

# Conformity of Eating Disorders through Content Moderation

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For individuals with mental illness, social media platforms are considered spaces for sharing and connection. However, not all expressions of mental illness are treated equally on these platforms. Different aggregates of human and technical control are used to report and ban content, accounts, and communities. Through two years of digital ethnography, including online observation and interviews, with people with eating disorders, we examine the experience of content moderation. We use a constructivist grounded theory approach to analysis that shows how practices of moderation across different platforms have particular consequences for members of marginalized groups, who are pressured to conform *and* compelled to resist. Above all, we argue that platform moderation is enmeshed with wider processes of conformity to specific versions of mental illness. Practices of moderation reassert certain bodies and experiences as ‘normal’ and valued, while rejecting others. At the same time, navigating and resisting these normative pressures further inscribes the marginal status of certain individuals. We discuss changes to the ways that platforms handle content related to eating disorders by drawing on the concept of multiplicity to inform design.

CCS Concepts: • **Human-centered computing** → **Empirical studies in collaborative and social computing**.

Additional Key Words and Phrases: Eating disorders; mental illness; social media; online communities; content moderation; digital ethnography; conformity; multiplicity.

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## 1 INTRODUCTION

Participation of diverse groups on social media platforms, such as Facebook, Instagram, and Reddit, occupies a large contingent of work in Computer-Supported Cooperative Work (CSCW). Research addresses the proliferation of networks and communities across these platforms as well as the content of discussions and practices of sharing [1, 5, 48, 73, 83, 109]. Emergent within this literature is an emphasis on understanding the practice of content moderation and associated experiences. As Tarleton Gillespie writes, content moderation is central to what online platforms do [58]. Moderation of participation and discussion has been studied within general contexts, such as Reddit [74, 76], as well as specific ones, including examination of hate speech and online

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harassment [26, 116, 135, 136]. Much discussion in this domain involves identifying specific topics of conversations [28, 136], determining which topics should be encouraged or removed [33, 55, 60, 129], and understanding interactions between manual and automated forms of regulation [75, 130]. In the CSCW- and Human-Computer Interaction (HCI)-related literature, as well as publicity from large tech firms [118], the moderation of individuals and groups has been treated as a necessity.

In this paper, we aim to approach the topic of platform content moderation from another perspective. Platform moderation involves various configurations of human and algorithmic activity (e.g., flagging content, content removal). Here, we closely attend to how moderation happens and what the consequences of moderation are for members of marginalized groups expressing non-dominant narratives. We argue that the relations between the social and technical (i.e., the *sociotechnical*) afforded on social media platforms exert an active force, producing and reproducing a conformity to particular norms and values. Conformity, therefore, is not only established through the formally documented rules in a platform's standards and guidelines [49, 58, 113]. Similarly, it is not solely dependent on the technological features and underlying structures of a platform. Rather, it emerges as a tacit set of norms and values through the interplay between a platform's features and how a group's members come to actively moderate talk and interaction. Our interest, then, is in how the distinctive features of social media platforms interweave with the social practices of moderation and how such sociotechnical relations serve to sustain and amplify certain norms and values that often exclude or marginalize non-dominant narratives.

We examine these social and technical practices of content moderation on social media platforms as they relate to individuals with eating disorders. The work that follows is grounded in two years of digital ethnography, most recently focusing on the experiences of individuals with eating disorders across an ecosystem of social media platforms. In addition to analyzing online content, we interviewed 20 individuals with eating disorders who reported having content removed from social media platforms, including Facebook, Instagram, Reddit, Tumblr, and Twitter. Through a constructivist grounded theory approach to analysis [30], we show that the pressures of moderation can have damaging consequences, especially for marginalized groups. These consequences include loss, labor, and displacement, as well as wider processes that reinforce ideas around which versions of mental illness are sanctioned as 'normal' and 'acceptable' in online spaces. We will show that resistances arise in response to these many consequences and to the effects of being marginalized. Individuals and groups find ways to work around platform processes through the creation of different user accounts and establishment of splinter communities forged through ingroup, grassroots processes of community moderation.

We make three primary contributions. The first is a detailed account of how members of a marginalized group—individuals with eating disorders—experience content moderation, extending prior work in this space [25, 74, 76, 106]. Although content moderation is typically conceptualized as necessary for the greater good of online communities (e.g., preventing harassment, protecting individuals from graphic or triggering content), its potential harms are not well-understood or documented. Our analysis reveals the ways in which content moderation has consequences, sometimes severe, for people with eating disorders. These consequences include loss of personal content (e.g., used for self-reflection) and community support, as well as the creation of additional restorative work for people who have been subject to moderation.

Second, we turn to conformity as a way of understanding the broader social and technical practices of content moderation. In this paper, we view these practices as mechanisms of social influence and control. Conformity, in this context, is simultaneously a particular configuration of norms and values and an active process in which people with differing norms and values are pressured to assimilate or comply [31]. Conformity is central to many social processes. Our aim is not to contend the importance of conformity or to call for its eradication. Rather, we use this paper as

a space to question and call attention to a particular practice of conformity—content moderation as it relates to eating disorders online—that has become pervasive and taken-for-granted across many online spaces. We discuss how content moderation contributes to wider processes of conformity, set within historical and contemporary contexts, where particular versions of mental illness are legitimized and others are rejected.

Finally, as a counterpoint to conformity, we reflect on what it means to design for multiplicity in online social platforms. Drawing from Annemarie Mol’s work [103], we discuss how eating disorders are enacted differently across various sociotechnical configurations of online spaces and actors. These differing, multiple versions of eating disorders are simultaneously performed and entangled within different platforms, communities, accounts, and people [69, 132]. Here, we use multiplicity to focus on the many different versions of body image and body management as they are performed online with respect to eating disorders and, more broadly, mental illness. In this context, multiplicity helps us attend to the range of norms and practices within eating disorders online and the restrictive impact of platform content moderation. We articulate directions for future work aimed at creating more diverse and equitable online spaces.

## 2 RELATED WORK

Our work builds on a growing body of literature related to content moderation, eating disorders, and members of marginalized groups online. Though we use ‘eating disorder’ and ‘mental illness’ throughout this paper, we do not reference or rely on medical interpretations or delineations of these experiences. Instead, these phrases act as social groupings that help us connect our work with other technologists and conversations in this domain. In this paper, we are addressing particular ways that bodies (e.g., body image, body management) are constructed online and how people respond to and negotiate norms around this content.

### 2.1 Content Moderation on Social Media

A large body of work within CSCW- and HCI-related literature examines content moderation in the context of social media and online communities [8, 26, 27, 58, 74–78, 85, 100, 106, 129, 130]. Practices of moderation aim to facilitate quality content, civil discussion, and, generally speaking, online spaces where individuals can engage and participate without overt fear of abuse, harassment, or accidental viewing of violent, illegal, or triggering activities [85, 86]. Throughout this paper, when we refer to content moderation, we refer to “the governance mechanisms that structure participation in a community to facilitate cooperation and prevent abuse” [62]. What we call platform moderation, others have termed commercial content moderation [122]. This practice of moderation involves the organized ways in which content produced by social media users is subject to surveillance, report, review, and removal [106]. These practices often rely on decisions passed down by dispersed groups of outsourced laborers [61, 122].

Though mechanisms behind content moderation are largely proprietary and private (i.e., a black box [75]), some researchers have illuminated the underpinnings of these sociotechnical processes [58, 61, 106, 122]. Broadly, content moderation may involve automated systems, community flagging and reporting [32], and outsourced labor [61, 121, 122]. Several social media platforms, including Reddit and Facebook (e.g., subreddits, Facebook groups), also rely on community moderators—at times, with automated systems—to manage groups of individuals with similar interests, as well as transient visitors [75, 78, 81, 100, 130]. We distinguish this instance of moderation, in which moderators and other members of communities engage in shaping (i.e., moderating) particular forms of participation online, from platform moderation. However, as we argue, practices of platform and in-group community moderation are entangled.

Given the pervasiveness of content moderation, a growing area of interest involves understanding the experience of being moderated [74, 76, 77, 106]. This research thread speaks to the frustration and, at times, confusion of having content removed. Though marginalized communities and groups of people are not highlighted currently in this body of work, researchers have suggested that content moderation may have more detrimental effects on their members [77, 106]. The present study helps bridge this gap in the literature by engaging with a particular marginalized group (i.e., individuals with eating disorders) through digital ethnography, including online observation and interviews. In addition to demonstrating the harms of content moderation in this context, we animate its role in constituting eating disorders and, as we detail in the discussion, illness narratives online.

## 2.2 Moderating Eating Disorders Online

Researchers have also studied content moderation as it relates to eating disorders. This work typically engages with ‘deviant’ (i.e., rule-breaking) content from pro-eating disorder (pro-ED) communities. Research in this domain has used machine learning techniques to characterize types of content removed [22, 23] and behavioral responses to moderation, including the ways that individuals use platform features, such as hashtags, to circumvent banned content [25, 57]. Findings from these works provide valuable insight into how the practices of platform moderation (i.e., particularly the banning of hashtags) amplify existing challenges to moderation and may inadvertently overlook others. For example, Stevie Chancellor and colleagues [25] found that attempts to moderate certain types of eating disorder content through hashtag bans resulted in a broader diversity and lexical variation of hashtags. The increased lexical variation of eating disorder hashtags resulted in additional challenges to moderation conducted via hashtags. Ysabel Gerrard [57], similarly, detailed limitations to practices of hashtag-based moderation, including the ways in which recommender systems can actively circulate pro-ED content. Due to these pitfalls of platform moderation, researchers note that alternatives are necessary [25, 47, 57]. In this paper, we extend these prior works through an empirical study of the experience of content moderation and a subsequent discussion detailing new avenues for design.

Content moderation is not, of course, the lone interest for researchers examining eating disorders online. Prior works detail a large and diverse spectrum of inquiries, including characterizations of content [10, 20, 34, 59, 79, 112, 114, 137], information-seeking behaviors [11, 51, 92, 107], recovery likelihood [24], and ethical concerns, including those related to censorship [131]. Across this body of research we see a commitment to supporting people with eating disorders and understanding the complexities of eating disorders in digitally-mediated spaces. Speaking to this complexity, Elizabeth V. Eikey, across a number of collaborations [43–45], describes how technologies, including social media platforms and weight loss applications, can be simultaneously beneficial and negative for individuals with eating disorders. Similarly, Pamara F. Chang and Natalya N. Bazarova’s examination of disclosure-response sequences on Pro-Ana Nation, an online forum, demonstrates how community-provided support within pro-anorexia spaces can be detrimental to health [29]. These examples highlight tensions within online spaces that individuals with eating disorders frequent. Specifically, as these spaces are not inherently or wholly positive or negative, benefits and consequences are entangled in the ways that people use them.

Given the complexities of technology use in this domain, computer-mediated support for individuals with eating disorders presents a challenging area for research. With respect to research focusing on pro-ED content and communities, recommendations tend to settle within a narrow window of approaches. These approaches may include novel forms of moderation [22, 34], such as automated systems to assist human moderators, and health interventions [23]. These design recommendations may benefit a number of people. For example, they aim to reduce the prevalence

of triggering content online, and its potential for contagion [19], and provide recovery support to individuals posting about certain topics. However, little is known or understood about their potential for harm. Understanding conflicting and negative effects from well-intentioned and health-minded design can support academic and industry professionals in developing equitable approaches to eating disorders online that work to mitigate unintentional harm and oppression. Additionally, in considering prior works, many studies do not engage directly (i.e., through interviews) with the communities they observe and plan to serve. First-person accounts are vital to better understand the complexity of eating disorders online. With this paper, we build on these earlier studies with interviews and attention to the consequences of content moderation for individuals with eating disorders.

### 2.3 “On the Margins” of Social Media and Online Communities

The contemporary experience of living with an eating disorder cannot be understood without considering the historical context of mental illness. Historically, individuals living with mental illness have encountered stigma, social ostracization, and forms of oppression, including forced institutionalization [52, 89, 128]. Specific to eating disorders, research has found that anorexia and bulimia are significantly more stigmatized than depression [123], and that eating disorders are associated with a variety of stigma and negative stereotypes dependent on the specific diagnosis (e.g., anorexia, bulimia, and binge eating disorder) [119]. In this paper, we join with other mental health and social media researchers in considering the experiences of people with eating disorders—and mental illness, more generally—through a history of marginalization [47, 108, 112]. Situating the experiences of these individuals in the context of marginalization helps us to better attend to power dynamics and differentials, acknowledge labor practices, and contribute to a growing body of literature that examines the marginalization of groups and designs for more equitable online experiences [8, 64, 72, 120, 126].

People with eating disorders may seek online socialization and support for a number of reasons [12, 42, 80]. Online spaces can help reduce feelings of loneliness and isolation derived from stigma and also connect individuals with people and communities where experiences are shared and understood [29, 43, 80]. Similarly, beyond research examining eating disorders, there is a body of work that examines how individuals with other ‘non-normative’ identities and experiences engage and participate online [36, 41, 63, 96, 101]. Research within this corpus often addresses the everyday lives of people from marginalized and minoritized groups. For example, Bharat Mehra and colleagues examine internet usage by low-income families, sexual minorities, and African-American women [101], finding that the internet can effectively operate as an instrument of empowerment. Other research foregrounds the importance of having safe and supportive online spaces, particularly for opportunities related to self-disclosure and identity work [2, 3, 36]. Collectively, this work documents the benefits and detriments of participation online and discusses how to improve online spaces for individuals at society’s margins.

Though there are benefits to online participation for members of marginalized groups, there are also an array of harms. For example, women, people of color, members of the LGBTQ community, and individuals with mental illness all encounter disproportionate and targeted forms of harassment online [40, 47, 90]. Ongoing research aims to address problems with harassment, such as through work with social organizations, communities, and platforms, including Hollaback [37] and HeartMob [8]. Social media platforms are also invested in understanding and solving problems related to online harassment [87]. However, as Gillespie describes, platform efforts related to reporting and mitigating harassment can themselves contribute to the problem (e.g., such as when individuals organize to use reporting features to flag or report a specific user—or group of users—who they do not agree with or like). Here, we consider how features designed for good (i.e., moderation to

support positive experiences and health) can work to exclude individuals with eating disorders and contribute to the oppression of a marginalized group online.

### 3 METHOD

A two-year digital ethnography, including online observation and interviews, grounded our understanding of the experience of content moderation for individuals with eating disorders. During this digital ethnography, we studied topics related to mental health and mental illness across several social media platforms and online communities. Most recently, we integrated our on-going digital ethnography, particularly those data collected through online observation, with 20 semi-structured interviews. In these interviews, we spoke with individuals who have or have had eating disorders and experienced content moderation online.

#### 3.1 Digital Ethnography

Digital ethnography has a foothold in a number of disciplines, including HCI, sociology, and anthropology [117]. Our approach to digital ethnography involves a commitment to the ‘ethnographic turn’ in HCI [39], as well as works produced by ethnographer danah boyd [13, 14] and sociologist Dhiraj Murthy [104, 105]. Through boyd’s ethnography of the social lives of teenagers in a networked era we see a commitment to immersion, observation (e.g., digitally-mediated and physical), and in-person interviews [14]. Drawing on these practices, we also turn to Murthy, who writes that digital ethnography is “ethnography mediated by digital technologies. [...] As this definition suggests, digital ethnographies can be ethnographic accounts of both offline and online groups. The ‘digital’ in this mode of ethnography stems from the methods rather than merely the target ethnographic object” [105]. Our understanding of digital ethnography supports a range of practices and forms of engagement with research populations.

Unlike traditional ethnographies, our research does not include a conventional field site, such as a specific geographic location or collocated community. The posts, accounts, and communities we observed online, as well as the participants we interviewed, are geographically dispersed and, instead, better understood through the mediating technologies of a networked world [13]. As with many ethnographies, our digital ethnography is not apolitical or disengaged with ethical responsibility and considerations. We aim to use this ethnography to foreground the experiences and perspectives of people with eating disorders who have had content removed. For us, digital ethnography provides a means to connect and empathize with marginalized populations. It also enables us to observe and understand changes in individuals, communities, and posting activity over time.

*3.1.1 Online Observation.* During the third week of November 2017, we conducted online observation on Instagram that resulted in an initial corpus of 2,102 posts once duplicates were removed. Initially, our inquiry focused on understanding multimodal expressions of mental health and illness [91]. To build this corpus, we used five hashtags (i.e., #anorexia, #anxiety, #bipolar, #depression, #mentalillness) that had been validated in previous research [3, 23, 25]. We collected posts four times a day by manually saving (i.e., hand-scraping) nine Top Posts and nine Most Recent posts for a given hashtag. During this preliminary data collection period, in addition to saving posts, we also spent time memoing on the content we observed. This involved copying and pasting URLs and taking screenshots of images, videos, captions, and comments to incorporate in documents. Juxtaposed with this online content, we wrote extensively during our initial interpretive work.

Following this one-week data collection period, we used our initial corpus as a starting point for continued online observation. Between November 2017 and September 2018 we collected a total of 6,223 Instagram posts (n=2,188 unique users) by tracing through accounts of individuals

who had posted, commented, and liked posts in our corpus. This traversal included full accounts, posts without hashtags, and posts without any text. Though we were interested in understanding how people posted about mental health and mental illness on Instagram, we noticed a number of instances related to content removal. Specifically, we observed a number of posts in which individuals who had content removed, including content related to self-starvation and self-harm (e.g., cutting), shared about their frustrations with content removal, reporting features, account terminations, and Instagram as a platform.

In addition to Instagram, we conducted data collection on Reddit and Tumblr. We did this to expand our corpus beyond a single social media platform. Broadening data collection provided a more nuanced view of the ecosystem [17, 36] in which people with eating disorders interact, and how this ecosystem changes and is disrupted by platform moderation of content. This ecosystem view is important for a number of reasons. Namely, people who use social media or online communities often belong to a number of different online spaces, rather than just one [36]. By examining experiences across an ecosystem, rather than a specific platform, we can better understand what is common and what is extraordinary. Understanding the systemic reach of common practices, as we do here (i.e., platform content moderation), can support critical interrogation of activities or features that are concealed or taken for granted.

Our online observation of Reddit began during November 2018, when Reddit issued a series of bans to communities such as r/ProED, r/ProEDMemes, and r/ProEDAdults. Following this incident, we observed how a number of banned subreddit members joined other social media and online communities. At this time, and continuing throughout the following months, we collected public posts on Reddit discussing the platform's decision to ban these subreddits. We also gathered relevant content from other online spaces, including online communities, individual blogs, and social media.

When we began interviewing for this study, several participants described content removal and account bans on Tumblr. As such, we decided to collect posts from Tumblr beginning in June 2019 to supplement our understanding of how people with eating disorders use the platform and respond to content moderation. We began our manual crawl through Tumblr using several eating disorder search terms, such as those used and validated in previous research (i.e., anorexia, proana, proED, bulimia, eating disorder) and others occurring alongside these hashtags on posts and within accounts [112]. We included posts and accounts in our analysis when we observed a mention of moderation. However, though many posts and accounts were not included in analysis, they did support our understanding of Tumblr as a platform, as well as the ways in which people with eating disorders use it.

We included an additional 208 threads started by 103 unique users from Reddit and 160 posts from 23 accounts on Tumblr in our analysis. These data were used to inform our line of questioning for interviews and supplement analysis. When presenting these data, as well as the content from Instagram and other online spaces (e.g., blogs, online communities) mentioned above, we alter the wording of posts so that they are not easily searchable or identifiable. Additionally, our online observation involves currently active and quarantined subreddits, as well as several smaller, online communities that are not housed on social media platforms. To preserve the privacy of these communities and their members, we do not name them. However, in this paper we do refer to banned eating disorder support communities on Reddit by their names. We do this as a form of activism to raise awareness about the termination of communities that provided support for a marginalized group.

**3.1.2 Interviews.** We conducted semi-structured interviews with 20 adults (ages 18 – 57; M=29) with eating disorders who had content related to their disorders removed from online communities and social media platforms. Though eating disorders can impact anyone [114], regardless of any

particular facet of identity, only three participants in our study identified as male (17 female). This is not to suggest that eating disorders are more prevalent or significant for women, only that our methods of recruiting did not adequately reach out to or engage with other individuals. With respect to race, eating disorders often run the risk of being associated predominantly with white women [84]. While the majority of our participants were white (n=12), six were African-American, one was Hispanic, and one identified as multi-ethnic.

Eligibility for this study was not contingent on a diagnosis. However, barring diagnosis, participants were required to identify as having an eating disorder. We invited individuals living with and in recovery from eating disorders to participate. As such, we have a broad spread of experiences represented by our participants. For example, several of our participants described being in recovery, while others were relapsing at the time of the interview or had grown accustomed to living with their disorder. Many individuals in our study described specific categories of eating disorders (e.g., anorexia, binge eating disorder, bulimia, other specified feeding or eating disorder), even when they had not received a diagnosis. Others, however, identified through particular activities, such as experiences with self-starvation and binge eating. These various participant experiences are difficult to neatly categorize. Many participants self-described having multiple experiences, such as with diagnosis and with disordered eating practices. We interviewed individuals who were members of pro-ED communities, as well as individuals who were members of pro-recovery or diet communities. The thread connecting our participants were their experiences, even those in the past, with content moderation. The content removal experienced by our participants included posts, accounts, and communities.

We recruited participants from an online eating disorder support community (n=4), Reddit (n=3), Craigslist (n=12), and snowball sampling (n=1). We issued a pre-interview phone screener, where we called participants to verify their age, eating disorder status, and experience with content moderation. Interviews lasted an average of 45 minutes and were held over the phone (n=18) or in-person (n=2). During the interview, we discussed topics related to experiences with online eating disorder accounts and communities, content removal, reactions to content removal, support resources, and opportunities for platform redesign. Interviews were audio recorded and transcribed for data analysis. Participants received a \$30 Amazon gift card or \$30 in cash. When referencing our participants throughout the paper, we use pseudonyms.

### 3.2 Data Analysis

Our approach to data analysis follows a constructivist grounded theory process, where members of the research team developed themes through iterative coding, memo writing, and constant comparison of data to developed concepts [30]. The process of memoing, as it relates to online observation, involved manually saving links to spreadsheets and taking screenshots of images and text to move into digital documents (i.e., Microsoft Word, Microsoft OneNote). We then wrote our memos directly juxtaposed with the online content we were observing. With respect to videos, which were rare in our dataset, we watched the video online and took a screenshot of the thumbnail, as well as anything visually relevant to the current inquiry (i.e., content moderation). We did not discretely memo around online observations and interviews. Insights, quotes, and images from these various collection methods were entangled in our memos, where they co-informed interpretations of one another and of our thematic development.

Preliminary themes included types and motivations for posting content that was eventually moderated, receipt of news (i.e., how participants came to know their content had been moderated), sensemaking around moderation, consequences of moderation, workarounds and resistance, and tensions with coexistence (i.e., how individuals navigate eating disorder communities that may include triggering content). Through our analysis, we began to understand the ways in which

harm can be caused by good intentions (e.g., content moderation and support resources), as well as how individuals push back on oppressive practices and participate online in ways that support the diversity of experiences with eating disorders.

### 3.3 Ethical Responsibility

We received approval for this research from [institution]’s IRB. In working with the IRB for this approval, we included two safety provisions for participants: a mental health practitioner and a document of mental health support resources. The mental health practitioner was available as a resource to participants (i.e., contact information on the consent documentation). Additionally, participants were informed that, should they describe current experiences with psychological distress, suicidal ideation, or self-harm, the interview would immediately end and their contact information would be shared with the practitioner, who would then reach out. Another provision we included was a document of mental health support resources, including several phone and text-based helplines. This document was sent to individuals along with the consent documentation, prior to the interview taking place.

As part of our method, we are mindful of how the analytic frame of marginalization requires accounting for and reflecting on how our expectations, values, and norms as researchers, and as individuals within society, differ from those of our participants and online posters [16, 66]. Our work is shaped by our personal experiences, including our own individual experiences with eating disorders and our experiences alongside close family members and colleagues with eating disorders. Our personal experience inherently shapes our approach and perspective, including our interest in this line of inquiry, interpretation of the data, and conscious commitment to foregrounding an experience that is largely unrepresented in current CSCW and HCI research. It is through this analytic framing that we began to see the concept of conformity take central focus in our analysis and understanding of content moderation.

We view ourselves as having an obligation to the communities and people we research [104, 127]. This means foregrounding experiences without sensationalizing them. For this reason, we do not include any images or video screenshots in this paper. Visual modes of communication, in particular, when taken out of context, such as posts removed from the entirety of an individual’s account, can make certain topics or practices seem unfamiliar or other. Similarly, because we do not have the consent of the individuals we observed online, we do not share unmodified text excerpts [50].

## 4 FINDINGS

Through our analysis, we show how content moderation involves the interplay of social norms and technical features of a platform that work to silence individuals and remove support, create new labor by encouraging responses and resistance, and shape community-led practices of moderation. To set the scene for our findings, we first walk through a case with one of our participants that illustrates how platform content moderation works in this context.

Dani, now 20 years old, has participated on social media and online communities for nearly a decade. Though her personal experience with eating disorders was not the only content she shared online, it did specifically result in account bans on both Tumblr and Instagram. With respect to Tumblr, prior to the termination of her account, Dani used a number of strategies to manage her public eating disorder blog and limit unwarranted attention. For example, she avoided using features that could establish links to other content or aid in platform search and providing tips or advice to other users (i.e., “*telling people you should do this*”). Despite these strategies, Dani felt like she was “*walking on eggshells*” whenever she posted. Her sensitivity to the workings of Tumblr (e.g., its capacities for linking and connecting content) was motivated by wanting to maintain a highly personal blog detailing her own sense of self and body image, while, at the same time, wanting to

escape criticism and platform moderation. Specifically, she *“didn’t want people to come crucify me because I was talking about, you know, the part of eating disorders that nobody wants to see. That nobody wants to hear.”*

Despite Dani’s strategic use of Tumblr, her eating disorder blog attracted attention. A year into managing this blog, Dani received an “aggressive” anonymous message asking her to delete an unspecified post about body image. *“I didn’t know exactly which post they were talking about,”* she said. *“[T]hat wasn’t the first time I posted about me not liking the way I looked... So, for a moment I sat and stared at the [message], and I was like, ‘What? Which one?’”* Rather than remove any posts, Dani sent a message back to the anonymous user, telling them to “just block” her. Shortly after, Dani’s account was terminated by Tumblr. An email from Tumblr’s support team notified her the eating disorder blog had been deleted for *“violating their terms”* and, though it invited appeal, Dani’s efforts to receive an explanation and reinstate her content remain unanswered. Though what triggered the ban is unclear, Dani placed blame with the anonymous user who messaged her earlier in the day. However, it may have been another, or even an automated content reporting system, that was ultimately responsible. Despite being subjected to regulation, Dani resisted the ban on Tumblr by creating a new account and, ultimately, finding new online communities, including those off of social media, to join. Even with new accounts and online spaces, Dani’s experience of being banned shaped her future interactions online, including practices of participation. She explained:

*“I’m not as talkative anymore... I just kind of lurk... I know there’s still people posting about eating disorders on there, but, when I see a post from them, I immediately get nervous saying, you know, if I interact with this person...someone is going to find my account and find a reason to make me disappear.”*

In Dani’s case, we see how a range of sociotechnical mechanisms and practices can work together to monitor and regulate content. Specifically, we see that moderation is made possible through the tight coupling of social interactions and the underlying technical structure of a platform (i.e., how the platform makes possible specific moderation practices, such as reporting and removal). These entangled relations—the interplay between the social and technical—do not only influence what and where some individuals post, but also shape appropriate or acceptable versions of having an eating disorder online. For Dani, we see that content moderation has serious consequences, including reduced social engagement and online expression. Additionally, we see how moderation and its consequences, including the possibility of further sanction, serve to amplify Dani’s sense of being subject to control and surveillance.

As this example begins to show, individuals experience a number of serious consequences following from moderation. These consequences may lead many to react against and resist platform moderation. However, as we will show, moderation is not simply an external force. It is also an interactive process that shapes how groups of individuals with diverse and varied experiences of eating disorders establish their own community-led moderation practices as part of engaging and participating within online spaces.

#### 4.1 Experiencing Content Moderation as Loss

Throughout our data, and exemplified in Dani’s case, we learned of many unintended consequences of moderation, including reduced online engagement and loss of community. Marie, discussing an experience with account termination, addressed how, for her, moderation *“was kind of embarrassing.”* She *“felt like I was being told I was wrong. Or getting punished when I hadn’t done anything. I felt like I hadn’t done anything wrong and I was angry about that, as I felt it was unfair.”* The initial anger and confusion associated with moderation, as Marie and others in our dataset described, have been detailed in prior research [74]. These—often strong—emotions are entangled with the ways that

individuals learn about and make sense of the experience of moderation, which can be confusing due to the lack of transparency and consistency. Marie's comment, in addition to describing her embarrassment and anger, speaks to recent findings detailed by Shagun Jhaver and colleagues [74]. Notably, that many individuals who have been moderated feel that they were done so unfairly. Here, rather than focus on perceptions of fairness or emotional responses to moderation, we attend to the various losses, including personal content for reflection and community support, that moderation entails.

Loss of content is central to the experience of being moderated. Platform moderation often involves unsolicited removal of personal posts and accounts, which are maintained by and for the individual. As most of our participants were not in the habit of saving content to multiple locations, their content was lost entirely. By removing or deleting this personal content, platforms effectively remove certain experiences and prevent opportunities for reflection and catharsis. Andrea and Dani both equated aspects of their online content with "diary" entries. This perspective shows how online content related to eating disorders is not merely a snippet of conversation or the representation of an experience. Rather, it plays into how people think of themselves and gives shape to an archive where posts can be revisited and reflected upon. Specifically, content in aggregate becomes a resource for reflection in the short and longer term [93]. While access to online content, particularly content functionally similar to a diary or journal, is valuable at any point during an individual's experience with an eating disorder [95], Andrea talked about how rereading her earlier posts was beneficial during recovery. She said:

*"I remember I used to post a lot of intrusive thoughts and then, going through recovery, I started having a lot fewer of those. And then there's a lot of elements where you're like, 'Oh, am I in a really bad place?' And then you go back and look at it and you're like, 'Oh, I'm not having 50 obsessive thoughts today about needing to weigh myself...' I can actively see how it's changed or even like at the time too, seeing how it got worse. That was really helpful to me right when I started recovery..."*

Content removal as a practice of moderation can suggest that certain experiences with mental illness are unwelcome and unworthy [47]. Notably, this interpretation coexists alongside the view of content removal as beneficial due to, for example, the reduction of potentially triggering imagery and text. In the instances we articulate here, moderation can feel like a loss of personal voice or silencing of experience. While many of our participants shared content related to living with an eating disorder, Grace discussed how posts on her Instagram account centered on "trying to be healthy" and "trying to gain my weight back." Despite this recovery context, Instagram removed a selfie that Grace shared because she looked too thin. The removal of her post from Instagram left Grace feeling sad, ashamed, and "unworthy to be seen." This example demonstrates how various types of eating disorder content, such as recovery imagery and thinspiration, can share similarities. These similarities speak to the difficulties of classifying mental health and illness content on social media [46], as well as the ways platforms may inadvertently delegitimize experiences while aiming to provide certain protections or support (e.g., helping people avoid triggering content).

Another form of loss that individuals experience as a result of moderation involves loss of community and social support. When platforms moderate content, they may "[take] away a support system," Christy explained. Loss of community, such as through practices related to account and community bans, can lead to social isolation, particularly for individuals who "don't have anywhere else to go," one former member of the now banned r/ProED wrote. As another former member described, the subreddit ban was "extremely upsetting. So many people used this [subreddit] for help and support. We can't always find that support offline." Social isolation due to practices of moderation can affect health. For example, Dani had a few helpful "people [on Tumblr] that would tell me, you

know, *'You're not alone. I'm here to talk,' and stuff like that.*" Following the ban of her Tumblr account, Dani lost these meaningful connections, which caused her to feel *"depressed, 'cause I didn't have anyone to talk to."* In addition to depression, we observed instances in which the experience of moderation led to dangerous offline behaviors, including purging. A former member of r/ProED wrote, *"I was really trying to recover... I don't know what to do now. I really feel like purging everything. This is so stupid."* In attempting to remove content classed as non-normative and harmful, platforms can create a downward stream of negative consequences, including loss of social support that, at times, amplifies illness.

Content removal is not the only practice of moderation that results in loss of community. For example, on Reddit, the practice of quarantining effectively isolates certain communities and their members from the larger Reddit community. In particular, quarantine suggests that, while certain subreddits are "not prohibited," they are, nevertheless, not normative or socially sanctioned. Quarantine on Reddit is established in several ways. Take, for example, the community that Morgan moderates. At the time of the interview, the subreddit had been under quarantine for several months. Functionally, this means that visitors receive a warning screen prior to viewing the subreddit. This warning screen includes the following message:

*"Are you sure you want to view this community? This community is quarantined. If you or someone you know is struggling with an eating disorder, there are resources that can help. Visit the National Eating Disorders Association website or contact their telephone helpline at 1-800-931-2237 for more information. Are you certain you want to continue?"*

The visitor is then presented with two options: "no thank you," a button that is emphasized through the blue of its background, or "continue," in gray. Should the visitor continue to the subreddit, a similar warning message (i.e., "This community is quarantined") is displayed at the top of the page. In addition to these warning messages, quarantined subreddits are excluded from non-subscription feeds (e.g., r/All, r/Popular) and search results, making them more difficult to find.

Prior to the quarantine of her subreddit, Morgan described how she revived the community to the point where hundreds of people subscribed every few weeks. Following quarantine, new subscriptions to the subreddit, as well as member engagement, have slowed to a halt. Quarantine, Morgan said, *"severely affects the subscribers"* of a community. *"It also makes you not want to talk, really. It kind of feels like you're under watch. Like, the thing you say, that's going to be the next – that's going to be the thing that makes you get banned."* As this example illustrates, content moderation through quarantining can result in loss of participation and constrained expression due to its surveillant property, which ultimately works to constitute which versions of eating disorders are permitted online.

Loss of community, particularly with respect to the removal of community spaces and content from online platforms, also involves the loss of a shared archive of resources. Andrea discussed how the loss of community resources on r/ProED *"totally sucked, because it was stuff that I would go and read if I was having a hard day. Like, someone had posted what to do if you feel like you're going to binge or what to do if you feel like you can't eat today."* Rather than cultivate community-provided resources, when certain content related to eating disorders is moderated, many social media platforms share support helplines—namely, the National Eating Disorder Association (NEDA) helpline. When Marie was provided the NEDA helpline following the termination of her MyFitnessPal account, an account she had used for nearly a decade, she felt "insulted." Vehemently, she said:

*"People will just be, like, 'Here's the NEDA helpline. Hail Mary full of grace. The Lord is with thee.' Because they just don't know what else to do. They don't know what else to say. You just sort of start to feel, like, here's the NEDA helpline. Now please go away... Stop having an eating disorder."*

Helpline resources such as these can be beneficial for individuals wanting to recover or learn more about their particular experience. However, these resources may feel “*unrealistic and unfair*” to many because of how they push recovery. Upholding recovery as an ideal neglects a multitude of differing experiences and needs. For example, recovery-related resources may not support individuals who do not feel ready to recover. These resources may also inadvertently exclude people who feel “kind of stuck in that revolving door of treatment,” as Amy described. These are, for example, individuals who cycle between recovery and relapse. Important to note is that helpline resources promote a limited range of norms and values with respect to eating disorders. They ultimately operate to reproduce a particular version of body image and body management online. Provision of these resources in tandem with moderation also suggests that platforms are forcibly creating loss—by removing opportunities for reflection, spaces for expression, and online networks for support and connection—and filling that absence with a resource list and phone numbers. The compounded losses experienced by individuals with eating disorders lead many to develop strategies of resistance that aim to circumvent or push back on oppressive platform practices.

#### 4.2 Responding to and Resisting Content Moderation

Given the significant and even traumatizing effects of content moderation, individuals with eating disorders respond in a variety of ways. Here, we address responses to moderation through the lens of resistance. By emphasizing individual and collective action, we acknowledge the labor performed by individuals with eating disorders. Much of this labor relates to the ways that individuals resist oppressive sociotechnical practices in order to raise awareness about and appeal decisions of moderation, rejoin online platforms by creating new accounts and communities, and engage on platforms by mediating the types of content they decide to share.

Because the removal of content through platform mechanisms often plays out in the background, individuals with eating disorders must work to raise awareness about their experiences. For example, when personal content and accounts are deleted, only the individual who posted the content or who owned the account is notified by email. The constant stream of content via personalized social media feeds, such as on Instagram, Twitter, Facebook, and Reddit, makes it difficult for other users, even those within the same communities or networks, to notice that reblogged or reposted content has been banned or that accounts have been muted or removed. To foreground practices of moderation, raise awareness, and confront other posters, particularly those implicated in practices of moderation, individuals with eating disorders may post about their experiences with moderation online. One Instagram user, for example, captioned a post, “*Why are you reporting me? Why do you want to delete my posts? It makes me feel bad. Seriously, just block me.*” Dani similarly addressed her Instagram followers, via a secondary account, when her primary account, a private account, was banned:

*“I hopped over to my second account and said, ‘Hey, guys. Someone reported me’ ... I made a post saying, ‘Hey, guys. I got my account deleted. I don’t know which one of you did it, but gee thanks. That really did - that did me a great favor.’ Like, ‘Thank you so much because that made my day so much better.’ I was furious and I could not for the life of me figure out who it was.”*

As we see here, rather than change any personal content or settings, such as post or account privacy, individuals may confront their followers and those who come across their account, holding these other social media posters accountable for outcomes of moderation and requesting they cease and desist. Similarly, many former members of r/ProED posted to other subreddits and online communities about their frustration, anger, upset, and outrage at the ban of their support community. In these examples, we see how individuals use social media, sometimes the very same

ones from which they had content removed, as platforms to speak out. This suggests that individuals are highly attuned to how social media can be used for activism [4, 67, 70, 88] and the ways in which other posters contribute to practices of platform moderation (e.g., such as via reporting posts).

Individuals use the technical features they have at hand to raise awareness and respond to what they view as unjust and unfair practices. For example, several participants used platform appeal features provided within email messages detailing content bans. However, many of our participants spoke to the idiosyncratic and opaque nature of appeal. Out of all our participants, only Grace had her Instagram account restored—and on the stipulation that she remove all posts in violation of community guidelines and discontinue her prior posting practices. Other participants described appealing content moderation through forms of collective action, including community-led petitions and surveys. As a key instance, former members of r/ProED created a survey to submit to Reddit admin to “*tell them how most people found the [subreddit] to be really helpful. How it made us feel less alone, like we had people who understood. I hope they listen and unban it. If not, at least we can speak out.*” Favorable outcomes to these individual and collection actions were rare, however. Appeals, though offering some mitigation to oppression, are still sanctioned and overseen by platforms. Meaning, appeal processes remain inherent within, rather than as a check and balance to, platform moderation.

Of course, platform-sanctioned appeals are not the only ways that people return to platforms following account and community termination. Sasha, for example, found it easier to create a new Instagram account, which she did “instantly” after her first one was banned. She was then faced, however, with the task of regaining followers and connecting with individuals from other communities of which she was part. For some, such as those on Tumblr, it is common to create a new account following a ban and request for others to not only follow, but to circulate new blog information via reblogging features. In a post on Tumblr, one person wrote, “*Hey, it’s [former blog name]. I got deleted, but I had 800+ followers. Can you share this to help me get them back?*” On most social media platforms, following an account ban, there are few, if any, actual barriers to account creation. Platforms, after all, want new users. As such, it is relatively straightforward for individuals to use platform features in unintended ways as a form of resistance and to rejoin spaces from which they have been forcibly removed and displaced. Similarly, it is just as straightforward to join new online spaces and communities. By allowing for these practices of resistance, which, ultimately, platforms do through their technical affordances, platforms offload the labor and burden of content, account, and community recreation to the individuals themselves.

Despite practices of resistance, such as the creation of new accounts or community spaces, platform moderation still exists. This means, for some individuals, continued engagement and participation involves changing content-sharing practices and internalizing the norms that practices of platform moderation aim to establish and enforce. Andrea, for example, described hesitancy around posting on a new eating disorder support subreddit following the ban of r/ProED. “*There was definitely something I wanted to post,*” she said. “*And it was, like, I don’t know, I feel like it had specific numbers or I was complaining about not being small enough... And I felt like I couldn’t post it and I felt like that was frustrating.*” This hesitancy and, ultimately, assimilation of platform standards through self-censorship can have, as we show, a chilling effect on behavior [99, 115]. Sasha, following the ban of an Instagram account, created a new account where she posted content that was “*still in the same arena, just not as intense.*” Christy, similarly, described how she stopped posting thinspiration. She explained, “*I just save it or archive it now. So, I don’t want to risk, like, getting anything banned. So, I just save, archive stuff that you can find it on, like, various eating disorder websites or on Instagram.*” Internalizing platform standards to mitigate risk of moderation conceals experience in a way that is similar to how individuals with eating disorders may hide certain

behaviors from friends, family, and social others [134]. Concealing mental illness, eating disorders included, has serious consequences [111]. However, in order to exist and participate within certain online spaces, this is exactly what must be done. Notably, even though individuals assimilate to online norms, they do not necessarily change their offline behaviors. As Marie explained, “[An account ban] isn’t gonna make me stop having an eating disorder.”

### 4.3 Establishing Norms through Community-Led Moderation

An everyday part of engaging with online eating disorder spaces involves brushing elbows with a variety of individuals and content—which can challenge online participation and result in practices of ingroup community moderation. As Marie described, “*different types of people exist in the same spaces. It’s muddled at times.*” Among our interview participants, individuals described varied diagnoses (e.g., binge eating disorder, anorexia, bulimia), both clinically provided and self-applied, and relationships with eating disorders, including those related to recovery, relapse, and living with a disorder.

Beyond diagnosis or experience, our participants also engaged across a number of platforms and types of communities, including those described in prior research as pro-ED [34, 59, 112]. Pro-ED has a long history of negative publicity and association. However, as our data suggest, contemporary usage by community members has reconfigured pro-ED to refer to groups of individuals who support people with eating disorders (i.e., “*in favor of—or pro—people with eating disorders*”), rather than being supportive of the disorder itself. For Marie, pro-ED meant, “*I’m dealing with a disorder and I don’t want help right now. And I want a place to vent about that. And it’s not so much as being, like, give me tips, give me tricks on how to be skinny... It’s more just the support.*” Our understanding of pro-ED is not solely grounded in interview data, but also in the types of content that come to be socially sanctioned on social media and online platforms by members of pro-ED communities [71]. For example, content related to the difficulties of having an eating disorder, attempts to recover, and replacing certain harmful practices with less harmful, or safer, ones can exist in the same spaces alongside thinspiration, food diaries (i.e., in the context of an eating disorder and recovering from one), and body checks (e.g., progress pictures of weight loss or gain). Given this diversity of content and experiences, individuals work to establish what is ‘normal’ and what is not through community-led practices of moderation.

Community-led practices of moderation develop, in part, through individual reflection and action related to the ways in which diverse, heterogeneous groups of people can coexist (e.g., pro-ED communities and the broader ecosystem of eating disorders online). For example, sharing content related to the reality of living with an eating disorder may upset or unintentionally trigger others. This includes certain experiences related to recovery, where individuals may keep detailed food diaries and share successes related to enumerated weight gain. Individuals are aware of the complex relationships between content and people. As one Tumblr poster wrote:

*“I feel bad about running an ED blog. Does anyone else ever feel that way? Like, just kind of guilty. At least a little bit. This blog is for me to vent and cope and meet other people with the same issues. But, like, I’m really nervous that how I express myself is going to mess up some other kid.”*

This commentary demonstrates tensions between wanting to engage online (e.g., to vent, cope, and connect) and a deep concern regarding the potential to negatively affect others. This concern influences how people post (i.e., how people self-moderate and self-censor), as well as the ways communities self-govern.

Although our informants were willing to engage in community-led moderation and self-governance, social media platforms, by the very implementation of their features, present a number of challenges to these practices. Marie, for example, explained how “*everyone uses the same, like, 12 [eating disorder] tags on Tumblr for everything. So, everything bleeds together.*” While this overlap of hashtags blurs boundaries (e.g., between individuals, content, and the potential for classification), it also presents a number of risks, including the overlap of content in detrimental ways. For example, in one Tumblr post, a user wrote, “*I’ve recently seen a bunch of recovery tags in non-recovery spaces! Do NOT post recovery tags with thinspo!*” Awareness of the ways in which content bleeds together, as well as its potential risks, is not enough to establish or enforce norms around hashtag use. In part, this is due to colloquial usage of hashtags to broaden audience—and, with it, the potential for followers and likes—as well as the decentralized forms that groups and communities of people with eating disorders take on social media.

Nevertheless, even in these muddled, entangled online spaces, individuals can be mindful of one another. Rose, currently in recovery, talked about how she’s able to safely access and participate within one of Twitter’s eating disorder communities due to the ways that she, and others, make use of content warnings—labels within posts that are separate from hashtags. According to Rose, on Twitter, content warnings are “*when someone posts something, for them to actually put up a content warning on top of [the tweet]. So, just to say, like, eating disorder or food or weight or, you know, whatever.*” In Rose’s community, the use of content warnings are “*kind of an unspoken rule.*” Though these warnings are not necessarily standard within or across platforms, their presence in Rose’s community enable her and others to “*safely and, in a positive way, access Twitter—is if I have those warnings, so that I can scroll past, if I need to without being triggered to start doing unhealthy behaviors.*” Other online communities, such as various subreddits, may also have community practices around flairing or labeling posts. Similarly, many smaller online communities for individuals with eating disorders build community spaces on traditional forums, such as those that allow for category-specific subforums (e.g., Anorexia, Recovery, Thinspiration). In these instances, content has designated spaces. As our participants shared, some online communities are successful at upholding the organization of these spaces, both in part due to an active moderation team, as well as the willingness of members to post in appropriate spaces and call attention to those who do not. Community-led approaches, when successful, “*makes you feel safe,*” Marie mentioned. Ingroup community moderation can facilitate safety and a diversity of content in ways that practices of moderation enforced by platforms do not.

Nevertheless, practices of community-led moderation interact with practices of platform moderation as members work to establish and enforce community norms. Here, we provide the example of harm reduction to illustrate differences between the ways that community-led and platform moderation interact to regulate content. Harm reduction refers to materials or resources that help individuals take care of themselves while living with an eating disorder. For example, harm reduction involves reminding individuals to hydrate during episodes of self-starvation and to not brush their teeth immediately following a purge. As Christy mentioned, “*I think harm reduction is great. I love—because I purge. And, if it weren’t for harm reduction, I think I would’ve fucked my teeth up so much more than I have.*” Harm reduction provides resources for individuals who have an eating disorder, but cannot or will not recover, to stay safe and informed. Despite benefits, harm reduction resources are treated differently across eating disorder spaces online. While some communities freely permit them, others, such as one of the active subreddits in our digital ethnography, have moderation teams dedicated to removing posts related to tips or advice and carefully overseeing content related to harm reduction. These community-led practices differ from their historical precedent, in which harm reduction was not liable for removal or modification at the discretion of a moderation team. This example illustrates an easy to miss point. Harm reduction, previously unregulated, is now subject to new, restrictive practices of community-led moderation.

These new practices are grounded in past and present interactions with platform moderation. As such, underlying these new community-moderated restrictions is the ever-present awareness of surveillance and potential threat of subreddit quarantine or removal from Reddit. Even in spaces intended to be welcoming and supportive for people with eating disorders, practices of moderation (i.e., interaction between platform and community-led moderation) can enforce certain versions of body image and body management and contribute additional labor to ingroup moderators [38, 138].

## 5 DISCUSSION

In the following sections, we turn to conformity as a way of understanding content moderation and the way it contributes to broad social and structural effects on marginalized groups. Conformity can help us to examine and address the pressures that individuals from marginalized groups experience online. As we describe here, conformity through content moderation is a form of social control that influences the ways people participate online. Though we are not arguing against conformity or content moderation in all of their forms and applications, we discuss how moderation *in this specific context* works to establish and enforce a particular conformity to body image and management, particularly among people with eating disorders, as well as, more broadly, people with mental illness. We discuss its consequences for members of marginalized groups. In contrast to conformity, we then discuss how platforms can design for a multiplicity of experiences online.

### 5.1 Content Moderation as Enforcing an Order of the Normal

People with eating disorders have historically been subjected to processes of conformity that aim to dictate overarching norms and values, particularly with respect to the enforcement of certain ideas regarding body image and body management. Processes of conformity are not only projected onto particular groups or communities (e.g., through guidelines, codes of conduct, or diagnostic manuals), but, in practice, come to be enacted through unfolding relations between varied actors and sociotechnical structures. Our claim is that through practices of content moderation these platforms are, in effect, enforcing an *order of normal* that restricts and aims to influence the ways people can participate online. In short, content moderation enforces a particular range of norms and values.

Though describing this ‘particular range of norms and values’ is beyond the scope of the current paper, we briefly speak to the broad diversity of bodies and body management practices online. Body image and body management practices online are often found within topics related to fitness, health and wellness, fashion, sports, and the everyday (e.g., selfies, hobbies and events, meal preparation). Content within these domains may be ‘acceptable’ for a number of reasons, many of which are assumed rather questioned. For example, within the health and fitness spheres, several diets, including intermittent fasting and one-meal-a-day (OMAD), recommend that individuals restrict their eating throughout the day. These body management practices, as well as other types of socially acceptable content (e.g., fitspiration), share a number of similarities with content that is moderated in online spaces [9, 21, 133]. The acceptability of content and, therefore, the perception of content as adhering—or not—to a social norm is contingent on context. As we show here, content related to body image and management is less acceptable when it is posted within the context of life with an eating disorder.

Following from the empirical materials presented above, we argue that social media platforms play a part in the wider sociotechnical processes of conformity. Specifically, across social media platforms, conformity to versions of body image and body management is established and enforced through platform features and the capacities for interaction that are afforded through them (e.g., commenting; labeling value through ‘likes’; content promotion and demotion via features, such as ‘upvotes’ and ‘downvotes’ and algorithms that prioritize content). With respect to our findings, we

recognize that it is altogether too easy to attend to specific instances within our data, such as the particular wordings of a comment, the reporting of a specific post, or the deletion of an individual's account. However, here, we shift our attention to what is happening across these cases and across an ecosystem of online spaces. This allows us to attend to the structural forces at play. Key to this structural framing is that individual instances of moderation, moderation that occurs within and among community groups, and distinctive interactive features of the platform must be understood together. Making sense of the platform altogether, rather than through specific cases in isolation, has been our means of understanding what content moderation across social media platforms is doing.

Consider, for example, the reporting features on social media platforms. By approaching their design and use in terms of the wider structural practices of content moderation, we get a clearer picture of how conformity and an order of normal are enforced. As we have seen, the threat of being reported regulates online behavior with respect to what people are willing to say about eating disorders and their own actions and beliefs. The power of moderation in this context is not in the reporting *per se*, but in its perpetual threat. Reminiscent of Michel Foucault's well-rehearsed reading of the panopticon [53], surveillance, rather than punishment, is the primary means of control. The Panoptic qualities of a platform [139], or more broadly its structural configuration designed to support content moderation, controls users and, in the case of eating disorders, regulates content so that it adheres to a norm. What the structural mechanisms of content moderation serve to do, then, is actively delineate the boundaries of what is acceptable within particular online spaces. They come to constitute a 'structural machinery' that sanctions some bodies and forms of mental illness, while simultaneously casting others as other-than-normal or deviant. Classifications of wrongness and deviance are amplified by practices of moderation that target certain versions of eating disorders, at times removing them from social media platforms and, therefore, the ability to participate in constituting broader versions of mental illness online.

Consequences of conformity clearly resonate with feminist and biopolitical accounts of bodies [15, 18, 56, 98]. These accounts detail various ways in which bodies are constructed and regulated in postmodernity. In particular, we attend to the ways social media platforms exert structural forms of control on how bodies are performed [35]. Underlying these structural forms and related research recommendations (e.g., such as health interventions) is the assumption that social media users should internalize, rather than question or counter, mechanisms of social control. Current platform practices, as well as research and design suggestions that call for additional, albeit different, forms of moderation and intervention, may result in new aggregates of human and technical control that work to establish and enforce existing norms and values [25, 34, 74, 76, 106]. This applies, even, to recent research on content moderation that suggests a shift toward an educational paradigm rather than a punitive one [106]. Existing norms and values constitute only certain versions of body image and body management. They neglect the broader range of bodies and practices. We argue platforms and researchers should explore alternative ways to support individuals with eating disorders, rather than impose an order of normal that further marginalizes and subjugates certain experiences.

## 5.2 Consequences of Conformity for Marginalized Groups

Specific moderation practices on any one platform might not pose a problem in isolation. However, the ways in which platforms operate in similar ways with respect to content related to eating disorders contributes to systemic discriminatory practices and displacement of individuals on the margins. By addressing the consequences of conformity, as we do here, we contribute to a developing body of work that examines how the sociotechnical machinery of platforms and algorithms (e.g., on social media and elsewhere) exclude non-normative identities and forms of

expression and interaction [6, 7, 65, 68]. Platform content moderation, as we describe here, operates to enforce a particular conformity to body image and body management online. These localized findings connect with broader processes of conformity, including those related to mental illness and marginalization. Here, we take a moment to discuss how conformity, as enacted by dominant groups and processes, has consequences for individuals with eating disorders and other members of marginalized groups.

Posts about body image and body management as they relate to eating disorders on social media can be interpreted as a type of illness narrative [47]. Illness narratives provide opportunities for individuals to work through, reflect on, and make meaning of the subjective experience of being ill or living with an illness [54, 82]. Personal narratives about mental illness share much in common with other types of illness narratives, including cancer and chronic illness [125, 140]. For example, these narratives are highly idiosyncratic and describe experiences with suffering, coping, and healing. Despite these similarities, narratives of mental illness online are more likely to be subjected to moderation and removal. As we have shown, individuals may respond to practices of moderation by concealing the full extent of their eating disorder on social media. This poses a problem, particularly for the many individuals for whom social media platforms may be the only spaces in which they feel comfortable disclosing and discussing their experiences. Without those spaces, and without others elsewhere in their lives, these individuals are at risk of psychological consequences related to hiding stigmatized experiences [111].

Processes of conformity also operate to displace individuals and communities. Displacement may be likened to a form of digital gentrification [94], in which marginalized groups are forcibly removed from platforms to benefit a majority. As Jessa Lingel describes, gentrification involves power and control. In particular, it involves the ways that corporations, including social media platforms, increasingly shape sociotechnical relations in digitally-mediated spaces [94]. Given how platforms operate, there are a number of motivations for ‘gentrification’ and the displacement of certain individuals and groups of people—many of which are grounded in concerns of revenue and legality. For example, displacement of individuals with eating disorders and other marginalized groups might be conducted to present a vision of an advertisement-friendly social media. Alternatively, platforms may encounter additional expenses when working to manage a particular population, such as those costs involved with the development and deployment of support resources and health interventions.

Nevertheless, displacement in the context of our study creates inequalities with respect to content production and which voices are permitted online. Displacement often occurs alongside moderation and simultaneous provisions of helpline resources. Though these resources may provide valuable and informative assets for individuals with eating disorders, as well as their family members and friends, they do not—and cannot—replace support networks and opportunities for socialization and disclosure. Further, when support resources are limited, such as to the NEDA helpline, they present a bounded interpretation of life with an eating disorder. These constraints ignore personal histories and experiences with eating disorders, including recovery, relapse, and management, demonstrating how a blanket solution (e.g., providing the same resources for everyone) may exclude many.

Finally, in considering regulation and subsequent responses, it is vital for platforms to acknowledge the labor they create for individuals with eating disorders, a group of people who face marginalization and stigma in online and offline spaces [97, 124]. As other reports have shown [110], social media platforms can negatively impact marginalized groups (e.g., Rohingya people, Native Americans, Black Americans) through practices of content moderation. Though we have also found consequences, we additionally show how individuals can use certain platform features to resist control and moderation. These forms of resistance, which others have aligned with practices of civil disobedience [106], share their spirit and their histories with other forms of social activism,

including those related to Mad Pride and #MeToo [89, 102]. However, resistance is itself a burden. It requires individuals with marginal status to go beyond typical platform interactions just to enjoy the same access. Furthermore, ‘going beyond’ involves using platform features in unintended ways (e.g., immediately creating a new account after another has been banned). Rather than necessitate additional labor, particularly when it is at odds with a platform, technologists can reconsider how to design for online social spaces that are host to multiple and differing versions of experiences.

### 5.3 Supporting a Multiplicity of Eating Disorders

Important for rethinking design are cases where we see moderation and conformity operating in constructive ways. Several of our participants discussed practices of moderation (e.g., forum organization, content warnings) that resulted in a conformity of body image and body management tailored to respect the standards of their ingroup community. These grassroots processes of moderation and the type of conformity they enact are not a panacea. They operate in a similar way to other online platforms and social media sites (e.g., through sociotechnical relations) and can restrict versions of body image and body management. However, our findings suggest that certain community-led practices of moderation can be practiced in ways that support different, multiple experiences of eating disorders. This speaks to the complexity of moderation as it relates to conformity and highlights promising possibilities for supporting the multiplicities inherent in individuals, communities, and platforms [69, 103, 132].

*5.3.1 Accepting Multiple Versions of Eating Disorders.* As our participants discussed, many experiences with eating disorders are difficult—recovery included. Rather than casting content as non-normative or deviant (i.e., such as through its removal or by other technical configurations that set it apart), social media platforms should reconsider the ways in which marginalized experiences and illness, of any type, are addressed and moderated online. As we describe above, illness narratives can be productive ways to document, reflect, and share the experience of being ill. Yet, these personal narratives are at risk when they do not adhere to the order of normal enforced on social media platforms and online communities. Rather than constraining experiences, such as through practices of content moderation disproportionately impacting non-normative types of content, platforms should reconsider ways to rework interactions surrounding narratives of illness. To this effect, support resources could represent more than the ideal of recovery. For example, they could also include community-curated posts and articles and content related to harm reduction, which can help people living with an eating disorder stay safe by avoiding particularly risky or dangerous behaviors. Additionally, rather than reporting features or educating those who have been subject to moderation [74, 106], platforms could provide educational resources to others (i.e., people reporting content) about the experience of living with mental illness and importance of online disclosure.

*5.3.2 Coexisting through Strategic Content Practices.* Designing for multiplicity also means mindfully attending to the ways that different types of people coexist with one another. Certain ways of posting about eating disorders, including experiences related to recovery, can be triggering or upsetting for others. Content removal is one common way of addressing this type of content. However, as we have shown, it is not without consequence. Instead, we turn to the practice of content warnings. As our informants described, these warnings provide an alternative way to coexist and safely access online spaces. However, content warnings are not universal—even on a single platform. Additionally, the labor of including a content warning falls to the individual who is posting or, in some instances, a small, community-led moderation team. Platforms, therefore, have a design opportunity to simultaneously support expression and disclosure, as well as safety and access. For example, Instagram has a content warning feature that blurs a ‘sensitive’ image until an

individual makes the decision to view it. However, this type of content warning is an external force. It's applied by the platform following a report of content that "some people may find offensive or disturbing." Our data suggests that individuals with eating disorders seem likely to appropriate similar features as a way of online self-preservation, community sustainment, and consideration of others. As part of reworking content warnings, we should consider how platform features could support awareness of potential audiences and draw attention to the impact of viewing certain content. For example, including numbers (e.g., calorie counts, weight) in a post can be triggering for some people. Through new and improved mechanisms for self-moderation, platforms could make available technical affordances that maintain diverse forms of expression *and* help individuals navigate content.

*5.3.3 Reconfiguring Power Dynamics.* Another way that platforms and online communities can move toward a more equitable and just experience online is to shift power dynamics embedded within content moderation features and practices. In particular, platforms could provide additional control and agency for individuals who have been reported. Currently, power is in the hands of other platform members, as well as computational actors and contracted laborers, who are able to report, flag, and remove content anonymously. Oftentimes, this results in the person who had content moderated not being able to face the person or system who was responsible—or even know how or what happened when content was reported or removed. This lack of transparency and accountability contributes to the marginalization that individuals with eating disorders face on a day-to-day basis. Additionally, the emotional burden and labor of restoring activity online, including finding a space to exist, is shouldered by those who may need support the most. Productive design changes may include increasing transparency with respect to moderation and its motivation [76]; temporarily archiving an individual's account or content during a process of deliberation; and turning moderated content over to individuals to restore their control over their personal data and its usage (e.g., such as for self-reflection).

## 6 CONCLUSION

Practices of content moderation are integral to what social media platforms do. However, they are far from perfect and increasingly difficult to get right. Despite good intentions, practices of moderation have consequences for individuals with eating disorders and other members of marginalized groups. These consequences include loss of personal content and community support and labor associated with practices of resistance. In this paper, we examine the experience of content moderation and how, in particular, mechanisms of content moderation (e.g., the sociotechnical relations involved in content removal, quarantine, helpline resources) work to establish and enforce a conformity to body image and body management on social media. We argue that processes of conformity as reproduced through sociotechnical structures afforded by platforms work to exclude people with eating disorders and other non-normative identities and experiences. Additionally, our work raises the question of who or what gets to decide which experiences and narratives are acceptable for online participation. Rather than design for restrictive content moderation practices, we suggest that platforms consider supporting a diversity of eating disorder and illness experiences by designing for multiplicity.

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