We begin with a brief overview of the empirical literature on the effectiveness of social media as a recruitment tool. In Section 2, we advance a methodology for evaluating social media recruitment proposals, grounded in the belief that social media recruitment ought to be assessed in terms of the same general ethical principles as traditional recruitment, namely, beneficence, respect for persons, and justice. However, we also analyze what we take to be the two most salient normative considerations for evaluating social media recruitment, which are more specific components of the general principles: (1) respect for the privacy of social media users, and (2) investigator transparency. In Section 3, we consider several detailed cases to illustrate our methodology, as well as the substantive application of the ethical principles we advocate. In Section 4, we examine three issues that we think are relatively unique to social media recruitment and so likely to be less familiar to investigators and IRBs: (i) the ethical significance of compliance with website business rules or 'terms of

regulatory guidance that can facilitate the appropriate implementation of social media recruitment techniques.

#### 2. Methodology and substantive ethical considerations

In this section we propose a methodology for evaluating social media recruitment proposals, and identify and discuss the substantive normative considerations that we take to be most salient in this context. As with all human subjects research, federal and state laws govern social media recruitment activities; these legal requirements do not differ when applied to social media. Because there are no specific regulations applicable to social media recruitment, we focus here on the ethics.

Before proceeding further we distinguish two basic types of recruitment activity: passive and active. *Passive recruitment* involves distributing recruitment materials (ads, posters, flyers) with the aim of attracting potential participants to contact the research team for more information and for consideration of enrollment. By contrast, *active recruitment* occurs when research staff approach and interact with specific individuals with the aim of enrolling them in research, usually on the basis of knowledge of characteristics that would make them suitable candidates for particular trials.

Both passive and active recruitment have social media and more traditional 'off-line' correlates. Posting flyers in subways or buses is a popular form of traditional *passive off-line* recruitment, while placing advertisements in health or patient support group websites is a form of *passive online* recruitment. Approaching an oncology patient in clinic for trial enrollment on the basis of the research staff's knowledge of his or her disease state is an example of traditional *active off-line* recruitment, while emailing a member of a patient support website for breast cancer on the basis of her online activity and membership in the group is an example of *active online* recruitment.

#### 2.1. Non-exceptionalism as the default

A key component of our approach is that, whether active or passive, social media recruitment should be evaluated in substantially the same way as more traditional analogue or 'off-line' recruitment. When planning (as an investigator) or reviewing (as an IRB) a social media recruitment technique, we propose the following strategy. First, whenever possible, identify a more familiar off-line variant or equivalent of the social media technique being proposed. Second, identify n

There are two justifications for this non-exceptionalist approach. The first is conceptual. Like off-line recruitment, social media recruitment is governed by the foundational norms of research ethics: beneficence, respect for persons, and justice. The second reason is practical. Normalizing social media in the way we suggest, by comparing it to off-line recruitment, can help investigators and IRBs get their bearings in a context that may be less familiar and may help them isolate any aspects of social media recruitment that are potentially novel and

social media users to act in ways that they would find embarrassing and avoid if they knew the public or researchers were observing. For example, a social media user, not realizing that her privacy settings permit people other than her family and friends to see her posts, may describe intimate and vulnerable details of her experience with an illness that she would not want the public to see. In general, social media users may not comprehend the range of possible uses, risks, and harms of posting potentially sensitive personal information online (Parsi & Elster 2014; Taddicken 2013).

Because of this, investigators should handle personal information responsibly, even if it has already been made widely available, by minimizing the chances of individuals suffering embarrassment, loss of dignity or other harms due to social media recruitment methods. Investigators should never disclose sensitive information to others without the participant's explicit permission, or engage in online interactions that would allow others to infer sensitive information about participants or potential participants, even if that information has already been made publicly available in a different context.

In addition to considerations of privacy, researchers have an obligation to be mindful of the values, mores, and potential vulnerabilities of those they approach on social media (Gyure et al. 2014). It is possible to be respectful of privacy but nonetheless approach and communicate with different online communities in ways that are offensive or insufficiently sensitive to their condition. While researchers have similar obligations in off-line recruitment, the quickness and ease of online communication, the physical distance between researchers and investigators during online interactions, and the fact that many social media users may not expect to be approached by researchers over social media, make sensitivity to the interests and vulnerabilities of potential participants particularly important when recruiting over social media.

**2.2.2. Transparency**—The second salient ethical consideration in the context of social media recruitment is investigator transparency. The importance of transparency is grounded primarily in respect for persons, which, outside of exceptional circumstances, demands investigator truthfulness and honesty when interacting with research volunteers. Transparency also serves a dual function by promoting public trust in the research enterprise, which is needed for research to flourish.<sup>5</sup>

Transparency requires investigators engaged in recruitment activities to be truthful and honest when describing the aims, details, risks, and benefits of studies. In the context of social media recruitment the demand for transparency has further implications. The first stems from the fact that certain social media venues, such as online patient support groups, may require users of the site to have certain characteristics as a condition of joining and participation. An online patient support group for breast cancer survivors, for example, may require members to actually be breast cancer survivors themselves, or to be a close family member of a breast cancer survivor, in order to join the site. Since investigators may lack the relevant characteristics, these sites may often be technically closed to them. Transparency in

 $<sup>^{5}</sup>$ The federal regulations do permit research involving deception under certain conditions, but even in these situations the value of the research should be weighed against the possible deleterious effects on public trust and whether the research can be done using other, non-deceptive methods.

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# 3. Cases

The methodology we advocate first instructs us to find a more familiar off-line variant of this situation, such as a physician-investigator in a clinical setting attending an open oncology patient support group in order to make members aware of the opportunity to participate in a trial. In the latter situation, an IRB might appropriately advise the investigator to seek permission to attend the support group in order to protect patient privacy and preserve trust. Indeed, some online group settings have a moderator from whom permission may be sought. However, in at least some cases (e.g., some Facebook groups) there is no identifiable moderator from whom to seek permission. Further, in online settings such groups are often less personal and intimate, and less continuous; the nature of the group is more fluid and individuals can easily choose not to respond, unlike at in-person support groups where the person is physically present and may feel compelled to respond. These differences might justify fewer or less stringent restrictions from the IRB in the online variant. The IRB might, for example, recommend that investigators access the group through a moderator, if available, without explicitly requiring it. Or they might require the investigator to record any negative comments or information shared from Facebook members, tabulate that information, and report back to the IRB at continuing review or earlier.

In terms of substantive ethical considerations, transparency dictates that investigators be forthright that they are accessing the group in their capacity as researchers, not patients, as well as about the aim and details of the study, its risks and benefits, and so on. With respect to privacy, investigators should protect the personal information of the site's members. They should refrain from disclosing anything that would allow personal health information to be inferred about members of the group, including the fact that they are in or are eligible for the research in question, even if those individuals choose to disclose this information in certain contexts.

With respect to the concern about whether recruitment overtures would be sufficiently sensitive to this population, some members of the site may indeed feel annoyed or embarrassed by recruitment advances. But this by itself does not make recruitment unethical. The important question is whether user annoyance is based on a reasonable expectation that would be violated by the recruitment activity. The answer to this question may vary from case-to-case. One way for social media users to have reasonable expectations is for a website policy to make clear that the site is to be used expressly and *only* for purposes that do not include recruitment or research. But this is not the only way. Some types of recruitment overtures might be so lacking in tact or taste as to conflict with common and reasonable expectations in society at large, even if no website policy prohibits them. For example, approaching a Black Lives Matter Facebook group about a study on race and IQ, or a support group for parents of recently deceased young children about the effects of family tragedy on divorce rates, may conflict with widespread and reasonable norms of propriety and decency and violate reasonable expectations of these users.

That said, we think that such cases are rare, even when the people approached are sick or the situation is sensitive. In particular, while recruiting over a Facebook page for cancer sufferers requires sensitivity, it does not, we would argue, demand that researchers forego all contact with the group but rather that they be transparent, respectful, and sympathetic to their circumstances and possible suffering, making sure potential participants understand

medical records to identify patients who may be eligible for particular studies. So long as the algorithms on which online banner ads are based comply with applicable law, and investigators receive none of the information used to target individuals, they should be evaluated in the same way as more familiar off-line strategies. In other words, the IRB should affirm that no information relating to an individual's online activity will be collected and retained by the investigator, and that the language of the banner ad proposed is appropriate prior to approval.

A final possible difference is that some people may find the targeting of individual pregnant women via customized banner ads "creepy," or "creepier" than the targeting of pregnant women generally at an obstetrical office. It is doubtful that the mere perception of creepiness has intrinsic ethical weight or would demand greater protection for social media users. Nonetheless, it may lead to negative public sentiment and erode public trust in the research enterprise—which investigators and IRBs certainly have reason to avoid. That said, while the perceived creepiness of customized research ads and their relation to public trust are empirical questions, it seems to us that the widespread (and still growing) popularity of social media platforms—despite the fact that targeting of various types is prevalent over social media, and perceived by some as 'creepy'—suggests that the risk of online targeted ads significantly undermining public trust is relatively low.

If, as we have argued, the differences just discussed do not give rise to greater research risks in the online scenarios, the IRB should review them using customary norms and methods. For example, if placing posters in an obstetrician office requires permission of the doctor, which it presumably would, then posting an advertisement on the website might require permission of a moderator or other authority connected with the site.

#### Example 3

Investigator C is a clinical investigator conducting HIV research. To expedite enrollment, he considers using a location-based social and dating application directed towards gay and bisexual men. The platform's terms of service put no restrictions on who may or may not join, and are silent on whether the application may be used for research purposes, neither prohibiting nor expressly permitting it. Investigator C downloads the application to his smartphone, where he creates a profile that gives him access to information from other users, and observes that User M has a profile identifying him as age 29, gay, HIV+, and living in zip code 77777. This information suggests that User M may satisfy the eligibility criteria for Investigator C's clinical trial. Investigator C wonders if it would be permissible for him to contact User M to see if he is interested in enrolling in the protocol.

The first thing we should ask is whether targeting users of this application differs from other methods of seeking out the relevant population, such as, for instance, approaching individuals leaving a bar frequented by gay men. One way these two activities may differ is in the degree of certainty investigators have about whether the individuals targeted are in fact HIV+ and meet the inclusion criteria for the study. In the example above, User M has self-identified as HIV+ on his application profile, but presumably investigators recruiting outside a gay bar will typically not have knowledge of the HIV status of the people they approach. Whether there is knowledge of disease status matters ethically. Users of the application who

do not self-identify as HIV+ could legitimately take offense with a researcher who assumed that they were HIV+ simply because they are using the application, as could individuals targeted for an HIV study merely on the basis of attending an establishment frequented by gay men. Could a user of the application who self-identifies as HIV+ on their profile page, as in the original example, reasonably take offense in the same way?

It could be argued that, in some cases at least, the willingness of users to disclose their HIV status or other sensitive health information may be based on an assumption that the site is restricted to romantic uses. Individuals may be willing to disclose their HIV status to potential dates, given that this is the ethical thing to do, but hesitant or unwilling to disclose it on the application if they knew researchers would also see it. If so, Investigator C might be seen as taking advantage of a context-specific willingness to disclose highly personal information in order to use that information in ways not intended by the user and to which they might object.

The weight of this objection depends in part on further details about the aim and accepted use of the specific application and whether users are in fact justified in thinking that only potential romantic partners will view their profile. Since the site requires users to disclose information and create a profile before gaining access to the profiles of others, users are reasonable to expect that there will be some limitations on who views their information and the application may not be considered as an entirely public space. If the application is *exclusively* advertised and used as a *romantic* dating service only, users may have a reasonable expectation that researchers will not view their profile. In that case researchers would have some reason (not necessarily decisive) to avoid using the site for recruitment purposes, which would need to be weighed against the value of the research and the prospects for seeing it to completion using other recruitment strategies when determining the overall ethical status of the activity.

If, on the other hand, the site is not restricted (in policy or practice) to romantic interactions — if users tend to encounter co-workers, neighbors, people who are just curious, and so on, not all of whom are looking for dates with the user—the objection is much less concerning. In many ways, researchers, who have ethical obligations not to share the user's personal health information outside the context of research, are *less* threatening to the user's privacy and interests than others to whom the user may reveal information about himself over such a platform. Perhaps more importantly, if the application is not restricted to romantic purposes, users who are concerned about their health information being viewed by people other than potential dates may easily choose not to disclose their HIV status in their profile but instead do so only in the midst of a conversation initiated by another user whose romantic intentions are clear.

In any situation, the principle of transparency would require Investigator C to make it clear to users of the application from the start that he is contacting them for the purpose of research, rather than for social reasons. Since the primary purpose of the application is to facilitate social interaction (whether romantic or not), users of the platform might justifiably feel deceived or wronged if the research team were to approach them under the pretense of social reasons only later to disclose their underlying intent of offering them participation in

the study. Additionally, the application profile created by Investigator C should be accurate and not misleading.

Thus, while the objection reveals how context-sensitive evaluation of social media recruitment can be, and reinforces the need for IRBs to be sensitive and discerning in their application of privacy norms, it does not, we would argue, necessarily show that Investigator C's proposed recruitment technique is unethical. So long as users do not have a valid expectation that researchers will not view their profile, and so long as researchers treat

That said, in these cases, the institution sponsoring the research, rather than the IRB per se, may have reason to respect the site, and attend to the terms of use, which would need to be taken into account in the final analysis and judgment. This differentiation of responsibility supports obtaining institutional guidance and counsel in these cases. Additionally, there is the possibility that a website user could complain about unauthorized recruitment activity that could result in the researcher being banned from the site and have negative consequences for recruitment, which should also be considered by the investigator and IRB. In our view, however, these considerations do not support a categorical prohibition against IRB approval of recruitment techniques that conflict with stated terms of use.

#### 4.2. Recruiting via the networks of others

The second relatively novel aspect of social media recruitment stems from the interconnected nature of social media. One key feature of social media sites is the networking of social media users with 'friends,' 'followers,' and the like. In many cases these networks can be accessed with relative ease, particularly when an initial participant was recruited using social media (but even if not), and networked individuals may share characteristics relevant for study eligibility. There are, however, risks. Most importantly, this approach risks allowing a participant's networked 'friends' and 'followers' to infer protected and sensitive information about them, including their status as research participants or their eligibility for the research—information these individuals have a moral or legal right to keep private. Because of this, investigators and IRBs must be especially attentive to protect the privacy of current or potential participants when considering recruiting via their networks.

Indeed our view is that IRBs should require investigators either to obtain authorization from current or potential research participants before using their online network for recruitment purposes, or to enlist current or potential participants to approach members of their network directly on the research team's behalf. Exceptions to this requirement will be warranted, however, in situations where the investigator independently identifies the relevant individuals for study recruitment *without using* the online network of the current or potential participant. What requires someone's permission, in other words, is not merely recruiting

team to obtain Participant E's permission before approaching her friends for recruitment (or potentially to enlist Participant E to approach them herself on the research team's behalf.) Suppose, however, that the 'friend' sought for recruitment is also independently referred to the study by her primary care physician. In that case, the IRB should allow the research team to pursue enrollment of this individual without seeking Participant E's permission. In other words, the mere presence of a potential participant in another current or potential participant's social media network is not itself a barrier to recruiting that individual. The key issue is whether the social media network is directly used for recruitment purposes, or whether recruitment occurs by other legitimate means.

#### 4.3. Online participant communication

The third potentially unfamiliar aspect of social media recruitment stems from the possibility of online communication from and between research participants. Social media decreases barriers to connectivity and can dramatically extend the prevalence and reach of communication between researchers and study participants, as well as between study participants (and potential participants) themselves. This is possible even when social media is not utilized for recruitment, but may be even more likely when it is.

Online communication may in some cases have benefits, such as when participants share their positive experiences online in ways that promote positive public perception of research and enrollment into particular studies. But there are also risks to increased participant communication. First, participants who post detailed online descriptions of their experience may jeopardize the scientific integrity of the trial by including information that threatens to un-blind themselves, other participants, or the research team. This may occur, for example, when different participants describe in-detail the interventions they are receiving or how they feel or react to investigational agents, and speculate online about what arm of the trial they are in (Glickman et al. 2012; Marcus 2014). Second, participants posting explicitly incorrect information about the trial can undermine the understanding of other participants (and potential participants). Similarly, participants portraying their experiences in an unduly negative light may harm study recruitment and retention and thereby introduce selection bias into the trial. Finally, participants reporting their experiences with certain drugs or devices may unjustifiably influence the public perception and worth of these products (Robins 2015).

The options of investigators for dealing with these types of communication are limited, given that they have no authority to control participant communications or expression short of nondisclosure agreements or termination from the study, both of which are undesirable for a variety of reasons. In our view the best approach is to take steps to educate participants of the risks posed by certain social media communications to the integrity of the study. This might involve the development of educational materials explaining how social media communications may jeopardize the integrity of the trial, or a specific request to each participant to refrain from communications about the trial that could result in un-blinding or misperception.<sup>8</sup> Investigators may also wish to develop a communication plan for addressing

<sup>&</sup>lt;sup>8</sup>Such as those developed by the Center for Information and Study on Clinical Research Participation, here: https://www.ciscrp.org/primer/. See also McNair.

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these risks, which could identify triggers (e.g., participant speculation on social media about which arm they are in) for interventions from the research team (e.g., corrections of misinformation or reminders about risks of un-blinding). While investigators do not, in our view, have an affirmative obligation to search for ill-advised online posts from participants, they do have an obligation to take steps to correct misinformation and ensure the integrity of the study, when such communications are brought to their attention.

Imagine, for example, that investigator F comes across a Twitter post related to migraines and finds that participants in his study are providing specific health information to others based on their experience in the trial, and incentivizing others to join (e.g. "Currently doing a #migraine study, this #Lupron is great. Join this study it pays and it works! #clinicaltrial"). A tweet of this nature may influence individuals to enroll on the basis of expectation of medical relief, or to misrepresent themselves in order to appear eligible for the trial and receive compensation. It may also threaten to un-blind the research team or other participants. When the integrity of a trial is jeopardized by the dissemination of misleading information, investigators and research institutions have a strong interest in correcting it. In such cases the investigator should post a reminder that the trial is in progress and that this type of speculation can damage the integrity of the trial. Such communication could be part of the IRB-approved communications plan, or may require an amendment to authorize this and similar communications during the trial.

## 5. Conclusion

The prevalence and popularity of social media is only likely to grow, and with it, the appeal of using social media as a recruitment tool. In this article we have presented a non-exceptionalist methodology for assessing social media recruitment, examined respect for privacy and investigator transparency as two key norms governing social media recruitment, and analyzed three relatively novel aspects of social media recruitment. These efforts, and the appended guidance and checklists, offer important contributions to filling the gap between the growing use of social media in recruitment and the lack of regulatory guidance and bioethical literature on this topic, and will, we hope, make it easier for investigators, institutions, and IRBs to navigate the ethical and regulatory issues. While the ethically relevant differences between social media and more customary recruitment techniques should not be exaggerated, these materials can help to serve as a roadmap for its potentially unfamiliar aspects and contribute to putting social media recruitment in proper ethical perspective as a valuable recruitment tool.

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### Appendix A: Investigator checklist for proposing social media recruitment

Investigators proposing to recruit via social media are advised to take the following steps:

- **1.** Provide the IRB with a statement describing the proposed social media recruitment techniques, including:
  - A list of the sites to be used.
  - A description of whether recruitment will be passive and/or active.
  - If utilizing active recruitment, a description of how potential participants will be identified and approached, and their privacy maintained.
- **2.** Ensure that the social media recruitment strategy complies with applicable federal and state laws.
- **3.** Provide the IRB with a statement certifying compliance (or lack of noncompliance) with the policies and terms of use of relevant websites, OR if proposed techniques **conflict** with relevant website policies and Terms of Use:
  - Seek an exception from the website to its terms of use; provide the IRB with written documentation of the exception, if granted.
  - Depending on IRB policy, in compelling circumstances make the case that the recruitment strategy should be allowed to proceed in the absence of an exception from the site.
- **4.** Ensure that the proposed recruitment strategy respects all relevant ethical norms, including:
  - Proposed recruitment does not involve deception or fabrication of online identities.
  - Trials are accurately represented in recruitment overtures.
  - Proposed recruitment does not involve members of research team 'lurking' or 'creeping' social media sites in ways members are unaware of.
  - Recruitment will not involve advancements or contact that could embarrass or stigmatize potential participants.
- **5.** If the research team intends to recruit from the online networks of current or potential study participants:

- Provide the IRB with a statement explaining this approach and describing plans to obtain consent and documentation of consent from participants before approaching members of their online networks or to invite the individual themselves to approach members of their network on the research team's behalf.
- **6.** Consider whether a formal communication plan is needed for managing social media activities among enrolled participants, including:
  - Steps to educate participants about the importance of blinding and how certain communications can jeopardize the scientific validity of a study (e.g., a section in the orientation or consent form)
  - Triggers for intervention from the research team (e.g., misinformation or speculation among participants on social media that could lead to unblinding)
  - Interventions from the research team (e.g., corrections of misinformation or reminders about importance of blinding on social media)

## Appendix B: IRB checklist for evaluating social media recruitment

#### proposals

IRBs evaluating protocols that propose to recruit via social media should take the following steps:

- **1.** Seek to normalize social media recruitment to the extent possible, drawing analogies to traditional recruitment efforts.
- **2.** Ensure that the proposed online recruitment strategy complies with all applicable federal and state laws.
- **3.** Check that the investigator has certified compliance (or lack of noncompliance) between recruitment techniques and policies/terms of use of relevant websites.
  - If a proposed technique conflicts with website policies and terms of use, request that the investigator seek a written exception from the site, OR
  - Depending on IRB policy, request a written statement from the investigator explaining why the recruitment strategy warrants approval without an explicit exception, to be evaluated by the IRB with input from institutional legal counsel.
- **4.** Ensure that proposed social media recruitment strategies respect all relevant ethical norms, including:
  - Proposed recruitment does not involve deception or fabrication of online identities
  - Trials are accurately represented in recruitment overtures

Proposed recruitment does not involve members of research team

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