

Meeting Unique Requirements: Community Consultation and Public Disclosure for Research in Emergency Setting Using Exception from Informed Consent

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ABSTRACT

Background: Exception from informed consent (EFIC) regulations for research in emergency settings contain unique requirements for community consultation and public disclosure. These requirements address ethical challenges intrinsic to this research context. Multiple approaches have evolved to accomplish these activities that may reflect and advance different aims. This scoping review was designed to identify areas of consensus and lingering uncertainty in the literature.

Methods: Scoping review methodology was used. Conceptual and empirical literature related to community consultation and public disclosure for EFIC research was included and identified through a structured search using EMBASE, HEIN Online, PubMed, and Web of Science. Data were extracted using a standardized tool with domains for major literature categories.

Results: Among 84 manuscripts, major domains included: conceptual or policy issues; reports of community consultation processes and results; and reports of public disclosure processes and results. Areas of consensus related to community consultation included the need for a two-way exchange of information and use of multiple methods. Public acceptance of personal EFIC enrollment is commonly 64-85%. There is less consensus regarding how to assess attitudes, what “communities” to prioritize, and how to determine adequacy for individual projects. Core goals of public disclosure are less well-developed, no metrics exist for assessing adequacy.

33 **Conclusions:** Multiple methods are used to meet community consultation and public
34 disclosure requirements. There remain no settled norms for assessing adequacy of
35 public disclosure, and there is lingering debate about needed breadth and depth of
36 community consultation.

37

38 **INTRODUCTION**

39 United States regulations allowing exception from informed consent (EFIC) for
40 clinical trials in emergency settings (21 CFR 50.24) are central to advancing care for
41 acutely ill, incapacitated patients.¹ These regulations are restricted to clinical trials that
42 would be impracticable to conduct enrolling only individuals who can provide consent or
43 who have an immediately available authorized representative. Trials must present a
44 prospect of direct benefit to participants, and existing therapy must be “unsatisfactory or
45 unproven.” In addition, EFIC regulations mandate community consultation prior to
46 approval and public disclosure of the study prior to initiation and after study completion
47 (Box 1).^{1,2} This is the only type of research for which these activities are required by
48 U.S. regulations.

49 Different methods have emerged for defining and engaging communities,
50 defining adequacy, and reporting and interpreting community feedback, and available
51 guidance allows substantial flexibility regarding how best to satisfy regulatory
52 requirements.² This can be intimidating for investigators and IRBs without EFIC
53 experience, and those with experience may have developed practices that are not
54 grounded in evidence or informed by other approaches. Understanding the range of
55 practices, experiences, and available data are important in order to realize ethical goals
56 of these activities. The transition to central, rather than local, IRB review of multi-center
57 trials will also be facilitated by understanding of the scope of existing practices, because
58 community consultation and public disclosure are conducted locally and heterogenous
59 standards and expectations have evolved.

60 This scoping review includes published literature on community consultation and
61 public disclosure for EFIC. The goal was to identify areas of consensus and persistent
62 gaps. The former may help to provide guidance and promote development of best
63 practices in order to improve quality and efficiency of the conduct and review of these
64 activities. The latter can clarify areas for further discussion and research designed to
65 help identify effective strategies and inform additional guidance.

66

67 **METHODS**

68 Scoping review methodology was chosen to synthesize and characterize relevant
69 literature.³ This method was chosen, because this body of literature is heterogenous,
70 including conceptual and empirical work utilizing different methods. Scoping review
71 methodology allows incorporation of all literature relevant for this research question.⁴
72 We created a search, in collaboration with an informationist, using terms (Appendix 1) to
73 capture literature related to EFIC research and community consultation and public
74 disclosure for emergency research. The search included terms to cover conditions or
75 clinical contexts for which EFIC research has been frequently conducted. The search
76 (Figure 1) included EMBASE (446), HEIN Online (30), PubMed (470), and Web of
77 Science (180) and included manuscripts published between 1996 (when EFIC
78 regulations were enacted) and 2019.

79 Titles and abstracts were initially screened by one author (KM). During this
80 process, any manuscripts for which there was a question about eligibility was reviewed
81 by an additional reviewer (ND or CS). Selection criteria were broad in order to fully
82 represent the range of literature. Among manuscripts selected for full text review, we
83 narrowed the sample to manuscripts with content focusing on community consultation
84 or public disclosure. These included: empirical reports, descriptions of
85 process/approach, opinions/policy/ethics pieces, and attitudes of IRBs, investigators,
86 and providers. There was overlapping content across categories. Many reports of
87 consultation results, for example, included process descriptions.

88 A standardized extraction tool was created by the team of primary reviewers
89 (KM, CS, and ND) using Google Forms and was designed to capture key domains in
90 each category. For example, information extracted for empirical reports of community
91 consultation included consultation method, study type, assessment method, key
92 questions, population targeted, and implications. Among ethics and policy papers,
93 extracted content included views of the value and purpose of community consultation, of
94 particular methods of community consultation or public disclosure, and definitions of
95 “community.”

96 The extraction tool was refined by the entire research team, pilot-tested, and
97 further refined prior to implementation. Each category of manuscripts included open-
98 ended fields to allow recording of relevant findings outside of pre-determined domains.

99 All full-text manuscripts were reviewed by at least two reviewers. Any discrepancies
100 were resolved by consensus.

101

102 **RESULTS**

103 Findings are grouped into three major domains: conceptual or policy-focused literature;
104 community consultation processes and reports; and public disclosure processes and
105 reports.

106

107 *Conceptual or Policy-Focused Literature*

108 Thirty-one articles focused on conceptual ethical or policy issues related to
109 community consultation or public disclosure. These more often addressed community
110 consultation. Some empirical reports contained substantive discussion about these
111 issues as well.

112

113 Value and Purpose of Community Consultation: Two types of value for community
114 consultation were frequently emphasized: 1) the ability to clarify impact of trial
115 enrollment on potential enrollees and ways to refine the study; and 2) the potential to
116 promote trust, provide transparency, and demonstrate respect.⁵⁻¹³ There were
117 questions raised about the extent to which community consultation accomplishes these
118 goals, especially identifying changes.¹⁴⁻¹⁹ A key theme was the reiteration that
119 community consultation is not intended to be a “consent” process or vote, though
120 acceptance is relevant.^{6,9,20,21} As emphasized in the regulations, the primary purpose of
121 community consultation is to provide an opportunity for public comment and feedback.²

122

123 Challenges Related to Community Consultation: Commentators reiterated difficulties
124 defining the relevant community for consultation, and some studies empirically
125 assessed how this should be defined.^{9,11,13,22-26} It is clear that individuals see
126 themselves as being members of many different types of communities, many of which
127 lack defined spokespersons and may not have any connection to healthcare or to
128 emergency research.²³ The literature also reflects difficulties interpreting data related to
129 acceptance or objection.^{8-10,27} Estimated acceptance of personal enrollment in EFIC

130 trials by participants in community consultation activities is typically around 70%
131 (Appendix 3).²⁸ This compares favorably with consent rates in most clinical trials, but
132 some commentators have emphasized that this may represent concerning
133 disagreement when patients are enrolled by default.²⁸⁻³⁰ No standards or metrics exist
134 regarding what level of acceptance is “too low” for a trial to proceed.

135

136 Views on Consultation Methods and Populations: Four distinct themes emerged
137 regarding consultation methods and populations they should engage. First, there was
138 an emphasis that consultation should be context-specific and tailored to the community
139 and trial. For example, some commentators have argued that the extent and nature of
140 consultation should be scaled to study risks.^{8,11,31} Second, commentators emphasized
141 the “two-way” nature of consultation and the importance of alignment between chosen
142 methods and this goal.^{6,9,32,33} There have been explicit arguments against use of
143 quantitatively-oriented, less interactive, forms of consultation, emphasizing the ability of
144 more interactive methods to facilitate substantive input and that views change during
145 discussions.^{5,8-10,34} In contrast, some commentators have emphasized representation
146 of broad communities, grounding support for quantitatively-oriented methods in their
147 ability to generate “representative” samples that account for demographic
148 diversity.^{32,35,36} Others have noted the importance of deliberate inclusion of
149 communities in which there may be less trust and greater real and perceived risks
150 based on past research abuses.^{7,30} Finally, some commentators emphasize the
151 importance of focusing efforts on persons at risk for or with connections to the study
152 condition, based on the notion that they have personal experience that will help them to
153 provide more substantive input about how enrollment would impact patients and family
154 members.^{11,25,34,37-40} The literature does not reflect consensus around these issues.

155

156 Views on public disclosure: Public disclosure was a less common focus. There has
157 been less explicit endorsement of its value. Some authors have highlighted the
158 potential of disclosure to facilitate transparency, avoid secrecy, and increase trust and
159 education about research.^{11,12,39} Others highlight its potential to facilitate opt-out for
160 individuals wishing not to be included.^{38,41} One theme was the need to recognize that

161 public disclosure and community consultation serve different functions.^{19,25} The
162 conceptual distinction between these activities is clear in regulations and guidance but
163 often blurs in implementation.² A second theme was uncertainty regarding the value or
164 “return on investment” from public disclosure.^{17,22,42,43} This is compounded by the
165 absence of established metrics regarding how to assess whether disclosure is
166 adequate.^{44,45}

167
168

169 *Community Consultation Processes and Reports*

170 Twenty-seven articles reported results of community consultation conducted for
171 EFIC trials; many used more than one method. Common methods included open
172 forum/town hall meetings (11), meetings with existing groups (10), surveys in hospital or
173 community settings (6), interviews (4) or focus groups (9), and random-digit dialing (7)
174 (Table 1). The most frequent population in reported community consultation activities
175 was the general public (19); this is a broad term that includes, for example, randomly
176 sampled individuals as well as faith-based communities and other civic organizations.
177 This was followed by current/former patients (8) with the condition under study,
178 neighborhood/geographic groups (7) patients in emergency departments (6), and
179 support group members (2).

180

181 Participants’ Responses: Participants’ responses were commonly assessed using
182 surveys, which were sometimes done as stand-alone consultation activities (e.g.
183 random-digit dialing) and sometimes administered after discussion-based meetings.
184 Reported survey data thus span consultation methods. Qualitative summaries of
185 discussions are often provided to IRBs, but these reports or summaries have not
186 generally been published.

187 The most common survey domain (Table 2) was personal acceptance of being
188 included in the proposed EFIC trial. Reported acceptance of personal EFIC enrollment
189 was generally 64-85%, consistent with a prior systematic review (Appendix 3) and a
190 review of the FDA docket of consultation data.^{28,30} Outliers included a study reporting
191 personal EFIC acceptance of 93% and another with only 51%.^{46,47} Personal EFIC

192 acceptance was the most commonly and most consistently assessed domain, but it
193 seems to vary in response to how trial information is communicated and how questions
194 are asked. Even among questions about personal acceptance, differences in phrasing
195 are common and appear to drive variation in response patterns.

196 Other domains (Table 2) utilized even more variable wording, complicating cross-
197 report comparisons, and some questions lack clear validity.²⁸ For example, answers
198 about willingness to be enrolled in a trial without reference to EFIC are challenging to
199 interpret, because respondents may not understand that enrollment would occur without
200 consent. Similarly, small variations in wording related to acceptance of a trial's conduct
201 within a "community" appear to drive discordant answers, and it is not always clear what
202 respondents mean when answering a question such as "EFIC is acceptable for
203 emergency research in our community."^{27,47}

204 No consistent patterns were reported regarding predictors of acceptance by
205 participant characteristics (Appendix 3). Some studies observed slightly increased
206 support among respondents who were younger,^{32,47} others reported the reverse.^{48,49}
207 Several studies reported decreased acceptance among minority groups.^{27,48,50} In some
208 reports, there was increased acceptance among respondents with personal connections
209 to the condition under study (such as a patient or family member of a patient with the
210 condition).⁵⁰ One report found the reverse association,⁵¹ and another suggested this
211 relationship was modulated by race, with African-American respondents' views not
212 demonstrating this relationship.⁵²

213
214 Impact of Consultation Method: Meeting-based and other more interactive methods
215 have been reported to be associated with higher rates of personal acceptance than
216 survey-based or other less interactive methods.^{27,28,35,48,50} Opportunities for dialogue in
217 more interactive activities may deepen understanding or promote trust, contributing to
218 buy in. It has been commonly reported that open public meetings or "town hall"
219 meetings have low attendance; whereas attendance was reported as more predictable
220 at consultations involving meetings of existing groups.^{22,48,49}

221

222 Efficiency and Resources: There were relatively few reports including assessments of
223 effort and resources for conducting community consultation.^{32,42,53,54} Where reported,
224 costs ranged widely (\$1500 to > \$80,000 per site).^{41,54} The yield of town hall meetings,
225 relative to study team effort, was often reported as low.^{41,48,49} Some reports cited the
226 rapidity with which strategies such as random-digit dialing could be conducted as an
227 advantage; this method also involves appreciable expense.^{32,35} More interactive efforts
228 were reported to require more time from research teams, but large community events
229 such as state fairs and athletic events have been described as highly efficient.^{38,42,47,53}
230 Although social media has been mostly described as a method of public disclosure as
231 noted below, it has been used for consultation as well.

232 *Public Disclosure Processes and Reports*

233 A range of public disclosure methods was reported (Table 3). Traditional
234 approaches include press releases, public service announcements, and media
235 appearances (not purchased), paid print advertisements, broadcast media, in-hospital
236 posters, flyers, study websites, and brochures, and personal letters and emails. Less
237 common methods (though increasing) included social media ads and posts using
238 platforms such as Facebook and Twitter. Importantly, some methods were described
239 as serving both consultative and disclosure functions. For example, social media posts
240 allow for feedback, but interaction with ads or pages is primarily “one-way.”^{19,55,56}

241
242 Defining Populations: Intended populations were typically geographically-defined;
243 efforts were directed toward the general public in the area where the proposed study
244 would take place. There were attempts at notifying more focused populations; some
245 utilized in-hospital methods (e.g. posters or flyers), for example, to reach patients or
246 notifications directed to disease-related support groups whose members were familiar
247 with the condition being studied.⁵⁷⁻⁶⁰ There are also reports of focusing on high-
248 incidence zip codes or other tools to notify individuals more likely to be
249 enrolled.^{38,55,56,61,62}

250
251 Measures of Disclosure: There were no uniform methods for reporting or assessing
252 effectiveness of public disclosure, and actual “penetration” is extremely difficult to

253 estimate. Some reported metrics included number of activities or venues and audience
254 diversity. Other measures included numbers of people exposed to a message based on
255 readership or listenership, as is typically used in advertising, numbers of surveyed
256 individuals, and patients/families who were aware of the study. Web-based or social
257 media disclosures allow hit rate and click reports and time spent on a site. In general,
258 reported time spent was often low, making meaningful exposure difficult to assess.^{55,56}
259 Published estimates of awareness, both within communities in which research was
260 conducted and among individuals enrolled in a study after a disclosure effort, were low
261 (with the exception of focused notifications within a hospital unit).⁵⁹ Rates of opt-out
262 requests in response to disclosure efforts were invariably low, but this may reflect
263 acceptability of research rather than poor penetration of disclosure.^{42,59,61,63,64} In
264 general, the impact of public disclosure remains largely unknown.

265 266 **DISCUSSION**

267 Acute and emergency researchers and IRBs have developed approaches to
268 implementation and evaluation of unique regulatory requirements for community
269 consultation and public disclosure in EFIC research. They have accumulated
270 substantial experience, and there is a body of literature demonstrating areas of
271 consensus and significant residual questions.

272 273 *Areas of consensus*

274 The reviewed literature suggests a growing consensus regarding community
275 consultation in several respects. There has been an evolution away from open public
276 forums/town halls. These efforts, used in many early EFIC studies, appear to have
277 been characterized by low attendance and viewed as inefficient by many teams.⁴⁹
278 Attendance at existing groups' meetings, conduct of focus groups, and having a
279 presence at large community activities (e.g. state fairs) have received greater
280 enthusiasm.^{47,49,53} There appears to be a functional consensus that effective
281 consultation involves multiple methods for a particular project.²² This is not often
282 explicitly articulated but is reflected in many reports and matches our impression as
283 EFIC researchers. It also seems appropriate; different consultation methods serve

284 different goals, reach different populations, engage people differently, and require
285 different resources.

286 This review suggests general recognition that community consultation should be
287 a two-way exchange and not as a referendum. Despite varying acceptance rates in the
288 literature, we identified only one report of a planned EFIC study not being conducted
289 due to community consultation results. In this case, consultation revealed a high
290 number of Jehovah's Witnesses with objections to a trial of a blood substitute.⁶ There
291 have been questions raised regarding what threshold of acceptance should be met, as
292 asking for input should imply willingness to heed to strong objections.⁶⁵ However, there
293 is an emphasis on substance of input over frequency of acceptance, and community
294 consultation advocates emphasize its ability to demonstrate respect, demonstrate
295 trustworthiness, and promote transparency.⁵ It has been less fully reported whether
296 consultation has affected concrete aspects of studies beyond approval or protocol
297 design, though one study did explicitly report its use in development of public disclosure
298 plans, and we are aware of an instance in which an additional opt out option was
299 developed in response to community consultation input.³⁸ These examples, we believe,
300 demonstrate productive ways to harness community input that may be under-
301 recognized.

302

303 *Areas of debate about community consultation*

304 It remains actively debated whether community consultation efforts should focus
305 primarily on individuals with connections to or at risk for the study condition and the
306 relative importance of involving the general public. Empirical literature frequently
307 reports geographically-focused efforts involving the general public. However, there is a
308 theme in conceptual and policy-focused literature that feedback from individuals with
309 connections to conditions under study may be more meaningful and limited evidence
310 that patients enrolled in trials find talking to "people like them" more meaningful.⁶⁶
311 Regarding the "type" of community to be consulted, there can be a false dichotomy
312 between geographic versus condition-related communities; EFIC regulations and
313 guidance recognize that they need not be separate.² Moreover, a mixed approach is
314 common.

315 A related area of debate is whether community consultation should be primarily a
316 quantitatively-driven, survey-based process designed to ensure numeric representation,
317 or a qualitative, interactive process between researchers and community
318 members.^{5,8,10,22,25,28} This debate is primarily about depth versus breadth of
319 engagement and which functions of consultation are most important. If the goal is
320 principally to demonstrate population-level approval, quantitative efforts may be viewed
321 more favorably; if the goal is to generate more substantive input on other aspects of a
322 study or to improve understanding of how enrollment may impact potential enrollees,
323 more in-depth approaches are important. The fact that both sets of goals are widely
324 viewed as important is one reason for adoption of multi-pronged efforts.

325 Salient for both the choice of method and the population of focus are concerns
326 about under-representation of minorities in consultation and considerations of public
327 trust in researchers.^{7,30,67} Ensuring representation of minority voices in geographic-
328 based events requires equitable and representative sampling. In more interactive
329 approaches, it means seeking out and consulting with discrete minority groups,
330 especially those who have been traditionally under-represented, are socially vulnerable,
331 or who have been targets of past research misconduct. It is, of course, difficult to
332 measure the impact of any particular strategy or set of strategies on public trust, and
333 attitudes likely do not trace to engagement around a single study but rather to longer-
334 term relationships between institutions and communities.

335

336 *Specific challenges with survey data for community consultation*

337 Survey data are over-represented in the literature, likely because they are seen
338 as more publishable and easier to synthesize than qualitative data. There are
339 important insights that can be drawn from survey data. One finding is that there appears
340 to be consistency in acceptance across geographic areas and trials.^{28,35} This raises
341 questions regarding the incremental value of further large, population-based efforts,
342 particularly given their expense, when baseline attitudes are well-understood and
343 methods do not allow for substantial dialogue or interaction. Especially when a site has
344 conducted multiple EFIC trials (testing different interventions) and received similar
345 responses, the yield of repeating similar efforts may be low.

346 It has also been demonstrated that different phrasing of questions about
347 acceptance yields different results.^{27,47,50} The most common and consistent focus has
348 been personal acceptance of EFIC enrollment. There may be reasons to solicit
349 feedback on other domains, but prioritizing personal acceptance facilitates comparison
350 with other studies, is straightforward for participants, and is a question that participants
351 may feel comfortable answering. Questions about attitudes toward a study being
352 conducted within a community, in contrast, are difficult to interpret. In general, greater
353 uniformity in phrasing and focus would facilitate cross-site comparisons of data. This
354 may be valuable for central IRBs in the context of multi-site trials and for individual sites
355 in understanding whether new trials raise distinct concerns.

356

357 *Lingering uncertainty about public disclosure*

358 Public disclosure has been less a focus of scholarly work but raises important
359 ethical and practical challenges. The clearest themes within the literature are that there
360 are many ways to conduct it and that awareness of EFIC studies is low despite
361 extensive disclosure campaigns.^{42,61,63} Unfortunately, the literature reflects an under-
362 developed sense of key goals, and there are no standards or benchmarks by which
363 investigators or IRBs assess adequacy. It seems appropriate to treat the requirement
364 as requiring a “good faith effort” to be transparent. This avoids secrecy, displays
365 respect, may facilitate trust, and may educate the community about research. It also
366 may serve as a sort of mirror for research teams by forcing them to consider how their
367 trials may be perceived. However, greater clarification is needed regarding what
368 constitutes a “good faith effort” and how best to convey respect and promote trust.

369

370 *Practical steps and future directions*

371 As part of our work within the SIREN Network, we have created peer-to-peer
372 guidance in the form of a set of EFIC Model Operating Procedures informed by the
373 results of this review and input from a broad group of experts and stakeholders.⁶⁸ This
374 publicly-available MOP may be used by investigators and IRBs in developing
375 approaches for future studies. It includes an example EFIC implementation plan and
376 advice regarding community consultation and public disclosure, including advantages

377 and limitations of different types of activities in varying settings. We encourage other
378 networks and investigators to share experiences and processes as well.

379 Several areas of community consultation and public disclosure are ripe for future
380 studies. First, defining what type of community input is most meaningful in different
381 contexts may help investigators and IRBs make determinations of when consultation
382 efforts are sufficient and how to elicit feedback. Second, there is growing use of social
383 media for both consultation and disclosure, and there is a need for data regarding the
384 most meaningful use of evolving platforms. Use of these methods has grown in the
385 context of the COVID-19 pandemic, and it is important to learn from this experience.
386 Third, studying the role of community consultation in addressing issues beyond
387 acceptability is important. It may, for example, facilitate development of disclosure
388 strategies or identify ways to improve communication with patients and families after
389 enrollment. Finally, studying the impact of engagement efforts within populations over
390 time is important.

391

392 *Specific implications for Central IRBs*

393 A change in recent years has been the growing role of central IRBs. Community
394 consultation and public disclosure are aspects of local context, and optimal strategies
395 for central review of local context are emerging. The presence of varied interpretations
396 of these requirements and methods of meeting them suggest that coordination between
397 central IRBs and local sites may be important and potentially challenging. On the other
398 hand, central IRB review may promote growth of shared norms and comparisons of
399 approaches and feedback, attenuating differences across sites.

400

401 **LIMITATIONS**

402 This review is limited to published literature. Community consultation feedback is
403 often only reported to IRBs and not published. Related, this review likely over-
404 represents survey data, because quantitative reports are more often submitted for
405 publication, and publication bias may exist. Similarly, the impact of consultation
406 feedback on trials may be under-reported or narrowly reported. Data from public
407 disclosure efforts are even more limited. We encourage reporting of experiences with

408 both community consultation and public disclosure. The platform of central IRB review,
409 in which single boards will see consultation and disclosure data from multiple sites, may
410 provide a meaningful way to facilitate important comparative assessments.

411

412 **CONCLUSIONS**

413 Accumulated experience with and reflection on community consultation and
414 public disclosure for EFIC research offer guidance moving forward. Neither requirement
415 poses an insurmountable barrier to EFIC trials. There are multiple ways to accomplish
416 both activities, and both serve multiple purposes. Investigators and IRBs must continue
417 to consider each protocol and setting in order to assess the most suitable approaches to
418 engagement. However, clarifying norms could be helpful in two areas. First, there are
419 no settled norms regarding assessments of adequacy and extensiveness of public
420 disclosure. Second, there is a lingering debate about needed breadth, depth, and focus
421 of community consultation. Clarity on these issues will be important for, and may be
422 facilitated by, central IRB review.

423

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5 Figure Legends:

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7 Figure 1- PRISMA Chart

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Table 1- Common Community Consultation Methods

Interactive, Discussion-Based Consultation				
Method	Interaction	Described Advantages	Described Limitations	References
Town hall-style meetings	In-person presentation	<ul style="list-style-type: none"> -Face-to-face interaction -Allows substantive description of the study -Opportunities for open feedback and discussion -Ability for IRB to observe -Can pair with survey -Opportunity for interested people not in targeted groups to be included 	<ul style="list-style-type: none"> -Lower attendance than at existing group meetings -Response bias from those choosing to attend meetings -Significant effort for few participants -Labor-intensive to summarize. 	<ul style="list-style-type: none"> Holsti (2015)⁴¹ Kremers (1999)⁵⁷ Nelson (2008)⁴⁸ Salzman (2007)⁶⁹ Santora (1998)⁷⁰ Tisherman (2008)⁴³ Contant (2006)²⁷ Dickert (2014)⁴⁹ Longfield (2008)⁷¹ Powers (2019)⁷²
Existing group meetings	In-person presentation by investigator or other study team member	<ul style="list-style-type: none"> -Face-to-face interaction -Allows substantive description of the study -Opportunities for feedback and discussion -Increased attendance relative to town hall-style meetings -Ability for IRB to observe -Can focus on relevant groups and high-value stakeholders 	<ul style="list-style-type: none"> -Variable attendance -Concerns about selection bias/reduced generalizability based on groups -May be difficult to schedule -Labor-intensive to summarize. 	<ul style="list-style-type: none"> Dickert (2014)⁴⁹ Dix (2004)⁴⁶ Galbraith (2014)⁷³ Govindarajan (2013)⁷⁴ Chin (2015)⁵⁴ Holsti (2015)⁴¹ Kasner (2011)³⁴ Nelson (2008)⁴⁸ Santora (1998)⁷⁰ Tisherman (2008)⁴³

		-Can pair with survey.		Vohra (2014) ⁴⁰
In-person interviews or focus groups	In-person discussion and interview with individual or small groups	<ul style="list-style-type: none"> -Opportunity for open discussion and dialogue -Ability to ensure greater understanding of the study among respondents than other methods -Can focus on most relevant groups and stakeholders (often with condition-relevant experience) -Higher level of recall of study information among respondents -Can pair with survey 	<ul style="list-style-type: none"> -Small sample size -Labor-intensive and potentially expensive -Concerns about generalizability of feedback/selection bias -Can be labor-intensive to summarize 	<ul style="list-style-type: none"> Contant (2006)²⁷ Dickert (2014)⁴⁹ Galbraith (2014)⁷³ Govindarajan (2013)⁷⁴ Holsti (2015)⁴¹ Kasner (2011)³⁴ Morris (2004)⁵⁸ Raymond (2010)⁵⁹ Sims (2013)⁵¹ Tisherman (2008)⁴³
Non-Interactive, Survey-Based Consultation				
Method	Interaction	Described Advantages	Described Limitations	References

Telephone or electronic surveys	Survey administered over the phone or internet	<ul style="list-style-type: none"> -Large numbers are achievable -Can capture more representative population (geographically) -Can sample based on zip code or other data to reflect target population -Time-efficient 	<ul style="list-style-type: none"> -Lack of interactivity and discussion -Heavily dependent on framing (both the study and questions) -Response bias based on method (landline, internet access) -Expensive, requires expertise -Tends to represent general public rather than more focused communities 	<p>Beshansky (2014)³⁵</p> <p>Bulger (2009)³²</p> <p>Contant (2006)²⁷</p> <p>Dickert (2014)⁴⁹</p> <p>Henry (2017)¹⁸</p> <p>Holsti, (2015)⁴¹</p> <p>Morris (2004)⁵⁸</p> <p>Nelson (2008)⁴⁸</p> <p>Tisherman (2008)⁴³</p>
Surveys at community events	In-person distribution of survey at sporting event, fair, etc.	<ul style="list-style-type: none"> -Potential for capturing large numbers in a geographic area -Avoids expense of RDD -Avoids landline/internet selection bias -Time-efficient; some opportunity for interaction and discussion with staff present 	<ul style="list-style-type: none"> -Potential responder bias -Selection bias based on type of event -Relatively minimal or brief interaction -Focus on geographic community 	<p>Biros (2009)⁴⁷</p> <p>Dickert (2014)⁴⁹</p> <p>Eubank (2018)⁵³</p>
Surveys in hospital/clinic	In-person administration of survey in a medical setting often ED or inpatient	<ul style="list-style-type: none"> -More focused population -Potential for significant number of respondents -Level of interaction and discussion depends on method and personnel 	<ul style="list-style-type: none"> -Labor-intensive -May afford little interaction and discussion depending on who does it/how it is designed 	<p>Clark (2013)³⁷</p> <p>Eubank (2018)⁵³</p> <p>Morris (2004)⁵⁸</p> <p>O'Malley (2017)⁶⁰</p> <p>Scotton (2013)⁷⁵</p>

Table 2- Assessment questions in community consultation

Content	Examples	Potential Advantages/Disadvantages
Personal acceptance of EFIC enrollment in proposed trial	<ul style="list-style-type: none"> - "My own EFIC enrollment in this study would be acceptable."⁴⁷ - "If you were having a heart attack and were to be treated by paramedics, would you object to participating in this study?"³⁵ 	<ul style="list-style-type: none"> -Stronger content validity -Epistemically more valid (people can know the answer for themselves)
Willingness to enroll in proposed trial	<ul style="list-style-type: none"> - "If today your child had been in a coma as a result of a serious head injury, would you agree to enroll him/her in this study?"³³ - "Would you agree to participate in this study?"⁷⁴ 	<ul style="list-style-type: none"> -Stronger content validity -Does not specifically address EFIC (attitude toward study and not EFIC)
General acceptance of EFIC for proposed trial	<ul style="list-style-type: none"> - "Do you object to the enrollment of someone in this research study without their individual consent before the study begins?"⁷¹ - "Sometimes no family member can be found to make medical decisions for patients with traumatic brain injury. It is okay to include those patients in the ProTECT study without consent."⁵⁰ 	<ul style="list-style-type: none"> -May avoid idiosyncratic preferences -Difficult to answer for others -Potential bias toward more negative response
Acceptance of EFIC in community	<ul style="list-style-type: none"> - "EFIC is acceptable for emergency research in our community."⁴⁷ - "Would you be willing to allow us to do this study in your community?"³⁵ 	<ul style="list-style-type: none"> -Lacks content validity -Heavily dependent on phrasing
Importance of proposed trial	<ul style="list-style-type: none"> - "Do you feel there is potential benefit from receiving the experimental blood substitute, PolyHeme?"⁷¹ - "The COMBAT study is an important study to do."⁵⁴ 	<ul style="list-style-type: none"> -Straightforward -Ceiling effect -Lack of information/expertise -Does not address enrollment/EFIC

<p>Acceptance of enrollment in proposed trial with surrogate consent</p>	<p>- "If you are confused or drowsy, you might not be able to make such a decision for yourself. Would you be happy for your next of kin/relative (or other representative) to take this decision for you?"⁷⁵</p> <p>- "If I had a traumatic injury and a family member agreed to include me in the COMBAT study, I would be okay with being included."⁵⁴</p>	<p>-Stronger content validity</p> <p>-Does not specifically address EFIC</p>
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Table 3- Public Disclosure Methods

Method	Described Advantages	Described Limitations	References
Print Media (Newspapers, press releases)	<ul style="list-style-type: none"> -Can reach large audiences -Can approximate reach 	<ul style="list-style-type: none"> -Expensive -Passive approach -People don't always read them -Often not targeted to specific communities 	<p>Salzman (2007)⁶⁹ Jacoby (2008)⁶¹ Galbraith (2014)⁷³ Chin (2015)⁵⁴ Matchett (2018)³⁸</p>
Broadcast Media (Radio, TV, Public Service Announcements)	<ul style="list-style-type: none"> -Can reach large audiences -Can approximate reach 	<ul style="list-style-type: none"> -Expensive -Often not targeted to specific communities 	<p>Salzman (2007)⁶⁹ Jacoby (2008)⁶¹ Galbraith (2014)⁷³ Chin (2015)⁵⁴ Holsti (2015)⁴¹</p>
Social Media ads	<ul style="list-style-type: none"> -Geographic targeting (Facebook ads) -Cheaper than traditional advertising, can increase website traffic 	<ul style="list-style-type: none"> -May only reach certain demographics (younger) -Very little engagement (time spent on websites) 	<p>Stephens (2013)⁵⁵ Galbraith (2014)⁷³ Chin (2015)⁵⁴ Stephens (2016)⁵⁶ Matchett (2018)³⁸ Harvin (2019)⁶²</p>
Websites	<ul style="list-style-type: none"> -Can measure hit rates -Can facilitate opt-outs -Can provide more detail, multi-media 	<ul style="list-style-type: none"> -Often short interactions with people who land on sites -Have to drive traffic to sites 	<p>Jacoby (2008)⁶¹ Raymond (2010)⁵⁹ Galbraith (2014)⁷³</p>

	options	-Limited to individuals with internet access	Chin (2015) ⁵⁴ Holsti (2015) ⁴¹ Matchett (2018) ³⁸
Individual communication (letters, emails, phone calls)	-Can target specific communities and/or community leaders -Better opportunities to opt out	-Calls and postage are expensive/labor intensive	Morris (2004) ⁵⁸ Raymond (2010) ⁵⁹ Galbraith (2014) ⁷³ Chin (2015) ⁵⁴ Holsti (2015) ⁴¹ Matchett (2018) ³⁸
In-person disclosure	-Can target specific communities (parents for peds studies) -Better opportunities to opt out	-Smaller scale	Raymond (2010) ⁵⁹ Holsti (2015) ⁴¹
In-Hospital materials – posters, brochures	-Can target specific communities (i.e. patients with a specific disease) -Reaches people in the healthcare system	-Passive method -People often don't notice posters or read brochures	Kremers (1999) ⁵⁷ Morris (2004) ⁵⁸ Raymond (2010) ⁵⁹ Chin (2015) ⁵⁴ Holsti (2015) ⁴¹ O'Malley (2017) ⁶⁰
Meetings (presentations or focus groups with hospital staff)	-Inform staff members likely to be involved	-Personnel time and cost	Morris (2004) ⁵⁸ Raymond (2010) ⁵⁹

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