

Go to <https://github.com/d5mmtu/HamasData> for latest version. This is version 16/03/24

Reference Document: Hamas Data on Violent Deaths in the 2023-24 Gaza War

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NOTE: Sections 5, 6, 7, and 8 conduct analyses using data from Hamas-affiliated institutions such as the Ministry of Health, the Government Media Office, and UNRWA. This data is critiqued in sections 2, 3, 4, 10, and 12 and is found to be of extremely poor quality and probably manipulated. Please treat the results in sections 5 to 8 with due caution. Although we take some steps to mitigate obvious biases and distortions, it is likely that the results in Section 5 to Section 8 still overstate IDF killing of civilians.

NOTE ALSO: Table 5.5 of Section 5 uses a transformation based excess deaths to translate the percentage of women and children killed to an implied estimate of military to civilian deaths. This transformation is founded on reason and logic but contains some strong assumptions. I am looking to improve this transformation, and also to see how accurate the metric is using (more complete/certain/verified) data from other conflicts. Handle the existing metric with care.

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Section 1. Introduction

This document contains twelve sections analysing statistics from various sources about deaths in the 2023-24 Gaza War. The sections are as follows:

- Section 1 is this introductory section.
- Section 2 uses primary source documents from the Gazan Ministry of Health to provide an in-depth analysis of errors and distortions in the Ministry of Health death counts, focussing on the period up to November 11 when they ceased to provide regular daily updates with age and gender breakdowns. The data is of poor quality and contains many anomalies involving male deaths. Although compromised, this data is still significantly better than that of the Government Media Organisation (discussed in Section 3), which takes over from the MoH as the primary source of Gazan casualty data after November 11.
- Section 3 provides a similar analysis for the Government Media Organisation (GMO) data, again using only primary sources. The GMO data contains some significant distortions, especially in early December, when over a thousand men are removed from the database over a series of days, massively inflating the apparent ratio of women and children killed.
- Section 5 conducts a difference-in-difference analysis to look at changes in deaths between the 7th of October, the 10th or 11th of December, and the 31st of December, analysing two different areas of the Gaza Strip covered by two different data sources. We find a much lower ratio of women and children killed than is claimed by the headline figures. **Note: as mentioned on the cover page, Table 5.5 in this section contains a metric of transformation between women and children killed (%) to civ:mil death ratio. This transformation is founded on some strong assumptions, so be cautious with the results.**
- Section 6 looks at the “rates of death” in the Gaza Strip in three different phases of the war. Section 7 looks at the makeup of UNRWA in terms of its staff gender breakdown and levels of Hamas membership and considers those factors in light of UNRWA’s higher-than-population death rate.
- Section 8 considers changes in the composition of violent child deaths in Gaza before and after the 7th of October. Note: as of 14/03/24, this section only considers the war data up to 28-10-24. **It appears some interesting**

developments have occurred with respect to this aspect of the data since then. The ratio of girls to boys killed now seems to be 15% to 20% higher for girls. A higher ratio of girls to boys killed is extremely unusual given patterns in pre-war violent deaths. I will revise this section soon as the trends in the data appear to have changed significantly over the course of the war.

- Section 9 provides and analyses some additional data specific to the bombing of the Al-Ahli hospital on 17 October 2023. Most of the information here has been covered in the media, although there is some useful information that I have not seen elsewhere that provides “smoking gun” evidence the Al-Ahli fake deaths did indeed make their way into cumulative totals.
- Section 10 assesses several Ministry of Health Reports from early 2024 in view of the Ministry’s oft-repeated claim that “approximately 70% of the dead are women and children.” We find that the 70% figure is contradicted by the Ministry’s own data.
- Section 11 follows on from section 10 but replaces the “70% women and children” approximation with matching figures from the GMO that provide exact numbers of women and children dead to fully assess the MoH’s claim without using the 70% approximation. Due to the requirements of the matching between GMO and MOH reports, there are fewer total observations. But the replacement of the 70% approximation with exact numbers enables for a more precise analysis. The results here are astonishing, with absurdly low numbers of reported deaths in some categories.
- Section 12 provides dot point summaries of some interesting online articles from intelligence organisations and the popular press, with web links provided.

In addition to the above sections, this document also contains six appendices.

Appendix 1 contains primary sources for the Ministry of Health analysis in Section 2.

Appendix 2 contains primary sources for the GMO analysis in Section 3. Appendix 3

contains data sources for the differences-in-difference analysis in Section 5. Appendix 4

contains MoH reports relevant to Sections 10 and 11. Appendix 5 contains GMO reports

relevant to section 11.

Section 2: Analysis of Ministry of Health Reports

This section analyses the death counts provided by the Gazan Ministry of Health. Although it references some findings by Epstein (2024 Washington Institute paper) and Aizenberg95 on Twitter, all of these findings are backed up by analysis of the primary sources. The primary sources, drawn exclusively from Ministry of Health reports and the Ministry of Health Telegram feed, are replicated in their entirety in Appendix 1. It is important to note the specificity with which MoH sources are used. Many other agencies, such as UNRWA and OCHA, have re-reported the MoH data at various points in time. However, I have observed several instances in which these data providers actually misreport information from the MoH.¹

In order to understand and assess the MoH data, it is critical to appreciate the claims the MoH makes regarding the thoroughness of its identification and recording process when it comes to dead bodies. The MoH does not claim to be making rough estimates but rather to be counting each and every body only after it is brought to a morgue or health facility. This specificity was demonstrated most significantly in the “names list” document the MoH published on October 26. In this document, 6,747 individual names and identification numbers are provided. The document mentions that another 281 bodies are still unidentified but are in hospitals and counted. The precision the MoH claims should leave little scope for misreporting or subsequent revisions.

It is remarkable, then that despite this claimed precision there are so many obvious contradictions and impossibilities in the MoH’s data:

- Problems begin on the 9th and 10th of October, just a few days into the conflict. On the 9th, the MoH reports a total of 687 dead, including 255 women and children. The next day, the total dead increases to 900, including 490 women and children. Thus the total

¹ Some of these instances can be observed in the Appendix Table at the end of Gabriel Epstein’s *How Hamas Manipulates Gaza Fatality Numbers: Examining the Male Undercount and Other Problems* paper for the Washington Institute, available for free online.

dead has increased by 213 while the women and children dead has somehow increased by 245, implying 32 male deaths removed from the statistics, in turn inflating the ratio of women and children killed.

- The next day, on 11 October, the number of women declines by 59.
- On October 19, the number of non-elderly women is counted at 1,000. The next day, the total women stands at 908, implying a decline of at least 92.
- Via a process of differencing, we can see that on 23 October, the number of elderly (60+) women decreases from a cumulative total of 78 to 37. Thus the total number of dead elderly women diminished literally by half overnight.
- The next day, the number of dead elderly men diminishes by 14, from 180 to 166.
- On the 27th October, the MoH releases one report in its Arabic-language Telegram Channel claiming a total of 7,326 dead, including 1,726 women. Yet in the European-language infographics it released that same day for the western press, the total dead had not changed but the women statistic had been inflated to 1,792.
- Using the differencing method, the total number of dead males *decreased* by 72 on October 29, from 2,231 to 2,159. This was despite the total dead increasing by 679, thanks to huge reported deaths of women and children. This practice of “resurrecting” dead men while reporting hundreds upon hundreds of women and children deaths serves to significantly inflate the reported ratio of dead women and children.
- Between October 27 and October 31, the number of dead elderly men decreases from 265 to 236.
- Between 30 October and 31 October, the number of non-elderly dead women decreases by a huge 207.
- On November 4, the Telegram and Infographics report identical Totals and Children. Yet the Woman dead announced on telegram is 2,509 and the women dead on the Infographics is 2,430
- Between 4 November and 5 November, the number of non-elderly dead men *decreases* from 2,890 to 2,616. This represents over 270 fighting aged males removed from the death counts, the largest decline in the MoH data up until the point where the MoH stops reporting itemised breakdowns.

We also see many incidents in the MoH data that, while not impossible, stretch credulity:

- Between the 21st and 22nd of October, the total number of dead men increases by 15 while the number of dead children increases by 117. As demonstrated by some of the texts referenced in Section 6 of this document, Hamas has a confirmed history of inflating the appearance of civilian deaths in its statistics, and this can of course be done by inflating the ratio of women and children dead.
- On 25 October, 2 elderly women are reported dead compared to 67 elderly men. Hamas has a track record of lying about the age of killed combatants (REFERENCE). It is reasonable to speculate that these 67 dead included younger male combatants whose ages Hamas had lied about.

- Between 28 October and 30 October, 493 non-elderly women and 419 children die compared to only 2 non-elderly men. Such distortions serve to massively inflate the apparent ratio of women and children killed.

As mentioned, the primary sources for all these claims can be found in Appendix 1 of this document.

Section 3: Analysis of Government Media Organisation Reports

Please see Appendix 2 of this document for screen caps of all the primary sources that inform this section on the GMO data. The GMO intermittently published a few infographic and telegram reports at the very start of the conflict, but did not start publishing regular reports until October 30. From October 30 to November 10, the GMOs reports were published concurrently with the MoHs. These reports generally lined up (give or take 10 deaths) in terms of their “Total” death values. Given the operations of the Gazan health system, it is almost certain the numbers were originated by the MoH and then repeated by the GMO.

After November 11, the MoH ceased providing detailed reports that included counts of women and children killed, although it did occasionally provide “Total” death counts. On November 12, the GMO became the sole provider of more detailed reports, via Telegram post and Infographic press releases. The temporary ceasefire between November 24 and November 30 meant there was little reason for changes in the statistics for much of the second half of November.

Possibly the strangest period in any dataset in the conflict occurs between the end of the truce on 30 November and 12 December. In this period, we see not one, not two, but *three* downward revisions of male deaths in close proximity, going from a top of 4,850 on December 1 to a trough of 3,499 on December 8. This implies a total resurrection of 1,351

Gazan males in a single week. During this same period, the total number of women and children dead increases from 10,150 to 13,991, an increase of 3,841 deaths. These thousands of deaths, coupled with the resurrection of over a thousand Gazan males, serves to inflate the women and children killed ratio from 67.67% to 79.99% in the space of a single week. See Figure 3.1 for a visual depiction of the December 1 to December 12 period.

Between December 12 and December 31, there do not appear to be any obvious problems with the GMO data. It should be noted that absence of evidence is not evidence of absence. Moreover, significant problems creep into the GMO dataset again in early January. Nonetheless, this period at least appears to be problem free for the GMO dataset. See Table 3.1 for a breakdown of the whole dataset, as well as Appendix 2 for all the primary sources.

Section 4: Data Quality Between Sources

Table 4.1 compares the number of “downward revisions” in data totals for three sources on violent deaths in Gaza: the Gazan Ministry of Health (MoH), the Gazan Media Office (GMO) and the UN Office for the Coordination of Humanitarian Affairs (OCHA). Although other sections in this document employ primary source data only, in this section (Section 4) the data is sourced from a secondary source, namely the Appendix Tables to the policy note “How Hamas Manipulates Gaza Fatality Numbers” by Gabrial Epstein².

Obviously, cumulative totals of nonnegative integers should either rise or stay the same over time. Downward revisions reflect errors in data gathering and recording. While errors in wartime data are entirely understandable, it is interesting to note the pattern of these errors across categories by age and gender. We see a clear tendency for revisions in Men data versus women, children and elderly, with 14 downward revisions for Men versus 3 for

² Document available at <https://www.washingtoninstitute.org/policy-analysis/how-hamas-manipulates-gaza-fatality-numbers-examining-male-undercount-and-other>

women and 0 for children and elderly. This trend may reflect greater difficulty in recording deaths of males engaged in combat or killed while performing dangerous jobs such as rescue or emergency services work. However, to extend arguments made by Epstein, it may also reflect attempts to suppress the deaths of males (both combatant and civilian), thereby increasing the apparent ratio of women and children killed for propaganda purposes. Again, this is likely to be another area that will require greater investigation after the war.

Table 4.2 considers the mismatch rate in daily “Total” category values between three sources: the MoH, OCHA, and the GMO. None of the three sources have provided consistent daily coverage of deaths over the conflict. However, on many days, two or three of the sources have provided simultaneous updates. The matrix in Panel A provides a count of the number of days when two different data sources updated simultaneously. For instance, there were 37 days on which GMO and the MoH both provided updates. The matrix in Panel B counts days in which data sources provided simultaneous updates but the “Total” category counts did not match. Panel C represents these mismatches as a percentage “rate”. The rate of matches is extremely high between OCHA and the MoH, with less than 8% mismatch rate. This may reflect tighter links between the two sources, with MoH probably functioning as the originator of the data and OCHA as the recipient (given that the MoH accumulates most of its data directly from hospitals). However, this may also be a function of the periods in which the matches are occurring. The lowest match rate occurs between GMO and OCHA, perhaps reflecting the fact that the two sources are more “distant” from the point of recording at hospitals. Again, this may instead be a function of the periods in which the matches are occurring.

Section 5: Psuedo Difference-in-Difference Analysis

This section considers four tables detailing deaths in the Gaza Strip during the 2023/24 war between Israel and Hamas. Note also that all the primary sources for this section are available in Appendix 3 of this document. Table 5.1 and Table 5.2 of this section compare data from two Ministry of Health (MoH) reports, one reported dated 11/12/23 and the other dated 31/12/23. Table 5.1 provides a detailed comparison of deaths recorded at hospitals, and Table 5.2 complements the totals from Table 5.1 with the MoH’s “Media Reports” data (the “Media Reports” figures are estimates of deaths the MoH derives from media reports, rather than from its own hospital records). Table 5.3 compares two daily reports from the Gazan Media Office (GMO), one report dated 10/12/23 and the other report dated 31/12/23. Table 5.4 uses a difference-in-difference approach to compare Tables 5.1 and 5.3.

Two aspects of the data should be noted:

First, the data contains a slight temporal mismatch. The MoH report from the 11/12/23 is being compared with a GMO report from a day earlier, on the 10/12/23. Unfortunately, it appears the GMO did not issue a daily report on the 11th. While this mismatch is regrettable, it is unlikely to explain much of the overall variance observed in this analysis.

Second, the MoH data only represents total deaths in the Gaza Strip up to 10 November 2023. After 10/11/23, the MoH data only represents deaths recorded at a subset of hospitals in the Gaza Strip³. On the other hand, the GMO data claims to consistently report deaths across the entire Gaza Strip. Therefore, in theory, on any given day a value in the GMO data should never exceed the equivalent category value in the MoH data. However, Table 5.4 shows this is not the case, with the MoH reported “Male” dead significantly

³ Table 1 includes subtotals for the relevant hospitals.

exceeding the GMO reported “Male” dead on the 10th of December (the excess is far more than could be explained by a single day’s combat; note that the MoH total also exceed the GMO report from the 12th of December⁴, confirming my claim that this is an error in the MoH and GMO’s data). Gabriel Epstein contends this discrepancy represents an attempt by the GMO to underreport male deaths, thereby inflating the ratio of women and children killed. Epstein suggests this distortion might be a deliberate manipulation for propaganda purposes.

Table 5.1, Table 5.3, and Table 5.4 of this document contain calculations of the percentage of women and children killed in any given period. According to the MoH data in Table 5.1, the implied women and children percent killed between 11/12/23 and 31/12/23 was 53.38%. This figure represents a reasonable decline from the MoH’s reported 60.87% ratio of women and children killed in the preceding 07/10/23 to 10/12/23 period. In the GMO data in Table 5.3, the period between 10/12/23 and 31/12/23 shows a women and children death ratio of only 41.70%, hugely less than the 77.82% figure calculated by the GMO for the preceding 07/10/23 to 10/12/23 period.

Table 5.4 uses a difference in difference approach to calculate an implied women and children death ratio for the deaths recorded at hospitals other than the eight hospitals represented in the MoH data during the period between 11/12/23 and 31/12/23. Here, the women and children dead ratio is only 37.01%. Arguably, this ratio is so low because it reflects deaths in areas that saw ground combat (rather than less precise aerial attacks) during the assessed period. This low percentage significantly contradicts the notion that the IDF is attacking indiscriminately. However, it should be noted that this low percentage derives in large part from the aforementioned anomaly of the MoH reporting 1,585 *fewer* male deaths

⁴ This report for 12 December is included in Appendix 2 of this document.

than the GMO for the 10-11 December period (see calculations in Table 5.4). As mentioned earlier, MoH values should not exceed category-equivalent GMO values as the MoH only covers a subset of hospitals over the period, whereas the GMO covers the entire Gaza Strip.

Finally, Table 5.5 uses the women and children ratios calculated on Table 5.4 to roughly estimate a ratio of civilian to military deaths over the 10 December to 31 December period. As made clear in the table, this approach uses the fact that women and children should make up 75% of the deaths if we consider death to have occurred via e a random sampling of the population, i.e. totally indiscriminate killing (recall that Gaza's population is about 50% children and 25% women). Any deviation from this expectation could be argued to represent deliberate targeting of combatants. Of course, this is an imperfect measure as there may be non-combat related reasons why men should be over-represented in deaths, such as their tendency to work in dangerous search and resecure roles. Nonetheless, this approach still provides a useful suggestion. We can see that the implied civ:mil death ratio is lowest in the north at 0.97, which accords with the high level of ground activity (versus less discriminatory aerial attacks) over the period in that territory. The south and central area is much higher at 2.47 civilian deaths for every military death, perhaps reflecting the higher level of aerial bombardment in those areas. Nonetheless, it is still staggeringly less than the historical wartime average of 9 civilian deaths for every one militant

(<https://press.un.org/en/2022/sc14904.doc.htm>), and represents an impressive accomplishment given what the American military analyst John Spencer calls Hamas's "Human Sacrifice" strategy of maximising Gazan civilian deaths to provoke international outrage against Israel.

Section 6: Rates of Death

It is reasonable to divide the data up into three phases:

Phase 1: This phase runs from the opening of the war on 7 October to the beginning of persistent ground operations on 26 October. Although ground raids into Gaza had occurred as early as 13 October, a persistent presence did not begin until the 26th. It is also worth noting that the Ministry of Health published its large “names list” report on the 26th of October, giving some additional insight into Hamas’s claims about deaths in the conflict up to this point.

Phase 2: This phase runs from the beginning of the main ground war on 27 October through to the December 12, when the MoH published another major report covering deaths in the war thus far. Phase 2 also contains the most serious data anomalies in the whole conflict (see, in particular, the GMO errors discussed in Section 3 of this document). It also contains the truce that occurred in late November. This truce created additional atypical (although in this case not erroneous) data over the corresponding period.

Phase 3: This phase runs from the period after the MoH’s major report through to the end of our sample on January 7.

This section of this document compares the rates of death in Phase 1 vs. Phase 3, with a focus only on “total” deaths. In order to assess the deaths, a unique dataset was constructed by combining totals from the GMO and MoH reports. This dataset uses only MoH total figures up until November 10, after which it uses GMO data until the end of the sample on 8 January. This arrangement made sense as the MoH provided more frequent updates than the GMO during the period up until November 10, after which it stopped altogether until early December, when it began providing intermittent updates that always mirrored the GMO’s for that day. On the other hand, the GMO provided more frequent and more detailed updates

after November 10. Note that in the four instances in the pre-November 10 period, the GMO and the MoH provide conflicting values for their daily totals. Two of these conflicts were small (less than 10), but on October 9 the MoH claimed 687 vs only 510 for the GMO and on October 11 the MoH claimed 1,100 versus the GMO's 1,055. In these four instances of conflicting values, I used the MoH's values when assembling the final sample. This made sense as the MoH is generally considered to be the "originator" of the data, working closest to the hospitals where the bodies are counted and identified. There were also some internal contradictions in the MoH dataset, where the daily updates for the Telegram feed did not match the Infographic values. In these instances, I preferred the Infographic values, although I admit I did not have much of a rationale for doing so beyond the infographics looking slightly fancier and more authoritative. The only meaningful difference here was on October 12, when the Telegram feed reported 1,537 dead but the Infographic only reported 1,417. Given the sample size this one observation probably wouldn't have made an enormous difference to the overall analysis.

The dataset enables us to use regression analysis to create a visual comparison between the rates-of-death in Phase 1 and Phase 3 (we omit phase 2 from the graphic representation for visual simplicity and because the data problems render its analysis somewhat pointless). Figure 8.1 graphs the results. The significant decline in the rate of deaths per day is immediately visible.

Regression analysis was also used to conduct a more precise consideration of the differences in rates of death between the phases. The results appear in Table 6.1, alongside the simple averages of deaths per day over the period (which unsurprisingly are very close to the estimated OLS coefficients). We see a significant decline in deaths per day, going from 343.06 in Phase 1 to 228.68 in Phase 2 to 175.12 in Phase 3. Of course, the Phase 2 results

should be treated with some skepticism because of the high rates of data errors. In this instance, it is also biased downwards by the ceasefire that occurred in late November.

While it is somewhat superfluous (given the magnitude of the coefficients involved and their small standard errors), tests of significance between the slope coefficients were conducted to provide supporting evidence that the decline in rate of death has been significant. Table 6.2 shows the results (once again, tests involving Phase 2 should be treated with some caution). Unsurprisingly, the differences between all coefficients are highly significant. It appears that rates of death have slowed down significantly over the course of the war – very nearly by half.

Section 7: UNRWA Staff Deaths

The United Nations Relief Works Agency is a UN-affiliated organisation that is responsible for much development and welfare work in the ‘Strip. As of 22 December 2023, more than 142 of its staff had been killed in the Gaza war, already making it the most lethal conflict in history for UN staff members.

The *Lancet* correspondence piece “*No evidence of inflated mortality reporting from the Gaza Ministry of Health*” by Huynh, Chin, and Spiegel (2023) uses the rate of UNRWA deaths to verify the rate-of-death implied by the Ministry of Health death statistics covering the same period. The authors contend that while the MoH may have links to Hamas, the UNRWA data is centrally recorded by UN administrators who are independent of the MoH and Hamas. The *Lancet* authors argue that if the rates-of-death are the same then it is likely that the MoH data is not inflated. The authors conduct a visual analysis of a time series chart of the data and note that the UNRWA rate of death appears to be visually similar to the rest of Gaza’s population (although of course such a visual analysis does not represent a test of

significance; such a test was not provided by the authors). Indeed, as the author's note, the UNRWA rate of death in fact appears to be *higher* than that of the general population.

This is a more interesting observation than the *Lancet* authors realise. Table 7.1 contains UNRWA-reported data on total deaths and UNRWA deaths in the Gaza Strip. UNRWA's own data on total deaths is sourced from a variety of primary sources similar to the ones covered in this document: the MoH, the GMO, and also, briefly, the Palestinian Central Bureau for Statistics (PCBS). The UNRWA data is used here to maximise the correspondence with the *Lancet* paper, although this dataset is notable in that it extends beyond the *Lancet* paper's timeline, with my data extending to 22 December 2023 whereas the *Lancet* data only extends to 10 November 2023. Note that while other sections in this document have all their primary source data provided in the appendix, the UNRWA reports are lengthier and cannot reasonably be provided in full in an appendix. However, they can be found at <https://www.unrwa.org/resources/reports>.

Figure 7.1 graphs the data in Table 7.1 (for the time being, ignore the additional "Hamas Membership Adjusted" series in Figure 7.1). It is interesting that the reported UNRWA rate of death appears to change rapidly after 10 November, with the data suddenly becoming far more similar to the total population. Nonetheless, in the first phase of the data – when the IDF was engaged in assassinating Hamas members through heavy aerial bombardment – the higher rate of death for UNRWA members is visually apparent.

What might explain this higher rate of death for UNRWA staff? As noted in *the Wall Street Journal*⁵, more than 1,200 UNRWA workers are also members of Hamas. Given that UNRWA has around 13,000 employees, this represents about 9% of their workforce (or, perhaps more tellingly, almost 23% of its total male employees). A later report in the

⁵ <https://www.wsj.com/world/middle-east/at-least-12-u-n-agency-employees-involved-in-oct-7-attacks-intelligence-reports-say-a7de8f36>

Jerusalem Post claimed that 440 UNRWA workers were terrorists in Hamas's combat units, and a further 2,000 UNRWA workers were non-combatant members of Hamas.⁶ At least 12 UNRWA members directly participated in the Simchat Torah atrocities, and at least one freed Israeli hostage was held by an UNRWA employee⁷. It is very possible that the UNRWA "workers" killed by IDFs were also Hamas combatants.

There is additional evidence that these UNRWA workers died in targeted rather than indiscriminate killings. For instance, all but 2 of the 152 UNRWA workers killed in the first three weeks of the war were "off duty" when they were killed. This figure is interesting because, given a null hypothesis of indiscriminate killing, it would imply that the typical UNRWA worker only spent 2 hours a week at work. This does not seem likely, and is strongly suggestive of targeted killings. There is another oddity in that, contra standard UN practices, UNRWA has never revealed the full names of its dead staff members, instead revealing only their first names⁸. It is possible that UNRWA is employing this unconventional practice to hinder identification of the dead, who may have died while on terrorist operations for Hamas.

Perhaps the most telling indicator of targeted killings of *specific* UNRWA workers comes in the gender breakdown of the dead. As noted in an article in *The Telegraph*⁹, women make up 59% of UNRWA's staff (7,670 female versus 5,330 male). Yet women only made up 38% of the dead UNRWA workers. This implies a huge underrepresentation of women among the dead UNRWA workers. If we assume excess deaths indicate targeted killings, then it appears around 36% of the UNRWA dead were intentionally killed by the IDF. Returning to Figure 7.1, the "Hamas Adjusted" time series incorporates this adjustment into the time series

⁶ <https://www.jpost.com/breaking-news/article-788327>

⁷ <https://www.jpost.com/middle-east/article-775777>

⁸ <https://elderofziyon.blogspot.com/2024/01/why-isnt-unrwa-publicizing-names-of.html>

⁹ <https://www.telegraph.co.uk/global-health/terror-and-security/majority-of-un-workers-killed-in-gaza-died-off-duty-data/>

of dead UNRWA workers. It is telling how much better the UNRWA time series fits in the opening weeks of the conflict.

Whilst on the topic of UNRWA, Hamas, and data, it is worth revisiting an incident from a previous conflict that shows how much power Hamas wields over UNRWA. Shortly after the 2021 war, Hamas forced UNRWA to fire its Gaza director Matthias Schmale after he appeared to praise the IDF for the precision of its bombing.¹⁰ This incident is fascinating as it reveals so much of Hamas's methods and goals: Hamas's willingness to manipulate the narrative by harassing, intimidating, and manipulating westerners reporting from the Gaza Strip; Hamas's knowledge that any mention of the IDF's precision bombing might make the IDF appear to be a non-genocidal force concerned with civilian life; and Hamas's aggressiveness in counteracting any information that might spread the truth about the IDF's concern for civilian life. Indeed, this document is in part intended to explore Hamas's manipulation of data in pursuit of that very goal.

Section 8: Child Deaths Before and During the Conflict

Table 8.1 compares data from two different Gazan sources on violent child deaths (allegedly at the hands of Israeli forces) covering two periods, one before and one after the October 7 atrocities. The first period runs from 29 September 2000 to 6 October 2023, with the data drawn from the online B'Tselem database on violent deaths in Gaza. The database purports to have complete coverage (i.e. all known violent deaths in the 'Strip are recorded) and B'Tselem claims to carefully verify every single death. The second period is much shorter, running from 7 October 2023 to 28 October 2023, with the data drawn from the list of names the Gazan Ministry of Health published in response to President Joe Biden's

¹⁰ <https://apnews.com/article/united-nations-middle-east-b03eb29c5b9286fff1d6b80cf6539294>

comment that he had no confidence in the numbers being published by Hamas-run Gazan health authorities.

The two periods obviously have huge differences in terms of their lengths, making comparisons of the total values somewhat uninteresting. However, it is worth considering the different patterns in the two data sources.

In the long period before October 7, we see vastly more boys dying than girls (1,580 boys vs. 429 girls, or 21.35% girls). The percentage of girls dying also declines spectacularly in the older categories, with girls making up less than 7% of the age 16 to 18 deaths, versus almost 48% of the 0 to 5 year old deaths. In this period, we also see that teenagers are generally much more likely to die than younger children, with (326+214=) 540 deaths for children between 0 and 9 versus (225+468+776=) 1,469 deaths for children between 10 and 18.

Things are very different in the shorter period between October 7 and October 28. Here, the number of girls dying is much closer to the number of boys (1,506 boys vs. 1,273 girls, or 45.81% girls). It also differs in that the percentage of girls dead does not decline so precipitously in the older age categories, consistently between 41.90% and 48.65%. In this period, we see that younger children actually make up *more* of the violent deaths than older children (1,553 dead between ages 0 to 9 versus 1,226 dead between ages 10 to 18), spectacularly reversing the trend in the B'Tselem data.

It is difficult to explain these vastly different patterns without engaging in significant speculation. It is possible that the B'Tselem data reflects Hamas's well-known strategy of using child soldiers, who tend to be boys in their teenage years. Section 12 of this document contains links to several articles on this topic. The presumably higher likelihood of death for

child soldiers may explain why the B'Tselem data records many more deaths in teenaged boys than in younger and female children.

It is harder to explain the post-October 7 data from the Ministry of Health. Here, there appears to be no real pattern in deaths across both age and gender. Female deaths do decline slightly with age, but it is nowhere near as consistent as in the pre-Simchat Torah data. One possibility is that this “flatter” structure in deaths reflects the way aerial bombardment is perhaps less likely to effectively target militants (even if those militants are child soldiers). However, it might also reflect the kind of suppression of male (potentially militant) deaths that Epstein talks about in his paper. Resolving this issue is probably impossible from the presently available data, but the differences in patterns are striking and deserve further investigation.

Section 9: The Al-Ahli Arab Hospital Explosion

On 17 October 2023, an explosion took place at or near the Al-Ahli Arab Hospital in Gaza City, in the northern sector of the ‘Strip. Leading news outlets, including the New York Times and The Washington Post, soon published articles that attributed the blast to an IAF strike on the hospital itself. Hamas initially claimed that the IAF’s bombing had killed 500 people, before slightly revising this figure down to 471. These claims regarding the number of dead were also broadcast all over the world. However, subsequent analysis indicated that the blast was likely caused by errant rocket fire from a Palestinian Islamic Jihad missile launch, that the rocket itself had hit an adjacent carpark rather than the hospital itself, and that far fewer than 471 people had been killed.

This section links to various articles from press and intelligence agencies in support of the following claims:

1. The true number of dead was substantially lower than the 471 claimed by Hamas.

2. The distorted 471 figure informs the cumulative totals in use by the world's media.
3. The blast was not caused by an IAF air strike.

Claim 1: The true number of dead was substantially lower than the 471 claimed by Hamas

Various estimates of the total deaths have been provided. None of these estimates exceed 300:

- Reuters October 19 2023: US Intelligence officials estimate deaths “at the low end of the 100-to-300 spectrum.”
 - <https://www.reuters.com/world/middle-east/us-intel-says-gaza-hospital-death-toll-likely-between-100-300-2023-10-19/>,
- AFP October 19 2023: European intelligence states a maximum of 50 killed in hospital.
 - <https://www.barrons.com/news/what-we-know-about-gaza-hospital-strike-b1438314>
- AP News October 21 2023: French military analyst ““We don’t see at all that a rocket that size could have produced 471 dead. It is not possible.””
 - Also in this report: “Two witnesses said they thought the toll was in the dozens, not the hundreds.”
 - <https://apnews.com/article/israel-hamas-war-france-intelligence-7be0d59b9ceb58bbf2f03c5dc8222356>

Claim 2: The distorted 471 Figure informs the cumulative totals in use by the world's media

This day is the MoH's final claim of 471 deaths at the Baptist hospital, released on October 18. Below is the MoH's telegram announcement:



Here is the MoH's FaceBook announcement:

وزارة الصحة الفلسطينية / غزة
18 October 2023

■ تصريحات الناطق باسم وزارة الصحة د. أشرف القدرة: حمل مؤتمر صحفي حول التداعيات الخطيرة للعدوان الإسرائيلي المستمر لل يوم الثاني عشر على قطاع غزة

■ العماز المثلثة التي يرتكبها الاحتلال الإسرائيلي تشكل تحدياً عرقاً وتهديد للوجود الفلسطيني .

■ دخول الاحتلال الإسرائيلي في مرحلة استهداف المستشفيات وتجزئه على ارتكاب مجرة فاقع الوصف داخل حرم المستشفى العجمي تهدى خطير للمنظومة الصحية .

■ حصلت صناديق المعدات، تهدى خطير للمنظومة الصحية .

■ يقدر 471 شهيداً بذلت 28 ليلة حرجة إضافة إلى 314إصابة بجرح مختلفة.

■ أجمالي ضحايا العدوان الإسرائيلي لل يوم الثاني عشر على التوالي 3478 شهيد و 12065 إصابة بجرح مختلف.

■ المعاشر التي يرتكبها الاحتلال الإسرائيلي يحق العمالات بلغ 433 عائلة وصل منها 2421 شهيداً فقط ولا زال العمالات منهم تحت الإنفصال.

■ نعمينا نحو 1300 عن مفقودين تحت الأنقاض منهم 600 طفل .

■ نوع ونوع ونوع أحباء بين المفقودين تحت الأنقاض ولكن عملية الوصول إليهم تواجه صعوبات كبيرة بسبب الاستهداف المستمر وضعف الإمكانيات.

■ بعد دخول المستشفيات في مرحلة الاهيار الفجعي فإن الساعات القادمة خطيرة على مستقبل تقديم الخدمات الصحية للمريض والجرحى .

■ Statements by the spokesman of the Ministry of Health Dr. Ashraf Al Qadra: During a press conference on the serious consequences of the ongoing Israeli aggression for the twelfth day on the Gaza strip

■ The subsequent massacres committed by the Israeli occupation are ethnic cleansing and a threat to the Palestinian existence.

■ The Israeli occupation entering the phase of targeting hospitals and daring to commit an indescribable reward inside the Baptist Hospital campus is a serious threat to the health system

■ The total number of victims of the largest massacre and violence committed by the criminal Israeli occupation inside the Baptist Hospital reached 471 martyrs and there are still 28 critical cases in addition to 314 injuries with various wounds.

■ Total victims of Israeli aggression for the twelfth day, 3478 martyrs and 12065 injured in various wounds.

■ 70% of the victims of Israeli aggression were children, women and the elderly

■ The massacres committed by the Israeli occupation against the families reached 433 families, including only 2421 martyrs and hundreds of them are still under ruins.

■ We received about 1300 reports of missing persons under the rubble, including 600 children.

■ We expect revival among the missing under the ruins, but the process of reaching them faces great difficulties due to continuous targeting and weak capabilities.

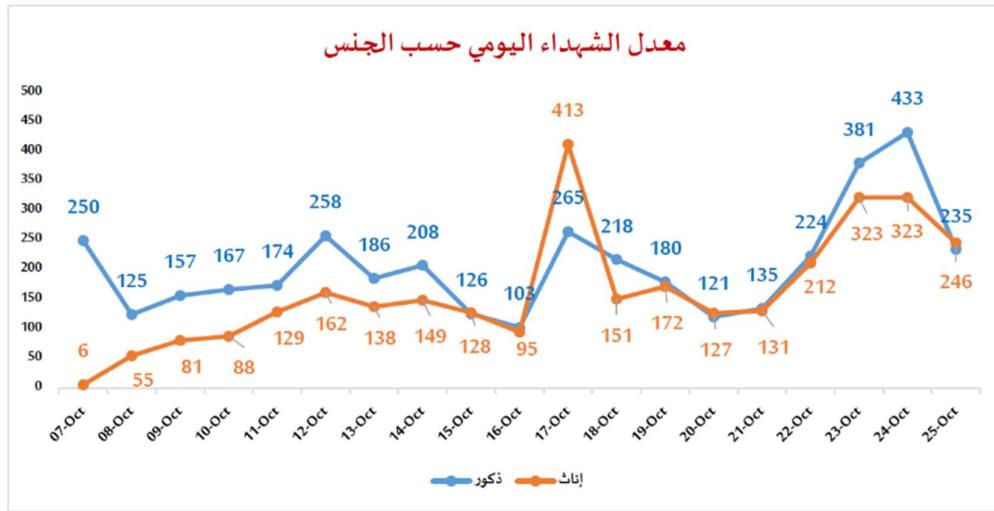
■ After hospitals have entered the actual collapse phase, the coming hours are dangerous for the future of health services provided to the sick and the wounded.

[Hide translation - رأى هذه الترجمة](#)

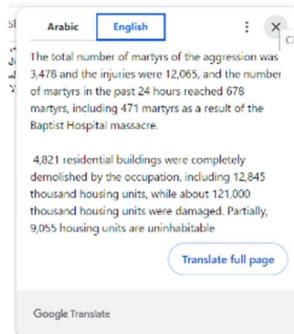
The same day's total death count was 3,478 (see October 18 entry in Appendix 1 of this document). The previous MoH flash report came all the way back on October 12 (total dead 1,537), making it hard to analyse the contribution of the hospital bombing to the MoH's daily reports. However, the contribution of the Hospital bombing is clearly visible in the time series graph provided in the front matter to the infamous "names list" document the MoH published on October 26:



Interestingly, it appears that a vastly disproportionate number of these fictitious deaths were women, suggesting a blatant attempt by Hamas to inflate the ratio of women dead, as well as the total number of dead:



The “smoking gun” that the 471 figure is incorporated into the total death counts comes from the GMO announcement on 18 October. Note that the total dead on this day is identical to the 678 in the MoH’s time series graph:



Claim 3: The blast was not caused by an IAF air strike.

- CNN October 19 2023 quoting US Intelligence: “We see only light damage to the roofs of two structures near the main hospital building, but both structures remained intact... We judge that Israel was not responsible... some Palestinian militants in the Gaza Strip assessed that the explosion was likely caused by an errant rocket or missile launch carried out by Palestine Islamic Jihad.”
 - Also in the CNN article “President Joe Biden stated publicly while in Israel that the strike appeared to have been “the result of an errant rocket fired by a terrorist group in Gaza.””
 - <https://edition.cnn.com/2023/10/19/politics/us-intelligence-assessment-gaza-hospital-blast/index.html>
 - AP News October 21: “An assessment by French military intelligence indicates the most likely cause of the deadly explosion at Gaza City’s al-Ahli hospital was a Palestinian rocket that carried an explosive charge of about 5 kilograms (11 pounds) and possibly misfired.”
 - <https://apnews.com/article/israel-hamas-war-france-intelligence-7be0d59b9ceb58bbf2f03c5dc8222356>

- Think Tank FDD October 26 2023: “U.S. intelligence officials said on October 24 they have determined with “high confidence” that Israel was not responsible for the October 17 attack on al-Ahli Arab Hospital in Gaza. More than a week after the blast, likely caused by an errant Palestinian Islamic Jihad rocket, allegations of Israeli culpability continue to circulate. The disappearance of all traces of the rocket that struck the hospital — in territory controlled by Hamas — complicates efforts to determine the weapon’s origin and raises questions about Hamas’ obstruction of potential investigations.”
 - <https://www.fdd.org/analysis/2023/10/26/u-s-intel-confident-israel-did-not-attack-gaza-hospital/>
- Anti-Israel NGO Human Rights Watch 26 November 2023: “The Human Rights Watch review of videos and photos suggests that on October 17 a rocket struck the al-Ahli hospital grounds... Evidence available to Human Rights Watch makes the possibility of a large air-dropped bomb, such as those Israel has used extensively in Gaza, highly unlikely.”
 - <https://www.hrw.org/news/2023/11/26/gaza-findings-october-17-al-ahli-hospital-explosion>

Section 10: The “70% Women and Children Dead” Approximation in Early 2024

The Ministry of Health frequently reports that “approximately 70% of Gazans killed are women and children.” For instance, the front matter to its periodic long reports usually cites the statistic. The global media frequently repeats the claim without question, typically in contexts that demonise Israel and the IDF. This section investigates this “70%” claim, and checks to see if it stands up to scrutiny. It is based on primary sources that appear in Appendix 4 of this document.

The total deaths reported by the MoH are drawn from two major sources: the hospital system, where deaths are registered based on corpses in the MoH’s possession, and the more nebulous “media sources” category, which forms casualty statistics based on media reports

from “credible sources”. Table 10.1 details data on Hospital-reported deaths as they are recorded in MoH reports from early 2024. The gender breakdown is reasonably detailed, with separate categories on women and men and males and females (in turn enabling calculations of boys and girls).

To begin with, there is an error in Hamas’s Ministry of Health data. The MoH report on 31-Dec-23 reports a figure of 6,929 for “media sources” deaths. However, 6,929 appears to be a typo as the 6,929 and the “Hospitals Dead” total of 15,349 do not sum to the MoH’s stipulated total value of 21,978. The 15,349 figure is corroborated by all the internal calculations of the hospital figures for (1) men, women, and children and (2) males and females (see the relevant entry in Appendix 4). The 21,978 figure is corroborated by the matching MoH and GMO reports (see Section 11 for more discussion of this matching). So it appears the 6,929 is incorrect, and is omitted here in favour of the 6,629 implied by the other numbers. Note that using the 6,929 figure does not substantially change the analysis here.

At any rate, there are some unusual overall patterns in the data. First of all, note the higher ratio of girls and boys in children deaths (extremely anomalous in light of Section 8 of this document, where the sample was restricted to an earlier phase of the war). But by far the most important trend is the declining ratio of women and children as a proportion of total deaths. This is most evident when we compare the women and children percentage figure in the first row of Panel A., which shows that between October 7 and December 31 a total of 60.34% of the deaths registered in hospitals were women and children, with the comparable figure in Panel D., which shows that between December 31 and March 3 this figure had fallen to 41.62.

Given this substantial decline in the ratio of women and children deaths registered in hospitals, how is that the Ministry of Health can continue to claim that 70% of the total deaths in Gaza are women and children? This is where the “Media Sources” category comes

into play. The MoH does not provide gender breakdowns of this category (although on a few occasions the GMO has published figures that enable this specific calculation – see the next section of this document for details). And so it can be assumed that this section has been making up the “shortfall” in dead women and children that are not present in the hospital registered deaths.

Table 10.2 depicts the “media sources” total deaths, along with the corresponding total from the hospital deaths. First, let us consider the cumulative totals in Panel A. On December 31, the “media sources” deaths accounted for only 30.16% of the total deaths. By March 3, this had climbed to 43.18% of the total. This represents a significant increase given the much slower rate of death that has come to characterise the war in 2024, with only 136 total deaths per day between December 31 and March 3 (see Panel E). Indeed, as we can see in Panel D., only 1,999 deaths have been registered in hospitals over that period, compared to 6,557 deaths registered via “media sources”.

The fact that we know the number of women and children deaths registered in hospitals, the number of total hospital deaths, and the number of total “media sources” deaths means we can use the “70% women and children” approximation to calculate the percent of women and children dead that must be present in the media sources category. The final column of Table 10.2 reports this figure. As we can see, most of these figures are highly implausible. The first row indicates that in 2023, 60.34% of the hospital registered deaths were women and children compared with 92.38% of the media sources category! As we see in Panel D., in 2024 the ratio is even more absurd, with 41.62% of the hospital registered deaths appearing as women and children compared with 78.65% of “media sources” deaths.

What explains this huge discrepancy? It is obviously absurd to suggest that the IDF spent 2023 killing 93% women and children in certain parts of Gaza. This would imply a significant and deliberate effort to avoid killing potential combatants in favour of murdering

civilians. It would go well beyond “indiscriminate bombing” and amount the deliberate (and highly successful) targeting of women and children over men, including Hamas fighters. This is absurd.

A speculative, but far more likely reason, is that the Hamas-run Ministry of health simply names uses the “approximately 70%” figure in its headline document because it makes for good propaganda against the IDF, and because it knows anti-Israel Western journalists are too lazy to check the figures. This is a speculative argument, but it is reasonable as an inference to the best explanation. The important point is that the total women and children death is far more likely to be closer to the hospital deaths than the 70% figure. This is especially true when we consider that wartime population transfer means that the ratio of women and children in the overall population is far lower in the areas outside the coverage of the hospital system.

Section 11: More on Women and Children and the “Media Sources” statistics

Section 10 assessed the gender breakdown of the “Media Sources” deaths category using the “approximately 70% of total deaths are women and children” claim spruiked by the Ministry of Health. This section details an alternative method to identify the constituents of the “media sources” category. It results in a lower number of observations, but arguably stronger results. It uses primary sources that are recorded in Appendix 4 and Appendix 5 of this document.

On several occasions in 2024, the Government Media Organisation (GMO) has released casualty updates for all of Gaza that (1) match certain MoH reports in terms of total casualty counts and (2) contain age and gender breakdowns for all of Gaza. Table 11.1 shows the matching process for the relevant MoH and GMO reports. For the nine MoH reports that

were published this year, there were seven GMO reports that matched exactly in terms of the total death count, one report that was only death off (on the 30th of January, the MoH reported 26,901 dead, but the corresponding GMO report on the 2nd of January reported exactly 26,900), and one report where there was no close match. However, there were only three matching GMO reports that included statistics on women and children dead. These three GMO reports and their matching MoH provide the materials for the analysis in this section.

By subtracting the MoH hospital registered deaths from the GMO deaths that cover all of Gaza, we can obtain exact values for the Media Sources category deaths. Table 11.2 depicts the results. As we can see, the results are truly absurd. Apparently, in all of 2023, there were 4,602 children deaths in the “media sources” category, 4,659 women deaths, but only 10 men deaths! This is utterly ludicrous. The figure improves slightly as 2024 progresses, although this is largely a function of the total deaths in the media sources category expanding so as to create more “room” for women and children deaths. Even at the beginning of March, the statistics remain absurd, with approximately 93% of the dead in this category reported as women and children, compared to only 58% registered in the hospitals system.

Table 11.3 temporally differences the various reports to construct discrete windows of analysis that are free from the “memory” effects of rolling cumulative totals. We see similar absurdities as before, with the “media sources” women and children dead consistently around twice as high as the hospital recorded dead.

The likely reason for these absurd results are similar to those offered in the conclusion of the previous section. While this is a speculative argument, it seems likely that the GMO is essentially making up numbers of women and children dead that are intended to make the IDF look bad. The GMO does not appear to be checking these made-up numbers against the

totals it offers elsewhere. The results are frankly ridiculous, and point to a high likelihood of lazily manipulated data.

Section 12: Summaries of Some Relevant Articles and Intelligence Reports

- 2010 Haaretz article on Hamas lies re. civ:mil ratio in Operation Cast Lead (2008-09)
 - During operation Cast Lead, Hamas claimed that only 49 of its combatants died. However, in 2010, the group admitted that 600 to 700 of its fighters had been killed – exactly the same as IDF estimates
 - Link: <https://www.haaretz.com/2010-11-09/ty-article/hamas-admits-600-700-of-its-men-were-killed-in-cast-lead/0000017f-ee02-ddba-a37f-ee6edc3f0000>
- Meit Amit Intelligence and Terrorism Information Centre: Analysis of MoH lies and Gazan child soldiers in 2014 war
 - Evidence of MoH lying about a dead child's age because he was clearly being used in terrorist activities. Conversely, in situations where deaths were less obvious, the MoH tried to present adult deaths as children.
 - Link: <https://www.terrorism-info.org.il/en/20713/>
- Matti Friedman article in the Atlantic from 2014 on Hamas's exploitation of Western media for propaganda purposes
 - Good quote on MoH statistics: "*Hamas understood that journalists would not only accept as fact the Hamas-reported civilian death toll—relayed through the UN or through something called the “Gaza Health Ministry,” an office controlled by Hamas—but would make those numbers the center of coverage. Hamas understood that reporters could be intimidated when necessary and that they would not report the intimidation; Western news organizations tend to see no ethical imperative to inform readers of the restrictions shaping their coverage in repressive states or other dangerous areas. In the war’s aftermath, the NGO-UN-media alliance could be depended upon to unleash the organs of the international community on Israel, and to leave the jihadist group alone.*"
 - Link: <https://www.theatlantic.com/international/archive/2014/11/how-the-media-makes-the-israel-story/383262/>
- Jerusalem Post article from 2020 on Hamas's use of child soldiers
 - Article claims 10,000 children trained in Hamas's child training camps every year. 160 children died digging the tunnels under Gaza. 29 children lost their lives as suicide bombers (presumably in the intifadas?), with many more prevented from carrying out their attacks. Children as young as 9 used as combatants.
 - Link: <https://www.jpost.com/Arab-Israeli-Conflict/NGOs-call-for-public-support-in-ending-use-of-Palestinian-child-soldiers-617332>
- Meit Amit Intelligence and Terrorism Information Centre: Analysis of true mil:civ death ratio in 2021 war

- Doing name-by-name research on the dead, the authors find about half of the Gazan deaths were terrorists, despite MoH efforts to imply that the civ:mil ratio was much higher.
 - Link: https://www.terrorism-info.org.il/app/uploads/2021/06/E_093_21.pdf
- Jerusalem Centre for Public Affairs: looking at casualties in the 2021 war
 - Most of the information in the article is familiar from other articles on the current war. However, it does contain the interesting retrospective statistic that 15% of the Gazan rockets in the 2021 war fell short and landed in the strip, killing at least 9 children and 10 adults, from a war with total deaths of 253 people, 129 of whom were civilians. Thus at least 14.7% of the civilian dead in the 2021 war were caused by Hamas rockets falling short. In the current war, assuming Hamas MoH statistics are correct and the ratio of rocket deaths is the same, several thousand woman and children would've been killed by Hamas's own rockets.
 - Link: https://jcpa.org/article/casualties-in-the-2021-gaza-war-how-many-and-who-were-they/#_edn22
- BBC: bombing story (from current war)
 - Articles describes the extensive destruction of an entire neighbourhood in Gaza without a single civilian casualty, thanks to IDF's use of telephone calls to move people to safety.
 - Link: <https://www.bbc.com/news/world-middle-east-67327079>
 - First incident - Thursday 19 October
 - al-Zahra neighbourhood
 - “many hundreds of people were left homeless as the Israeli army bombed at least 25 residential blocks housing hundreds of apartments, destroying an entire neighbourhood.”
 - Not a single fatality
- Jewish News Syndicate Article: Hamas suppression of reportage on militant deaths in current conflict
 - Article claims (with admittedly limited evidence) that Hamas militant deaths are simply excluded from MoH death reports. If that is the case, it is not surprising that MoH death ratios would look close to Gaza's demographic breakdown of approximately 50% children, 25% men, 25% women.
 - Link: <https://www.jns.org/hamass-numbers-warfare/>
 - Like Epstein, this author also mentions that a major difference between this war and previous wars is the lack of independent verification from NGOs within Gaza. Monitoring by these NGOs may have mitigated MoH deceptiveness in previous conflicts, but now those NGOs are absent.
 - Article also emphasises obvious point that MoH is a Hamas-run body.
- Tablet: “An Insider’s Guide to the Most Important Story on Earth”
 - Article is on Hamas's history (in previous wars) of intimidating journalists, as well as the Western press's history of complicity in this censorship. While there are currently very few western journalists in Gaza (and almost none in hamas-controlled areas), it's unlikely that Hamas is any more lenient with its own Palestinian journalists.

- Link: <https://www.tabletmag.com/sections/israel-middle-east/articles/israel-insider-guide>
 - “*There has been much discussion recently of Hamas attempts to intimidate reporters. Any veteran of the press corps here knows the intimidation is real, and I saw it in action myself as an editor on the AP news desk. During the 2008-2009 Gaza fighting I personally erased a key detail—that Hamas fighters were dressed as civilians and being counted as civilians in the death toll—because of a threat to our reporter in Gaza. (The policy was then, and remains, not to inform readers that the story is censored unless the censorship is Israeli. Earlier this month, the AP’s Jerusalem news editor reported and submitted a story on Hamas intimidation; the story was shunted into deep freeze by his superiors and has not been published.)*”
- Le Point article (in French), regarding the current war, citing European intelligence agency claims that only 10-50 people died in the accidental PIJ bombing of Al-Ahli hospital
 - Link: https://www.lepoint.fr/monde/hopital-a-gaza-incertitudes-sur-le-nombre-de-victimes-19-10-2023-2540039_24.php?Echobox=1697715211&ref=quillette.com#11

Articles on mil:civ death ratio distortions in past wars

- 2008-09 Cast Lead
 - During operation Cast Lead, Hamas claimed that only 49 of its combatants died. However, in 2010, the group admitted that 600 to 700 of its fighters had been killed – exactly the same as IDF estimates
 - <https://www.haaretz.com/2010-11-09/ty-article/hamas-admits-600-700-of-its-men-were-killed-in-cast-lead/0000017f-ee02-ddba-a37f-ee6edc3f0000>
- 2012 Pillar of Defence (around 160-175 Gazan dead)
 - Palestinian claim: 106 civilian, 55 combatant
 - https://web.archive.org/web/20121202114111/http://www.pchrgaza.org/portal/en/index.php?option=com_content&view=article&id=9052:1&catid=145:in-focus
 - IDF: 177 Total Dead, 120 Militants, 57 civilian/uncertain
 - https://www.terrorism-info.org.il/Data/articles/Art_20444/H_253_12_928839649.pdf
- 2014 Protective Edge (around 2,300 Gazan dead)
 - Use of child soldiers distorts the “child” death category
 - <https://www.terrorism-info.org.il/en/20713/>
 - Post action analysis by the IDF finds that *at least* 44% of the total were militants, 36% were civilian, and the remaining uncertain 20% were all males age 16-50
 - <https://mfa.gov.il/ProtectiveEdge/Documents/PalestinianFatalities.pdf>

- Washington Post article on Hamas taking dead terrorists out of their uniforms and dressing them as civilians to count as civ casualties
 - https://www.washingtonpost.com/world/middle_east/while-israel-held-its-fire-the-militant-group-hamas-did-not/2014/07/15/116fd3d7-3c0f-4413-94a9-2ab16af1445d_story.html
- 2021 (236 Gazan dead)
 - Meir Amit finds that at least 48.3% of fatalities were terrorists, despite Hamas's attempts to emphasise women and children dead
 - https://www.terrorism-info.org.il/app/uploads/2021/06/E_093_21.pdf

Tables and Figures

TABLE 3.1 Gazan Deaths According to GMO

Date	GMO Primary Source Data (Infographics & Telegram)			Total	"Under Rubble"	Total	
	Women	Children	Men (Implied)			W & C	W&C (%)
9-Oct-23				510			
11-Oct-23				1,055			
18-Oct-23				3,478			
20-Oct-23				4,137			
21-Oct-23				4,385			
23-Oct-23				5,087			
26-Oct-23				7,028	2,000		
1-Nov-23				8,796	2,000		
4-Nov-23				9,488	2,000		
5-Nov-23				9,770	2,300		
7-Nov-23				10,328	2,300		
12-Nov-23				11,180	3,250		
15-Nov-23				11,500	3,640		
18-Nov-23				12,300	6,000		
19-Nov-23				13,000	6,000		
20-Nov-23				13,300	6,500		
21-Nov-23				14,128	6,800		
22-Nov-23				14,532	7,000		
27-Nov-23				15,000	7,000		
28-Nov-23	4,000	6,150	4,850	15,000	7,000	10,150	67.67
1-Dec-23	4,000	6,150	4,850	15,000	7,000	10,150	67.67
2-Dec-23	4,257	6,387	4,563	15,207	7,500	10,644	69.99
3-Dec-23	4,300	6,600	4,623	15,523	7,500	10,900	70.22
5-Dec-23	4,885	7,112	4,251	16,248		11,997	73.84
7-Dec-23	5,153	7,729	4,295	17,177	7,700	12,882	75.00
8-Dec-23	6,121	7,870	3,499	17,490		13,991	79.99
10-Dec-23	6,130	7,875	3,992	17,997		14,005	77.82
12-Dec-23	6,200	8,000	4,212	18,412	7,700	14,200	77.12
15-Dec-23	6,200	8,000	4,600	18,800		14,200	
19-Dec-23	6,200	8,000	5,467	19,667	7,000	14,200	72.20
20-Dec-23	6,200	8,000	5,800	20,000	6,700	13,200	71.00
23-Dec-23	6,200	8,200	5,858	20,258	7,000	14,400	71.08
25-Dec-23	6,300	8,500	5,874	20,674	7,000	14,800	71.59
27-Dec-23	6,300	8,800	6,010	21,110	7,000	15,100	71.53
30-Dec-23	6,450	9,000	6,222	21,672	7,000	15,450	71.29
31-Dec-23	6,500	9,100	6,222	21,822	7,000	15,600	71.49
1-Jan-23	6,699	9,280	5,999	21,978		15,979	72.70
6-Jan-24	7,000	10,000	5,722	22,722	7,000	17,000	74.82
7-Jan-24	7,000	10,000	5,835	22,835	7,000	17,000	74.45
8-Jan-24	7,000	10,000	6,084	23,084	7,000	17,000	73.64

Notes: See Section 3 for a discussion of this data. See Appendix 2 for screen caps of all primary sources.

TABLE 4.1
Downward Revisions

	By Category					Total Revisions	Nonzero observations
	Men	Women	Children	Elderly	Total		
MoH	4	3	0	0	0	7	59
GMO	5	0	0	0	0	5	57
OCHA	5	0	0	0	0	5	65
Total	14	3	0	0	0	17	

Note: Across the three data sources and 17 downward revisions, there were only three instances of data sources simultaneously downward revising their figures: GMO and OCHA made simultaneous downward revisions on October 29, December 2, and December 5 ($3 \times 2 = 6$ observations total).

TABLE 4.2
Mismatches in Reported "Total" Values

	GMO	OCHA
<i>Panel A. Simultaneous Totals</i>		
MoH	37	51
GMO		40
<i>Panel B. Mismatched Totals</i>		
MoH	8	4
GMO		11
<i>Panel C. Mismatch Rate (%)</i>		
MoH	21.62	7.84
GMO		27.50

TABLE 5.1 Ministry of Health Reports Dated 11/12/23 and 31/12/23: Differences in Hospital-Reported Deaths

	Reported Figures						Implied Figures		
	Total	Category			Gender		Girls	Boys	(W+C)/T (%)
		Children	Women	Men	Female	Male			
<i>Panel A. MoH Long Report dated 11 December 2023</i>									
Indonesian	1,782	452	620	710	832	950	212	240	60.16
Kamal Adwan	704	152	207	345	304	400	97	55	50.99
Healing	4,116	1,541	1,150	1,425	2,014	2,102	864	677	65.38
Martys of Al-Aqsa	4,008	1,099	1,312	1,597	1,942	2,066	630	469	60.15
Supporter	1,843	519	564	760	815	1,028	251	268	58.76
European	416	96	101	219	156	260	55	41	47.36
Carpenter (see Note 2)	1,276	418	366	492	557	719	191	227	61.44
Emirati	108	50	29	29	59	49	30	20	73.15
Total	14,253	4,327	4,349	5,577	6,679	7,574	2,330	1,997	60.87
<i>Panel B. MoH Long Report dated 31 December 2023</i>									
Indonesian	1,782	452	620	710	832	950	212	240	60.16
Kamal Adwan	704	152	207	345	304	400	97	55	50.99
Healing	4,116	1,541	1,150	1,425	2,014	2,102	864	677	65.38
Martys of Al-Aqsa	4,472	1,190	1,468	1,814	2,155	2,317	687	503	59.44
Supporter	2,133	593	627	913	909	1,224	282	311	57.20
European	567	139	140	288	218	349	78	61	49.21
Carpenter	1,467	485	418	564	648	819	230	255	61.55
Emirati	108	50	29	29	59	49	30	20	73.15
Total	15,349	4,602	4,659	6,088	7,139	8,210	2,480	2,122	60.34
<i>Panel C. Difference</i>									
Indonesian	0	0	0	0	0	0	0	0	NA
Kamal Adwan	0	0	0	0	0	0	0	0	NA
Healing	0	0	0	0	0	0	0	0	NA
Martys of Al-Aqsa	464	91	156	217	213	251	0	57	34
Supporter	290	74	63	153	94	196	0	31	43
European	151	43	39	69	62	89	0	23	20
Carpenter	191	67	52	72	91	100	0	39	28
Emirati	0	0	0	0	0	0	0	0	NA
Total	1,096	275	310	511	460	636	0	150	125
									53.38

Notes: (1) This table includes only the deaths recorded in hospitals. See Table 5.2 for data that includes the "Missing and Under Rubble" figures.
(2) The MoH report for December 11 reports a cumulative total figure of 1,292 for "Carpenter" hospital. However, the relevant "Category" and "Gender" cells both sum to 1,276. This table uses the 1,276 total value as it is corroborated by the informing "Category" and "Gender" totals.
This adjustment flows through into Panel A's reported "Total" figure, which here is 14,253, as opposed to 14,269 as reported in the MoH Table.

TABLE 5.2
MoH Deaths: Hospitals and “Media Sources”

Dates	Hospital Reported	"Media Sources"	Total
11-Dec-23	14,253	4,143	18,396
31-Dec-23	15,349	6,629	21,978
Difference	1,096	2,486	3,582

Notes (1) For the "Hospital Reported" figure for 11-Dec-23, I use the adjusted 14,253 figure from Table 5.1. See Note 2 of Table 5.1 for details. (2) The MoH report dated 31/12/23 contains a discrepancy in the Total (i.e. Hospital + Media) figure. The report claims 15,349 hospital recorded deaths and 6,929 "Media Sources" deaths, which together sum to 22,278. However, the document reports a total figure 21,978. This table uses 6,629 instead of 6,929 for "media sources" deaths. The decision to change this figure (rather than total dead or hospital dead) is based on some analysis of GMO data from early 2024. See Notes to Table 10.1 and Table 10.2 for details.

TABLE 5.3
Comparison of Two GMO Daily Reports dated 10/12/23 and 31/12/23

Date	Reported			Implied	
	Total	Women	Children	Men	(W+C)/T (%)
10-Dec-23	17,997	6,130	7,875	3,992	77.82
31-Dec-23	21,822	6,500	9,100	6,222	71.49
Difference	3,825	370	1,225	2,230	41.70

TABLE 5.4
Difference in Difference

Date	Total	Women	Children	Men	(W+C)/T (%)
<i>Panel A. GMO</i>					
10-Dec-23	17,997	6,130	7,875	3,992	77.82
31-Dec-23	21,822	6,500	9,100	6,222	71.49
Difference	3,825	370	1,225	2,230	41.70
<i>Panel B. MoH</i>					
11-Dec-23	14,253	4,349	4,327	5,577	60.87
31-Dec-23	15,349	4,659	4,602	6,088	60.34
Difference	1,096	310	275	511	53.38
<i>Panel C. GMO - MoH</i>					
10 and 11-Dec-23	3,744	1,781	3,548	-1,585	142.33
31-Dec-23	6,473	1,841	4,498	134	97.93
Difference	2,729	60	950	1,719	37.01

Notes: (1) For the "Hospital Reported" figure for 11-Dec-23, I use the adjusted 14,253 figure from Table 5.1. See Note 2 of Table 5.1 for details. (2) The "Men" figures for the GMO panel were derived by subtracting the reported women and children values from the reported total value. The (W+C)/T (%) figures tabulated here were not provided in the initial reports but are presented here for convenience. All other values in the dated rows of Panels A and B come directly from the GMO and MoH documents.

TABLE 5.5
Civ:Mil Death Ratio Calculations, 10 Dec to 31 Dec 2023

Area	Data	Observed W&C (%)	Random Reference (%)	Ratio [(Obs. W&C)/RR]	Civ:Mil [Ratio/(1- Ratio)]
All	GMO	41.7	75	0.56	1.25
South & Central	MoH	53.38	75	0.71	2.47
North	GMO - MoH	37.01	75	0.49	0.97

TABLE 5.5 (Simplified)
Death Ratios, 10 Dec to 31 Dec 2023

Area	Observed W&C (%)	Civilian:Military Death Ratio
All	41.7	1.25
South & Central	53.38	2.47
North	37.01	0.97

TABLE 6.1
Rates of Death, Phases 1 to 3

	Phase 1	Phase 2	Phase 3
Intercept	-465.15 (159.09)	2,890.81 (220.12)	6,668.37 (247.09)
Deaths Per Day	343.06 (12.44)	227.68 (5.07)	175.12 (2.99)
R ² (%)	98.32	98.68	99.71
N	15	29	12
Av. Death per Day	359.47	242.52	173.04

TABLE 6.2
Wald Tests

Rate of Death Hypothesis	Chi-Square	p-value	Coefficient Difference
Phase 1 = Phase 2	73.80	0.00	115.37 (13.43)
Phase 1 = Phase 3	172.45	0.00	167.94 (12.79)
Phase 2 = Phase 3	79.76	0.00	52.57 (5.89)

TABLE 7.1
UNRWA Deaths

UNRWA Sitrep	Report Date	Unadjusted		Normalised (Per 1,000)	
		Total Dead	UNRWA Staff Dead	Total Dead	UNRWA Staff Dead
1	7-Oct-23	232	0	0.11	0.00
2	8-Oct-23	370	0	0.18	0.00
3	10-Oct-23	560	2	0.27	0.15
4	11-Oct-23	900	2	0.43	0.15
5	12-Oct-23	1,100	12	0.52	0.92
6	16-Oct-23	2,329	14	1.11	1.08
7	17-Oct-23	2,670	14	1.27	1.08
8	18-Oct-23	3,000	14	1.43	1.08
9	20-Oct-23	3,785	16	1.80	1.23
10	21-Oct-23	4,137	17	1.97	1.31
11	22-Oct-23	4,385	29	2.09	2.23
12	23-Oct-23	4,651	35	2.22	2.69
13	24-Oct-23	5,087	35	2.42	2.69
14	25-Oct-23	5,791	38	2.76	2.92
15	26-Oct-23	6,546	39	3.12	3.00
16	27-Oct-23	7,028	53	3.35	4.08
17	30-Oct-23	8,005	63	3.81	4.85
18	31-Oct-23	8,306	67	3.96	5.15
19	1-Nov-23	8525	70	4.06	5.38
20	2-Nov-23	8,720	72	4.16	5.54
21	3-Nov-23	9,061	72	4.32	5.54
22	5-Nov-23	9,488	79	4.52	6.08
23	6-Nov-23	9,770	88	4.66	6.77
24	7-Nov-23	10,000	89	4.77	6.85
25	8-Nov-23	10,328	92	4.92	7.08
26	9-Nov-23	10,569	99	5.04	7.62
27	10-Nov-23	10,818	101	5.16	7.77
28	11-Nov-23	11,078	101	5.28	7.77

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TABLE 7.1 (continued)
UNRWA Deaths

UNRWA Sitrep	Report Date	Unadjusted		Normalised (Per 1,000)	
		Total Dead	UNRWA Staff Dead	Total Dead	UNRWA Staff Dead
29	13-Nov-23		102		7.85
30	14-Nov-23		102		7.85
31	15-Nov-23		103		7.92
32	17-Nov-23		103		7.92
33	19-Nov-23		104		8.00
34	21-Nov-23	13,000	104	6.20	8.00
35	22-Nov-23	14,128	108	6.73	8.31
36	22-Nov-23	14,128	108	6.73	8.31
37	23-Nov-23	14,532	108	6.93	8.31
38	24-Nov-23	14,800	108	7.05	8.31
39	26-Nov-23	14,800	108	7.05	8.31
40	27-Nov-23	14,800	109	7.05	8.38
41	28-Nov-23	14,800	109	7.05	8.38
42	29-Nov-23	14,800	110	7.05	8.46
43	30-Nov-23	15,000	111	7.15	8.54
44	4-Dec-23	15,000	111	7.15	8.54
45	4-Dec-23	15,523	130	7.40	10.00
46	7-Dec-23	16,248	132	7.74	10.15
47	8-Dec-23	16,248	133	7.74	10.23
48	11-Dec-23	17,700	134	8.44	10.31
49	11-Dec-23	18,000	134	8.58	10.31
50	12-Dec-23	18,205	134	8.68	10.31
51	13-Dec-23	18,205	135	8.68	10.38
52	14-Dec-23	18,608	135	8.87	10.38
53	17-Dec-23	18,787	135	8.95	10.38
54	18-Dec-23	19,453	136	9.27	10.46
55	20-Dec-23	19,667	136	9.37	10.46
56	22-Dec-23	20,057	142	9.56	10.92

Notes: The double entry on 4 December corresponds to a day when UNRWA provided two reports in a single day. There is a gap in the Total Dead figure between November 13 and November 19 when UNRWA did not report any data. Unadjusted data sourced from UNRWA Sitreps available at <https://www.unrwa.org/resources/reports>. The normalisation values used are 13,000 employees for UNRWA (value sourced from <https://www.unrwa.org/gaza-emergency>) and 2,098,389 for the total population of the Gaza strip (sourced from <https://www.cia.gov/the-world-factbook/countries/gaza-strip/#people-and-society>).

TABLE 8.1
Gazans Children Killed by Israel Forces, Before and After 10/7

Age Category	Girls	Boys	Total	Girls (%)
<i>Panel A. B'Tselem data for period 29-09-2000 to 06-10-2023</i>				
0 to 5	156	170	326	47.85
6 to 9	78	136	214	36.45
10 to 12	71	154	225	31.56
13 to 15	70	398	468	14.96
16 to 18	54	722	776	6.96
TOTAL (0 to 18)	429	1,580	2,009	21.35
<i>Panel B. Ministry of Health data for period 07-10-2023 to 28-10-2023</i>				
0 to 5	451	508	959	47.03
6 to 9	289	305	594	48.65
10 to 12	211	237	448	47.10
13 to 15	163	226	389	41.90
16 to 18	159	230	389	40.87
TOTAL (0 to 18)	1,273	1,506	2,779	45.81

Notes: B'Tselem data sourced from their online database at
<https://statistics.btselem.org/en/all-fatalities/by-date-f-incident-pal-minors-by-israel>. Ministry of Health data from their widely distributed list of names published in late October 2023, available from many websites e.g.
<https://www.aljazeera.net/wp-content/uploads/2023/10/%D8%AA%D9%82%D8%B1%D9%8A%D8%B1-%D9%86%D9%87%D8%A7%D8%A6%D9%8A-%D8%A8%D8%A7%D8%B3%D9%85%D8%A7%D8%A1-%D8%A7%D9%84%D8%B4%D9%87%D8%AF%D8%A7%D8%A1-2.pdf>

TABLE 10.1
Ministry of Health Hospital-Recorded Deaths in Early 2024

Date	Hospital Registered Deaths								Hospital Deaths (%)			
	Children	Women	Men	Girls	Boys	Females	Males	Total	(W & C) / Total	Women / Men	Girls / Boys	Children / Total
<i>Panel A. Cumulative Totals</i>												
31-Dec-23	4,602	4,659	6,088	2,480	2,122	7,139	8,210	15,349	60.34	76.53	116.87	29.98
30-Jan-24	4,867	4,942	6,803	2,586	2,279	7,528	9,082	16,610	59.05	72.64	113.47	29.30
31-Jan-24	4,872	4,944	6,814	2,587	2,283	7,531	9,097	16,628	59.03	72.56	113.32	29.30
9-Feb-24	4,920	4,978	6,968	2,608	2,312	7,586	9,280	16,866	58.69	71.44	112.80	29.17
10-Feb-24	4,934	4,991	6,986	2,616	2,318	7,607	9,304	16,911	58.69	71.44	112.86	29.18
13-Feb-24	4,973	5,013	7,032	2,631	2,342	7,644	9,374	17,018	58.68	71.29	112.34	29.22
29-Feb-24	5,001	5,078	7,206	2,642	2,359	7,720	9,565	17,285	58.31	70.47	112.00	28.93
2-Mar-24	5,002	5,078	7,231	2,642	2,360	7,720	9,591	17,311	58.23	70.23	111.95	28.89
3-Mar-24	5,008	5,085	7,255	2,647	2,361	7,732	9,616	17,348	58.18	70.09	112.11	28.87
<i>Panel B. Change Since Last Period</i>												
31-Dec-23												
30-Jan-24	265	283	715	106	157	389	872	1,261	43.46	39.58	67.52	21.02
31-Jan-24	5	2	11	1	4	3	15	18	38.89	18.18	25.00	27.78
9-Feb-24	48	34	154	21	29	55	183	238	34.45	22.08	72.41	20.17
10-Feb-24	14	13	18	8	6	21	24	45	60.00	72.22	133.33	31.11
13-Feb-24	39	22	46	15	24	37	70	107	57.01	47.83	62.50	36.45
29-Feb-24	28	65	174	11	17	76	191	267	34.83	37.36	64.71	10.49
2-Mar-24	1	0	25	0	1	0	26	26	3.85	0.00	0.00	3.85
3-Mar-24	6	7	24	5	1	12	25	37	35.14	29.17	500.00	16.22

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TABLE 10.1 (continued)
Ministry of Health Hospital-Recorded Deaths in Early 2024

Date	Hospitals								Hospitals Percentages (%)			
	Children	Women	Men	Girls	Boys	Females	Males	Total	(W & C) / Total	Women / Men	Girls / Boys	Children / Total
<i>Panel C. Change Since Last Period, Standardised Per Day</i>												
31-Dec-23												
30-Jan-24	9	9	24	4	5	13	29	42				
31-Jan-24	5	2	11	1	4	3	15	18				
9-Feb-24	5	4	17	2	3	6	20	26				
10-Feb-24	14	13	18	8	6	21	24	45				
13-Feb-24	13	7	15	5	8	12	23	36				
29-Feb-24	2	4	11	1	1	5	12	17				
2-Mar-24	1	0	13	0	1	0	13	13				
3-Mar-24	6	7	24	5	1	12	25	37				
<i>Panel D. Change from 31 Dec 2024 to 3 Mar 2024</i>												
31-Dec-23												
3-Mar-24	406	426	1,167	167	239	593	1,406	1,999	41.62	36.50	69.87	20.31
<i>Panel E. Change from 31 Dec 2024 to 3 Mar 2024, Standardised Per Day</i>												
31-Dec-23												
3-Mar-24	6	7	19	3	4	9	22	32				

Notes: See Section 11.1 for details. See Appendix 4 for the relevant primary sources.

TABLE 10.2
“70% of Dead are Women and Children”: Hospitals vs. Media Sources

Date	Reported & Implied in MoH Documents						Implied by claimed "70% of Total are Women & Children"		
	"Media Sources" Dead	Hospitals Dead	Total Gaza Dead	"Media Sources"/ Total (%)	Observed Hospital Women & Children (W&C) Dead	Hospital W&C / Hospital Total (%)	Total Women and Children Dead	"Media Sources" Women & Children Dead	Percent of W&C in "Media Sources" (%)
<i>Panel A. Cumulative Totals</i>									
31-Dec-23	6,629	15,349	21,978	30.16	9,261	60.34	15,385	6,124	92.38
30-Jan-24	10,291	16,610	26,901	38.26	9,809	59.05	18,831	9,022	87.67
31-Jan-24	10,391	16,628	27,019	38.46	9,816	59.03	18,913	9,097	87.55
9-Feb-24	11,198	16,866	28,064	39.90	9,898	58.69	19,645	9,747	87.04
10-Feb-24	11,265	16,911	28,176	39.98	9,925	58.69	19,723	9,798	86.98
13-Feb-24	11,558	17,018	28,576	40.45	9,986	58.68	20,003	10,017	86.67
29-Feb-24	12,943	17,285	30,228	42.82	10,079	58.31	21,160	11,081	85.61
2-Mar-24	13,099	17,311	30,410	43.07	10,080	58.23	21,287	11,207	85.56
3-Mar-24	13,186	17,348	30,534	43.18	10,093	58.18	21,374	11,281	85.55
<i>Panel B. Change Since Last Period</i>									
31-Dec-23									
30-Jan-24	3,662	1,261	4,923	74.39	548	43.46	3,446	2,898	79.14
31-Jan-24	100	18	118	84.75	7	38.89	83	76	75.60
9-Feb-24	807	238	1,045	77.22	82	34.45	732	650	80.48
10-Feb-24	67	45	112	59.82	27	60.00	78	51	76.72
13-Feb-24	293	107	400	73.25	61	57.01	280	219	74.74
29-Feb-24	1,385	267	1,652	83.84	93	34.83	1,156	1,063	76.78
2-Mar-24	156	26	182	85.71	1	3.85	127	126	81.03
3-Mar-24	87	37	124	70.16	13	35.14	87	74	84.83
<i>Panel C. Change Since Last Period, Standardised Per Day</i>									
31-Dec-23									
30-Jan-24	122	42	164		18			97	
31-Jan-24	100	18	118		7			76	
9-Feb-24	90	26	116		9			72	
10-Feb-24	67	45	112		27			51	
13-Feb-24	98	36	133		20			73	
29-Feb-24	87	17	103		6			66	
2-Mar-24	78	13	91		1			63	
3-Mar-24	87	37	124		13			74	
<i>Panel D. Change Over Whole Period</i>									
31-Dec-23									
3-Mar-24	6,557	1,999	8,556	76.64	832	41.62	5,989	5,157	78.65
<i>Panel E. Change Over Whole Period, Standardised Per Day</i>									
31-Dec-23									
3-Mar-24	104	32	136		13				

Notes: The 6,629 figure in the 31-Dec-23 “Media Sources” column differs from the figure reported in the MoH document. The MoH document reports a figure of 6,929. However, 6,929 appears to be a typo as the 6,929 and the “Hospitals Dead” total of 15,349 do not sum to the total value of 21,978. The 15,349 figure is corroborated by all the internal calculations of the hospital figures for (1) men, women, and children and (2) males and females (see Table 2 as well as the relevant entry in Appendix 4). The 21,978 figure is corroborated by the matching MoH and GMO reports (see next section). So it appears the 6,929 is incorrect, and is omitted here in favour of the 6,629 implied by the other numbers. Note that using the 6,929 figure does not substantially change the analysis here. See Section 10 for discussion and Appendix 4 for the relevant primary sources.

TABLE 11.1
GMO & MoH Report Matching for Early 2024

MoH Long Reprt				GMO Matching Telegram Updates			
MoH Date	"Media Sources" Dead	Hospitals Dead	Total Gaza Dead	GMO Date	Total (excl. "Under Rubble")	Children	Women
31-Dec-23	6,629	15,049	21,978	2-Jan-24	21,978	9,280	6,600
30-Jan-24	10,291	16,610	26,901	31-Jan-24	26,900	NA	NA
31-Jan-24	10,391	16,628	27,019	2-Feb-24	27,131	NA	NA
9-Feb-24	11,198	16,866	28,064	10-Feb-24	28,064	NA	NA
10-Feb-24	11,265	16,911	28,176	12-Feb-24	28,176	12,300	8,400
13-Feb-24	11,558	17,018	28,576	13-Feb-24	28,576	NA	NA
29-Feb-24	12,943	17,285	30,228	3-Mar-24	30,228		
2-Mar-24	13,099	17,311	30,410	3-Mar-24	30,410	NA	NA
3-Mar-24	13,186	17,348	30,534	4-Mar-24	30,534	13,430	8,900

Notes: This table matches GMO and MoH reports on the basis of their “Total Dead” figures. The reports are not always published exactly contemporaneously, but the total death counts always match exactly, except for in the second row where there is only a one unit difference and the third row where the difference is substantial. The important rows are the ones where the GMO provides figures for women and children (the first, fifth, and final rows). The 6,629 figure in the first entry of the “Media Sources” Dead cloum differs from the 6,929 figure reported in the MoH document. The 6,929 figure in the MoH document appears to an error as it does not accord with the other numbers. See footnotes of Table 10.2 for more details.

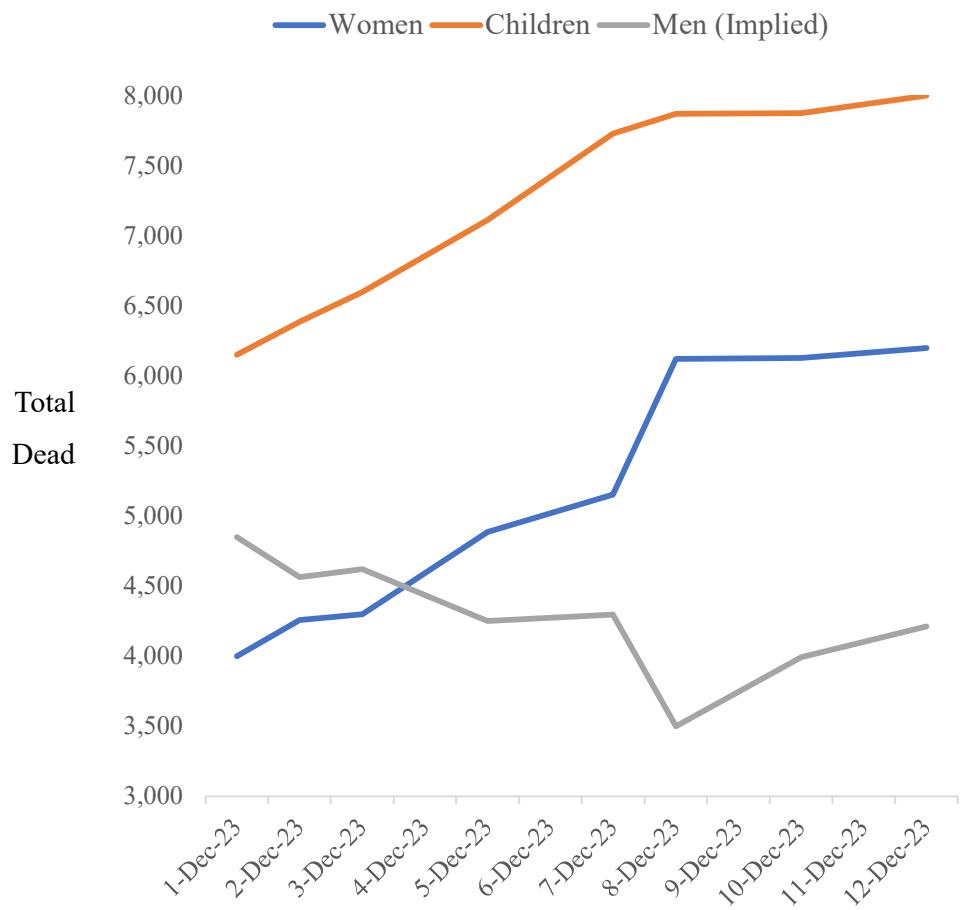
TABLE 11.2
Women and Children in the “Media Sources” Category

Report Date	Children	Women	Men	Total	W & C / Total (%)
Panel A. MoH Hospital Registered Deaths					
31-Dec-23	4,602	4,659	6,088	15,349	60.34
10-Feb-24	4,934	4,991	6,986	16,911	58.69
3-Mar-24	5,008	5,085	7,255	17,348	58.18
Panel B. Matching GMO All Gaza Deaths					
2-Jan-24	9,280	6,600	6,098	21,978	72.25
12-Feb-24	12,300	8,400	7,476	28,176	73.47
4-Mar-24	13,430	8,900	8,204	30,534	73.13
Panel C. GMO - MoH = Media Sources					
	4,678	1,941	10	6,629	99.85
	7,366	3,409	490	11,265	95.65
	8,422	3,815	949	13,186	92.80

TABLE 11.3
Differencing the “Media Sources” Category

Report Date	Children	Women	Men	Total	W & C / Total (%)
Panel A. MoH Hospital Registered Deaths					
10-Feb-24 - 31-Dec-23	332	332	898	1,562	42.51
3-Mar-24 - 10-Feb-24	74	94	269	437	38.44
Panel B. Matching GMO All Gaza Deaths					
12-Feb-24 - 2-Jan-24	3,020	1,800	1,378	6,198	77.77
4-Mar-24 - 12-Feb-24	1,130	500	728	2,358	69.13
Panel C. GMO - MoH = Media Sources					
	2,688	1,468	480	4,636	89.65
	1,056	406	459	1,921	76.11

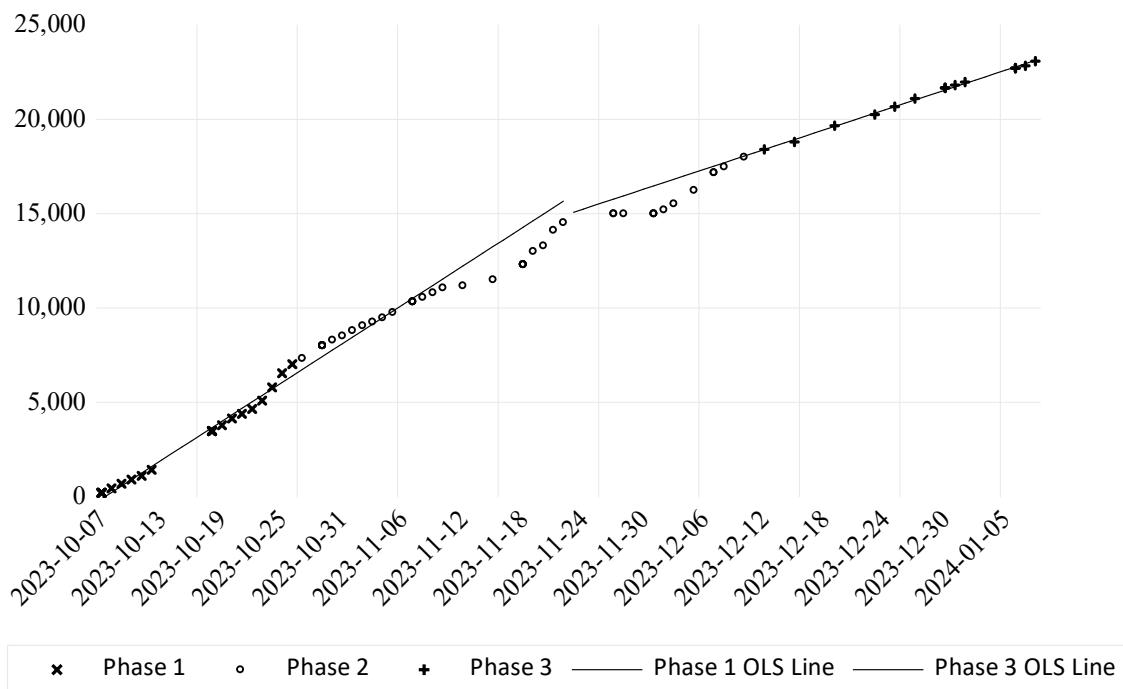
FIGURE 3.1
Male Resurrections in The Gaza Strip



Source: Government Media Organisation Telegram and Infographics. See section 6 for a discussion of this Figure. See Appendix 3 for screencaps of all primary sources.

FIGURE 6.1
Rate of Death Regressions, Phase 1 vs Phase 3

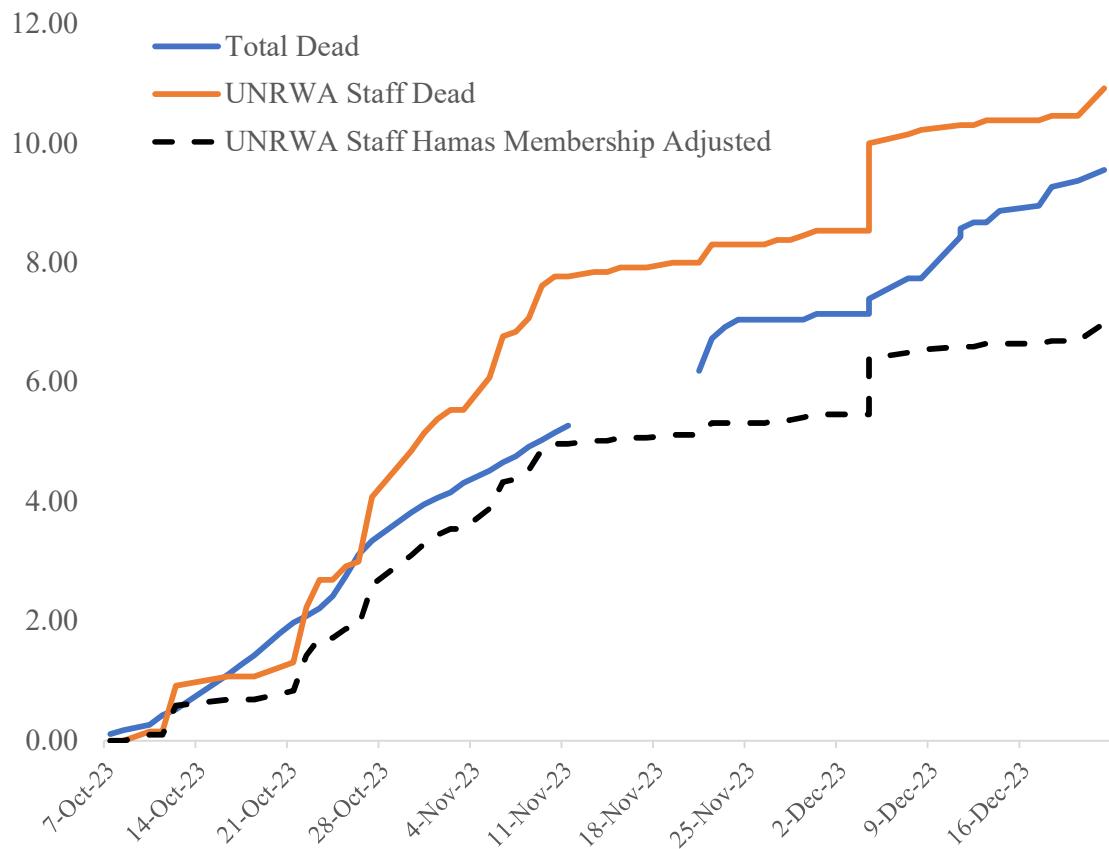
Left-hand axis: total deaths in the Gaza Strip



Notes: the Phase 1 and Phase 3 OLS lines are calculated only using datapoints from their respective phases. However, the fit lines are visually extended into the Phase 2 period to better enable visual comparison of the slopes. The data is combined from MoH and GMO sources. See Section 6 of this document for details.

FIGURE 7.1
Deaths, UNRWA vs Total Gaza

Data is normalised to per 1,000 of the respective population



Note: There is a gap in the Total Dead figure between November 13 and November 19 when UNRWA did not report any data. The large vertical jump on December 4 corresponds to a day in which UNRWA provided two reports on a single day, with the second report adding 19 deaths in a single instance, jumping substantially from 111 to 130. No reason was given for this large jump (see report at https://www.unrwa.org/sites/default/files/content/resources/unrwa_gaza_sitrep_45_dec_4_2023_eng.pdf). The “UNRWA Staff Hamas Membership Adjusted” time series is calculated by taking the fact that women make up 59% of UNRWA employees but only 36% of the dead to calculate an excess death ratio of 36% over the random reference among UNRWA employees. Ergo, the adjusted line runs at 64% of the unadjusted line. See the footnote to Table 7.1 for more details on the calculations of the input values.

Appendix 1 – 2023 Minstry of Health Daily Report Primary Sources

Hamas Ministry of Health 07/10/23

In his tables, Epstein gives an MoH daily figure of 198 for this day, with no category breakdown into woman/children/elderly. There is no daily infographic. The 198 value comes from the MoH Telegram Channel, which is screen capped below (see highlighted text; the original Arabic has been confirmed via Google Translate).

وزارة الصحة الفلسطينية/ غزة
6 October 2023

و

13:45
وزارة الصحة الفلسطينية/ غزة
<https://wp.me/paCNSd-zPS>
wafaa
7 October 2023

و

03:12
وزارة الصحة الفلسطينية/ غزة
*|وزارة الصحة|قطاع غزة|
*|وزارة الصحة|قطاع غزة|

وزارة الصحة تستنكر اقحام قوات الاحتلال الإسرائيلي على استهداف مستشفى الاندونيس شال قطاع غزة سا ادى الى استشهاد احد العاملين فيها واصابة العديد من الموظفين والمواطنين اضافة الى تعطيل محطة الاجسحين
ونوقفها عن انتاج الاجسجين
وازاء هذا الاجرام الاسرائيلي تطالب وزارة الصحة المؤسسات الدولية والانسانية الى اتخاذ كافة الاجراءات التي تحسن حماية المؤسسات الصحية وسيارات الامتعة والطواقم الطبية خلال الطوارئ
wafaa

و

09:44
وزارة الصحة الفلسطينية/ غزة
*|وزارة الصحة|قطاع غزة|
*|وزارة الصحة|قطاع غزة|

وزارة الصحة تدعو المواطنين الى التوجه للمستشفيات وجمعية بنك الدم وفروعها في محافظات قطاع غزة للتبرع بالدم
▲

جمع الشفاء الطبي بحاجة للتبرع بالدم من فصيلة (0) بنوعه السالب والوجب
wafaa
09:44

*|وزارة الصحة|قطاع غزة|
*|وزارة الصحة|قطاع غزة|

وزارة الصحة تستنكر اقحام قوات الاحتلال الإسرائيلي على استهداف سيارة اسعاف بشكل مباشر امام قسم الطوارئ في مجمع ناصر الطبي بخان يونس جنوب قطاع غزة سا ادى الى اصابة العديد من الطواقم الصحية
والموظفين

وازاء هذا الاجرام الاسرائيلي المستمر تطالب وزارة الصحة المؤسسات الدولية والانسانية الى اتخاذ كافة الاجراءات التي تحسن حماية المؤسسات الصحية وسيارات الامتعة والطواقم الطبية خلال الطوارئ
wafaa

09:44

*|وزارة الصحة|قطاع غزة|
*|وزارة الصحة|قطاع غزة|

اجمالى الشهداء والجرحى حتى اليوم السبت
الاسource/ 4.20

شهدى و 1610 اصابة بجرح مختلفة 198
▲
بيان تحديث الاحصائية على رأس الساعة
wafaa

و

13:53
وزارة الصحة الفلسطينية/ غزة
بيان صحفي صادر عن وزارة الصحة في قطاع غزة

Hamas Ministry of Health 08/10/23

Today, the infographic lines up with the very first Telegram post of the next day.

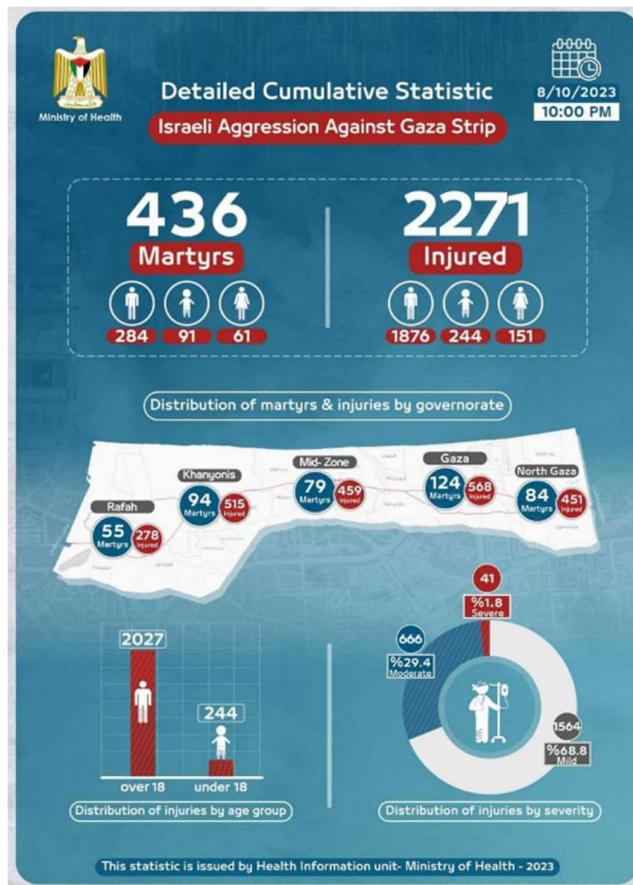
9 October 2023

9
01:58
وزارة الصحة الفلسطينية، غزة
* وزارة الصحة-قطاع غزة psz
* اجمالي احصائية محدثة لضحايا العدوان الإسرائيلي لل يوم الثالث على قطاع غزة
* استشهاد 436 مواطننا منهم 91 طفل و 61 سيدة و اصابة 2271 مواطننا اخر بجرح مختلفه منهم 244 طفل و 151 سيدة 🔴 سيدات
wafaa

Arabic English

436 citizens were killed, including 91 children and 61 women, and 2,271 other citizens were injured with various injuries, including 244 children and 151. [Translate full page](#)

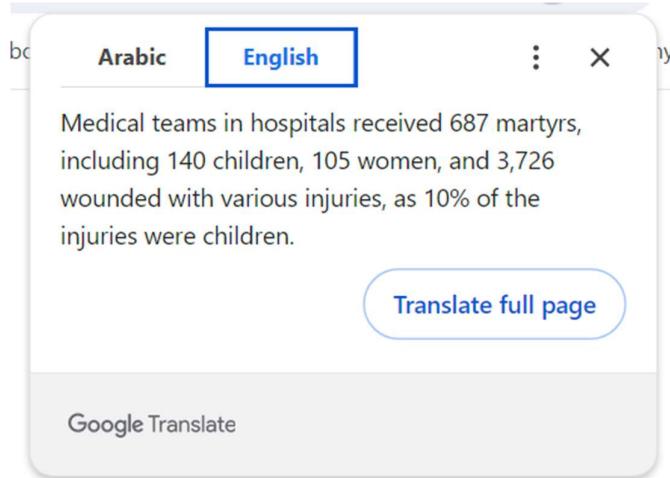
Google Translate



Hamas Ministry of Health 09/10/23

In his tables, Epstein gives an MoH daily figure of 687 for this day, with 140 children, 105 women, and 442 men. The values comes from the MoH Telegram Channel, which is screen capped below (see highlighted text, with the Google Translate of the highlighted text below). The 442 male value is not provided but is implied by the other values.

14:25 وزارة الصحة الفلسطينية، غزة
بيان صحفي صادر عن وزارة الصحة في اليوم الثالث للعدوان الإسرائيلي على قطاع غزة
في اليوم الثالث من العدوان الإسرائيلي المستمر على قطاع غزة، تغير وزارة الصحة عن قائمها العيني (إذاء تصاعد وامتدار العدوان الإسرائيلي من قبل قوات الاحتلال والهجمات المباشرة على المنشآت الطبية والمتبنين بالإبراء)
إننا في وزارة الصحة إذ نوجه تحية خضراء وإجلال لإنقاذ شعبنا الذي يتحمل قسوة العدوان الإسرائيلي بالصبر والتثابر وهو يوسع عزائل يأكلها ويودع ملذات أكاداه من تحت الركام، إذ نوضح ما يأتي
إن لجنة الطوارئ بوزارة الصحة في حال انعقاد دائم وبمتابعة ميدانية لعمل المستشفيات ووحدات الإسعاف وتدير الشهد الصحي لحظة بلحظة ◆
الطاقة الطبية ثانية في البيدان ولم يقدر موقع صلتها بهذه المواقف لم ينبعها عن موصلة وجهها الأخلاقي والأنساني والوطني تجاه شعبها وجرحاه ◆
استقبلت الطواقم الطبية في المستشفيات 687 شهيداً منهم 140 طفلاً و105 سيدة و3726 جريحاً باصابات مختلفة، حيث أن 10% من الاصابات كانت من الأطفال ◆
نُسبت جرائم الاحتلال المتواصلة في تسجيل مجازر حتى 13 عائلة وأدت هذه المجازر إلى استشهاد 105 من ذويهم، ولا زال عدد كبير منهم تحت الركام ◆
استطاعت الطواقم الطبية التعامل مع كافة الاصابات التي وصلت للمستشفيات بدرجات خطورة مختلفة وأجرت مئات العمليات الجراحية الكبرى والصغرى على مدار الساعة ◆
الاحتلال الإسرائيلي يوسع دائرة الاستهداف للطاقم الطبي والمرافق الصحية وسيارات الإسعاف مما كتب باستشهاد 5 من الكوادر الصحية واصابة 10 آخرين بجرح مختلفة، كما تم استهداف 7 مستشفيات وراكب صحي ◆
الحق العدوان الإسرائيلي الضرب يقسم الحضارة بمحض الشفاء الطبي ما أدى إلى سقوط الواح من السقف بجوار أحد الأطفال الدخج جراء استهداف محظوظ الشفاء الطبي ◆
كما أدت هجمات الاحتلال الإسرائيلي لآخر اتجاه مستشفى بيت حانون (الوحيد في المدينة) عن الخدمة جراء استهداف المترکز لمحيط المستشفى مما أدى إلى استحالة دخول وخروج الطواقم منه واليه اضطرة الى التضرر أجزاء واسعة منه وتوقف خدماته ◆
تعد الاحتلال الإسرائيلي استهداف سيارات الإسعاف، حيث استهدف الاحتلال 11 سيارة إسعاف واحدى سيارات الخدمات الصحية ونيرها بالكامل وأخرجاها عن الخدمة ◆
تواصل وزارة الصحة اتصالاتها ولقاءاتها مع المؤسسات الدولية والأنسانية لدعم احتياجات المستشفيات من الأدوية والمستلزمات الطبية والوقود ◆
وفي الختام، نوجه تحية الاحترام والتقدير لشعبنا الصالحة والمتأبه الذي يواجه هجمة عنيفة من قوات الاحتلال الإسرائيلي، ويطالب مصانته على تقديم تضحيات كبيرة من أجل تحقيق حرية واستقلاله
وزار الصحة فتحياع غزة
الاثنين 9/10/2023
wafaa



Hamas Ministry of Health 10/10/23

Again, no infographic for today. All values released via the Ministry of Health Telegram Channel. See screencap below, with google autotranslate. These figure line up with the table in Epstein. As Epstein notes, these figures imply total male deaths of 410, which is 32 men lower than yesterday's implied value of 442.

Arabi

English

1

1. The crimes of the Israeli occupation against our Palestinian people have so far led to the death of 900 martyrs, including 260 children and 230 women, in addition to the wounding of 4,500 citizens with various injuries.

[Translate full page](#)

Google Translate

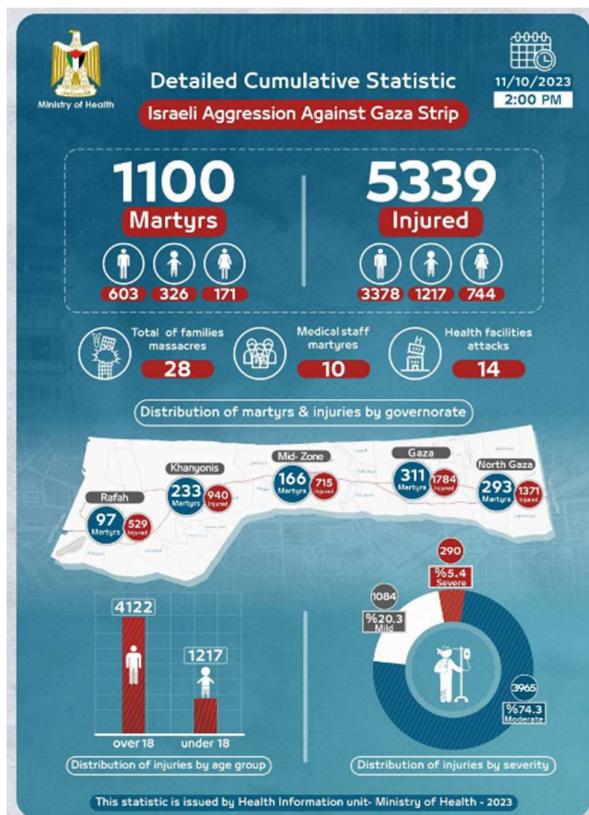
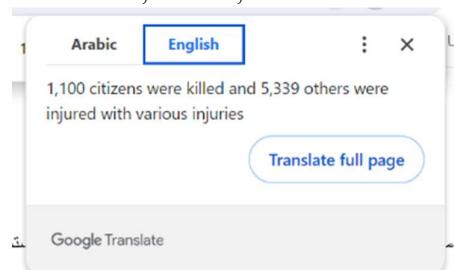
Hamas Ministry of Health 11/10/23

Epstein appears to draw today's totals from the infographic. The MOH telegram announcement contains totals for dead and injured, but no category breakdown into men, women, children.

*||وزارة الصحة-قطاع غزة||
احصائية محدثة لضحايا العدوان الإسرائيلي لل يوم الخامس

الاربعاء ... الساعة 6.20 م

* استشهاد 1100 مواطنًا واصابة 5339 مواطنًا اخر بجرح مختلف
wafaa
١١٢٦



Hamas Ministry of Health 12/10/23

This is a strange day, as the MoH Telegram update is very different from the infographic. Epstein appears to use the values from the infographic. Given the large differences, I suspect this might be a timing issue rather than anything nefarious.



Hamas Ministry of Health 18/10/23

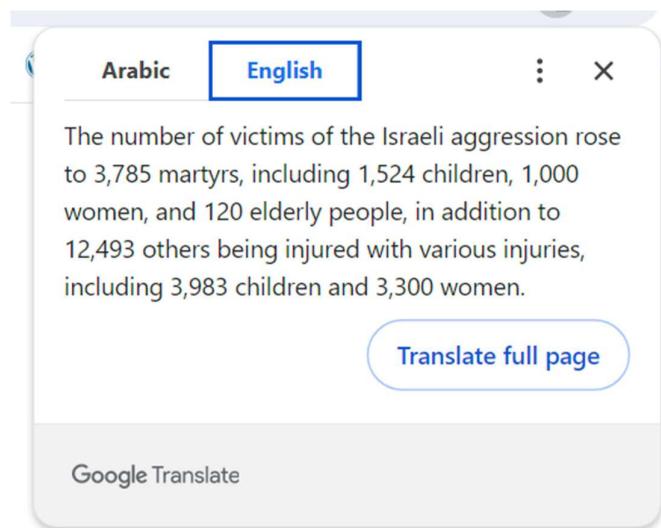
The MoH only provides a total value for today, released via its Telegram Channel. This is the same value reported in Epstein's table. See highlighted Arabic text in screencap, with Google Translate below.

Also of note this day is the claimed 471 deaths at the Baptist hospital:

Hamas Ministry of Health 19/10/23

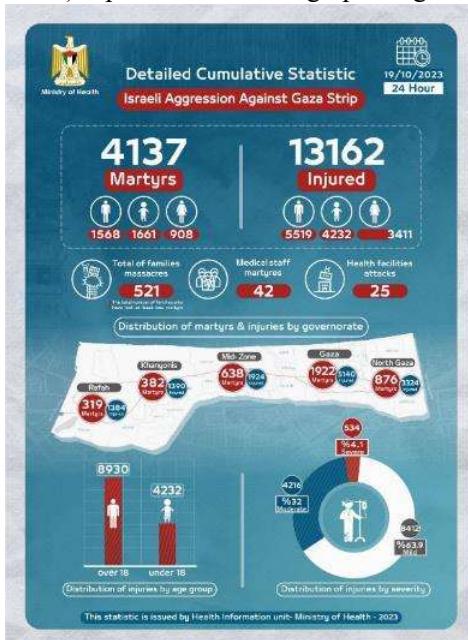
Again, no infographic for today but numbers released via the Ministry of Health Telegram Channel. Epstein takes “men” as the residual of the women, children, and elderly from the total.

06:59 وزارة الصحة الفلسطينية/ غزة خلال المؤتمر الصحفي للمتحدث باسم وزارة الصحة د.أشرف القرنة الاحتلال الإسرائيلي متضرر في اركاب مزيد من المجازر وإبادة العائلات الفلسطينية وتدمير للاميات السكنية والبنية التحتية ● الاحتلال الإسرائيلي يعيق جهود الطواقم الطبية في إخلاء الجرحى بسبب الاستهداف المركز وتقطيع الطرق المؤدية للمستشفيات ●ارتفاع عدد ضحايا العدوان الإسرائيلي إلى 3785 شهيداً منهم 1524 طفلاً و 1000 سيدة و 120 منهن إصابة إلى إصابة 12493 آخرين بجرح مختلفة منهم 3983 طفلة و 3300 سيدة ●انتهاكات الإسرائيلية بحق المنظومة الصحية أدى إلى استشهاد 44 من الطواقم الطبية و إصابة 70 آخرين ● الاحتلال الإسرائيلي تعمد استهداف 23 سيارة اسعاف و خروجها عن الخدمة بعد تدميرها بالكامل ●الانتهاكات الإسرائيلية مستمرة ضد المؤسسات والمرافق الصحية حيث تم استهداف 19 مؤسسة صحية ●توقف العمل في 14 مركز صحي تابع للرعاية الأولية بوزارة الصحة في منطقة غزة وشمال القطاع توقف عملها بسبب انقطاع الكهرباء ونفاد الوقود ●توقف الخدمات الأساسية في مستشفى اليمان السعيد بجباريا وتحويله للطوارئ بسبب انقطاع الكهرباء ونفاد الوقود ●خروج 4 مستشفيات عن الخدمة بسبب الاستهداف المباشر وهي مستشفيات بيت حانون والبرقة والكرامة والعيون الدولي ●مستشفيات قطاع غزة تعاني من ارتفاع نسبة اشغال الأسرة إلى 150 % والحرجي والمرضى يفترشون الأرض ومرات الأقسام ●وزارة الصحة حذرت طاقتها من أجل استمرار تقديم خدمات الرعاية الأولية في 18 مركز صحي ●لابوجود أي مخزون من الأدوية والمستهلكات الطبية ونفاد منها الكبير ●الطواقم الطبية تحبس أنفاسها خشية نفاد ما يتوفر بين يديها من الأدوية والمستهلكات الطبية والتي نفذ منها الكثير ●المنتخب الرسمي



Hamas Ministry of Health 20/10/23

The infographic below is dated 19/10/2023, yet it was released on the 20th, and the 4,137 total figure accords with the total figure the MoH released its Telegram channel on the 20th (see screencap further below). Epstein has the infographic figures entered in the 20th in his table.



20 October 2023

On 19 October 2023, the Israeli occupation forces carried out an aggression on the Gaza Strip, resulting in the death of 4,137 citizens and the wounding of 13,162 others with various injuries.

Health Sector

On 19 October 2023,

Health Sector

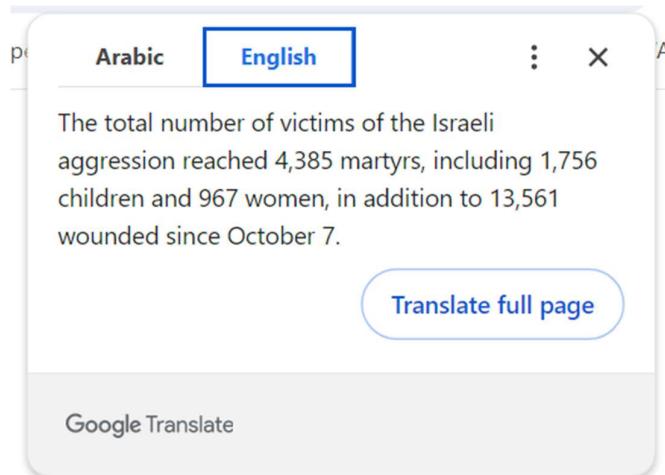
Hamas Ministry of Health 21/10/23

There was no infographic for today, with all figures being released only via the Ministry of Health Telegram Channel. See below for screencap and Google Translate for the highlighted sentences. These values accord with Epstein's. The implied “men” value is 1,662.

06:56

وزارة الصحة الفلسطينية/غزة

بيان صحفي صادر عن وزارة الصحة حول التداعيات الصحية للعدوان الإسرائيلي المستمر على قطاع غزة لليوم الخامس عشر.
ادخل عدد محدود من الشاحنات بشكل ٦٣% فقط ساً كان يدخل يومياً إلى قطاع غزة من الاحتياجات الصحية والانسانية قبل العدوان .
ادخل المساعدات الطبية إلى قطاع غزة سبعة شهوراً مما كان يدخل يومياً إلى قطاع غزة المحاصر، والذي كان يتجاوز الـ 600 شاحنة يومياً .
استثناء ادخال الوقود من المساعدات الإنسانية بسيفي الخطر فائضاً على حياةمرضى والجرحى و استمرار الخدمة المتقدمة للحياة .
تنادى المجتمع الدولي والانتقاء في جمهورية مصر العربية العمل الفوري على ادخال الوقود والاحتياجات الصحية الطارئة قبل فناء المزيد من الضحايا داخل المستشفيات .
الاحتلال الإسرائيلي ارتكب 29 مجزرة خلال الـ 24 ساعة الماضية راح ضحيتها 248 شهيداً و 400 إصابة .
إجمالي ضحايا العدوان الإسرائيلي بلغ 4385 شهيداً منهم 1756 طفل و 967 سيدة إصابة الى 13561 جريح بينما بلغ من المصابين من الكبار .
من ضحايا العدوان الإسرائيلي هم من الأطفال والنساء والمسنين 70% .
.الانتهاكات الإسرائيلية بحق الطفولة أدت إلى استشهاد 51 كباراً مصرياً وإصابة 87 آخرين بجرح مخالفة .
خرج 7 مُستشفى و 25 مركزاً صحياً عن الخدمة بسبب الانتهاكات وفقدان الوقود .
أشغل الأسرة في مستشفيات قطاع غزة فاق 150% والمستشفيات تضطر لإقصاء خيام متعددة لاستيعاب الجرحى والمريض .
وزارة الصحة تحدد مطابقها لكتاب المقادنة والمطابق في كافة الخصخصات الصحية للالتحاق بالعمل في المستشفيات ووحدات الإسعاف .
وزارة الصحة تسعى بكل جهد ممكن لتشغيل ما يمكن من مراكزها الصحية الأولية ونقابة أمن العاملين .
الصحة: تكرار تهديد الاحتلال الإسرائيلي للمستشفيات والتي كان آخرها الليلة الماضية لمستشفى القدس وتتفيد لمذكرة مستشفى العجمي عيادة عزل وشهيده المفتوحة للتقليل من المرض على رعدمه .
على الرغم من التهديدات المستمرة نؤكد أننا لن نغادر موقعنا وسيقى إلى جانب درجنا ومرضانا حتى الرمق الأخير .



Hamas Ministry of Health 22/10/23

Again, Epstein uses values from the infographic below. It is date for the 21st but was released on the 22nd and accords with the Telegram figures from the 22nd. The infographic does not include an elderly category but the corresponding Telegram announcement does. It appears the elderly category in the Telegram announcement must contain 78 elderly women and 109 elderly men. **It is interesting that men increase by 15 from yesterday's count (going by the infographic without the "elderly" category) yet children increases by almost 120.**

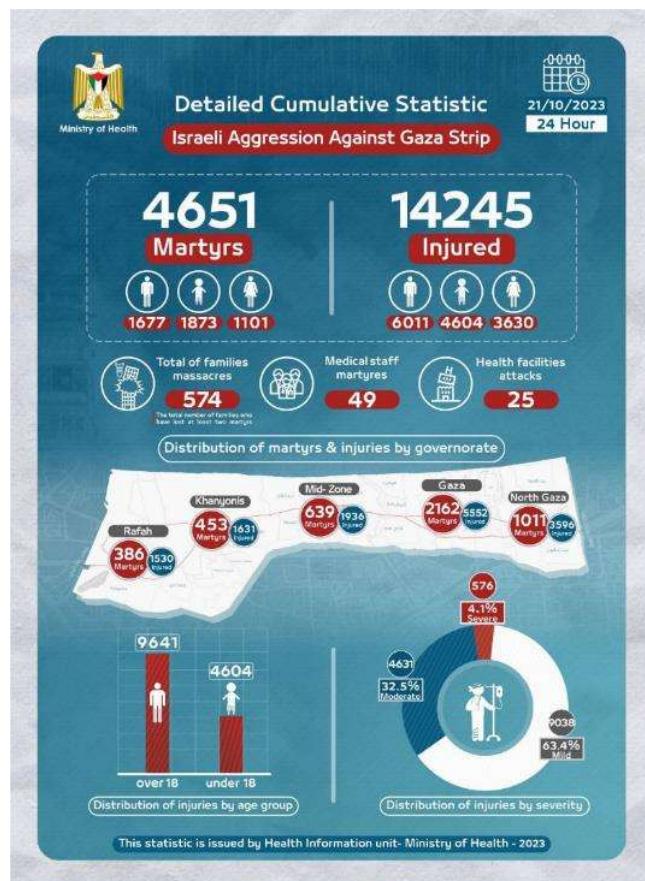
06:41 وزارة الصحة الفلسطينية، غزة
دائرة التغطية
التحذير باسم وزارة الصحة
الاحتلال الإسرائيلي ارتكب 24 مجزرة خلال الـ 24 ساعة الماضية راح ضحيتها 266 شهيداً منهم 117 طفل وعاليتهم من خوب الطفولة
Hamza Salem
06:42 دائرة التغطية
التحذير باسم وزارة الصحة
المجزر الذي ارتكبه الاحتلال الإسرائيلي ضد العائلات بلغت 574 مجزرة راح ضحيتها 3600 شهيداً وصلوا للمستشفيات ولازال احصاء ذلك تحت الاقتفاض
Hamza Salem
06:42 دائرة التغطية
التحذير باسم وزارة الصحة
اجمال ضحايا العدوان الإسرائيلي متعدد العوامل على غزة بلغ 4651 شهيداً منهم 1873 طفل و 1023 سيدة و 187 من النساء الاصحى 14245 مواطن يعانون من جروح مختلفة
Hamza Salem
06:42 دائرة التغطية
التحذير باسم وزارة الصحة
من النهاية تم الإعلان
▲ 40 % من الضحايا هم الأطفال
70 % من الضحايا هم النساء والمسنين
Hamza Salem
06:43 دائرة التغطية
التحذير باسم وزارة الصحة
تلقيها 1450 بليغاً عن مغادرتها لازالت تحت الانعاش منها 800 طفل
▲ Hamza Salem

Arabic
English

The total number of victims of the Israeli aggression since the beginning of the aggression on Gaza amounted to 4,651 martyrs, including 1,873 children, 1,023 women, and 187 elderly people, in addition to 14,245 citizens suffering various injuries.

[Translate full page](#)

Google Translate



Hamas Ministry of Health 23/10/23

Again, the infographic's date corresponds to the Telegram announcement of the following day. Again, the Telegram announcement contains an "elderly" category but the corresponding Infographic does not. From this, we can deduce that there were 37 elderly women and 180 elderly men, which is certainly an unusual ratio **and differs spectacularly from yesterday's implied figures of 78 elderly women and 109 elderly men.**

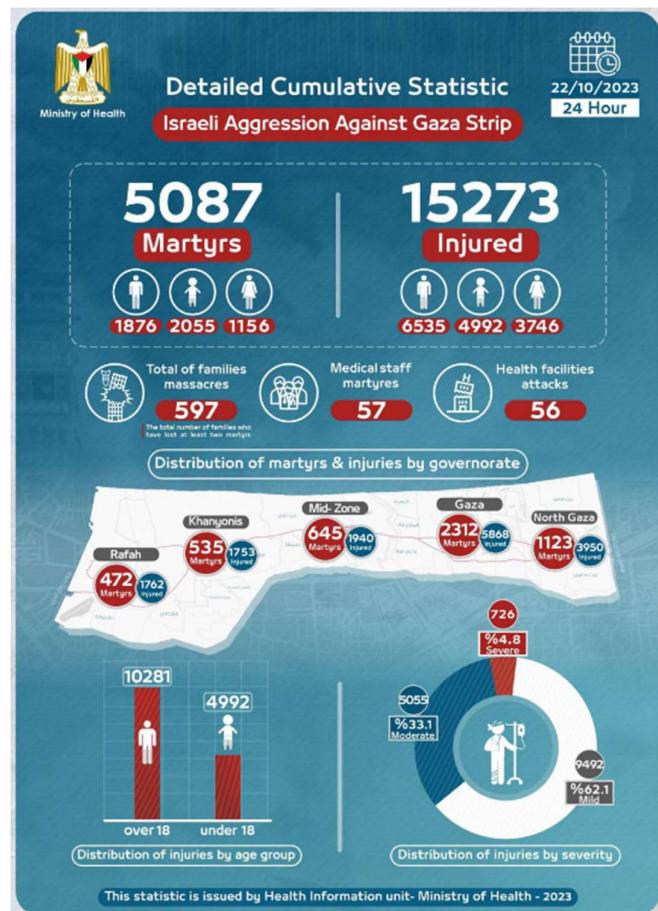


Arabic English

The total number of victims of the Israeli aggression since the beginning of the aggression on Gaza reached 5,087 martyrs, including 2,055 children, 1,119 women, and 217 elderly people, in addition to 15,273 citizens suffering various injuries.

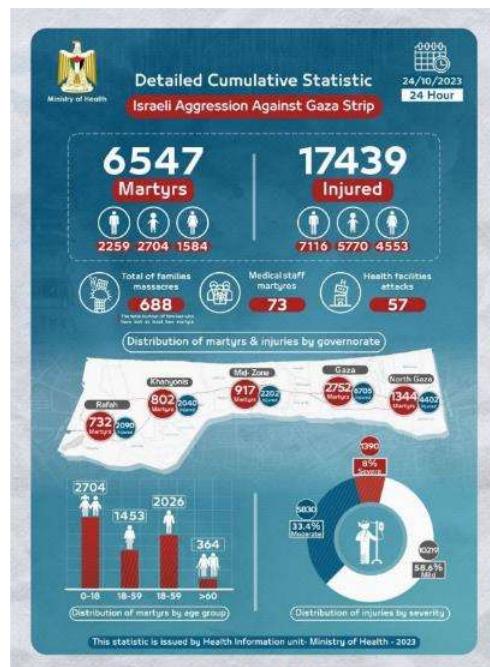
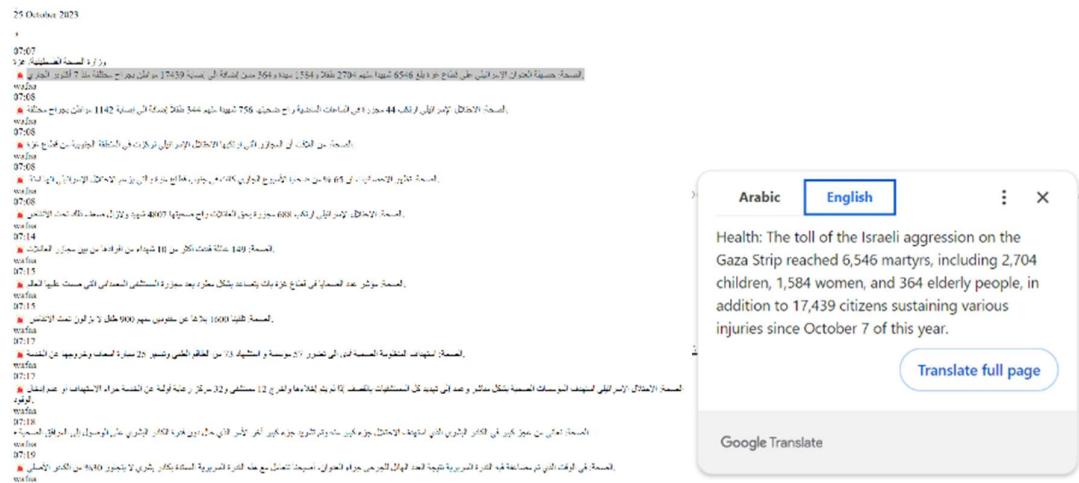
[Translate full page](#)

Google Translate



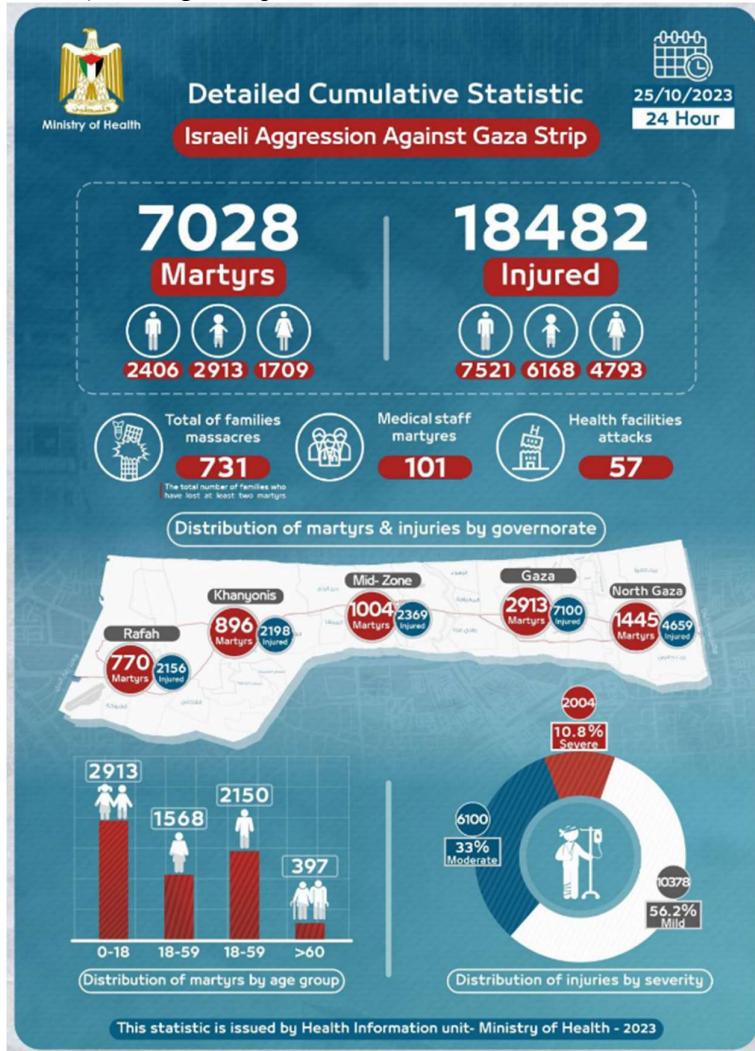
Hamas Ministry of Health 25/10/23

Similar format to yesterday and day before. Here, there is a one unit mismatch between total dead, with the telegram announcement showing 6,546 and the infographic showing 6,547. Of course, this is obviously a trivial difference. What is strange on this day is the perfect match between women in the infographic and Telegram figures; it appears they misreported things here. For the first time, the Infographic contains a bar chart breakdown in the bottom left corner indicating the precise counts for women and men without the elderly component. Via subtraction, we can calculate 131 elderly women and 233 elderly men. So since yesterday only 2 elderly women have died but 67 elderly men!



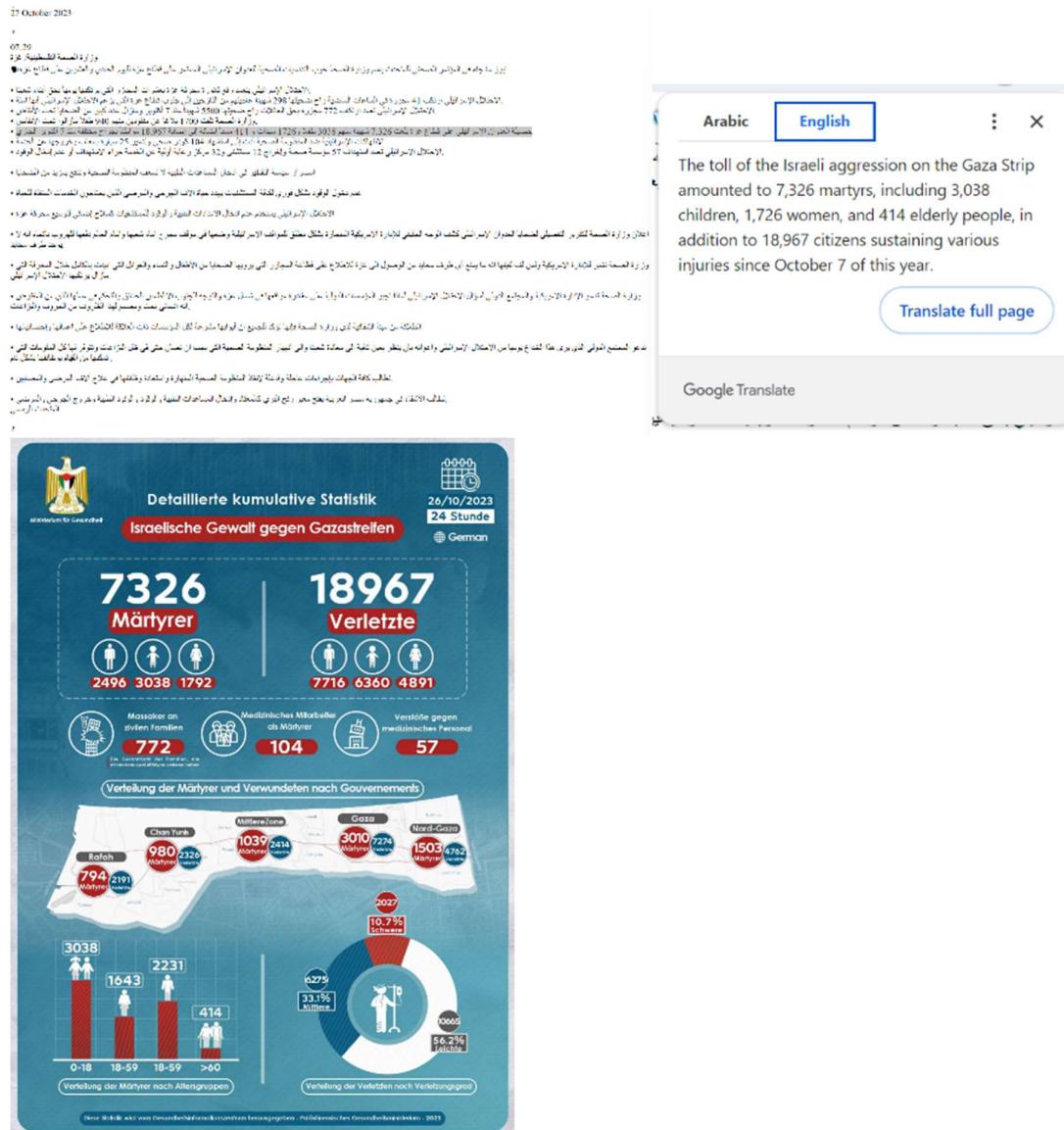
Hamas Ministry of Health 26/10/23

There are very few Telegram entries on the 26th and none relating to death statistics. Epstein appears to have drawn his values from the bar chart in the bottom left of the infographic below. Via subtraction, we can see that today's elderly figures must contain 256 elderly men and 141 elderly women. This represents a much larger daily jump for elderly men than elderly women (23 men vs 10 women), although it is plausible.



Hamas Ministry of Health 27/10/23

Similar arrangement to previous days re. dates and Telegram / Infographic arrangement. Something very strange is happening with the woman figure. The infographic and the telegram post both have total dead at 7,326, children at 3,038, and elderly at 414. However, the infographic appears to claim that 1,792 women died, with 1,643 non-elderly women and 149 elderly women. Yet the announcement on the Telegram channel claims 1,726 women. The telegram report implies 2,148 non-elderly men, yet the infographic has this at 2,231. Via subtraction, the infographic report implies 265 elderly men. If we use the differencing approach between infographic and telegram post, the implied elderly women is 66 and the implied elderly men is 348.



Hamas Ministry of Health 29/10/23

There does not appear to have been an infographic for today. However, figures were announced via the Telegram. These figures are the same as in Epstein's table. As Epstein notes, these figures imply that the "men" category dropped from 2,231 to 2159 over the previous two days.

The toll of the Israeli aggression reached 8,005 martyrs, including 3,324 children, 2,062 women, and 460 elderly people, in addition to 20,242 citizens sustaining various injuries since October 7.

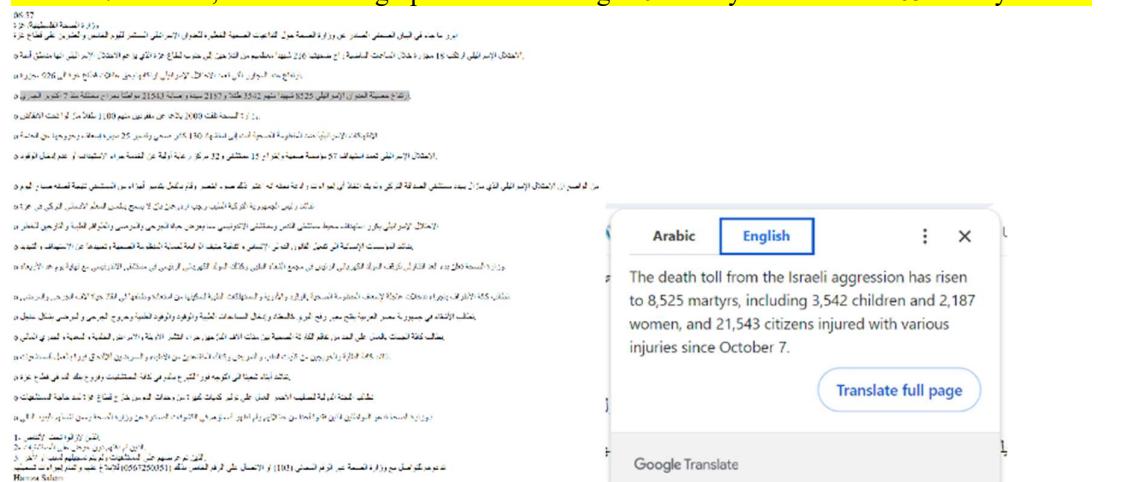
Hamas Ministry of Health 30/10/23

Today, there are very few posts on the MoH Telegram channel today and none of them relate to death counts. In the archive, the Arabic language infographic below is all that I can find. This appears to be where Epstein is drawing his figures from. The implied non-elderly men value of 2,233 represents an increase in only 2 over two days if we go by the reported non-eld men infographic figures, despite increases of (2138-1643=) 493 non elderly women and (3457-3038=) 419 children.



Hamas Ministry of Health 31/10/23

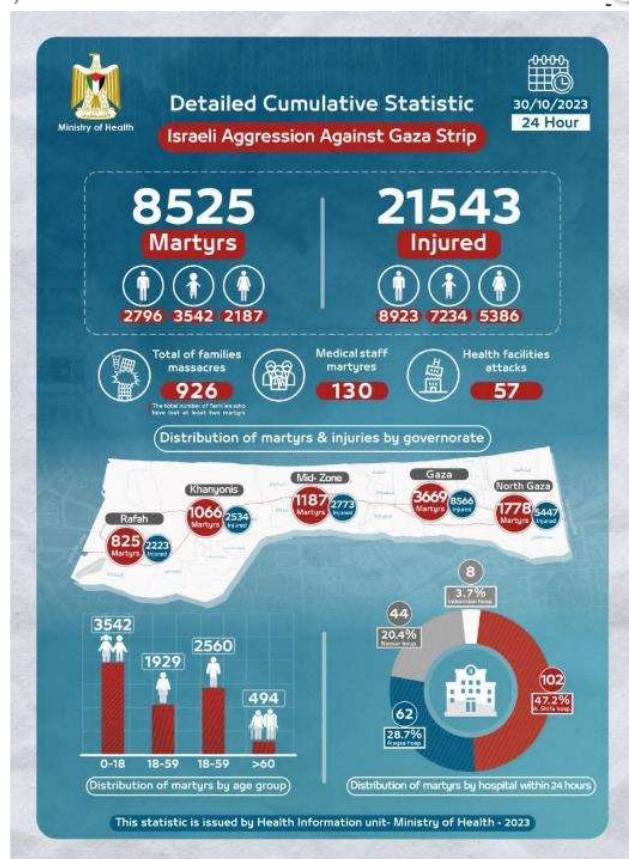
Another day of dual Telegram and Infographic announcements. However, on this day the Telegram announcement exactly mirrors the Infographic main chart, with no separate breakdown for the elderly. The bottom left hand corner contains the breakdown for children/non elderly woman/non elderly man/elderly. Via subtraction, we can see that there must be 258 elderly women and 236 elderly men. Yet on 27 October, the MoH infographic was claiming 149 elderly women and 236 elderly men!!!



Arabic
English

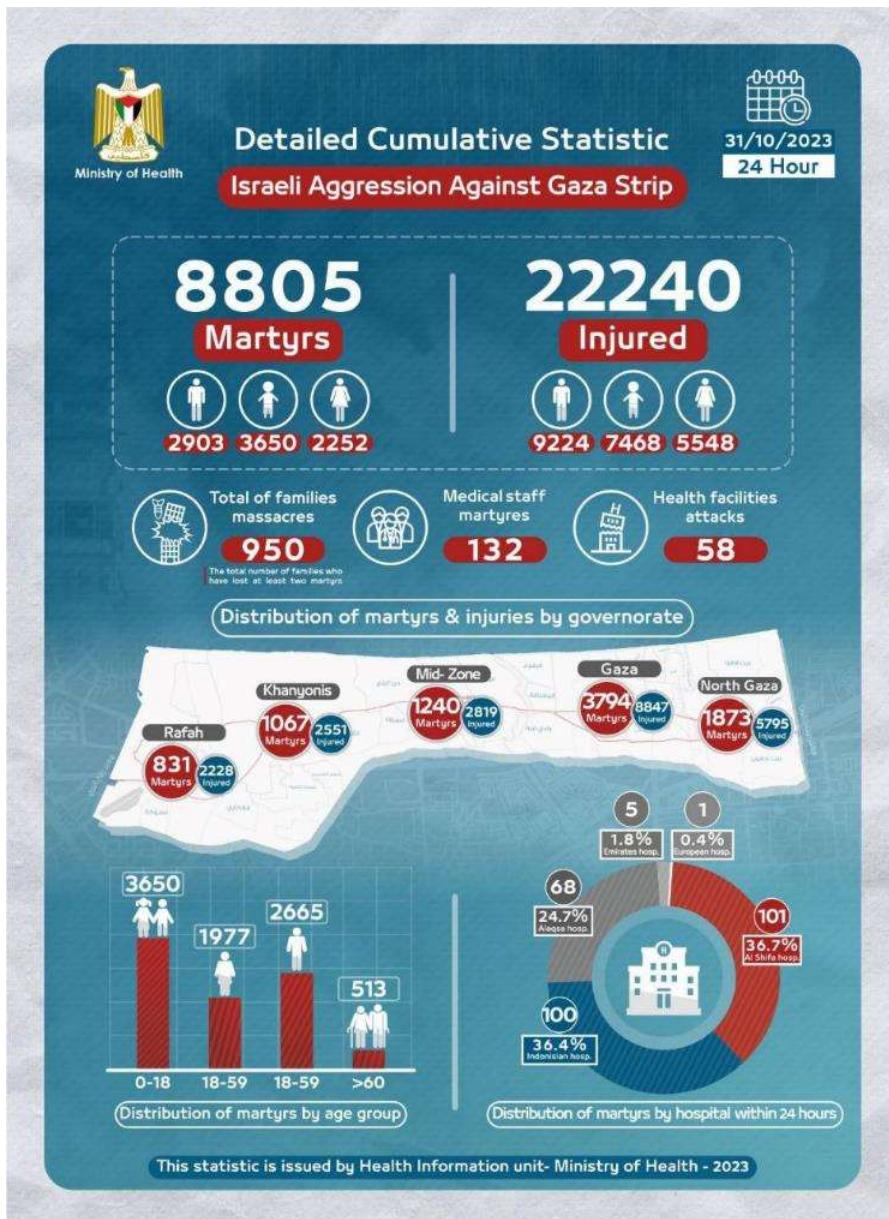
The death toll from the Israeli aggression has risen to 8,525 martyrs, including 3,542 children and 2,187 women, and 21,543 citizens injured with various injuries since October 7.

[Translate full page](#)



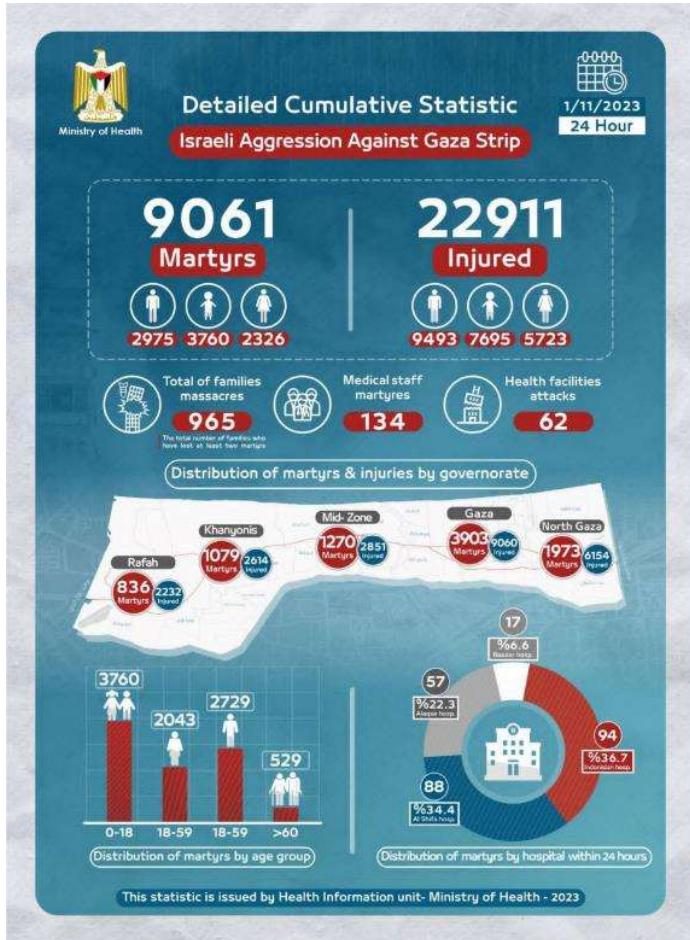
Hamas Ministry of Health 01/11/23

There are no statistics on the MoH Telegram feed for today. Epstein appears to draw all his values from the bar chart in the bottom right hand corner of this infographic. The implied elderly men figure is 238 and the implied elderly women figure is 275. So in the past 24 hours there have been two elderly men deaths but 17 elderly women deaths. At least no-one has come back to life! Also consider that over 100 children have died in the time that only 2 men over 60 have died. Similarly over 100 men between the ages of 18 and 59 have died in the time 2 men over 60 have died.



Hamas Ministry of Health 02/11/23

Again, the Telegram channel appears to contain no death statistics for today. Epstein gathers his data from the bar chart in the bottom right hand of the Infographic below. The values imply 283 elderly women and 246 elderly men, a daily increase in 8 of both categories.



Hamas Ministry of Health 03/11/23

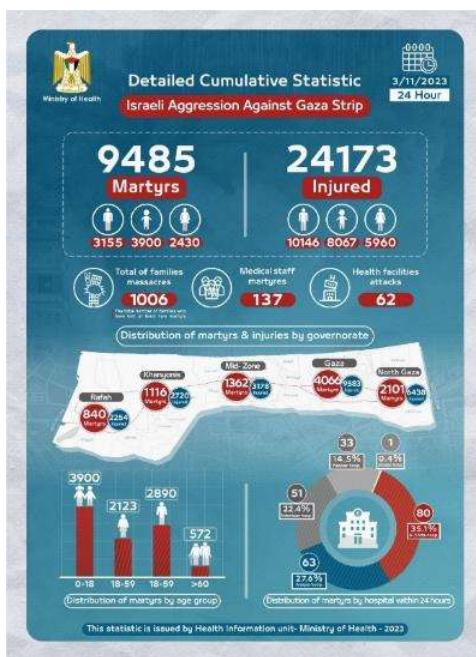
There does not appear to be an infographic for today. Epstein appears to draw his figures from the Telegram post below. Epstein appears to make a mistake with data entry. He should enter the figure 3,026 into the “male” category value but instead enters 2,026.

The death toll from the Israeli aggression rose to 9,257 martyrs, including 3,826 children and 2,405 women, and 23,516,000 were injured with various injuries since the seventh of last October.

Hamas Ministry of Health 04/11/23

Today there is a tiny mismatch between the Telegram and Infographic “total” figures, with 9,488 in the Telegram post and 9,485 in the infographic. Of course, this difference is trivial. Both the Telegram post and Infographic claim exactly 3,900 children dead. But again the “women” counts are weirdly different between Telegram and Infographic. The infographic claims 2,430 total adult women, with 2,123 non-elderly women and (by subtraction) 307 elderly women. But the telegram post mentions 2,509 women, which is 79 more than the infographic. By subtraction, the Infographic claims there are 265 elderly men. Also by subtraction, the Telegram post implies there are 3,079 dead men.

The toll of the Israeli aggression rose to 9,488 martyrs, including 3,900 children and 2,509 women, and 24,158,000 were injured with various injuries since the seventh of last October.

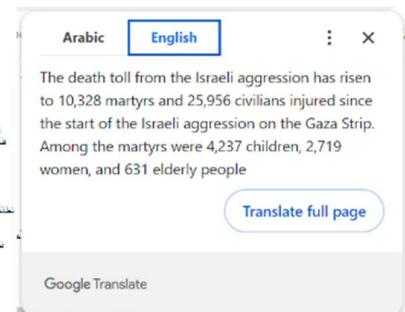


Hamas Ministry of Health 07/11/23

Today seems to be the last time the MoH provides an infographic, although it is one of the simpler Arabic language ones. As you can see, its numbers are identical to the corresponding Telegram post. They are also the same as on Epstein's table. The implied non-elderly adult male value is 2,741.

7 November 2023

2



Hamas Ministry of Health 08/11/23

Today, Epstein appears to derive his figures from the MoH Telegram post. The implied non-elderly men death value is 2,773.

8 November 2023

05:46
اعلاماء في قسم الطبي للبحث باسم وزارة الصحة، اشرف المندوب اليوم 33 الع oran الإسرائيلي على قطاع غزة
الاحتلال الإسرائيلي يسرى في ارتكاب جرائم الإبادة الجماعية بحق شعبنا والجيش الإسرائيلي لا زال عذراً عن وقف العنوان العثماني
الاحتلال الإسرائيلي ارتكب 27 مجزرة خلال الساعات الماضية وراح ضحيتها 241 شهداً
من العاجزين في الملاعنة المسجدية كانوا من قتلى قطاع غزة بما ينفي ادعاء الاحتلال الإسرائيلي بأنها مطلع امرة 49%
ارتفاع حصيلة المدارس التي ارتكبها الاحتلال بحق المدارس الفلسطينية الى 1098 عائلة
ارتفاع حصيلة الجنود (الإسرائيليين) الى 10569 شهيداً من بينهم النساء 4324 طفل
تلقيا 2550 بدمما عن ملوكين منه 1350 ملولا لا زالت تحت الإنعاش منه مدة العوران
قولا: فيما ينفي دلائلها ادعاءات الاحتلال الإسرائيلي بحق الحكومة المصرية لزى الى
الاحتلال الإسرائيلي زاد من استهداف المواقع العسكرية متى استشهد 193 ذكر أصبعاً وشبر 15 ملوكاً إلمساف
الاحتلال الإسرائيلي استهدف 120 مدرسة مهنية وآخر 18 مهنتي و 40 مركز صحي من الخدمة بسبب الاعتداءات وتلقي الرغوة

The toll of the Israeli aggression has risen to 10,569 martyrs, including 4,324 children, 2,823 women, and 649 elderly martyrs, and 26,475 citizens injured since last October 7.

Translate full page

Google Translate

Hamas Ministry of Health 09/11/23

No infographic today.



Arabic English

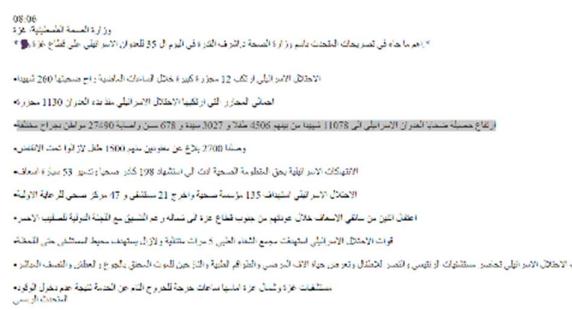
The death toll from the Israeli aggression has risen to 10,818 martyrs, including 4,412 children, 2,918 women, and 667 elderly people, and 26,905 citizens injured since October 7th.

Translate full page

Google Translate

Hamas Ministry of Health 10/11/23

No infographic today.



Arabic English

The death toll of the Israeli aggression rose to 11,078 martyrs, including 4,506 children, 3,027 women, and 678 elderly people, and 27,490 citizens were injured with various injuries.

Translate full page

Google Translate

Hamas Ministry of Health after 10/11/23

From here on, the MoH only provides intermittent “Total” values. Epstein appears to have most of these right, except for on 10 December, when he mistakenly enters 17,977 instead of the correct value of 17,997. The archived MoH Telegram feed stops at January 5, so I am not sure where Epstein got the “Total” values for the 6th, 7th, and 8th of January. This is somewhat troubling for Epstein’s 6 January figure of 22,722 as I cannot find any values for this day on the GMO, OCHA and Ramallah databases.

Appendix 2 – 2023 Government Media Organisation Daily Report Primary Sources

GMO 09/10/23



GMO 11/10/23



GMO 18/10/23



GMO 20/10/23



GMO 21/10/23





GMO 01/11/23



GMO 04/11/23



GMO 05/11/23



GMO 07/11/23



GMO 12/11/23



GMO 15/11/23



GMO 18/11/23



GMO 19/11/23



GMO 20/11/23



GMO 21/11/23



GMO 22/11/23



GMO 27/11/23



GMO 28/11/23



GMO 01/12/23



GMO 02/12/23



GMO 03/12/23



The GMO did not provide an infographic today. However, it did provide an update via its Telegram channel:

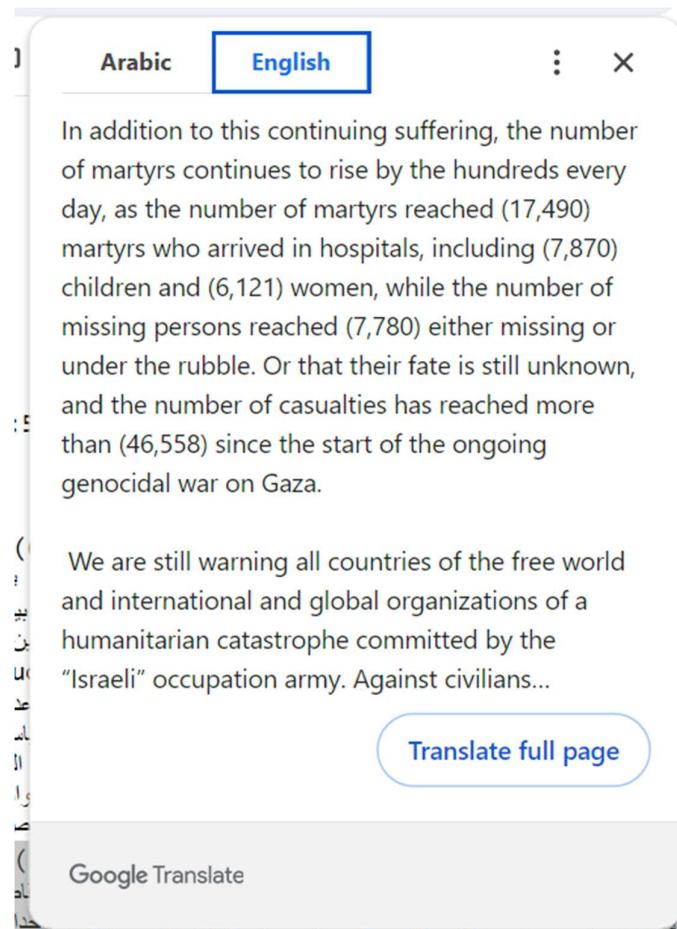
The "Israeli" occupation army committed After his refusal to continue the humanitarian truce, (77 massacres) claimed the lives of (1,248) martyrs who arrived at hospitals, while hundreds of martyrs were still under the rubble, and civil defense crews were unable to recover their bodies. Thus, the number of martyrs who arrived at hospitals increased (16,248) martyrs, in (1,550) massacres since the start of the brutal war, including (7,112) children and (4,885) women, and the number of martyrs among medical teams reached (286) doctors and medical teams, and (32) martyrs from civil defense crews, and (81) journalists....

[Translate full page](#)

GMO 07/12/23



The GMO did not provide an infographic today. However, it did provide an update via its Telegram channel:



GMO 10/12/23

The GMO did not provide an infographic today. However, it did provide an update via its Telegram channel:

In addition to this continuing suffering, the number of martyrs continues to rise by the hundreds every day, as the number of martyrs reached (17,997) martyrs who arrived at hospitals, including (7,875) children and (6,130) women, while the number of missing persons reached (7,760) either missing or under the rubble. Or their fate is still unknown, and the number of casualties has reached approximately (49,229) since the start of the ongoing genocidal war on Gaza.

[Translate full page](#)



GMO 15/12/23

The GMO did not provide an infographic today. However, it did provide an update via its Telegram channel:

Arabic English ⋮ X

Statistics (Friday 12/15/2023):
(70) days since the genocidal war.
(1680) massacres committed by the occupation.
(18800) martyrs who arrived at hospitals.
(8000) martyrs of children.
(6200) martyrs of women.
(300) martyrs of medical personnel.
(32) martyrs of civil defense.
(89) martyrs of journalists.
(7500) (Missing, 70% of children and women.
(51,000) wounded.
(40) Cases of arrest of medical personnel.
(7) Cases of arrest of journalists.
(1.5) One and a half million displaced people.
(7) Cases of arrest of journalists.
(1.5) One and a half million displaced.
 (126)
Government headquarters destroyed by the
occupation.
(90...)

Translate full page



The GMO did not provide an infographic today. However, it did provide an update via its Telegram channel:

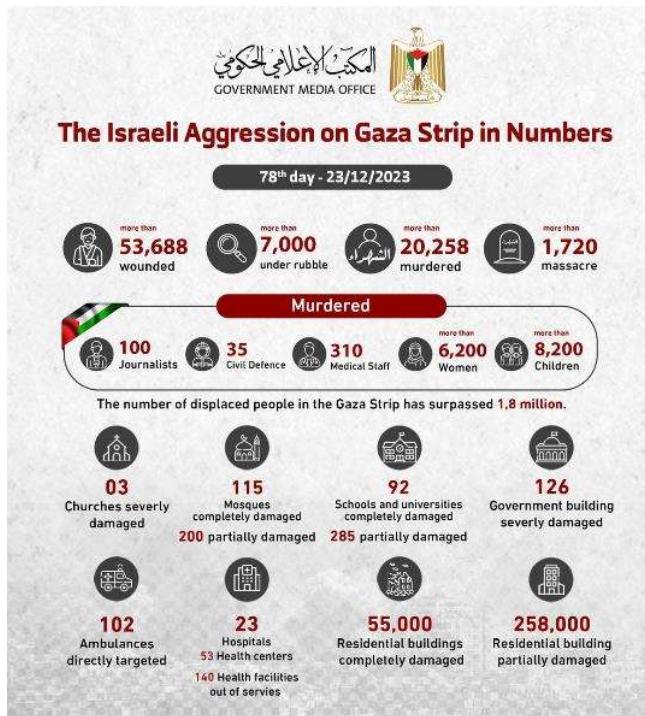
Arabic English : X

75 days have passed since the genocidal war, during which the occupation army committed (1,700) massacres, claiming the lives of (26,700) martyrs and missing persons, including (20,000) martyrs who arrived at hospitals, including (8,000) child martyrs, and (6,200) female martyrs. Of women, (310) martyrs of medical personnel, (35) martyrs of civil defense, and (97) martyrs of journalists.

(6,700) are still missing, either under the rubble or their fate is still unknown, although 70% of these are children and women, while (52,600) were infected.

[Translate full page](#)

GMO 23/12/23



GMO 25/12/23



GMO 27/12/23



GMO 30/12/23





GMO 01/01/23

The GMO did not provide an infographic today. However, it did provide an update via its Telegram channel:

Arabic English : X

21,978 martyrs who arrived at hospitals.
(9,280) martyrs of children.
(6,600) martyrs of women.
(326) martyrs of medical personnel.
(40) martyrs of civil defense.
(106) martyrs of journalists.

[Translate full page](#)

Google Translate

GMO 06/01/24



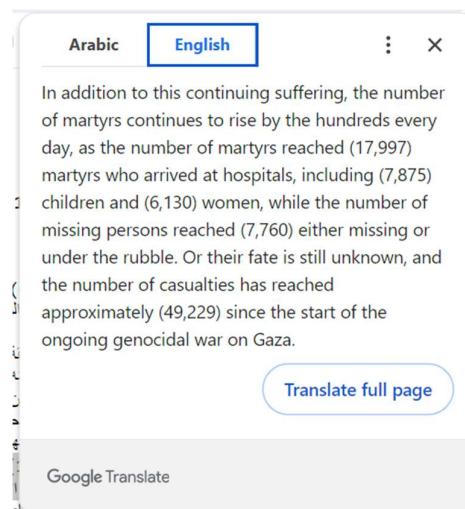
GMO 07/01/24





Appendix 3 – Difference-in-Difference Primary Sources

GMO Telegram Post 10/12/23



APPENDIX 3 (cont.)

GMO Infographic Report 31/12/23



APPENDIX 3 (cont.)

Relevant table of MoH Report 11/12/23 – Original and Autotranslated

Note that the MoH report for December 11 reports a cumulative total figure of 1,292 for "Carpenter" hospital. However, the relevant "Category" and "Gender" cells both sum to 1,276. The 1,276 total value is further corroborated by the informing "Category" and "Gender" totals. In our analyses, we use the internally consistent 14,253 figure, as opposed to 14,269 as reported in the “total” of the MoH Table. This modification flows through to the total count for the period, which we take to be 18,396 rather than 18,412 as reported in the tables below. This does not significantly affect our analyses, but it should be noted.

النفير التراكمي للشهداء							
بلغ تراكمي عدد الشهداء منذ بداية العدوان حتى تاريخ ٢٠٢٣/١٢/١١ عدد ١٨,٤١٢ شهيداً (١٤٢٦٩ منهم مسجّل، فيما تم رصد أكثر من ٤١٤٣ شهيداً وفق المصادر الإعلامية الموثوقة بسبب انقطاع التواصل مع مستشفيات غزة والشمال)							
تصنيف حسب الجنس			تصنيف حسب الجنس				
أطفال	ناء	رجال	إناث	ذكور	تراكمي شهداء	المستشفى	
452	620	710	832	950	1782	الأندونيسبي*	
152	207	345	304	400	704	كمال عدوان*	
1541	1150	1425	2014	2102	4116	الشفاء*	
1099	1312	1597	1942	2066	4008	شهداء الأقصى	
519	564	760	815	1028	1843	ناصر	
96	101	219	156	260	416	الأوروبية	
418	366	492	557	719	1292	العيار	
50	29	29	59	49	108	الإماراتي	
4327	4349	5577	6679	7574	14269	الإجمالي	
* ملاحظات:							
- تم اعتماد أرقام المستشفيات (الأندونيسبي، كمال عدوان، الشفاء) وفق آخر تحديث للبيانات قبل انقطاع التواصل عبر نظام المعلومات الخاص بالمستشفيات بتاريخ ٢٠٢٣/١٢/١١.							
- وفق البلاغات والمصادر الإعلامية تم رصد المجازر بحق العائلات لتكون الزيادة في أعداد الشهداء لاتقل عن ٤١٤٣ شهيد حتى تاريخ ٢٠٢٣/١٢/١١.							
- هذه الأرقام لا تشمل المفقودين والجثث العالقة تحت الانقاض.							
اجمالي الشهداء وفق البلاغات والمصادر الإعلامية حتى تاريخ ٢٠٢٣/١٢/١١		١٨,٤١٢					

Cumulative report on martyrs:						
The cumulative number of martyrs since the beginning of the aggression until the date of 11/12/2023 reached 18,412 martyrs (14,269 of whom were registered, while more than 4,143 martyrs were monitored according to reliable media sources due to the interruption of communication with hospitals in Gaza and the north)						
Classification by category			Classification by gender			
children	women	men	Female	Males	Cumulative martyrs	The hospital
452	620	710	832	950	1782	Y Indonesia*
152	207	345	304	400	704	Kamal Adwan*
1541	1150	1425	2014	2102	4116	Healing*
1099	1312	1597	1942	2066	4008	Memories of Al Aqsa
519	564	760	815	1028	1843	supreme
96	101	219	156	260	416	European
418	366	492	557	719	1292	Rescue
50	29	29	59	49	108	Emirati
4327	4349	5577	6679	7574	14269	Total
*Notes:						
- Hospital numbers (Indonesian, Kamal Adwan, Al-Shifa) were adopted according to the latest data update before the interruption.						
Communication via the hospital information system on 11/11/2023.						
- According to reports and media sources, massacres of families were monitored, so that the increase in the number of martyrs was no less than 4143 martyrs as of 11/12/2023. These numbers include the missing and the bodies trapped under the rubble.						
18,412		Total martyrs according to reports and media sources until 11/12/2023				

APPENDIX 3 (cont.)

Relevant table of MoH Report 31/12/23 – Original and Autotranslated

State of Palestine
Ministry of Health
Public Health Emergency Operation Center



دولة فلسطين
وزارة الصحة
مركز عمليات الطوارئ الصحية

✓ التقرير التراكمي للشهداء

بلغ تراكمي عدد الشهداء منذ بداية العدوان **21,978** شهيداً (15,349) منهم مسجلين، فيما تم رصد

أكثر من **6,929** شهيداً وفق المصادر الإعلامية الموثوقة بسبب انقطاع التواصل مع مستشفيات

غزة والشمال)

تصنيف حسب الفئة			تصنيف حسب الجنس		تراكمي شهداء	المستشفى
أطفال	نماء	رجال	إناث	ذكور		
452	620	710	832	950	1782	*الإندونيسي*
152	207	345	304	400	704	*كمال عدونان*
1541	1150	1425	2014	2102	4116	*الشفاء*
1190	1468	1814	2155	2317	4472	شهداء الأقصى
593	627	913	909	1224	2133	ناصر
139	140	288	218	349	567	الأوروبي
485	418	564	648	819	1467	التجار
50	29	29	59	49	108	الإماراتي
4602	4659	6088	7139	8210	15349	الإجمالي

تم اعتماد أرقام المستشفيات (الإندونيسي، كمال عدونان، الشفاء) وفق آخر تحديث للبيانات
قبل انقطاع التواصل عبر نظام المعلومات الخاص بالمستشفيات بتاريخ 2023/11/12.
هذه الأرقام لا تشمل المفقودين والجثث العالقة تحت الانقاض.

State of Palestine
Health of Ministry
Public Health Emergency Operation Center



Palestine is a state
Ministry of Health
Health emergency operations center

յ Cumulative report of the martyrs

15,349 martyrs, of whom were registered, while monitored. The cumulative number of martyrs since the beginning of the aggression reached 21,978

T according to reliable media sources, due to a breakdown in communication with her hospital A martyr. More than 6,929 .

Gaza and the North)

Classification by category			Classification by gender:		Cumulative martyrs	The hospital
children	women	men	female	Males		
452	620	710	832	950	1782	*Indonesian*
152	207	345	304	400	704	*Kamal Adwan*
1541	1150	1425	2014	2102	4116	*Healing*
1190	1468	1814	2155	2317	4472	* Martyrs of Al-Aqsa
593	627	913	909	1224	2133	supporter
139	140	288	218	349	567	European
485	418	564	648	819	1467	The carpenter
50	29	29	59	49	108	Emirati
4602	4659	6088	7139	8210	15349	Total

Shifa) were approved according to the latest data update before The hospital numbers (Indonesian, Kamal Adwan, Al-
the interruption of communication through the hospitals' information system on 11/12/2023.

These numbers include missing persons and bodies trapped under the rubble.

Note

Appendix 4 – Relevant 2024 Ministry of Health Reports

December 31st MoH Report

Original

✓ التقرير التراكمي للجري

بلغ تراكيجي عدد الجرحى منذ بداية العدوان 56,697 شهيداً، منهم 45,313 مسجلون، فيما تم رصد أكثر من 11,384 شهيداً وفق المصادر الإعلامية الموثوقة بسبب انقطاع التواصل مع ممتلكاتهم في غزّة والشمال.

تصنيف حسب الفئة			تصنيف حسب الجنس		تراكمي الجنسي		المستشفى
أطفال	نماء	رجال	إناث	ذكور			
1390	1202	2254	2306	2540	4846	*	الإندونيسي
770	840	1681	1571	1720	3291	*	كمال عدوان
1970	3250	4786	4306	5700	10006	*	الشفاء
2448	2835	4834	5787	4330	10117	*	الأقصى
2052	1890	3953	2770	5125	7895	*	ناصر
859	1085	2250	1580	2614	4194	*	الأوروبي
1258	1311	2287	2042	2814	4856	*	الجار
40	31	37	47	61	108	*	الإماراتي
10787	12444	22082	20409	24904	45313	*	الإجمالي

Translated

✓ Cumulative report of the martyrs

15,349 martyrs, of whom were registered, while monitored; The cumulative number of martyrs since the beginning of the aggression reached **21,978**

Two people were killed and three others injured, according to reliable media sources, due to a breakdown in communication with their hospital A martyr. More than 6,929

Gaza and the North

Classification by category			Classification by gender:		Cumulative martyrs	The hospital
children	women	men	female	Males		
452	620	710	832	950	1782	Indonesian*
152	207	345	304	400	704	Kamal Adwan*
1541	1150	1425	2014	2102	4116	Healing*
1190	1468	1814	2155	2317	4472	** Martyrs of Al-Aqsa
593	627	913	909	1224	2133	supporter
139	140	288	218	349	567	European
485	418	564	648	819	1467	The carpetter
50	29	29	59	49	108	Emirati
4602	4659	6088	7139	8210	15349	Total

January 30th MoH Report

Original

✓ التقرير التراكي للشهداء

- بلغ تراكي عدد الشهداء منذ بداية العدوان **26.901 شهيداً** (16.610 منهم ممجلين، فيما تم رصده أكثر من **10.291** شهيداً وفق المصادر الإعلامية الموثوقة بسبب انقطاع التواصل مع مستشفيات غزّة والشمال).

تصنيف حسب الفئة				تصنيف حسب الجنس		ترابكي شهداء	المستشفى
أطفال	نساء	رجال	إناث	ذكور			
452	620	710	832	950		1782	الإندونيسي*
152	207	345	304	400		704	كمال عدوان*
1541	1150	1425	2014	2102		4116	الشما*
1294	1608	2092	2335	2659		4994	شهيد الأقصى
651	702	1147	1011	1489		2500	ناصر
179	170	419	258	508		766	الأدروبي
548	456	636	715	925		1640	التعار
50	29	29	59	49		108	الإماراتي
4867	4942	6803	7528	9082		16610	الجمالي

▪ تم اعتبار أرقام المستشفيات (الإندونيسي، كمال عدوان، الشما) وفق آخر تحديث للبيانات قبل انقطاع التواصل عبر نظام المعلومات الخاص بالمستشفيات بتاريخ ٢٠١٣/١١/١٢.
▪ هذه الأرقام لتشتمل المفقودين والجثث العالقة تحت الأنقاض.
▪ ملاحظة

Translated

✓ Cumulative report of the martyrs

16,610 martyrs, of whom were registered, while monitoring was carried on. The cumulative number of martyrs since the beginning of the aggression reached 26,901

according to reliable media sources, due to a breakdown in communication with hospitals A martyr More than 10,291 .

Gaza and the North)

Classification by category			Classification by gender		Cumulative martyrs	The hospital
children	women	men	Female	Males		
452	620	710	832	950	1782	Indonesia*
152	207	345	304	400	704	Kamal Adwan*
1541	1150	1425	2014	2102	4116	Healing*
1294	1608	2092	2335	2659	4994	Al-Aqsa Hospital
651	702	1147	1011	1489	2500	Supporter
179	170	419	258	508	766	European
548	456	636	715	925	1640	Al-Aqsa Hospital
50	29	29	59	49	108	Emirati
4867	4942	6803	7528	9082	16610	Total

Kamal Adwan, Al Shma (according to the latest data update). Hospital numbers were approved (Indonesia, before ٢٠١٣/١١/١٢). Communication was cut off via the hospital information system on ٢٠١٣/١١/٢٠٢٣.
Note

These numbers include missing persons and bodies trapped under the rubble.

January 31st MoH Report

Original

✓ التقرير التركي للشهداء

▪ بلغ تراكيجي عدد الشهداء منذ بداية العدوان **27.019** شهيداً (منهم مسجلون، فيما تم رصد

أكثر من **10.391** شهيداً وفق المصادر الإعلامية المؤوثة بسبب انقطاع التواصل مع المستشفيات

(غزة والشمال)

تصنيف حسب الفئة			تصنيف حسب الجنس			تراكيجي شهداء	المستشفى
اطفال	نماء	رجال	إناث	ذكور			
452	620	710	832	950	1782		*الإندونيسي
152	207	345	304	400	704		كمال عدوان*
1541	1150	1425	2014	2102	4116		الشفاء*
1294	1608	2092	2335	2659	4994		شهداء الأقصى
652	703	1147	1012	1490	2502		ناصر
180	170	424	258	514	772		الأوروبي
551	457	642	717	933	1650		النجار
50	29	29	59	49	108		الإبراهامي
4872	4944	6814	7531	9097	16628		الإجمالي

▪ تم اعتماد أرقام المستشفيات (الإندونيسي، كمال عدوان، الشفاء) وفق آخر تحديث للبيانات
قبل انقطاع التواصل عبر نظام المعلومات الخاص بالمستشفيات بتاريخ ٢٣/١٢/٢٠٢٣.

▪ هذه الأرقام لا تشتمل المفقودين والجثث المغالة تحت الأنقاض.

Translated

y Cumulative report of the martyrs

) 16,628 martyrs, of whom were registered, while monitoring was carried out. The cumulative number of martyrs since the beginning of the aggression reached 27,019.

according to reliable media sources, due to a breakdown in communication with hospitals. A martyr. More than 10,391 ,

Gaza and the North)

Classification by category			Classification by gender		Cumulative martyrs	The hospital
children	women	men	Females	Males		
452	620	710	832	950	1782	* Indonesia
152	207	345	304	400	704	Kamal Adwan*
1541	1150	1425	2014	2102	4116	Healing*
1294	1608	2092	2335	2659	4994	y Martyrs of Al-Aqsa
652	703	1147	1012	1490	2502	supporter
180	170	424	258	514	772	European
551	457	642	717	933	1650	the carpenter
50	29	29	59	49	108	Emirati
4872	4944	6814	7531	9097	16628	Total

y Kamal Adwan, Al Shifa (according to the latest data update). Hospital numbers were approved (Indonesian, before communication was cut off via the hospital information system on 11/12/2023).

y These numbers include missing persons and bodies trapped under the rubble.

Note

February 9th MoH Report

Original

✓ التقرير التراكيجي للشهداء

▪ بلغ تراكيجي عدد الشهداء منذ بداية العدوان **28.064** شهيداً (16.866) منهم مسجلين. فيما تم رصد أكثر من **11.198** شهيداً وفق المصادر الإعلامية المؤنقة بسبب انقطاع التواصل مع مستشفيات غزة والشمال)

العنوان	تصنيف حسب الجنس			تراكيجي شهداء	المستشفى
	ذكور	إناث	رجال		
أطفال	نسماء	رجال			
452	620	710	832	950	1782 الإندونيسي*
152	207	345	304	400	704 كمال عدوان*
1541	1150	1425	2014	2102	4116 الشفاء*
1294	1608	2092	2335	2659	4994 شهداء الأقصى
655	711	1225	1021	1572	2593 ناصر
189	176	451	269	546	814 الأذربيجي
583	474	690	748	998	1747 النبار
50	29	29	59	49	108 الإماراني
4	3	1	4	4	8 الكوني
4920	4978	6968	7586	9280	16866 الإجمالي

▪ لم يتم إعتماد أرقام المستشفيات (الإندونيسي، كمال عدوان، الشفاء) وفق آخر تحديث للبيانات قبل انقطاع التواصل عبر نظام المعلومات الخاص بالمستشفيات بتاريخ ٢٠.٢٣/١١/١٢.
▪ هذه الأرقام لا تشمل المفقودين والجثث العالقة تحت الأنقاض.

▪ ملاحظة

Translation

y Cumulative report of the martyrs

16.866 of them were registered martyrs, while the cumulative number of martyrs since the beginning of the aggression reached 28.064.

martyred according to reliable media sources due to the interruption of communication with A martyr Note that 11.198 people were

(Hospitals in Gaza and the North)

Classification by category	Classification by gender			Cumulative martyrs	The hospital
	children	women	men		
citizens				Female	Males
452	620	710	832	950	1782 Indonesian*
152	207	345	304	400	704 Khalil Adwan*
1541	1425 1150		2014	2102	4116 Healing*
2002 1608 1294			2335	2659	4994 Martyrs of Al-Aqsa
655	711	1225	1021	1572	2593 Assouf
189	176	451	269	546	814 European
583	474	690	748	998	1747 Tawassal
50	29	29	59	49	108 Loudia
4	3	1	4	4	8 Kuwait
6968 4978 4920			7586	9280	16866 Total

Khalil Adwan, Al-Aqsa (According to the latest data system). Hospital numbers were approved (Indonesian), before communication was cut off via the hospital information system on 11.03.2023.

y These numbers include missing persons and bodies trapped under the rubble.

Note

February 10th MoH Report

Original

✓ التقرير التراكي للشهداء

- بلغ تراكي عدد الشهداء منذ بداية العدوان **28,176** شهيداً (16,911) منهم مسجلين، فيما تم رصد أكثر من **11,265** شهيداً وفق المصادر الإعلامية الموثوقة بسبب انقطاع التواصل مع مستشفيات غزة والشمال

التصنيف حسب الفئة	تصنيف حسب الجنس			تصنيف حسب العدد		تراكي شهداء	المستشفى
	أطفال	نماء	رجال	إناث	ذكور		
452	620	710		832	950	1782	الإندونيسي*
152	207	345		304	400	704	كمال عدوان*
1541	1150	1425		2014	2102	4116	الشفاء*
1294	1608	2092		2335	2659	4994	شهداء الأقصى
655	711	1225		1021	1572	2593	ناصر
193	180	456		275	553	827	الأدريبي
593	483	703		763	1015	1779	التجار
50	29	29		59	49	108	الإماراتي
4	3	1		4	4	8	الكوني
4934	4991	6986		7607	9304	16911	الإجمالي
* تم اعتماد أرقام المستشفيات (الإندونيسي، كمال عدوان، الشفاء) وفق آخر تحديث للبيانات قبل انقطاع التواصل عبر نظام المعلومات الخاص بالمستشفيات بتاريخ ٢٠.٢٣/١١/١٢ هذه الأرقام لتشمل المفقودين والمجهولين تحت الأنقاض.							
ملاحظة							

Translated

ŷ Cumulative report of the martyrs

16,911 martyrs , of whom were registered, while the cumulative number of martyrs since the beginning of the aggression reached 28,176.

monitored according to reliable media sources due to the interruption of communication with martyr . More than 11,265 people were

Hospitals in Gaza and the North)

Classification by category			Classification by gender		Cumulative martyrs	The hospital
children	women	men	Females	Males		
452	620	710	832	950	1782	ŷ Indonesian
152	207	345	304	400	704	Kamal Adwan*
1541	1425 1150		2014	2102	4116	Healing*
2092 1608 1294		2335	2659		4994	ŷ Martyrs of Al-Aqsa
655	711	1225	1021	1572	2593	ناصر
193	180	456	275	553	827	European
593	483	703	763	1015	1779	مروءة
50	29	29	59	49	108	Emirati
4	3	1	4	4	8	Kuwaiti
6986 4991 4934			7607	9304	16911	Total
Kamal Adwan, Al Shifa (according to the latest data updated). Hospital numbers were approved (Indonesian, before communication was cut off via the hospital information system on 11/12/2023); ŷ These numbers include missing persons and bodies trapped under the rubble.						
Note						

February 13th MoH Report

Original

✓ التقرير التراكي للشهداء

- بلغ تراكي عدد الشهداء منذ بداية العدوان **28,576** شهيداً (17,018 مسجلين، فيما تم رصد أكثر من **11,558** شهيداً وفق المصادر الإعلامية الموثوقة بسبب انقطاع التواصل مع مستشفى الشفاء في غزّة والشمال)

تصنيف حسب الفئة			تصنيف حسب الجنس		تراكي شهداء	المستشفى
أطفال	نساء	رجال	إناث	ذكور		
452	620	710	832	950	1782	*الإندونيسي
152	207	345	304	400	704	*كمال عدوان
1541	1150	1425	2014	2102	4116	*الشفاء
1294	1608	2092	2335	2659	4994	شهداء الأقصى
656	711	1233	1022	1580	2602	ناصر
205	184	469	285	572	856	الأوروبي
619	501	728	789	1058	1848	التجار
4	3	1	4	4	8	الكويتي
50	29	29	59	49	108	الإماراتي
4973	5013	7032	7644	9374	17018	الإجمالي

▪ تم اعتماد أرقام المستشفيات (الإندونيسي، كمال عدوان، الشفاء) وفق آخر تحديث للبيانات قبل انقطاع التواصل عبر نظام المعلومات الخاص بالمستشفيات بتاريخ 11/12/2023.

▪ هذه الأرقام لا تشتمل المفقودين والجثث العالقة تحت الأنقاض.

ملاحظة

Translated

γ Cumulative report of the martyrs

17,018 martyrs , of whom were registered, while the cumulative number of martyrs since the beginning of the aggression reached 28,576.

monitored according to reliable media sources due to the interruption of communication with a martyr . More than 11,558 people were

Hospitals in Gaza and the North)

Classification by category			Classification by gender:		Cumulative martyrs	The hospital
children	women	men	female	Males		
452	620	710	832	950	1782	*Indonesian*
152	207	345	304	400	704	*Kamal Adwan*
1541	1150	1425	2014	2102	4116	*Healing*
1294	1608	2092	2335	2659	4994	γ Martyrs of Al-Aqsa
656	711	1233	1022	1580	2602	supporter
205	184	469	285	572	856	European
619	501	728	789	1058	1848	the reporter
4	3	1	4	4	8	Kuwaiti
50	29	29	59	49	108	Emirati
4973	5013	7032	7644	9374	17018	Total

were adopted according to the latest data update

Before the interruption of communication through the hospitals' information system on 11/12/2023.

γ These numbers include missing persons and bodies trapped under the rubble.

Note

February 29th MoH Report

Original

• اینيشلا رجعیاً نهایتی بقتا ▶

- حفظ لمحيط زنجلیججه جزءیه ۸۵۵.۰۴ (۲۸۵.۴۱) آنچه ناعداً خواری بمنتهٰ اینيشلا شد رجعیاً بدل و ملکه ساختاً ولطفنا ببسمی تفعیلها کهیکدکا عالمدا رفع آنچه نه یکان لبسی (المسناع غیره تلیشتمانه)

نقطه‌نمای	البله پرداخت	نقطه‌نمای بضم سخنچه		نقطه‌نمای بضم سخنچه	
		شیخ	البله	شیخ	البله
*رسانیدنیاکا	۴۲۵	۰۵۰	۱۰	۸۳۵	۰۵۰
*نایند بالح	۱۲۵	۲۰۷	۳۰۴	۳۴۲	۰۰
ملفتا	۱۲۴۱	۱۱۲۰	۴۴۲۵	۲۰۱۴	۰۱۱۶
بصقفاً داریه	۱۲۹۴	۰۸۰۸	۰۲۰۲	۰۵۰۵	۰۲۰۵
بیکن	۶۵۶	۱۱۲	۱۰۰۵	۱۱۰۵	۱۱۰۵
بیوگیا	۱۲۶	۴۱۲	۰۶۰	۱۲۳	۰۶۰
بلعننا	۶۴۰	۲۳۹	۸۱۳	۸۳۳	۸۱۳
بیالمکا	۵۰	۱۰۱	۰۶	۰۵	۰۵
بیالمکا	۲۰۰۱	۸۷۰۲	۰۵۷۷	۰۵۷۷	۰۵۷۷
▪ تلابیلا شوریعه به آغاز (اللشنا، ناعداً بالح، رسانیدنیاکا) تلطفشتمانه (شیخ) علمند است ▪ ۲۸/۱/۲۰۲۰، ۰۷:۰۰:۰۰ قیامت تلطفشتمانه (شیخ) علمند است (تلطفشتمانه (شیخ) علمند است) ▪ تلطفشتمانه (شیخ) علمند است (تلطفشتمانه (شیخ) علمند است) تلطفشتمانه (شیخ) علمند است ▪ تلطفشتمانه (شیخ) علمند است (تلطفشتمانه (شیخ) علمند است) تلطفشتمانه (شیخ) علمند است ▪ تلطفشتمانه (شیخ) علمند است (تلطفشتمانه (شیخ) علمند است) تلطفشتمانه (شیخ) علمند است ▪ تلطفشتمانه (شیخ) علمند است (تلطفشتمانه (شیخ) علمند است) تلطفشتمانه (شیخ) علمند است					

Translated

y Cumulative report of the martyrs

y The cumulative number of martyrs since the beginning of the aggression reached 30,228. More than 12,943 were

reliable media sources due to the interruption of communication with A martyr monitored according to

Hospitals in Gaza and the North)

Classification by category			Classification by gender		Cumulative martyrs	The hospital
children	women	men	Female	Males		
452	620	710	832	960	1782	Y Indonesia
152	207	346	304	400	704	Kamal Adwan*
1541	1150	1425	2014	2102	4116	Healing*
1294	1608	2092	2335	2659	4994	V Martyrs of Al-Aqsa
656	711	1233	1022	1680	2602	supporter
216	214	560	321	668	988	European
640	539	812	833	1157	1991	the carpeter
50	29	29	59	49	108	Emirati
5001	5078	7206	7720	9565	17285	Total
Kamal Adwan, Al-Shifa (according to the latest data update). Hospital numbers were approved (Indonesian, before communication was cut off through the hospital information system on 11/12/2023).						
According to the latest update of the data before the interruption of communication through the system, Al-Aqsa Hospital's information numbers for hospitals were approved on 01/20/2024.						
Nasser Medical Hospital numbers were approved according to the latest data update before the interruption of communication through the hospitals' information system on 02/13/2024.						
y These numbers include missing persons and bodies trapped under the rubble.						
Note						

March 2nd MoH Report

Original

✓ التقرير التراكمي للشهداء

بلغ تراكمي عدد الشهداء منذ بداية العدوان **30,410** شهيداً **17,311** منهم مسجلون، فيما تم رصد أكثر من **13,099** شهيداً وفق المصادر الإعلامية الموثوقة بسبب انقطاع التواصل مع مُعتصميات غزّة والشماليّات

تصنيف حسب الفئة	تصنيف حسب الجنس		المسنون
	ذكور	إناث	
أجنال	نسماء	رجال	
452	620	710	1782
152	207	345	704
1541	1150	1425	4116
1294	1608	2092	4994
656	711	1233	2602
216	214	568	996
641	539	829	2009
50	29	29	108
5002	5078	7231	17311

تم اعتماد أرقام المست旅يات (الإندونيسي، كمال عدوان، الشفاء، وفق آخر تحديث للبيانات قبل انقطاع التواصل على نظام المعلومات الخاص بالمست旅يات بتاريخ 11/12/2023).

تم اعتماد أرقام مست旅ين الأقصى وفق آخر تحديث للبيانات قبل انقطاع التواصل على نظام المعلومات الخاص بالمست旅يات بتاريخ 20/01/2024.

تم اعتماد أرقام مست旅ين ناصر الطبي وفق آخر تحديث للبيانات قبل انقطاع التواصل على نظام المعلومات الخاص بالمست旅يات بتاريخ 13/02/2024.

هذه الأرقام لا تتضمن المفقودين والجثث العالقة تحت الأنقاض.

Translated

y Cumulative report of the martyrs

| 17,311 martyrs, of whom were registered, while the cumulative number of martyrs since the beginning of the aggression reached **30,410**.

according to reliable media sources due to the interruption of communication with A martyr More than **13,099** were recorded

Hospitals in (Gaza and the North)

Classification by category			Classification by gender		Cumulative martyrs	The hospital
children	men	women	Women	Men		
452	620	710	632	950	1782	Indonesian*
152	207	345	304	400	704	Kamal Adwan*
1541	1150	1425	2014	2102	4116	Healing*
1294	1608	2092	2335	2659	4994	* Martyrs of Al-Aqsa
656	711	1233	1022	1580	2602	Nasser
216	214	568	321	676	996	European
641	539	829	833	1175	2009	Noor
50	29	29	59	49	108	Furat
5002	5078	7231	7720	9591	17311	Total

Ramal Adwan, Al Shifa (according to the latest data updates) Hospital numbers were approved discontinuously, before communication was cut off via the hospital information system on 11/2/2023.

according to the latest data update before the interruption of communication All Aqsa Hospital numbers were approved through the hospital's information system on 01/09/2024.

Nasser Medical Hospital numbers were approved according to the old data update before the interruption of communication through the hospital's information system on 09/13/2024.

y These numbers include missing persons and bodies trapped under the rubble.

March 3rd MoH Report

Original

▼ التقرير التراكي للشهداء

بلغ تراكي عدد الشهداء منذ بداية العدوان **30,534** شهيداً (17,348 منهم مسجلون، فيما تم رصد أكثر من **13,186** شهيداً وفق المصادر الإعلامية الموثوقة بسبب انقطاع التواصل مع مستشفيات غزّة والشمالي).

تصنيف حسب الفئة			تصنيف حسب الجنس			تراكي شهيد	المستشفى
أطفال	نساء	رجال	إناث	ذكور	ذكور		
452	620	710	832	950		1782	الأندونسي*
152	207	345	304	400		704	كمال عدوان*
1541	1150	1425	2014	2102		4116	الشفاء*
1294	1608	2092	2335	2659		4994	شهداء الأقصى
656	711	1233	1022	1580		2602	ناصر
219	216	578	325	687		1011	الأوروبي
644	544	843	841	1189		2031	النبار
50	29	29	59	49		108	الإماراتي
5008	5085	7255	7732	9616		17348	الإجمالي

تم اعتماد أرقام المستشفيات (الأندونسي، كمال عدوان، الشفاء) وفق آخر تحديث للبيانات قبل انقطاع التواصل عبر نظام المعلومات الخاص بالمستشفيات بتاريخ 11/12/2023.

تم اعتماد أرقام مستشفى الأقصى وفق آخر تحديث للبيانات قبل انقطاع التواصل عبر نظام المعلومات الخاص بالمستشفيات بتاريخ 01/20/2024.

تم اعتماد أرقام مستشفى ناصر الطبي وفق آخر تحديث للبيانات قبل انقطاع التواصل عبر نظام المعلومات الخاص بالمستشفيات بتاريخ 02/13/2024.

هذه الأرقام لا تشمل المفقودين والجثث العالقة تحت الأنقاض.

Translated

y Cumulative report of the martyrs

(17,348 martyrs , of whom were registered, while the cumulative number of martyrs since the beginning of the aggression reached 30,534 .

according to reliable media sources due to the interruption of communication with... A martyr More than 13,186 were monitored

Hospitals in Gaza and the North)

Classification by category			Classification by gender			Cumulative martyrs	The hospital
children	women	Boys	Females	Males			
452	620	710	832	950		1782	Indonesian*
152	207	345	304	400		704	Kamal Adwan*
1541	1150	1425	2014	2102		4116	Healing*
1294	1608	2092	2335	2659		4994	y Martyrs of Al-Aqsa
656	711	1233	1022	1580		2602	European
219	216	578	325	687		1011	European
644	544	843	841	1189		2031	Emirati
50	29	29	59	49		108	
5008	5085	7255	7732	9616		17348	Total

Kamal Adwan, Al Shifa (according to the latest data update). Hospital numbers were approved (Indonesian, below). Communication was cut off via the hospital information system on 11/12/2023.

according to the latest data update before the interruption of communication - Al-Aqsa Hospital numbers were approved through the hospital's information system on 01/20/2024.

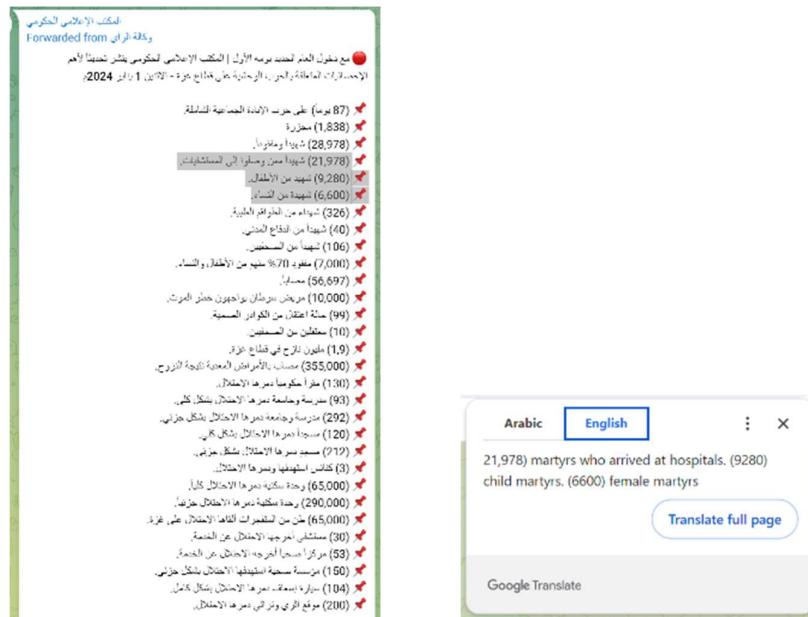
Nasser Medical Hospital numbers were approved according to the last data update before the interruption of communication through the hospital's information system on 02/13/2024.

y These numbers include missing persons and bodies trapped under the rubble.

Appendix 5 – Relevant 2024 Government Media Reports

January 2nd GMO Report

This Telegram announcement matches exactly with the MoH long report from 31 Dec 2023, with both reports claiming total dead of 21,978. This telegram post also provides information on women and children dead, enabling complete matching with the corresponding MoH report.



January 31st GMO Report

This GMO telegram announcement matches almost exactly with MoH Long Report from 30 Jan 2023 (MoH total dead 26,901, GMO total dead 26,900 dead). However, this GMO announcement did not provide information on women and children dead, preventing calculation of age and gender categories in the MoH “Media sources” category.



February 2nd GMO Report

This telegram announcement was the closest match to MoH Long Report from 31 Jan 2023 (MoH 27,019 total dead, GMO total dead 27,131 dead). However, this GMO announcement did not provide information on women and children dead, preventing calculation of age and gender categories in the MoH “Media sources” category. Also, the match is not very close – more than 100 people out. Even if women and children statistics had been provided, it probably would not have been suitable.



February 10th GMO Report

This report was an exact match with the MoH 9 Feb report (both 28,064 total dead). However, the lack of women and children figures means it cannot be used.



February 12th GMO Report

Exact match with MoH 10 Feb (28,176 total dead). But once again, the lack of women and children statistics prevents an exact match.



February 14th GMO Report

This report was an exact match with MoH 13 Feb (28,576 total dead). However, this update contains no information on women and children dead, preventing calculation of gender and age category breakdowns in the MoH “media sources” category.



March 1st GMO Report

This was an exact match with the MoH report from 29 Feb (both reports exactly 30,228 total dead). However, once again this GMO update does not contain the required info on women and children breakdown.



March 3rd GMO Report

Exact match with MoH March 2 (30,410 total dead). Again, this update does not contain the required information on women and children.



March 4th GMO Report

Exact match with MoH March 3 (30,534 total dead). This telegram report contains women and children statistics, enabling a match with the GMO data.

المكتب الإعلامي الحكومي

المكتب الإعلامي الحكومي ينشر تجديداً لأهم احصائيات حرب الإبادة الجماعية التي يشنها الاحتلال "الإسرائيلي" على قطاع غزة للنوم 150 على التوالي - الاثنين 4 مارس 2024،

نوفا على حرب الإبادة الجماعية.

(150) مجزرة أرتكبها جيش الاحتلال.

(2,675) شهيداً ومتضرراً.

(37,534) شهيداً من النساء.

(30,534) شهيداً منهن وصلوا إلى المستشفى.

(13,430) شهيداً من الأطفال.

(15) ملطفاً استشهدوا بنتجة المعاشرة.

(8,900) شهيدة من النساء.

(364) شهيداً من الطواقم الطبية.

(48) شهيداً من الدفاع المدني.

(132) شهيداً من المساجين.

(7,000) مفقود: 70% منهم من الأطفال والنساء.

Arabic English

150 days after the genocidal war. (2675) Massacre committed by the occupation army. (37534) martyrs and missing persons. (30,534) martyrs who arrived in hospitals. (13,430) child martyrs. (15) Children were martyred as a result of famine. (8900) female martyrs. (364) martyrs of medical staff. (48) Civil Defense martyrs. (132) martyred journalists. (7000) are missing, 70% of whom are children and women

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