

Post-trial Obligations & Reasonable Availability

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The opinions expressed are my own. They do not reflect any position or policy of the U.S. Government or the NIH.

Case 1: Prevention of HIV transmission from mother to child

- Goal : how best to prevent transmission of HIV during labor/delivery
- Intervention: Antiretroviral therapy (ART) to mother during pregnancy, through labor
- After delivery: Study stops ART for mothers, refers to national program

Case 1

- Is it ethical for researchers and sponsors to stop providing ART at delivery?
- If not, what should they do instead?

Case 2: Huntington's Disease

In Venezuela, American scientists conducted a landmark genetic study nearly three decades ago. The subjects of the study are still waiting to benefit from that research.

Huntington's Disease and interna

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Ten years ago this month, President Bill Clinton announced a milestone in genetics. American scientists had created the first draft sequence of the human genome. They had learned the order of the three billion letters that make up our DNA code. But today, the medical revolution that many thought would follow has not arrived. In some ways, genetic discoveries have made things more complex for doctors and patients. In Venezuela, American scientists conducted a landmark genetic study nearly three decades ago. As the World's Marina Giovannelli

discovered, the subjects of the study are still waiting to benefit from that research.

(Photo: Marina Giovannelli)

Case 2

- Research conducted in poor rural community in low income country on Huntington Disease
- HD has adult onset, is uniformly fatal, 50% chance of passing on to offspring

Case 2

**Goal:
Find a cure**

**Research results:
Genetic test**

Ethical criticism

- Villagers have no access to the test
- Ruth Macklin: “The international guidelines that exist, such as the Declaration of Helsinki, all mandate...that the products of research, in this case the diagnostic test, **be made available to the population** that has been [the] subject of study....”

Questions from the cases

- Should researchers and sponsors have to ensure post-trial access to research subjects?
- Should researchers and sponsors have to ensure products are available to host communities?

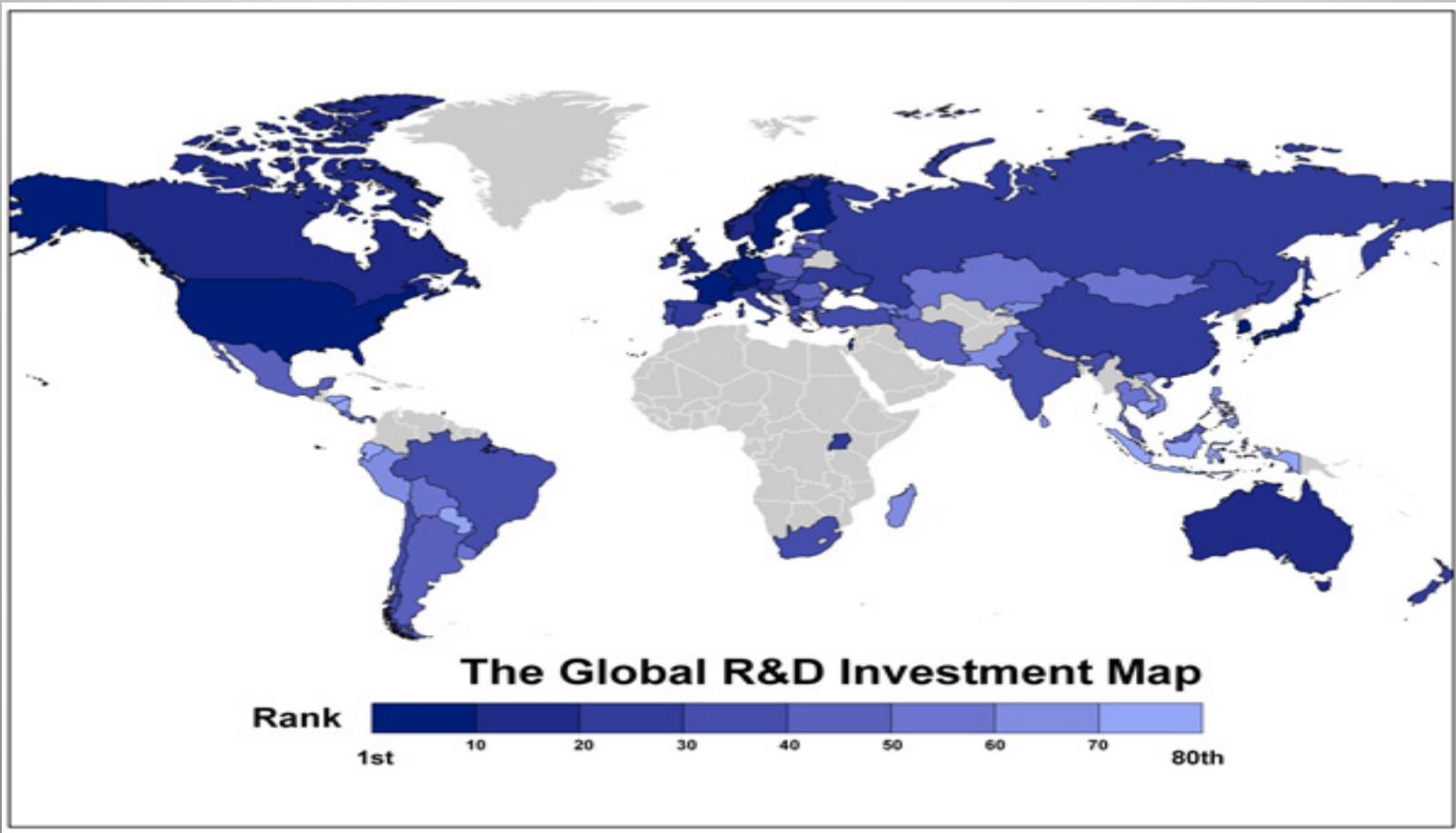
Overview

- Post-trial Obligations
- Reasonable Availability
- Conclusions and directions for future research

Exploitation

- A exploits B when A takes unfair advantage of B's situation
- Exploitation of communities different from exploitation of individuals
- Resource-poor communities need benefits from research, might agree to unfair share of benefits and burdens

Current injustice related to research: The 10/90 gap



Florida R, *et al.* Creativity and Prosperity: The Global Creativity Index (2011)

Deprivation...creates fortuitous opportunities for researchers.

in the developing world

Alex John London, Jonathan Kimmelman

Lancet 2008; 372: 82-85

See *Comment* page 11

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Much of the debate about the conduct of clinical trials involving participants from the developing world has centred on ethical issues that apply most directly to large-scale, late-phase research.¹ As clinical research becomes increasingly global, however, individuals from low-income and middle-income countries (LMICs) have been recruited into small-scale, translational trials of novel technologies such as gene transfer. The distinctive ethical concerns that have arisen from such practices have received almost no attention. We consider four rationales for recruiting participants from LMICs into translational trials.

First is fortuity. LMICs occasionally present investigators with a research opportunity that would otherwise be unavailable if they used volunteers from high-income countries. Thus, an Italian gene transfer study of severe combined immunodeficiency disease associated with adenosine deaminase deficiency (ADA-SCID) would not have been ethically permissible in high-income countries

headings of responsiveness and reasonable availability. According to guideline ten, research that is undertaken in populations or communities with limited resources should be “responsive to the health needs and the priorities of the population or community in which it is to be carried out,” and “any intervention or product developed, or knowledge generated, will be made reasonably available for the benefit of that population or community.”²⁷

Although language within ethics codes varies in terms of its stringency, with some commentators rejecting all but the most permissive interpretations, there is a general international consensus that research in resource-poor settings should be responsive to the needs of host communities (table). Nevertheless, serious consideration of what it takes to fulfil the responsiveness requirement has been overshadowed by debates about reasonable availability.⁸ Of particular relevance, reasonable availability has been criticised⁹

Viewpoint

There is a moral imperative to assist LMICs in the process of developing the capabilities necessary to effectively address their most urgent, unmet health needs.”

Research to bedside in the

responsiveness and reasonable availability. Guideline ten, research that is undertaken in low- and middle-income countries or communities with limited resources should be responsive to the health needs and the culture of the population or community in which it is undertaken and “any intervention or product developed, and any knowledge generated, will be made available for the benefit of that population or

The language within ethics codes varies in terms of specificity, with some commentators rejecting all permissive interpretations, there is a growing international consensus that research in low- and middle-income settings should be responsive to the health needs of host communities (table). Nevertheless, the growing consideration of what it takes to fulfil the responsiveness requirement has been overshadowed by debates about reasonable availability.* Of particular concern, the concept of reasonable availability has been criticised'

Viewpoint

Justice in translation: from bench to bedside in the developing world

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Research that violates these criteria creates a division of labour that is at least prima facie unfair, because it enlists those who suffer the heaviest health burdens to advance the science that will create the greatest social value for people living in high-income countries.

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POST-TRIAL OBLIGATIONS TO INDIVIDUALS

What do researchers owe participants after research?

- Terms: “post-trial access” & “aftercare”
- Central, unanswered questions
 - If need for care persists after research, but is likely to go unmet, what obligations do different stakeholders have?
 - Are there limits on these obligations?
- No clear consensus

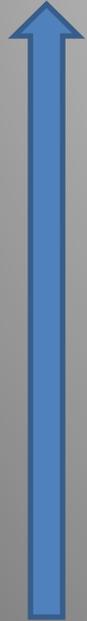
Much has been said, not much has been settled....

1. Regulations
2. Ethical guidance
3. Funding policies
4. Ethical justifications

Categories of regulatory approaches to post-trial access

Requirement: Researchers/ sponsors should	Representative countries
Provide	
Ensure	
Refer	
Describe	
[Silence]	

More

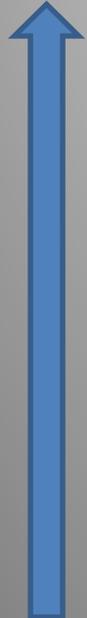


Less

Categories of regulatory approaches to post-trial access

Requirement: Researchers/sponsors should	Representative countries
Provide	?
Ensure	Canada, Nepal, Japan, Cameroon
Refer	Philippines
Describe	India, Council of Europe, New Zealand, Nigeria, South Africa
[Silence]	U.S.

More



Less

Ensure: Japan

“Even after completion of the clinical study, the principal investigator should make an effort to ensure that the subjects have access to the best preventive, diagnostic, and therapeutic methods identified by the clinical study concerned.”

Ministry of Health, Labor, and Welfare guidelines (2008)

Refer: Philippines

- “The protocol must include provisions for aftercare, including **closure activities and a proper referral mechanism** to deal with the health needs of participants and members of the research team.”

National Ethical Guidelines for Health Research (2006),
https://webapps.sph.harvard.edu/live/gremap/files/ph_natl_ethical_gdlns.pdf

Inform: India

- Favorably cites 2004 Declaration of Helsinki and requires that researchers:
 - Identify and describe in protocol “post-trial access by study participants to . . . procedures identified as beneficial in the study or access to other appropriate care....”
- Exceptions: Indirect community benefit, small scale/student projects

Ethical guidance

Year	Issuing Authority	Target	Nature of Obligation
2001	U.S. NBAC	Researchers and sponsors	Good faith efforts to “secure” post-trial access to beneficial interventions
2002	CIOMS	Sponsors	“Continue to provide” access to beneficial intervention pending regulatory approval
2005	Nuffield Council on Bioethics	Stakeholders	“Begin negotiations...at an early stage.” Funding treatment “may be unrealistic and lead to sponsors curtailing other research.”
2012	UNAIDS	Stakeholders	Participants infected during prevention trials should “be provided access to treatment.”
2013	WMA Declaration of Helsinki	Stakeholders	“[M]ake provisions...for all participants who still need an intervention identified as beneficial.”

Evolving ethical guidance: Declaration of Helsinki

2000

Patients should be “assured of access” to best proven intervention



2004

“Identify” post-trial access to beneficial interventions during study planning process



2008

Participants should be “informed” about the study outcome,
“entitled” to share in benefits



“[M]ake provisions for post-trial access for all participants who still need an intervention identified as beneficial in the trial.” (2013)

Funding policies

- U.K. Wellcome Trust: funding post-trial provisions outside remit
- But may consider post-trial provisions when deciding whether to award grants
- And may require post-trial access for chronic or progressive conditions

Funding policies

- French Agence Nationale de Recherche sur le Sida et le Hépatites Virales (ANRS) restricts **HIV prevention research** to areas where public ART programs exist
- Presumably to ensure post-trial access

NIH Guidance (2005)

“For **antiretroviral treatment** trials conducted in developing countries, the NIH expects investigators/contractors to address the provision of **antiretroviral treatment** to trial participants after their completion of the trial.”

<http://grants.nih.gov/grants/policy/antiretroviral/>

NIH Guidance

- However, “NIH’s authority to ‘encourage and support research’ does not extend to providing treatment following the completion of that research.”
- Therefore, recommends “investigators/contractors work with. . .stakeholders to identify available sources of antiretroviral treatment.”
- NIH may give preference to sites where access to ART has been identified.

Concern about diversion effects

- Post-trial access policies could divert beneficial research to places where infrastructure already exists and away from some of the worst-off
- E.g., Ebola research

Lynch HF, Dawson L, Adding insult to injury: reluctance to engage in clinical research with at-risk groups further disenfranchises these populations, *Am J Bioeth* (2009).

Empirical data

- Few guarantees to provide care (whether research product or other care) after a study is over
- Focus on short-term provision, transitioning participants to other sources of care
- S. Shah, S. Elmer, C. Grady, American Journal of Public Health (September 2009).
- Ciaranello A, Walensky RP, Sax PE, Chang Y, Freedberg KA, Weissman JS., HIV Clinical Trials (Jan./Feb. 2009).

Regulations vs. ethical guidance

- **Some similarities**
 - No clear consensus
 - Plan in advance, inform participants
 - Important that intervention is beneficial
- **Some differences**
 - No regulations seem to require provision, more caveats/nuance in some regulations
 - Ethics guidance more stringent, but obligations spread across stakeholders

Ethical justifications for post-trial obligations

- Exploitation
- Participants' needs, avoiding harm
- Reciprocity
- Duty of rescue
- Beneficence and global justice
- Researcher- participant relationship

Exploitation

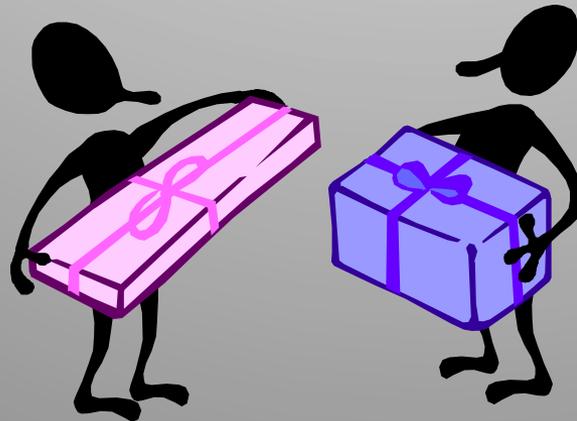
- Claim: Without post-trial access, participants will be exploited
- Exploitation occurs when burdens and benefits shared unfairly, relative to contribution
- But post-trial access usually only arises if participants benefit

Participants needs/avoiding harm

- Claim: Harm from no post-trial access
 - But harm has to be relative to baseline before research, not much data
 - One study of ART suggests harm in not planning for transition
 - Participants more likely to experience virologic failure if unprepared for end
-
- Baligh R. Yehia, M.D., et al. Impact of Transitioning from HIV Clinical Trials to Routine Medical Care on Clinical Outcomes and Patient Perceptions, forthcoming in AIDS Care.

Reciprocity

- **Claim:** If participants take on risks/burdens of research for benefit to others, entitled to something in return
 - How much?
 - Norms of reciprocity are unclear
 - What if participants have net benefit?



Duty of rescue

- Claim: researchers have duties to rescue when they can help participants greatly and at little cost to themselves



- Limited duties, dependent on cost of rescue → only will generate limited post-trial obligations for a short time

Beneficence

- Claim: we all have more general duties to help others and rectify global injustice; post-trial access is one way to do that
- However, duty may be satisfied in many different ways

Researcher-participant relationship

- Analogy to discharge planning → obligations of transition?
 - Researchers and sponsors should try to identify long term, sustainable external access
 - Should minimize gaps in care triggered by research

Researcher-participant relationship

- Claim: researchers have a special duty as researchers to provide post-trial access
- Why?
- Access to what?
- For how long?
- Possible duty to responsibly transition participants?

Many different justifications....

- Justifications imply limited post-trial obligations to participants
- Not limited to international research
- Stronger arguments suggest justified to:
 - Avoid harm caused by research
 - Address emergencies that arise at end
 - Transition participants

**REASONABLE
AVAILABILITY TO
COMMUNITIES**

International ethical requirements

- Two related protections to prevent exploitation are required by international guidance documents (and supported by prominent bioethicists):
 - Responsiveness
 - Reasonable availability

CIOMS

- Before undertaking research in a population with limited resources, the sponsor and the investigator must make *every effort* to ensure that:
 - the research is **responsive** to [local] health needs and the priorities of the population...
 - any intervention or product developed, or knowledge generated, will be made **reasonably available** for the benefit of that population or community.

Declaration of Helsinki (2008)

“Medical research involving a disadvantaged or vulnerable population or community is only justified if the research is **responsive** to the health needs and priorities of this population or community and if there is a **reasonable likelihood that this population or community stands to benefit from the results of the research.**”

Declaration of Helsinki (2013)

“Medical research with a vulnerable group is only justified if the research is responsive to the health needs or priorities of this group and the research cannot be carried out in a non-vulnerable group. In addition, this group should stand to benefit from the knowledge, practices or interventions that result from the research.”

[More on Responsiveness]

Viewpoint

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headings of responsiveness and reasonable availability. According to guideline ten, research that is undertaken in populations or communities with limited resources should be "responsive to the health needs and the priorities of the population or community in which it is to be carried out," and "any intervention or product

Virtual Mentor

Ethics Journal of the American Medical Association
April 2006, Volume 8, Number 4: 235-240.

Policy Forum

Ethics of International Research: What Does Responsiveness Mean?
by Christine Grady, RN, PhD

Viewpoint

Rethinking the responsiveness requirement for international research

Rebecca Wolitz, Ezekiel Emanuel, Seema Shah

Burkitt's lymphoma is endemic in Kenya and Uganda. It accounts for more than half of all childhood cancers in Africa but almost no malignant disease in developed countries.¹ Yet, other diseases in east Africa, such as malaria, cause much greater mortality.¹ For this reason, the UK's Nuffield Council suggests research on Burkitt's

distributional unfairness. Because responsiveness is focused on the question addressed in a research study, it does not establish how much benefit each party obtains from the study. A community could host an unresponsive study and receive fair—or even high—distribution of benefits² and, conversely, it could host a responsive study

Lancet 2009; 374: 847-49

Department of Bioethics, Clinical Center, National Institutes of Health, Bethesda, MD, USA (R Wolitz BA, E Emanuel MD, S Shah JD)

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REFOCUSING THE RESPONSIVENESS REQUIREMENT

SEEMA SHAH, REBECCA WOLITZ AND EZEKIEL EMANUEL

Keywords

International research
ethics,
global health,
priority setting,
responsiveness

ABSTRACT

Many guidelines for international research require that studies be responsive to host community health needs or health priorities. Although responsiveness possesses great intuitive and rhetorical appeal, existing conceptions are confusing and difficult to apply. Not only are there few examples of what research the responsiveness requirement permits and what it rejects, but its application can lead to contradictory results. Because of the practical difficulties in applying responsiveness and the danger that misapplying responsiveness could harm the interests of developing countries, we argue that responsiveness should be refocused in three ways: in terms of (1) who enforces it, (2) under what standard, and (3) in what cases. We conclude that responsiveness should be applied by host country officials at the policy level with the exercise of judgment when externally funded research threatens to displace scarce local resources.

Sharing the benefits of research fairly: two approaches

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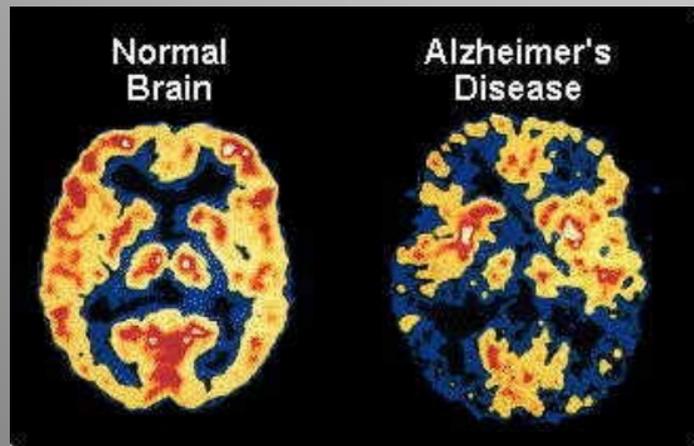
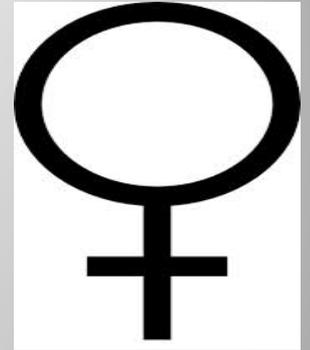
ABSTRACT

Research projects sponsored by rich countries or companies and carried out in developing countries are often described as exploitative. One important debate about the prevention of exploitation in research centres on whether and how clinical research in developing countries should be responsive to local health problems. This paper analyses the responsiveness debate and draws out more general lessons for how policy makers can prevent exploitation in various research contexts. There are two independent ways to do this in the face of entrenched power differences: to impose restrictions on the content of benefit-sharing arrangements, and to institute independent effective

EXPLOITATION AND FAIRNESS

Exploitation occurs when one party takes 'unfair advantage' of another.⁵ Consequently, one party can exploit another even if both benefit from their interaction. Indeed, such 'mutually advantageous exploitation' has been the locus of discussion about exploitation in research.⁶ The problem explored in this paper arises because of the vulnerability of some of the parties affected by research. Whether this vulnerability is a consequence of poverty, illness, ignorance, or a lack of alternatives, it means that these parties have much less power, and so are liable to agree to unfair distributions of the benefits and burdens of research. For example, an HIV-

Vulnerable populations?



Critiques of Reasonable Availability (RA)

- What does it mean?
 - By when should products be made available?
 - What counts as available?
- Doesn't always get it right
 - Sometimes could require too little
 - Other times, could require too much

More critiques

- Who is the “community” receiving access?
- Narrow view of benefits
- Not applicable to much research

NOTE: Reasonable availability is not the right way to avoid exploitation, but may be justified on other grounds

Fair Benefits Framework

- 2001: conference on ethical aspects of research in developing countries by members of NIH Department of Bioethics
- Identified problems with reasonable availability
- Proposed alternative: Fair Benefits Framework

Fair Benefits

- Meant to address concerns about exploiting individuals and communities
- Requires that risks, burdens, and benefits of research be distributed fairly amongst the various parties (sponsors, researchers, communities, and participants)

Emanuel EJ, Grady C, Lie R, Wendler D, Participants in the 2001 Conference of Ethical Aspects of Research in Developing Countries. Fair Benefits for Research in Developing Countries. *Science* 2002;298:2133-2134.

Fair Benefits Framework

- All potential benefits and risks need to be evaluated
 - Reasonable availability could be one, but is not mandated
 - Benefits do not have to relate to health
 - Expertise, health care, infrastructure, etc. all could count

Emanuel EJ, Grady C, Lie R, Wendler D, Participants in the 2001 Conference of Ethical Aspects of Research in Developing Countries. Fair Benefits for Research in Developing Countries. *Science* 2002;298:2133-2134.

Fair Benefits

- Has been criticized:
 - Devolves into community consent?
 - What is fair?
 - How to implement?
 - Race to the bottom?

- Need for more research on how to operationalize Fair Benefits Framework

Conclusions on post-trial access for individuals

- Regulations tend to focus on two poles: ensuring *or* describing
- Stronger obligations in guidance and policies, but spread across stakeholders
- In practice, researchers focus on referral
- Strong intuitive pull, but need more work to frame obligation correctly, provide better guidance

Conclusions on reasonable availability for communities

- Reasonable availability is a problematic way to avoid exploitation
- Need more research on how to translate Fair Benefits into practice, and how to conceptualize global justice obligations of researchers

Case 1: Prevention of HIV transmission from mother to child

- Goal : how best to prevent transmission of HIV during labor/delivery
- Intervention: ART to mother during pregnancy, through labor
- After delivery: Study stops ART for mothers, refers to national program

Case 1

- Research that stops providing ART right after delivery may increase the chances that women drop out of care because it is a difficult time to transition
- Short term provision of ART, efforts to ease transition may be warranted

Case 2: Huntington's Disease

In Venezuela, American scientists conducted a landmark genetic study nearly three decades ago. The subjects of the study are still waiting to benefit from that research.

Huntington's Disease and interna

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discovered, the subjects of the study are still waiting to benefit from that research.

(Photo: Marina Giovannelli)

Response to criticism

- Unclear that test results would help
 - Some would commit suicide if positive
 - Some have children post-diagnosis
 - No cure
- The villagers would need genetic counseling
- Other benefits are more pressing
- Significant political hurdles to surmount

Counter to response to criticism

- Macklin's response: "It is unacceptably paternalistic for researchers to claim this is bad news we should not visit on people. That is really a form of intellectual colonialism that we know what's better for those people, and it's better for them not to have a test."

Counter to response to criticism

- Macklin's response: "It is unacceptably paternalistic for researchers to claim this is bad news we should not visit on people. That is really a form of intellectual colonialism that we know what's better for those people, and it's better for them not to have a test."

Fair Benefits as a way to resolve this tension?

- If worry is that it is paternalistic not to offer the test, then the remedy is to ask the villagers what benefits they value, not to require that they get the test
- Seems to support Fair Benefits approach