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How Perpetrator Identity (Sometimes) Influences Media Framing Attacks as "Terrorism" or "Mental Illness"

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Abstract

Do media frame attacks with Muslim perpetrators as "terrorism" and attacks with White perpetrators as the result of "mental illness"? Despite public speculation and limited academic work with relatively small subsets of cases, there have been no systematic analyses of potential biases in how media frame terrorism. We addressed this gap by examining the text of print news coverage of all terrorist attacks in the United States between 2006 and 2015. Controlling for fatalities, affiliation with a group, and existing mental illness, the odds that an article references terrorism are approximately five times greater for a Muslim versus a non-Muslim perpetrator. In contrast, the odds that an article references mental illness do not significantly differ between White and non-White perpetrators. Results partially confirm public speculation and are robust against numerous alternative explanations. Differences in media framing can influence public (mis)perceptions of violence and threats, and ultimately harm counterterrorism policy.

Keywords

terrorism, mental illness, news coverage, media, framing

In the aftermath of extremist violence, public discussion often centers on the question of whether or not to call the incident terrorism. This question can be deceptive in its simplicity; there is no absolute definition of terrorism for journalists to reference, nor are they obligated to select and consistently apply a specific definition. Recent public speculation suggests that media reference terrorism in coverage of terror attacks by non-White (often Muslim) perpetrators, whereas White perpetrators are more likely to be portrayed as mentally ill. A look at individual cases provides some anecdotal support for this supposition. For example, following Dylann Roof's 2015 attack in Charleston, debate emerged over whether it was appropriate to call Roof a terrorist, and coverage often speculated about potential mental illness (e.g., Bump, 2015). More recently, many argued that the 2017 Las Vegas shooting should be called terrorism, surmising that media would have done so if the perpetrator had been Muslim (e.g., Vedantam, 2017).

Yet, the idea that media differentially reference these terms is speculative. To date, there has been no systematic analysis of differences in how media apply terms that heighten the salience of terrorism or mental illness in coverage of terror attacks.

In systematic work focused on the quantity of news coverage on terror attacks, evidence shows that Muslim-perpetrated attacks receive more media attention than attacks by non-Muslims (Kearns et al., 2019b; Mitnik et al., 2020). What we do not yet know is how the content of this coverage may systematically differ as a function of the perpetrator's identity. To date, research on qualitative differences in U.S. media coverage of terrorism has focused on a few specific events rather than the universe of cases. Looking at a subset of 11 terrorist attacks in the U.S., Powell (2011) found that news coverage of Muslim perpetrators often assumed a religious motivation and connections to a larger group, whereas non-Muslim perpetrators were more likely to be described as mentally unstable. Analyzing the 15 most covered attacks in the New York Times, Mitnik et al. (2020) found that coverage of Muslim perpetrators focused on external radicalization and otherness while personal histories and mental health issues were used to explain the actions of non-Muslim perpetrators. Comparing coverage of Dylann Roof and Omar Mateen, Arva et al. (2017) found that coverage of Roof focused more on mental health while coverage of Mateen more often discussed terrorism. In depictions of mass violence more broadly, U.S. media also tend to portray White perpetrators more sympathetically than non-White perpetrators (Gade et al., 2018). While these findings suggest bias in media coverage, it is also possible that results are a function of the cases selected for comparison. Without a systematic analysis of all U.S. terrorism cases over a set time period and their coverage, we cannot know whether there are meaningful differences in how media frame terrorist attacks, and how this is influenced by perpetrator identity. The present study addresses this gap by examining the following research question: In media coverage of terror attacks, when is terrorism referenced and when is mental illness referenced?

In the present study, we examined the text of print media coverage of every terrorist attack in the United States between 2006 and 2015 as coded by the Global Terrorism Database (GTD), where terrorism is defined as "the threatened or actual use of illegal force and violence by a non-state actor to attain a political, economic, religious, or social goal through fear, coercion, or intimidation." While scholars debate nuances in the definition of terrorism—such as whether state actors can perpetrate it or whether civilian targets are required (see Schmid, 2011), quantitative research in this area predominantly uses the GTD definition and data (Young, 2019). The GTD has systematically collected event-level data since 1970 and is the most comprehensive publicly available terrorism dataset. Importantly, GTD data collection and coding is done independently by a research team following the publicly available codebook and does not represent specific interests or perspectives of any funding body. In tying our

sampling frame to a public terrorism database, we addressed the limitation in prior work by studying media coverage of all attacks in the U.S. rather than subsets of cases which may bias results of those studies. Further, since we analyze only attacks coded as terrorism, these should all be framed as terrorism in media coverage and deviation from this may suggest bias in coverage.

We focused on two inquiries: First, we compared references to terrorism in coverage of attacks with Muslim versus non-Muslim perpetrators. Second, we compared references to mental illness in coverage of attacks with White versus non-White perpetrators. It was necessary to separate these questions since the colloquially popular logic that "Muslims perpetrators are terrorists and White perpetrators are mentally ill" implies two false dichotomies: (1) that perpetrators are either Muslim or White and (2) that media coverage will reference either terrorism or mental illness. In reality, however, perpetrators of terrorism may be White, Muslim, both, or neither. Similarly, media coverage of attacks may reference terrorism, mental illness, both, or neither. Further, some perpetrators of terrorism do have mental health issues while others do not.

Media Framing

Media establish what the public needs to know and highlight the most relevant and salient dimensions of how information should be understood and discussed (Gerbner, 1998; McCombs, 2014; Scheuefele & Tewksbury, 2007). Framing—the process of defining an object by heightening the salience of selected aspects of it—influences how people perceive and structure the object and its place in the world (McCombs, 2014; Powell, 2011). As framed aspects of something become more salient, unframed aspects become less salient (Entman, 1993; McCombs, 2014). While frames are employed in everyday communication, media framing is especially powerful in influencing public discussions of issues, events, and people (Bekkers et al., 2011). Frames help us construct mental models of the world and encourage us to understand it in certain ways (Price et al., 1997).

While there are many ways to frame objects, here we focus on emphasis frames and associative frames. Emphasis frames draw attention to information that the audience is meant to view as deserving special consideration (<u>Druckman, 2001</u>). For example, referring to an attack as a "terror attack" v. "shooting" v. "crazed rampage" emphasize different aspects of the incident which can alter audience interpretations. Associative frames highlight the connections between things (which can be done via emphasis framing), thereby encouraging the audience to judge an issue by those connections (<u>Van Atteveldt et al., 2005</u>). For example, if the news says that a terrorism task force is

investigating a perpetrator, it invites the audience to think of that person in association with terrorism without directly accusing them of being a terrorist.

Media select topics to frame with a bias towards attention-grabbing events (<u>Price & Tewksbury, 1997</u>). Further, when media frame an object, audiences are likely to activate that frame when presented with similar objects in the future (<u>Price & Tewksbury, 1997</u>). Exposure to frames in the news also encourages people to search for more information that fits within those frames and makes people less likely to accept competing frames (<u>Druckman et al., 2012</u>). Thus, it is important to examine how media distributes references to terrorism or mental illness. If media are differentially framing perpetrators based on identity, it could lead audiences to inaccurately associate terrorism or mental illness with particular demographics.

Global events are often translated into local cultures through media framing, which itself is colored by the dominant values and power structures of the cultural context in which it is presented (<u>Altheide, 1987; McCombs, 2014; Nagar, 2010</u>). News framing is an accumulative process through which ideologies are frequently and repetitively reinforced (<u>Bryant & Mirion, 2004</u>) and, when frames are repeated, the effects of those frames are stronger than an individual exposure (<u>Lecheler et al., 2015</u>). Through this, dominant ideologies and perspectives come to be viewed as "common sense" even though they are simply possible interpretations of a complex world (<u>Gitlin, 1978</u>).

Media Depictions of Terrorism and Its Perpetrators

Looking at coverage of crime broadly, there is ample evidence that media reporting tends to represent minority members more negatively than White individuals (<u>Dixon</u>, <u>2017</u>; <u>Dixon & Linz</u>, <u>2000</u>). Turning to terrorism specifically, research shows that both print and television news provide disproportionately more coverage to attacks perpetrated by Muslims (<u>Dixon & Williams</u>, <u>2015</u>; <u>Kearns et al.</u>, <u>2019b</u>; <u>Mitnik et al.</u>, <u>2020</u>). However, this does not tell us how the attacks are being framed, and whether there are differences in qualitative aspects of the coverage. Three studies examining a total of 28 terror incidents in the U.S. all found that Muslim-perpetrated attacks were more likely to be framed as terrorism (<u>Arva et al.</u>, <u>2017</u>; <u>Mitnik et al.</u>, <u>2020</u>; <u>Powell</u>, <u>2011</u>). Yet, these studies raise the question of bias towards newsworthiness. Findings may be an artifact of case selection rather than a broader trend in how media frame all terrorist attacks in the U.S. To determine whether these trends truly exist, a systematic study of news coverage for all terrorist attacks in the U.S. over a long period of time is necessary.

Even in news that does not cover terrorism, Muslims are described in more negative tones generally and are more likely to be linked to extremism than other groups (Alsultany, 2012; Dixon & Williams, 2015; Prince, 2009; Shaheen, 2014). Western

media also disproportionately frame violence perpetrated by Muslims as terrorism (Nagar, 2010). Even neutral or sympathetic depictions of Muslims often appear in the context of 'bad' news. Both entertainment and news media have a long history of framing Muslims as terrorists and terrorism as a Muslim problem (Alsultany, 2012; Shaheen, 2014). Simultaneously drawing attention to group differences and linking threatening characteristics to an out-group serves to bolster a sense of in-group identity (Greenaway & Cruwys, 2019). Recall that frames tend to activate when people are presented with information similar to the original frame. If we combine this with the disproportionate coverage of Islamist terrorists and negative coverage of Muslims in general, we are left in a situation where people may come to primarily or overwhelmingly associate terrorism with Islam. Consistent with Slater's reinforcing spirals model (2007, 2015), we note that media have the potential to both shape and also reflect public sentiment about Muslims, as well as public perceptions of terrorism. 3 As noted below, efforts to establish causality in terms of how violent attacks are categorized on the basis of perpetrator identity have added to our understanding of this relationship.

Turning to experimental research with samples from the U.S. public, we see similar trends in how people view violence. <u>Huff and Kertzer (2018)</u> find that people were more likely to classify a hypothetical attack as terrorism if the perpetrator was Muslim, though the effect was relatively small. <u>West and Lloyd (2017)</u>'s findings also support this, while <u>D'Orazio and Salehyan (2018)</u> found that people are more likely to call an attack terrorism if the perpetrator was Arab-American—a group often conflated with Muslims. From this, we expected that:

H1a: Media coverage of a terrorist attack will be more likely to reference terrorism when the perpetrator is Muslim versus non-Muslim.

As <u>Corner and Gill (2015)</u> note, terrorism research has swung from blaming terrorism on mental illness to asserting that mental illness precludes terrorist intent because of reduced agency. Yet, a wide body of literature shows that mental health issues are not a driver of violence (e.g., <u>Appelbaum & Swanson, 2010</u>). While mental illness has not been found to motivate terrorist violence, stress and trauma accrued through terrorist activity may contribute to developing mental illness (<u>Weatherston & Moran, 2003</u>). Relative to the general population, lone actor terrorists have higher rates of mental illness while groups actors have lower rates—but, regardless, perpetrators with mental illnesses are still the minority (Gruenewald et al., 2013).

Despite the lack of data linking terrorism and mental illness, experimental evidence with samples of the U.S. public shows that partisan motivated reasoning influences whether people will attribute an attack to group identity or mental illness. People are

more likely to rate violent in-group actors as being mentally ill and violent out-group actors as motivated by identity (Noor et al., 2018). When comparing perceptions of Arab Muslim versus White supremacist terrorists, Americans are far less likely to refer to the latter as terrorists or assume an ideological motivation, and tend to assume that they are mentally ill (D'Orazio & Salehyan, 2018). People are also less likely to call an attack terrorism if the perpetrator was mentally ill (Huff & Kertzer, 2018). All of this implies that people are simply less likely to view White perpetrators as terrorists and more willing to find alternate explanations for their behavior, while Muslim perpetrators are not granted the same consideration. Further, people are more likely to reference mental illness to explain an attack in cases where the perpetrator is also a member of the respondent's in-group, thereby creating distance between the perpetrator's actions and what is normative among the broader group (Noor et al., 2018). From this we expected:

H1b: Media coverage of a terrorist attack will be more likely to reference mental illness when the perpetrator is White.

Beyond race or religion, other perpetrator-level factors may also influence how media frame an attack. Some attacks are carried out by members or supporters of a terrorist group whereas others are perpetrated by individuals or groups unaffiliated with a larger organization. Huff and Kertzer (2018) found that, relative to a lone individual, Americans were more likely to label an attack as terrorism if the perpetrators were part of an organization. Reasonably, group affiliation should also influence how media frame an attack since a discrete group can provide a point of reference for how to view the attacker's actions. From this, we expected that:

H2a: Media coverage of a terrorist attack will be more likely to reference terrorism when it is associated with a known terrorist group.

H2b: Media coverage of a terrorist attack will be less likely to reference mental illness when it is associated with a known terrorist group.

Some terrorism perpetrators do suffer from mental health issues (<u>Gruenewald et al., 2013</u>). In these cases, media reporting on mental illness—while potentially stigmatizing—would not be unreasonable or necessarily an indicator of bias. Media do not strictly reference mental illness when there is evidence of a valid diagnosis or reasonable proof that it acted as a motivator though. Media may prime readers to view the perpetrator as mentally ill by using certain non-clinical terms (e.g., crazy, nuts, maniac), drawing attention to mental health evaluations, bringing up family histories of mental illness, or quoting laymen who assume the perpetrator to be mentally ill (e.g., "Someone must be crazy to do something like this."). Relatedly, members of the public

are less likely to consider perpetrators to be terrorists when they have documented mental health issues (<u>Huff & Kertzer, 2018</u>). From this, we expect that:

H3a: Media coverage of a terrorist attack will be less likely to reference terrorism when the perpetrator has a mental illness.

H3b: Media coverage of a terrorist attack will be more likely to reference mental illness when the perpetrator has a mental illness.

The Effects of Casualties on Coverage

Terrorist attacks with more casualties tend to receive more media coverage (<u>Chermak & Gruenewald, 2006</u>; <u>Kearns et al., 2019b</u>; <u>Mitnik et al., 2020</u>). As fatalities rise, members of the U.S. public are also more likely to classify an attack as terrorism (<u>Huff & Kertzer, 2018</u>), but casualties are not necessary for an attack to be considered terrorism. In fact, the modal number of fatalities per terrorist attack is zero (GTD, 2018). Drawing from Terror Management Theory, a greater number of casualties may evoke a heightened sense of mortality salience in journalists and thus influence the way that they frame an attack (<u>Solomon et al., 2015</u>). Further, the number of people killed in an attack influences whether Americans perceive it as terrorism (<u>Dolliver & Kearns, 2019</u>). The number of fatalities may influence whether media reference terrorism in coverage of an attack, but there is no clear theoretical expectation for how casualties would influence attribution to mental illness. From this, we expect that:

H4: Media coverage of a terrorist attack will be more likely to reference terrorism as the number of fatalities increases.

Potential Alternate Explanations for Referencing Terrorism

Based on prior research, we expect that other contextual factors may influence how media frame terror attacks. We identified five alternate explanations that may also impact whether an attack is linked to terrorism. First, research has shown that people are more likely to view a bombing as terrorism (Huff & Kertzer, 2018). Second, people are more likely to call an attack terrorism when there are multiple perpetrators (Huff & Kertzer, 2018). Third, media coverage of crime is framed less negatively when the victims are minorities (Gilliam & Iyengar, 2000) and the same may be true for terrorism specifically. Fourth, while attacks against the government receive more media attention (Kearns et al., 2019b; Zhang et al., 2013), there is conflicting evidence on whether targeting the state influences how the public labels an attack (Huff & Kertzer, 2018). Fifth, some violent incidents clearly meet the GTD definition of terrorism while others do not meet the threshold for a definitive classification. If experts are not certain that an attack was terrorism, media may also be more hesitant to use the term.

Potential Alternate Explanations for Referencing Mental Illness

In addition to the alternate explanations above, we also identified four alternate explanations which could influence when media will reference mental illness in coverage of a terror attack. First, the number of people killed in an attack may have a positive relationship with references to mental illness. Second, the existence of multiple perpetrators may indicate more coordination, thus making the presence of mental illness seem less likely. Third, it is common for individual perpetrator(s) of terrorism to be unidentified (Kearns, 2019). When the individual perpetrator(s) are unknown, media are less able to defensibly speculate about potential mental illness. Fourth, violent incidents that do not clearly meet the GTD definition of terrorism may be more open to speculation about the causes, which creates more room to discuss mental illness as a potentially relevant factor.

Methods

Data

Data for this project focused on terrorist attacks listed in the Global Terrorism Database (GTD) which occurred in the United States from 2006 to 2015. During this ten-year span, the GTD lists 170 terrorist attacks—though under GTD coding an attack at multiple locations (i.e., the Boston Bombing) has a separate entry for each location. Since attacks like these were perpetrated by the same individual(s) and are reported on together in media, we collapsed attacks by the same perpetrator(s) into a single attack to avoid over-counting and duplicating articles. This yielded a total of 136 terrorism attacks in the United States between 2006 and 2010.

Media coverage of these attacks focused on two sources: LexisNexis Academic and <u>CNN.com</u>. LexisNexis Academic searches the full text of thousands of news outlets from major publications like The New York Times and The Wall Street Journal to local newspapers from around the country and is commonly used in academic studies of print news coverage (e.g., <u>Linnemann, 2010</u>). To supplement this coverage, we searched CNN.com's archives. Ideally, we would have also searched from online new sources across the political spectrum. Unfortunately, neither Fox News nor Huffington Post have a searchable public archive dating back to 2006 and we were unable to secure access to their bodies of work during this time. Given the large number of news sources LexisNexis draws from, it is not possible to compare differences in coverage across sources or control for sources in our analyses. Our interest is in the words used in the articles; the use of visuals is a separate inquiry outside of the scope of this paper.⁵

Procedure

We limited coverage to print and online newspaper articles from US-based sources between the date of each attack and the end of 2016 by which point all known perpetrators had pled guilty, were found not competent to stand trial, or had gone to trial. We searched the following for each incident: perpetrator(s), location, and key words about the attack. Our initial goal was over-inclusion of articles to ensure that we were not missing coverage. Two authors separately reviewed each article to ensure that we only included articles where the primary focus was the attack, perpetrator(s), or victim(s). The types of articles we removed most frequently included lists of attacks, articles focused on a political or policy position where the incident was an anecdote, and memorials held in other locations. Our dataset was comprised of 3,541 news articles. Importantly, 36 of the 136 terrorism attacks in our dataset did not receive any coverage from the sources that we searched. Thus, these cases were excluded from analyses, leaving us with 100 attacks. See Supplemental Appendix A for a list of attacks and the number of articles covering each.

Variables

We were interested in two outcome variables: (1) whether or not an article references terrorism⁸ and (2) whether or not an article references mental illness. For these dependent variables, each article was coded as 1 = yes if the topic was referenced at least once and 0 = no if it was not. A small subset of articles referenced both terrorism and mental illness (6.7%; n = 238). This included title, body, and—where applicable—graphic captions and highlights. $\frac{9}{2}$

To determine whether and how often terrorism and mental illness were referenced. one author and a hired research assistant separately searched the entire dataset of 3,541 articles in Nvivo for key words associated with our two dependent variables (see Supplemental Appendix B for search terms). Throughout this process, there was no subjectivity in coding (keywords appear in the article or they do not) and discrepancies arose from either Nvivo coding comment sections and URLs or the software failing to recognize terms with added punctuation marks or typos. In the coding process, every article was examined three times to ensure that all machine errors were caught and corrected, including instances of codable terms that were overlooked due to typos or formatting errors in the article. 10 We compared the two separately coded datasets—over 200,000 data points in total—for discrepancies. After initial coding, Krippendorff's alpha was above the common threshold of 0.8 for both references to terrorism ($\alpha = 0.88$) and mental illness ($\alpha = 0.83$) across all articles (Krippendorff, 2004). Finally, two of the authors reviewed all discrepancies and discussed each one individually until final codes were determined for all data points. In sum, the entire dataset was double-coded and all coding discrepancies were resolved by the authors.

Our key predictor variables focused on the perpetrator(s) and the number of casualties. The GTD codes the group responsible for the attack (if applicable), a list of the known perpetrators, and the number of fatalities. From this, we created a binary indicator for membership in a known group. Fatalities were measured as the total number of people—excluding perpetrator(s)—killed in the attack. Prior to coding the articles, two of the authors separately coded three binary perpetrator-level variables not included in the GTD: whether the perpetrator was White; whether the perpetrator was Muslim; and whether the perpetrator was mentally ill. If an attack had multiple perpetrators and at least one met the criteria, we coded these variables as 1. If the perpetrator was unknown, these variables were coded as 0. After initial coding, Krippendorff's alpha was above the common threshold of 0.8 for these three variables: perpetrator Muslim (α = 0.93); perpetrator White (α = 0.91); and perpetrator had a known mental illness¹¹ (α = 0.90; Krippendorff, 2004). For additional confidence in the accuracy of our incident-level coding, all inconsistencies were discussed and final coding was agreed upon prior to analyses.

We also tested our argument against several alternate explanations. Derived from the GTD's weapon type variable, we created a binary indicator for whether or not the attack involved a bomb, explosive, or dynamite. Since the GTD lists the names of known perpetrators, we created a binary indicator for attacks with multiple perpetrators. The individual person(s) who perpetrated each attack was unknown in 24.0% of the attacks in this dataset, which is common in terrorism (Kearns, 2019). Consequently, we created a binary variable indicating whether the perpetrator was unknown. The GTD also includes a variable that identifies cases where there is doubt about whether the incident clearly meets all definitional criteria of terrorism. Our final two alternative explanations involved the target as either: 1) law enforcement or government; or, 2) a minority group. Table 1 contains descriptive statistics for each variable.

Results

Since the two key dependent variables are binary—whether or not the article references (1) terrorism or (2) mental health—we estimated a series of logistic regression models with standard errors clustered on the attack. To ease interpretation, we present odds ratios where ratios greater than one indicate a positive relationship and ratios less than one indicate a negative relationship. 13

<u>Table 2</u> contains the results of models examining whether an article references terrorism. Supporting H1a, articles are significantly more likely to reference terrorism when the perpetrator is Muslim (Model 1). When controlling for our other key predictor variables, the odds an article references terrorism are approximately five times greater if the perpetrator is Muslim (Model 2). Supporting H2a, we see approximately a two and a

quarter times increase in odds that an article references terrorism when the attack is perpetrated by a group. When we coded diagnosed mental illness strictly (Model 2), we did not see support for H3a. However, when we coded mental illness more loosely (Model 3), the odds that an article references terrorism decrease by approximately half. Contrary to H4, fatalities were not positively related to the odds of terrorism being referenced.

We suggested five alternative explanations for when media refer to an attack as terrorism. Models 4 and 5 in <u>Table 2</u> tested the first four alternatives: the weapon was an explosive, there were multiple perpetrators, the target was a minority, and the target was law enforcement or government. None of these factors impacted the likelihood that an article references terrorism. Further, controlling for these factors did not change our main findings that articles about attacks perpetrated by Muslims and those connected to a group are more likely to reference terrorism. To test our final alternate explanation, we replicated our analyses from <u>Table 2</u> but excluded articles about attacks that did not meet all inclusion criteria to be considered terrorism in the GTD. As shown in <u>Supplemental Appendix A</u> (<u>Table A3</u>), our results held and the magnitude of each significant variable remained similar. In sum, the two largest drivers of whether or not an article referenced terrorism were: whether the perpetrator was Muslim and whether the perpetrator was part of a terrorist group.

We next examined when media will reference mental illness in coverage of an attack, as shown in <u>Table 3</u>. Contrary to expectation in H1b, articles about attacks perpetrated by White people were not more likely to reference mental illness across all of our models. Supporting H2b, the odds that an article references mental illness decreased between 69% and 82% if the perpetrator(s) had a group affiliation (Models 7–14). Supporting H3b, the odds that an article references mental illness are between approximately one to two and a half times greater when the perpetrator actually had a diagnosed mental health issue at the time of reporting (Models 7–14).

We suggested four possible alternate explanations for when media would reference mental illness. Models 7 through 14 in <u>Table 3</u> tested the first three of these alternatives: more fatalities, multiple perpetrators, and unknown perpetrators. When mental illness was coded strictly, the odds that an article references mental illness increased 7% per fatality. Across models, the odds that an article referenced mental illness decreased 62%–74% if the attack had multiple perpetrators. When the perpetrator(s) were unknown, the odds that an article references mental illness decrease 96%–98%. Across these models, our main findings remained significantly and substantively unchanged. To test our final alternative argument, we replicated the models from <u>Supplemental Table A4</u> but only included cases which meet all inclusion

criteria to be considered terrorism in the GTD. As shown in <u>Supplemental Appendix A (Table A4)</u>, our findings were robust and remain substantively unchanged.

Discussion

The motivation for this study was to systematically examine when terrorism is referenced and when mental illness is referenced in media coverage of terror attacks, and whether there is variation on the basis of perpetrator identity. Prior research on media coverage of terrorism has either systematically focused on the amount of coverage that attacks receive (Kearns et al., 2019b; Mitnik et al., 2020) or examined differences in how media frame a small subsets of attacks (Arva et al., 2017; Gade et al., 2018; Mitnik et al., 2020; Powell, 2011). To our knowledge, this is the first paper to examine how media frame all terrorist attacks in a country during a set time period. By conducting a systematic examination of content on this scale, we are confident that our results accurately depict variance (or not) in how media frame attacks on the bases of perpetrator identity and other factors.

Descriptive statistics showed that less than 40% of the articles in our sample referenced terrorism, despite all attacks being included in the GTD. In contrast, the percentage of stories that referenced mental illness is roughly proportional to the percentage of perpetrators with a known history of mental illness. Because there is no one definition of terrorism, journalists may be discouraged from referencing it, whereas the presence of a mental health diagnosis makes referencing the perpetrator's mental health more defensible. Yet, that still would not explain differences that emerge in coverage along demographic lines. Many publicly speculate that media is more likely to call Muslims terrorists and White people mentally ill, but we only found support for the former.

Coverage of attacks perpetrated by Muslims were dramatically more likely to reference terrorism, which may reflect dominant values and power structures whereby media focus more on threatening characteristics of an out-group in society (Greenaway & Cruwys, 2019). Results from our systematic examination of all terrorist attacks in the US from 2006 to 2015 confirmed the results of studies using smaller subsets of terrorist violence (Arva et al., 2017; Gade et al., 2018; Mitnik, et al. 2020; Powell, 2011). This finding is also consistent with prior work showing that Muslim-perpetrated attacks receive more news coverage (Dixon & Williams, 2015; Kearns et al., 2019b; Mitnik et al., 2020) and that entertainment media tend to depict Muslims and Arabs as terrorists or villains (Shaheen, 2014). Together, these findings may help explain why people are more likely to call an attack terrorism if the perpetrator is Muslim or Arab (D'Orazio & Salehyan, 2018; Huff & Kertzer, 2018; West & Lloyd, 2017). The association between terrorism and Muslims in news media can help explain the implicit associations that

many in the public have between the two (<u>Saleem & Anderson, 2013</u>). Articles covering attacks by individuals affiliated with or inspired by a known group that uses terrorism were also more likely to reference terrorism. This result is consistent with the previous finding that members of the public are more likely to label an attack to be terrorism when the perpetrators are part of an organization (<u>Huff & Kertzer, 2018</u>).

We found partial support for the expectation that media would be less likely to reference terrorism if the perpetrator had a known mental health issue. Whether the perpetrator had a confirmed mental health issue was unrelated to whether coverage referenced terrorism. When the mental health status of a perpetrator was known, it may have been the case that it neither bolstered nor detracted from the attack being discussed as terrorism. Yet, articles were less likely to reference terrorism when the perpetrator had a confirmed or suspected mental health issue. We posit that, as long as the question of the perpetrator's mental health is in play, there may be a reluctance to frame an act as terrorism. The discrepancy in findings here is interesting, in that less, rather than more, certainty about the perpetrator's mental health decreased the likelihood of refencing terrorism.

Finally, while casualties have a positive relationship with both the amount of coverage that attacks receive (Chermak & Gruenewald, 2006; Kearns et al., 2019b; Mitnik et al., 2020) and the likelihood that members of the public will call an attack terrorism (Huff & Kertzer, 2018), it had no impact on whether coverage referenced terrorism. While this is a bit surprising, terrorism does not require that anyone be harmed (GTD, 2018). If media are willing to reference terrorism when discussing attacks with no or few fatalities, this can help bring public perception of terrorism more in line with reality. This may decrease fear of terrorism, as people often vastly overestimate the lethality of terror attack in the US (Kearns et al., 2019a), and thus undercut terrorism's effectiveness.

Across all models, the alternate explanations regarding whether coverage of an attack references terrorism were not supported and our main findings remained unchanged. While the public is more likely to call an attack terrorism if it involves a bomb or multiple perpetrators (<u>Huff & Kertzer, 2018</u>), neither factor influenced whether coverage references terrorism. The target also did not influence whether coverage of an attack references terrorism. Our results held across both all cases and only cases that meet all inclusion criteria to be considered terrorism by the GTD.

Turning to factors that influence whether media reference mental illness, we found no evidence that media are more likely to reference mental illness when the perpetrator is White. This finding runs counter to public speculation and experimental findings (Noor et al., 2018), but was robust across all of our models. We posit that, in the relative absence of references to terrorism, references to mental illness may simply be more memorable to the reader. References to mental illness may also be more consistent

with expectations about violent individuals. Empirical testing is needed before this assertion can be presented defensibly, however. While perpetrator race did not impact media references to mental illness, media coverage was more likely to reference mental illness if the perpetrator had a known or suspected mental health issue. There were no differences in known or suspected mental illness between White and non-White or Muslim and non-Muslim perpetrators. Attacks with multiple perpetrators or in association with a known group signal greater planning and preparation, which can explain why coverage of these attacks was less likely to reference mental illness. In the broader terrorism and violence literatures, people with mental illness are perceived to not be "good team players" (Corner & Gill, 2015). Attacks with unknown perpetrators were far less likely to reference mental illness, probably due to a lack of information. There is some evidence that coverage is more likely to reference mental illness as the number of fatalities increases, which—while inaccurate—may be an attempt to make sense of violence by assuming that someone would have to have a mental illness to kill others. Once again, our results held across coverage of all attacks and just those that clearly met all inclusion criteria for the GTD.

In sum, our results show the strength of our main findings: Coverage of Muslim-perpetrated attacks was more likely to reference terrorism, while there was no difference in references to mental illness between attacks perpetrated by White people compared to people of color. These results are robust against a number of alternate explanations. This strengthened our confidence in the findings that Muslim perpetrators are more likely to be associated with terrorism while there are no differences in references to mental illness between White and non-White terrorists.

Conclusion

Limitations and Future Directions

Our results clearly show that incident- and perpetrator-level factors of a terrorist attack influence whether media coverage references terrorism or mental illness. Media coverage of terrorism influences how the public understands violence and its perpetrators, as well as which policies the public will support to address the problem. Though our findings are robust against a number of alternatives, they still have limitations. We limited our study to textual analysis of U.S.-based print media coverage of U.S. terrorist attacks in a 10-year period. While there are both practical and methodological reasons for this, it is unclear if our findings apply across other contexts or whether the inclusion of image and photo analysis might yield different or more nuanced results. Specifically, broadcast news has time constraints and tends to sensationalize stories (Dixon & Williams, 2015) which may amplify disparities in coverage. Doing a similar analysis on broadcast news is one potential avenue for future

research. Systematically examining imagery used in media coverage of terrorism is another potential direction for scholarship in this area.

Relatedly, most work on media coverage of terrorism focuses on the U.S. so results may not translate cross-nationally. Exploring terrorist attacks and media coverage outside of the U.S. is another possibility for future research. Longitudinally examining how media frame terrorism pre- and post-9/11 may also yield interesting findings. An expanded dataset may also allow for examination of the interaction between identities, which was not possible here since only one attack had a White, Muslim perpetrator. Finally, lack of a public archive for websites like FoxNews.com and HuffingtonPost.com precluded us from examining differences in how media frame violence more comprehensively across the political spectrum. Future work could examine differences here over a shorter time period, where data availability is not an issue.

There were also methodological limitations, the largest being that we necessarily have to rely on publicly available information about perpetrators. There is unconfirmed speculation about a history of mental illness for some perpetrators, and for others there may be mental health issues that are currently unknown or unaddressed. Again, it is important to reiterate that we did not see differences in the prevalence of known or suspect mental health issues between either White and non-White or Muslim and non-Muslim perpetrators. Additionally, while white supremacists have perpetrated much of the terrorism in the U.S. in recent years, the U.S. government has been reticent to label these attacks as terrorism, which may in turn influence how media report on them. Investigating this is beyond the scope of the current project. Lastly, our approach here was to examine whether each article references terrorism or mental illness. This leaves room for further, more in-depth qualitative and linguistic analyses of other ways that news articles may differentially frame or depict terrorism. Focusing on mental illness as a key driver of some attacks can downplay or discount the relative importance of other aspects of the attack, such as access to firearms. One potential function of framing some acts of violence as terrorism and attributing others to mental illness is that this may provide a buffer between the perpetrator and their religious, ethnic, or racial groups while explaining their violence away. While an in-depth analysis of this nature was beyond the scope of the current data and project, we recognize that it presents an important point of consideration for future study.

Policy Implications

The attacks under examination in this study were all classified as terrorism by experts using rigorous coding criteria, and thus should be discussed as terrorism by media. We see, however, that this is often not the case. While only 16% of the attacks had a Muslim perpetrator, 77% of the articles that reference terrorism were about these incidents. In contrast, references to mental illness were more proportional and linked to

the mental health of the perpetrator rather than the perpetrator's race. Media framing and coverage influences how the public perceives issues (McCombs, 2014; Scheuefele & Tewksbury, 2007; Tversky & Kahneman, 1981). By differentially framing attacks by Muslims as terrorism, news media perpetuate misconceptions of terrorism and terrorist threats, which are reflected in public opinion (D'Orazio & Salehyan, 2018; Huff & Kertzer, 2018; Saleem & Anderson, 2013) and can influence policy preferences (Beale et al., 2019; Matthes et al., 2019).

The US public's fear of terrorism is largely misplaced and seems to be based more in media depictions than reality. Prior research shows that Muslim-perpetrated attacks receive more media coverage (<u>Dixon & Williams, 2015</u>; <u>Kearns et al., 2019b</u>; <u>Mitnik et al., 2020</u>) and the present study finds that this coverage is also more likely to reference terrorism. Results indicate that news media present an incomplete narrative of the landscape of terror attacks. Misperceptions like these promote prejudice and reduce the likelihood that security threats will be appropriately addressed.

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Supplemental Material

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Notes

Author Contributions

AEB led the data coding and cleaning efforts, developed our theory, wrote introduction, and contributed to the literature review and discussion. EMK oversaw data collection, assisted with cleaning and coding, conducted the analyses, and wrote the methodology, results, discussion, and conclusion. AFL framed the idea for the project and wrote the literature review and contributed to the introduction and discussion.

Data Availability

Data will be posted to Harvard's Dataverse upon acceptance of the paper.

1.

We use the term reference rather than label to more accurately capture the ways in which media cover attacks. Whereas label implies a direct statement that the incident is terrorism or the perpetrator is a terrorist, reference accounts for scenarios like coverage of Wade Michael Page's attack on a Sikh temple in which the following is said about him (and other far-right extremists): "They claim a moral high ground that is anything but moral in justifying the murder of the innocent. They see terrorism as a heroic act necessary to awaken a fallen society." While neither Page nor the attack are directly called a terrorist or terrorism, the quote clearly suggests that it was terrorism.

Further detail on the GTD and coding independence can be found on the START (2020) website. Inclusion decisions are "based on the totality of information about the attack reported in a variety of media sources . . . Specifically, GTD researchers look primarily at information about the perpetrator (GTD Codebook p. 43). . .the target/victim (GTD Codebook p. 32). . . and where relevant, information about the tactics/weapons used that might inform whether the inclusion criteria are satisfied (GTD Codebook p .23)" (E. Miller, personal communication, July 28, 2020). Coding decisions are made by a team of extensively trained researchers "based on information about the attack reported in a variety of media sources. . . If there is conflicting or unclear information about whether the inclusion criteria are satisfied, trained GTD researchers assess the available information and make a determination on whether it is appropriate to include the case in the database, but mark it as 'doubt terrorism proper' to document the uncertainty (GTD Codebook p. 11)" (E. Miller, personal communication, July 28, 2020). Attacks without information about motive are not included in the GTD. When there is unclear or conflicting information about motive, the attack maybe included by marked as "doubt terrorism proper." Information about the motive "must be explicit and is based on a preponderance of evidence, but the GTD researchers do not require an official designation or use a legal threshold of 'beyond a reasonable doubt'" (E. Miller, personal communication, July 28, 2020). Coding Notes from the 2017 Las Vegas shooting detail how the GTD works through the coding process for challenging cases (Miller, 2018).

Testing whether the media is primarily the shaper v. the reflector of public sentiment is beyond the scope of the current research. However, literature suggests both can be true, and that people are more likely to seek out media that corresponds with and reinforces their existing views across a range of topics (e.g., <u>Moeller & de Vreese, 2019</u>).

4.

2015 was the most recent year for which data were available when we collected our data. 2006 was the first year where the majority of Americans used the Internet to get their news (Caumont, 2013). The news sources in our dataset come from both print and online articles. Accordingly, we started our analyses in 2006. In years prior to 2005, we should see fewer news articles overall since print was more common and is subject to space constraints that online media is not.

5.

While we appreciate the importance of images in coverage (Barry, 1997; Tsang, 1984), an analysis of the pictures included in media coverage is beyond the scope of the current project. Our sample was not collected with visual analysis in mind and this level of analysis would not be supported by the current sample of articles. Some of the articles in our sample were PDFs with images while most were documents of text only from LexisNexis. Video captions were not coded for the same reasons we refrained from coding images. Text within captions for images was coded because image captions were present in both PDFs and LexisNexis documents, though these represent a tiny fraction of the coded text.

6.

Systematically studying broadcast news is beyond the scope of this project. Broadcast media has a fixed amount of airtime, so we expect that even more of these attacks would not receive any coverage. In this study, 26.5% of attacks are not covered. We expect that focusing on broadcast media would bias results in favor of more sensational events.

7.

As others note in examining media's role in setting public discourse, the amount of media coverage given to terrorist attacks suggest over-coverage of some attacks as a function of perpetrator identity (Muslim or minorities) and other factors (<u>Chermak & Gruenewald, 2006</u>; Kearns et al., 2019; <u>Mitnik et al., 2020</u>).

8.

At the coding level, we differentiated between "terrorism"—referring to acts—and "terrorist"—referring to perpetrator(s). For analyses of media framing of the attack, we combined these categories. As noted in <u>Supplemental Appendix B</u>, we exclude references that state that it was <u>not</u> terrorism or that the perpetrator was not a terrorist (or mentally ill).

9.

Articles covering jihadi attacks are substantially longer, on average, than articles covering other terrorist attacks (Mitnick et al., 2020). As a robustness check, we created proportion variables were the number of references to terrorism and to mental illness in

coverage were divided by the total number of words in that article (M = 608.6, SD = 457.8, Mdn = 513, Range: 11–3901). Results were fundamentally unchanged, which gives us confidence that variation in article length is not the driver of our results.

10.

Context was considered when making final decisions on codes. Each article was carefully read to ensure that terms were not counted if they did not reflect the intended meaning of the keywords. For example, instances of "insane" and "crazy" when clearly used to indicate quantity (e.g., "insane murder rate") or that something was absurd (e.g., "the insanity of paying taxes") were not included. Further, references that clarified that a perpetrator had no known affiliation with a terror group or that they were competent to stand trial were excluded (see Supplemental Appendix B). Codes were only counted if they were being applied to the perpetrator or situation or if a crime was being used as a direct comparison to the crime being discussed (e.g., "Not since the Boston terror attack has the country seen a bombing like this" would count as a terrorism reference because the audience is being invited to reference their knowledge of terrorism without explicitly labeling the attack as such).

11.

12.

We coded this variable in two ways: a strict coding where only perpetrators with diagnosed mental health issues were coded as 1 = yes and a loose coding where perpetrators with suspected mental health issues were also coded as 1 = yes. We also coded those variables to both drop incidents where the perpetrator(s) were unknown and where these incidents were default coded to 0 = no.

While terrorism perpetrators can be both White and Muslim, in the present sample this is only the case for one attack. Thus, exploring the interaction between these identities here would be impossible based on a single case.

13.

As a series of robustness checks, we estimated models in a number of alternative ways: (1) outcomes as a count of mentions; (2) outcomes as a proportion of mentions over the total number of words in the article; (3) recoding perpetrator identity variables to collapse Muslim and White perpetrators with unknown perpetrators to create two new variables—PerpNotMuslim and PerpNotWhite—to ensure that our findings are not an artifact of collapsing non-Muslim and non-White perpetrators with unknown perpetrators; (4) excluding cases where the perpetrator is unknown; and (5) measuring casualties instead of fatalities. Across all alternative models, the results reported in text are fundamentally unchanged, which has given us additional confidence in the strength of our findings.

References

Alsultany E. (2012). Arabs and Muslims in the media: Race and representation after 9/11. New York University Press.

- Altheide D. L. (1987). Reflections: Ethnographic content analysis. Qualitative Sociology, 10(1), 65-77. https://doi.org/10.1007/bf00988269
- Appelbaum P. S., Swanson J. W. (2010). Gun laws and mental illness: How sensible are the current restrictions? Psychiatric Services, 61(7), 652-654. https://doi.org/10.1176/ps.2010.61.7.652
- Arva B., Idris M., Pervez F. (2017, August 31). Almost all news coverage of the Barcelona attack mentioned terrorism. Very little coverage of Charlottesville did. The Washington Post. https://www.washingtonpost.com/
- Barry A. M. (1997). Visual intelligence: Perception, image, and manipulation in visual communication. SUNY Press.
- Beale S. J., Sterck O., Slingeneyer T., Lits G. P. (2019). What does the 'terrorist' label really do? Measuring and explaining the effects of 'terrorist' an 'Islamist' categories. Studies in Conflict & Terrorism, 42(5), 520-540. https://doi.org/10.1080/1057610x.2017.1393902
- Bekkers V., Beunders H., Edwards A., Moody R. (2011). New media, micromobilization, and political agenda setting: Crossover effects in political mobilization and media usage. Information Society, 27(4), 201-
 - 219. https://doi.org/10.1080/01972243.2011.583812
- Bryant J., Miron D. (2004). Theory and research in mass communication. Journal of Communication, 54(4), 662-704. https://doi.org/10.1111/j.1460-2466.2004.tb02650.x
- Bump P. (2015, June 19). Why we shouldn't call Dylann roof a terrorism. The Washington Post. https://www.washingtonpost.com/
- Caumont A. (2013, October 16). 12 trends shaping digital news. Pew Research Center. https://www.pewresearch.org
- Chermak S. M., Gruenewald J. (2006). The media's coverage of domestic terrorism. Justice Quarterly, 23(4), 428-461. https://doi.org/10.1080/07418820600985305
- Corner E., Gill P. (2015). A false dichotomy? Mental illness and lone-actor terrorism. Law and Human Behavior, 39(1), 23-34. https://doi.org/10.1037/lhb0000102
- D'Orazio D., Salehyan I. (2018). Who is a terrorist? Ethnicity, group affiliation, and understandings of political violence. International Interactions, 44(6), 1017-1039. https://doi.org/10.1080/03050629.2018.1500911
- Dixon T. L. (2017). Good guys are still always in white? Positive change and continued misrepresentation of race and crime on local television news. Communication Research, 44(6), 775–792. https://doi.org/10.1177/0093650215579223
- Dixon T. L., Linz D. G. (2000). Race and the misrepresentation of victimization on local television news. Communication Research, 27(5), 547-573. https://doi.org/10.1177/009365000027005001
- Dixon T. L., Williams C. L. (2015). The changing misrepresentation of race and crime on network and cable news. Journal of Communication, 65(1), 24-39. https://doi.org/10.1111/jcom.12133
- Dolliver M. J., Kearns E. M. (2019). Is it terrorism?: Public perceptions, media, and labeling the Las Vegas shooting. Studies in Conflict & Terrorism, 2019, 1-19. https://doi.org/10.1080/1057610X.2019.1647673

- Druckman J. N. (2001). The implications of framing effects for citizen competence. Political Behavior, 23(3), 225–256. https://doi.org/10.1023/A:1015006907312
- Druckman J. N., Fein J., Leeper T. J. (2012). A source of bias in public opinion stability. American Political Science Review, 106(2), 430–454. https://doi.org/10.1017/S0003055412000123
- Entman R. M. (1993). Framing: Toward clarification of a fractured paradigm. Journal of Communication, 43(4), 51–58. https://doi.org/10.1111/j.1460-2466.1993.tb01304.x
- Gade E. K., Card D., Dreier S. K., Smith N. A. (2018, July 18–21). What counts as terrorism? An examination of terrorist designations among US mass shootings. Political Methodology Annual Conference, Salt Lake City, UT, United States.
- Gerbner G. (1998). Cultivation analysis: An overview. Mass Communication and Society, 1(3–4), 175–194. https://doi.org/10.1080/15205436.1998.9677855
- Gilliam F. D.Jr., Iyengar S. (2000). Prime suspects: The influence of local television news on the viewing public. American Journal of Political Science, 44(3), 560–573. https://doi.org/10.2307/2669264
- Gitlin T. (1978). Media sociology: The dominant paradigm. Theory & Society, 6(2), 205–253. https://doi.org/10.1007/bf01681751
- Greenaway K. H., Cruwys T. (2018). The source model of intergroup threat: Responding to internal and external threats. American Psychologist, 74(2), 218–231. https://doi.org/10.31234/osf.io/k2t56
- Gruenewald J., Chermak S., Freilich J. D. (2013). Distinguishing 'loner' attacks from other domestic extremist violence: A comparison of far-right homicide incident and offender characteristics. Criminology & Public Policy, 12(1), 65–91. https://doi.org/10.1111/1745-9133.12008
- Huff C., Kertzer J. D. (2018). How the public defines terrorism. American Journal of Political Science, 62(1), 55–71. https://doi.org/10.1111/ajps.12329
- Hutchens M. J., Hmielowski J. D., Beam M. A. (2019). Reinforcing spirals of political discussion and affective polarization. Communication Monographs, 86(3), 357–376. https://doi.org/10.1080/03637751.2019.1575255
- Kearns E. M. (2019). When to take credit for terrorism? A cross-national examination of claims and attributions. Terrorism and Political Violence, 2019, 1–30. https://doi.org/10.1080/09546553.2018.1540982
- Kearns E. M., Betus A. E., Lemieux A. F. (2019a). When data do not matter: Exploring public perceptions of terrorism. Studies in Conflict & Terrorism, 2019, 1– 25. https://doi.org/10.1080/1057610X.2018.1543145
- Kearns E. M., Betus A. E., Lemieux A. F. (2019b). Why do some terrorist attacks receive more media attention than others? Justice Quarterly, 36(6), 985–1022. https://doi.org/10.1080/07418825.2018.1524507
- Krippendorff K. (2004). Content analysis: An introduction to its methodology. Sage.
- Lecheler S., Keer M., Schuck A., Hänggli R. (2015). The effects of repetitive news framing on political opinions over time. Communication Monographs, 82(3), 339–358. https://doi.org/10.1080/03637751.2014.994646

- Linnemann T. (2010). Mad men, meth moms, moral panic: Gendering meth crimes in the Midwest. Critical Criminology, 18(2), 95–110. https://doi.org/10.1007/s10612-009-9094-8
- Matthes J., Schmuck D., von Sikorski C. (2019). Terror, terror everywhere? How terrorism news shape support for anti-Muslim policies as a function of perceived threat severity and controllability. Political Psychology, 40(5), 935–951. https://doi.org/10.1111/pops.12576
- McCombs M. (2014). Setting the agenda: Mass media and public opinion (2nd ed.). John Wiley & Sons.
- Miller E. (2018, December 7). Global terrorism database coding notes: Las Vegas 2017. https://www.start.umd.edu/news/global-terrorism-database-coding-notes-las-vegas-2017
- Mitnik Z. S., Freilich J. D., Chermak S. M. (2020). Post-9/11 coverage of terrorism in the New York Times. Justice Quarterly, 37(1), 161–185. https://doi.org/10.1080/07418825.2018.1488985
- Moeller J., de Vreese C. (2019). Spiral of political learning: The reciprocal relationship of news media use and political knowledge among adolescents. Communication Research, 46(8), 1078–1094. https://doi.org/10.1177/0093650215605148
- Nagar N. (2010). Who is afraid of the T-word? Labeling terror in the media coverage of political violence before and after 9/11. Studies in Conflict & Terrorism, 33(6), 533–547. https://doi.org/10.1080/10576101003752655
- National Consortium for the Study of Terrorism and Responses to Terrorism (START). (2020). Global terrorism database. http://www.start.umd.edu/gtd
- Noor M., Kteily N., Siem B., Mazziotta A. (2018). 'Terrorist' or 'Mentally Ill': Motivated biases rooted in partisanship shape attributions about violent actors. Social Psychological and Personality Science, 10(4), 485–493. https://doi.org/10.31234/osf.io/49kac
- Price V., Tewksbury D. (1997). News values and public opinion: A theoretical account of media priming and framing. In Barnett G. A., Boster F. J. (Eds.), Progress in communication sciences: Advances in persuasion (pp. 173–212). Ablex Publishing Company.
- Price V., Tewksbury D., Power E. (1997). Switching trains of thought. The impact of news frames on readers' cognitive responses. Communication Research, 24(5), 481–506. https://doi.org/10.1177/009365097024005002
- Powell K. A. (2011). Framing Islam: An analysis of US media coverage of terrorism since 9/11. Communication Studies, 62(1), 90–
 - 11. https://doi.org/10.1080/10510974.2011.533599
- Prince S. (2009). Firestorm: American film in the age of terrorism. Columbia University Press.
- Saleem M., Anderson C. A. (2013). Arabs as terrorists: Effects of stereotypes within violent contexts on attitudes, perceptions, and affect. Psychology of Violence, 3(1), 84–99. https://doi.org/10.1037/a0030038

- Scheufele D. A., Tewksbury D. (2007). Framing, agenda setting, and priming: The evolution of three media effects models. Journal of Communication, 57(1), 9–20. https://doi.org/10.1111/j.1460-2466.2006.00326 5.x
- Schmid A. P. (2011). The definition of terrorism. In Schmid A. P. (Ed.), The Routledge handbook of terrorism research (pp. 39–98). Routledge.
- Shaheen J. (2014). Reel bad Arabs: How Hollywood vilifies a people. Olive Branch Press.
- Slater M. D. (2007). Reinforcing spirals: The mutual influence of media selectivity and media effects and their impact on individual. Communication Theory, 17(3), 281–303. https://doi.org/10.1111/j.1468-2885.2007.00296.x
- Slater M. D. (2015). Reinforcing spirals model: Conceptualizing the relationship between media content exposure and the development and maintenance of attitudes. Media Psychology, 18(3), 370–395. https://doi.org/10.1080/15213269.2014.897236
- Solomon S., Greenberg J., Pyszczynski T. A. (2015). The worm at the core: On the role of death in life. Random House Incorporated.
- Tsang K. J. (1984). News photos in Time and Newsweek. Journalism Quarterly, 61(3), 578–723. https://doi.org/10.1177/107769908406100314
- Tversky A., Kahneman D. (1981). The framing of decisions and the psychology of choice. Science, 211(4481), 453–458. https://doi.org/10.1007/978-3-642-70634-9_6
- van Atteveldt W., Ruigrok N., Kleinnijenhuis J. (2005). Associative framing: A unified method for measuring media frames and the media agenda. Mimeo Free University Amsterdam.
- Vedantam S. (2017, October 5). Classifying attacks: Mental illness or terrorism. NPR. www.npr.org
- Weatherston D., Moran J. (2003). Terrorism and mental illness: Is there a relationship? International Journal of Offender Therapy and Comparative Criminology, 47(6), 698–713. https://doi.org/10.1177/0306624X03257244
- West K., Lloyd J. (2017). The role of labeling and bias in the portrayals of acts of "terrorism": Media representations of Muslims vs. non-Muslims. Journal of Muslim Minority Affairs, 37(2), 1–12. https://doi.org/10.1080/13602004.2017.1345103
- Young J.K. (2019). Measuring terrorism. Terrorism and Political Violence, 31(2), 323–345. https://doi.org/10.1080/09546553.2016.1228630
- Zhang D., Shoemaker P. J., Wang X. (2013). Reality and newsworthiness: Press coverage of international terrorism by China and the United States. Asian Journal of Communication, 23(5), 449–471. https://doi.org/10.1080/01292986.2013.764904

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