Figure S1.** Proportion of doses of COVID-19 vaccine received by manufacturer