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CRITICAL STUDIES IN GLOBAL HEALTH
EDITED BY JOÃO BIEHL & ADRIANA PETRYNA



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tarian frameworks in which they are cast. When People Come First sets a new research does not equate with care, and biology and technology interact in ways we cannot always contributors explore the altered landscapes left behind after programs scale up, break coalesces with the increased influence of the pharmaceutical industry on health care. The massive treatment rollouts in resource-poor contexts, and how right-to-health activism in disease control, the moral economy of global health science, the unexpected effects of through vivid case studies and bold conceptual work. The book demonstrates the crucial dress the medical, social, political, and economic dimensions of the global health enterprise between care, rights, health, and economic futures" - Provided by publisher. tently exceed the projections of experts and the medical-scientific, political, and humanipredict. The most effective solutions may well be found in people themselves, who consis down, or move on. We learn that disease is really never just one thing, technology delivery role of ethnography as an empirical lantern in global health, arguing for a more comprehealth. It brings together an international and interdisciplinary group of scholars to adagenda in global health and social theory and challenges us to rethink the relationships hensive, people-centered approach. Topics include the limits of technological quick fixes Includes bibliographical references and index Summary: "When People Come First critically assesses the expanding field of global

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 For interpretations of the contemporary emphasis on biomedical compliance, see Kaljee and Beardsley 1992; Ferzacca 2000; and Maskovsky 2005. For anthropological troubling of a notion of irrational compliance, see Veena Das and Ranendra Das 2006; Trostle 1996; Kamat and Nichter 1998; Nancy Scheper-Hughes 1992.

 "Addiction" is another chronic disease that is fraught with unexpected and contradictory meanings, a subject that several anthropologists have been exploring. For excellent examples, see Garcia 2008; Raikhel 2010; Schull 2006.

 These pharmaceuticals carry a sense of biomedical expertise, along with other things, all multivalently interpreted as the medicines travel (Whyte, van der Geest, and Hardon 2002).

5. For example, in the conference in Barbados to launch one of the combination inhalers, the literature given to us at each table referred to the new easier-to-use formulation as "empowering the patient."

6. For eathers along and accidenced critiques of this field, see Brown at 1.

6. For anthropological and sociological critiques of this field, see Braun et al. 2007; Duster 2005; Fullwiley 2007; Jones and Perlis 2006; Kahn 2004; Kaufman and Hall 2003; Koenig, Lee, and Richardson 2008; Montoya 2007 and 2011; Shields et al. 2005.

7

Legal Remedies

Therapeutic Markets and the Judicialization of the Right to Health

JOÃO BIEHL AND ADRIANA PETRYNA

Justice does not exist! Human Rights do not exist. What matters is jurisprudence. This is the invention of Law....

The challenge is to create and not to make Human Rights applicable. It is a matter of inventing jurisprudences so that, for each case, such and such thing could not have been possible.... Many times, life can be seen case by case....

It is not a matter of right of this or of that, but of situations that evolve... to struggle for jurisprudence... to create the right.

-Gilles Deleuze

Entering Justice, One by One

Seven children lie in a hospital room, each hooked up to an intravenous drip.² Their parents stand near them, bantering with each other and with the doctors who circulate in and out. Every week these parents bring their young children, who suffer from a disorder called mucopolysaccharidosis (MPS) here, to the Research Unit of Hospital Universitário, a public teaching hospital in Porto Alegre, the capital of the southern state of Rio

therapy (ERT), which can cost up to US\$200,000 dollars per year per Grande do Sul, Brazil.3 The children are receiving enzyme replacement

entail a normal lifespan but have significant disease morbidity (Clarke ratory impairments, as well as liver and spleen enlargement and hearing derlying facial bone. MPS leads to neurological, cardiovascular, and respi facial changes caused by accumulation of mucopolysaccharide in the unare characterized by skeletal and joint deformities, stunted growth, and individuals (Clarke 2008) and usually manifest in early childhood. They cific enzyme (Beck 2007), MPS disorders affect approximately 1 in 25,000 in a dangerously nonmetabolized form due to the lack of activity of a spemucopolysaccharide, a complex carbohydrate, builds up in body tissues reducing some of their symptoms, improving quality of life, and, in certain 2007). MPS disorders are not curable, but ERTs have proven useful in loss. Severe cases are fatal in the first decade of life and milder cases may cases, increasing lifespan. MPS encompasses a group of inherited metabolic disorders in which

everything from baby formula to complex surgeries, a large portion of ents are suing the government so that they can receive treatment for life. right to health." Though patients are suing all levels of government for for treatment access, a phenomenon known as the "judicialization of the new and increasingly ubiquitous practice of litigation against the state Between 2008 and 2011, we spoke to multiple actors involved in this lawsuits are for medicines. All the children with MPS in this room are patient-litigants. Their par-

on the rise, Brazil is one of the fastest growing pharmaceutical markets in not available. With a population of almost 200 million and an economy zens still go to local pharmacies only to find that essential medicines are world's most advanced HIV/AIDS treatment programs, many of its citi tant part of this right is access to medicines. Although Brazil has one of the nize a constitutional right to health (Gauri and Brinks 2008:1). An importhe world today. Doctors increasingly prescribe and patients demand new Brazil is among the approximately one hundred countries that recog

tional Health Surveillance Agency (ANVISA) have approved some MPS treatments; others are still in clinical trials. Biotechnology companies are The US Food and Drug Administration (FDA) and the Brazilian Na-

> entering the field of orphan disease treatments, breaking new ground beyond the blockbuster model of drug development (Petryna 2009).6

dren. "I think we are bringing new things from genetics to SUS [Brazil's of efficacy. "It is a new world," said Dr. Maria, who monitors these chil of their genetic ailment. But they were also cautious about hyped claims health, and biomedical markets fold into the injured bodies of these young patients now. To guarantee treatment access and to follow up on the effinally offering patients something more than just an accurate diagnosis patient-citizen-litigants. fectiveness is very problematic." The interests of clinical research, public Unified Health System]. Some here were in clinical trials, but all are SUS Doctors at Hospital Universitário were excited about the possibility of

by the higher courts might take several years as state prosecutors file mulcies that reduce the risk of disease and other adversities and by univerthe state of Rio Grande do Sul in the name of the right to health. Article the country's capital. might hind its circuitous way to the country's Supreme Court in Brasilia. tiple appeals, expert-committees review medical evidence, and the case treatment. In most cases, district judges immediately issue injunctions that have a diagnosis and medical documents proving the benefits of the costly Brasil). The parents told us that, in order to make the claim, they must sal and equal access to actions and services" (Constituição Federal do people and a duty of the state, "guaranteed by social and economic poliwould never have been able to afford these genetic therapies on their own force the state to provide the treatment for a month or two. A final ruling 196 of the 1988 democratic constitution affirms health as a right of the They obtain them as a result of lawsuits their parents have filed against The children here come from low- and middle-income families that

state prosecutors were appealing the ruling. A physician told us that, in state" (according to her mother lise), took part in the first clinical trial drug manufacturer. Rita, who is twelve years old and "in a near-vegetative the meantime, the manufacturer had agreed to share the cost of Rita's won an initial court injunction that had to be periodically renewed, since basis, Rita became one of the first MPS patient-litigants in the state. She the trial sponsor stopped providing the enzyme on a compassionate-use that led to drug approval in Brazil. In 2004, after the trial ended and Only one of the seven children has some of her infusions paid for by the

edge genetic therapies and a time-consuming juridical quest. The critical natural history of their disease now meshes with hope-inspiring, cutting the right to treatment. the manufacturer—is bound to the emerging field of jurisprudence over question of who will pay for the therapy-the family, the government, or higher court. For all of these children, the uncertain and potentially fata treatment with the state, most likely to avoid becoming a defendant in the

na justiça "to enter the judiciary" (or literally, "to enter justice") to refer to their lawsuits. Ilse, like the other parents in the infusion room, uses the expression entra Ilse states. "Rita is a citizen. Here in Brazil, she has the right to health. lawsuit against the state to get the enzyme. Other parents followed suit the study ended, we contacted a private lawyer, Mr. Moura, and we filed a ing the latest medical records and court rulings lies at Rita's feet. "After Her mental development "was delayed," Ilse states. A red folder contain larged. Her facial features are coarse and her skeleton slightly deformed the MPS children in the room, Rita's stature is short and her head is en ing and playing-all except Rita. Ilse caresses her daughter's face. Like all The three-hour infusion time is over and the children are awake, talk

an effective venue in which to implement socioeconomic rights? Which care delivery (Ferraz 2009). In this chapter, we explore how right-toover drug access and administrative accountability? mularies or are only available through the market. Is the judicial system ment policy) an alternative route for Brazilians to access health care, now which, officials argue, have the potential to widen inequalities in health by the MPS families) and significant administrative and fiscal challenges to health generates intensely complex sociomedical realities (as embodied thousands of people, at least temporarily, this judicialization of the right cines (Azevedo 2007; Colluci 2009). Although lawsuits secure access for practices of citizenship and governance are crystallized in these struggles understood as access to medicines that are either on governmental for health litigation became (in the wake of a successful universal AIDS treat-All over Brazil, patients are turning to courts to access prescribed medi-

of a dysfunctional decentralized public health system. The role of market forces in judicialization—a mix of pharmaceutical marketing strategies Brazil and, as we will show, treatment litigation takes place in the context Government-purchased medicines make up a formidable market in

> public legal assistance and the levers of a responsive judiciary to gain full and high-cost medical technologies to "trickle down"; they are using key point here is that low-income patients are not just waiting for new as limited regulatory oversight-must not be overlooked, either. But a targeting physicians' prescriptions and fueling patient demand, as well access now.

mation, science, and technology impact health systems and life projects ening of health systems, and the improvement of outcomes. We need a on the ground informs large-scale treatment initiatives, and we need to know how infordeeper understanding of the political economy of pharmaceuticals that ery, the financing and sustainability of treatment programs, the strengththe heart of global health debates today: technology access and care delivthe judicialization of socioeconomic rights raise crucial issues that are at The twin phenomena of the pharmaceuticalization of health care and

Pharmaceuticalization and Judicialization

quently updated (Campos 2007; Homedes and Ugalde 2005). A private frequently out of stock and lists of newer, high-cost medicines are infretainable funding and technical capacity at local levels. Medications are tors.7 These actions delegated responsibility, but they did not ensure susmedicines specified on formularies drafted by government administraprovision. Through this infrastructure, citizens are guaranteed access to assess health needs and to administer federal and local funds for drug state and municipal health secretariats had to develop new structures to some high-priority disease programs that required high-cost treatments), tained some of its central role in financing public health (administering a broader process of decentralization. While the federal government rehealth providers participate in both systems health care system exists as well but does not cover medicines, and many panied by the creation of the Sistema Unico de Saúde (SUS), extending pharmaceutical distribution among three levels of government as part of lic health care system, the Ministry of Health divided responsibilities for health coverage to all citizens. To improve the management of the pub-Brazil's adoption of a constitutional right to health in 1988 was accom-

care and more as access to medicines and community-outsourced caretilateral agencies, and the pharmaceutical industry, and it asserted itself as seen unprecedented alliances among activists, government reformers, mul tion of antiretroviral drugs (ARVs). In the years that followed, Brazil has country to sign into law and enact a policy of free and universal distribuand Grou 2005). And in 1996, at a time when global responses to HIV privatized (Biehl 2007). that is, public health has become increasingly pharmaceuticalized and demand, public health is now understood less as prevention and primary 2009; Scheffer, Salazar, and Grou 2005). In terms of both delivery and the AIDS policy (Berkman et al. 2005; Galvão 2002; Okie 2006; Parker incremental change in the concept of public health materialized through a leader in the global push to universalize access to AIDS treatment. An AIDS were largely prevention-based, Brazil became the first developing tutional right to health with access to pharmaceuticals (Scheffer, Salazar AIDS activists were among the first to successfully equate the consti

of its drug-pricing practices (Applbaum 2010; Samsky 2011). Companies country markets, to influence national drug policies, and to improve drug can, of course, also use such partnerships to gain footholds in developing of the pharmaceutical industry's political influence and the opaqueness corporations as a good public relations move, offsetting public scrutiny critics contend that public-private treatment partnerships can be used by ments more widely available and expediting access to newer ones. Some are rebranding themselves as global health companies, making older treat-2006). Public-private health initiatives are booming and drug companies ventions today (Adams, Novotny, and Leslie 2008; Brown, Cueto, and Fee distribution networks. Treatment access is a central tenet of global health activism and inter-

demands for market openness and poverty reduction: it has strategically the country of the future. The federal government has successfully juggled beyond a minimally involved neoliberal one. In 2009, Brazil's GDP was needed social policies, it has consolidated itself as a strong state, way withdrawn from strict market regulation, and while championing muchin the world (World Bank 2009). In 2004, about 20 percent of the popu-US\$1.796 trillion, and its GDP per capita was, US\$10,427, ranking 103rd lation lived below the poverty line, a number that had fallen to 7 percent Such is the case of Brazil. From a market perspective, it is once again

> focused social programs, and a policy of real increases for the minimum is one of the highest in the world, but according to the World Bank, it by 2009. Brazil's income inequality (as measured by the Gini coefficient) wage" (World Bank 2009). has been falling due to "low inflation, consistent economic growth, well-

where the state comes into the picture: pharmaceutical access. population takes medicines on a daily basis (Carvalho 2005). And this is coming a profitable platform for global medicine. About half of the adult technology medicine accessible to all. In the process, the country is beand public health physicians-have vested interests in making high Today, a variety of actors-patient associations, industry advocates

don't need the activists, just buy our drugs and you will save money." Yet 13.1 times higher than the world index (Nóbrega et al. 2007). we know that drug prices in Brazil are 1.9 times higher than in Sweden and the activist role. To make government act properly, he suggested, "You therapies in Brazil, he said rather bluntly that his company had co-opted the ongoing struggle over continued access to state-of-the-art antiretroviral to treatments and health care in the recent past. Referring, for example, to rights and social justice frameworks that had successfully politicized access ceutical executive suggested that his company was adapting to the human In a conversation about unequal drug pricing worldwide, a pharma-

2009). In 2009, thirty-two different drugs were available in the Brazilian more than doubled from 193 million to 414 million dollars (Nunn et al. drug resistance or because newer patented drugs have fewer side effects their cost comprised 72 percent of the total amount spent. HIV/AIDS program: 59 percent of them (19 drugs) were imported, and from US\$1,220 to \$2,577, and the total cost of providing AIDS therapies Between 2004 and 2005, the cost of treating a single AIDS patient rose patients are starting new, more expensive drug regimens, either because of other middle- and low-income countries treating AIDS are beginning to face. It has an inexpensive first line of ARVs, but a growing number of Brazil is now experiencing the types of problems and conflicts that

expenditures grew 252 percent between 2002 and 2007 (Vieira 2009). essential and high-cost drugs. In 2007, it spent about US\$5 billion.8 Drug in 2005. In 2002, the Health Ministry spent more than US\$1 billion on brazil—one that has grown from US\$208 million in 2004 to \$377 million State-purchased high-cost medicines now make up a formidable market in

among them diabetes, bipolar disorder, asthma, hepatitis C, and such rare include treatments for prevalent as well as uncommon and rare disorders, are mobilizing for increased and sustained access to drugs that either are genetic disorders as MPS.) for specialized treatments not yet included in official formularies. (These covered by government programs and are not available to them, or are pharmaceuticals in courts. People of all social and economic backgrounds taken up by other patients' groups that are now also claiming the right to The rights-based model for demanding AIDS treatment access has been

a total of 2,733 medicinal lawsuits filed between January 1991 and Demajority of cases were initiated by public defenders or pro bono lawyers cember 2002 and analyzed a representative sample of 389 of them. The Until 1998, plaintiffs almost exclusively demanded medications for HIV percent of the lawsuits came from patients being treated outside of SUS from nongovernmental organizations (NGOs) or universities, and only 16 judicial phenomenon in the state of Rio de Janeiro. The authors identified Ana Márcia Messeder and her colleagues (2005) profiled this medical:

misuse" (2005:533) of medicines and for possible harms that come with misprescription and tive levels. Indeed, they were found to show "disregard for the rational use the division of pharmaceutical responsibility among various administrarights" (2005:532), but public defenders and judges lacked clarity about were "exerting greater organizational and lobbying skills to secure their it was 1,144. In their study, Messeder and colleagues show that patients Rio de Janeiro. In 1997, this number had increased to 314, and in 2002 increased. In 1995, only four such lawsuits were filed against the state of tices pioneered by AIDS activists, the number of lawsuits dramatically As more and more patients adopted the rights discourse and legal pracnow included diabetes, cancer, and other conditions besides HIV/AIDS thologies that were the subjects of right-to-health litigation. The diseases there was significant diversification in the kinds of treatments and pa-Beginning in 1999, two years into the universal AIDS treatment policy

the state, challenging public health administrations to fulfill their mandates Though the public debate over judicialization has tended to focus on that their class position typically did not confer and were working within These Brazilian patient-litigants were exhibiting knowledge and skil

> ers) and state health secretariats (the supposed cofinancers) to fulfill their and from the municipality of São Paulo, Vieira and Zucchi 2007) show right-to-health litigation (from the state of Rio de Janeiro, Pepe et al. 2010; public health duties. indicator of the failures of municipal administrations (the alleged providdemanding access to drugs already on official formularies-could be an that in the majority of cases, the drugs requested were already part of drug demands for experimental and high-cost drugs, two important studies of had publicly available generic equivalents. This newer phenomenonformularies and that about three-quarters of the off-list drugs requested

is fulfilled and ceases to be "an inconsequential constitutional promise." and resources, as well as the evidentiary basis of new drugs' efficacy. pharmaceuticals circumvents questions about the limitations of policy In this rendering, the immediate assurance of the right to health through responsibility for implementing programmatic norms that secure health ruling. As soon as citizens in need have medicines, the government's legal norms," the AIDS program acquires an inherent judicial value in Mello's tion's health. As the concrete embodiment of the need for "programmatic ment's constitutional duty to implement policies that secure the populapharmaceutical assistance program as the actualization of the governeral courts. In his ruling, Justice Celso de Mello understands the AIDS constitutes the precedent for judicial intervention in both state and fedin 2000 concerning a patient's access to a newer antiretroviral drug stil way for accessing healthcare in Brazil, a ruling by the Supreme Court HIV/AIDS and right-to-health litigation has become an alternative path While claims for pharmaceutical access have migrated well beyond

to the Sindicato das Indústrias Farmacêuticas do Estado de São Paulo) (with an estimated total market value of US\$30 billion in 2012 according its economy—the eighth-largest pharmaceutical market in the world health care system, as well as of the evolving pharmaceutical sector of chapter in the construction and management of the country's universal in volume and importance in Brazil, it signals the beginning of a new of delivery systems. As the judicialization of the right to health grows perennial debates over prevention versus treatment and the limitations promises for increased access to treatments while contending with the struggling with how to guarantee the human right to health and fulfill Public health actors and institutions around the globe are currently

tant litmus test for other low- and middle-income countries where in-Brazil's response to the judicialization of the right to health is an imporcreased pharmaceutical access is underway.

Right-to-Health Litigation

he adds. Why? "Because these are medicines with a slightly elevated cost." therapies are a new threshold in the judicialization of the right to health, that in almost all cases initial rulings are in favor of the patients. Genetic Health is the duty of the state and the right of the patient." He insists gation as the only way forward, because "the state does not fulfill its role the lawyer who represented several of these families. Mr. Moura sees litireplacement therapy at Hospital Universitário, remained unresolved. The paperwork had grown "to half a meter high," in the words of Mr. Moura Young Rita's legal process, like that of the other patients receiving enzyme

spent US\$30.2 million on court-mandated drugs, an expense that repmedicines, a staggering increase from 1,126 in 2002. In 2008, the state 2009 alone, there were over 12,000 lawsuits in the state seeking access to of health-related lawsuits in the country (Hoffmann and Bentes 2008). In million, the state of Rio Grande do Sul faces one of the highest numbers practices, and encroaching upon health budgets. With a population of 11 defining the roles and responsibilities of the state, altering administrative in their courts reaching into the tens of thousands, a process that is reresented 22 percent of the state's expenditure on medicines for that year (Biehl et al. 2009). Brazilian states are seeing the number of successful lawsuits brought

a taxi-driver, in one of the shanty towns of Porto Alegre. Lizete found out she was HIV-positive in 2002. Unlike her AIDS therapies, which she monary hypertension. She is fifty years old and lives with her husband district judge ordered the state to begin immediate provision of the medineeds is not offered through the public system and would cost her about receives for free at the local health post, the drug that she most urgently the state. She initially lost her lawsuit, but later won on appeal. Though a fender's office, where she qualified for free legal representation, and succ US\$1,300 a month. On her doctor's advice, Lizete went to the public de-Consider Lizete, who is suing the state for medication to treat her pul-

> adopted son passed and Lizete had yet to receive the drug. She had hoped to get better cation, when she was interviewed in August of 2009, several months had so that she could return to work and better care for her eleven-year-old

a fifth were unemployed. Among those who reported income, over half and relied on the free legal services of public defenders. earned less than the monthly national minimum wage (about US\$300 care and legal representation (Biehl et al. 2012). Among the plaintiffs who are not working and who depend on the public system for both health procure treatments through the courts are mostly poor individuals who lawsuits against the state of Rio Grande do Sul9 suggests that patients who By contrast, an analysis of information we collected from 1,080 medicinal tend to sue for very expensive medicines (Da Silva and Terrazas 2011:12) patients tend to sue for low-cost medicines, while higher-income patients most part a practice of the financially better off (Chieffi and Barata 2009; reported their employment status, more than half were retired and about Da Silva and Terrazas 2011; Vieira and Zucchi 2007) and that low-income Past research has suggested that right-to-treatment litigation is for the

access and rationalizing use (DECIT 2006; Guimarães 2004). ceutical distribution programs are failing to fulfill their role of expanding able in the market for a long time. This suggests that government pharmaquested by plaintiffs were also often low-cost and many had been availwere trequently requested alongside other medicines. Off-list drugs refor access to on-list, high-cost drugs, though low-cost essential medicines already on drug formularies. About a quarter of lawsuits were exclusively Roughly two-thirds of the medicines requested in our database were

ruling was in favor of the provision of medicines, the state's higher court an immediate injunction for access to medicines; in cases where the initial most all of the 1,080 lawsuits examined, district judges granted plaintiffs consistent with Brazil's constitutional right to health. For example, in al upheld the decision most of the time grant access to all medicines requested, recognizing that their provision is Moreover, judges at district and higher court levels almost universally

relationship, "changes in material capabilities of state and non-state actionship between power and ideas in global politics." In such an elastic prudence "have produced open-source anarchy and a more clastic rela-According to legal scholar David Fidler, developments in health juris-

ages" (Comaroff and Comaroff 2006:26; see also Vianna and Burgos one another, often at the intersection of tort law, human rights law, and tions. Citizens, subjects, governments, and corporations litigate against a "judicialization of politics" in post-apartheid South Africa and how it 2005; Yamin and Parra-Vera 2010). the criminal law, in an ever mutating kaleidoscope of coalitions and cleavhas affected social mobilization, particularly in the field of HIV/AIDS. Class struggles, they argue, "seem to have metamorphosed into class ac-Anthropologists John and Jean Comaroff have been attending to such

provision would have made a difference. experiences—they cite specific tragic stories in which they think treatment on jurisprudence (such as Justice Mello's, referred to earlier) and personal of death" and the "right to life" and base their rulings for the most part own standards in adjudicating right-to-health cases. They cite the "risk The fact is that judges employ idiosyncratic rationales and create their this goal can be attained through individual claims, however, is contested are a milestone in the democratization of a culture of rights. Whether to state failures to provide needed drugs and that these waves of lawsuits we have been suggesting, has become an alternative route to health care. Many judges working on right-to-health cases feel they are responding revealed divergent and conflicting views on the litigation pathway that, as chy" (Fidler 2008) at both macro and micro levels in Brazil as well. Interviews we conducted with judges, attorneys, and public health officials Right-to-health litigation speaks to a productive "open-source anar-

support. Many patients are indeed poor and are represented in court by Moura's, have multiplied, and local public officials are capitalizing politiprivate law offices specializing in right-to-health lawsuits, such as Mr equalities in health care access. Some acknowledge, however, that legal stepping its role and that judicialization skews budgets and increases incally on such court cases, using them to gain media attention and popular pressure has improved the distribution of some drugs. In the meantime, Administrators, on the other hand, contend that the judiciary is over-

> efficacy might be questionable and widespread prescription unwarranted tested role. Officials claim that at least some of them are funded by pharstate institutions for themselves. Patient associations play a highly conmaceutical companies eager to sell the government high-cost drugs whose ability; they also seek greater visibility and political significance within fenders we interviewed see their work as a mode of guaranteeing accountattorneys from the state's independent public defense office. The public de-

to scientific evidence and to strive for "more efficiency" when ruling over cost drugs. The Brazilian National Council of Justice also issued a set of to the enormous judicial demand for medical goods. An immediate outrecommendations for local judges, asking them to attend more carefully come was a long-overdue updating of formularies for specialized high providing varied viewpoints and recommendations on how to respond zilian Supreme Court held a rare public hearing to examine the presshealth-related cases.11 lawyers, physicians, activists, and academics testified before the Court, ing challenges posed by right-to-health litigation. 10 Public health officials face off, and enact one-by-one rescue missions. In April 2009, the Bra various public and private health actors and sectors come into contact, Judicialization has indeed become a parallel intrastructure in which

only to support and fund the provision of universal care for its citizens, can be questioned." Moreover, "the state has to provide resources, not treatment was indicated, the "Ministry of Health's therapeutic guidelines in favor of the provision of the high-cost therapy. In his ruling, Justice but also has to provide variable resources to attend to the needs of each Gilmar Mendes stated that once the disease was medically confirmed and court rejected the argument that the state was not responsible and decided therapeutic guidelines and was not publicly available. In March 2010, the ease. This treatment was not recommended by the Ministry of Health's landmark ruling involved a request for a medicine to treat a genetic disindividual citizen." the 1990s, now it is access to genetic therapies. The latest right-to-health If access to AIDS therapies was the litmus test of the right to health in

tial public debate about the meaning of the right to health in light of new the courts must enforce this right. But the country is yet to have a substanconstitutional right to health imposes on the state and the extent to which There is a heated debate in Brazilian courts on the positive duty the

vagaries of the market and survival. Jurisprudence and make governments work for them as they negotiate the down patient-citizen-consumers draw from human rights language and control, air pollution, and violence prevention. Meanwhile, hard-to-pinsocial determinants of health, such as education, water, sanitation, vector aspects of the right to health, including structural-rights interventions and (which they currently do not). Attention must also be paid to broader responsibilities of private health insurance plans in covering drug costs tory steps in drug pricing are needed, along with a reconsideration of the develop robust health technology assessments. Moreover, bolder regulaconsolidated in Brazil, the various branches of government have yet to medical advancements. Although a "right to pharmaceuticals" is being

cess alongside the continual creation of commercial horizons. of rights/interests to the biomedical market in the form of technology acand distributor) facilitates a more direct relationship of atomized subjects ers. There is an economic reason within governmental reason. 12 At stake over the utility of government by multiple private and public stakeholda top-down biopolitical model of governance in which population wellhere are the ways in which government (qua drug regulator, purchaser, being is the object of knowledge and control, but rather a contestation object of modern politics (1980; 2007). In judicialization we do not see cault's concept of biopower—the way in which natural life has become an economic subject (necessarily a consumer of technology) is also the subject of legal rights. This dual subject position complicates Michel Foualigned with the juridical subject of rights. The rational choice-making penetration of market principles in health care delivery is unexpectedly an intensely contentious political-economic-experiential field. Here the To look at the ways and means of right-to-health litigation is to enter

Patient-Citizen-Consume

enlarged, and she also has respiratory problems." Ilse insists that Rita improved while in the clinical trial, but that she also knew that the enzyme but now her whole body is damaged. The organs, liver, and spleen have she was four," her mother Ilse adds. "She even went to nursery school, Rita has a "severe case" of MPS, Dr. Maria tells us. "She walked until

> to killing their children. renew periodically in the courts) would be unconscionable or tantamount to suggested that not obtaining this treatment (whose access they had to that the enzyme would not be effective. Yet all of the parents we spoke she believed that in Rita's case, the neurological damage was so tar along does not "stop the neurological damage." Later Dr. Maria told us that

added, "given this predominantly Catholic country's anti-abortion laws." netic diagnostics are now beginning to circulate in the public health care system, "doctors cannot offer termination of pregnancy as an option," he level of prenatal screening and early care of the child." But while new ge-"We have tools to go to the community and to work preventatively at the ments." He also emphasized the need for a community genetics approach can stabilize the disease," he told us, "or maybe lead to small improvetário, does not see high-tech treatments for MPS as magic bullets. "They Dr. Daniel Muller, who coordinates MPS trials at Hospital Universi-

troubling uptake of high-tech treatments. According to Dr. Muller, many problem" in Dr. Muller's words. To complicate matters further, the famprescription, they can go to another doctor." the family and on the judge's understanding. If we don't give the family a should not be treated . . . today, with judicialization, treatment depends on mild forms of the disease that can help us to decide which cases should or we have clinical scales to differentiate between severe, intermediate, or families make "emotional rather than rational" decisions: "Even though ily's affective tissue has become a catalyst for a grassroots and somewhat in a complex medical-legal-religious context, a "conservative continental would do anything and go anywhere to get the treatment"—is embedded The therapeutic imperative voiced by the families we spoke to-"we

and Bolivia, he told us. has attracted twelve new families from all over Brazil and also from Chile children. The study that Dr. Muller coordinates at Hospital Universitario approved and in the market, new trials are testing its safe use in younger ficacy of the enzyme on older children and young adults. Now that it is The initial MPS clinical trials in which Rita participated tested the ef-

a complicated matter (Petryna 2009). Pharmaceutical companies are increasingly enlisting specialized public treatment centers in middle-income countries, such as the genetics service at Hospital Universitario, to run Whether such trials are a public good or an exploitative mechanism is

or by the government (in countries like judicialized Brazil). protocol and reimbursable by insurance companies (in the United States) tools as multiple players struggle to make the treatment standard via a unfold and evidence is produced, they morph into powerful marketing cruiting specific patient pools. For example, there are some six hundred charidoses) globally, and a quarter of them live in Brazil. As clinical trials patients diagnosed with MPS 6 (one of the subtypes of the mucopolysactrials. These centers have highly qualified staff and the capability of re-

it to her. It's stressful to have a sick child and to have to fight for her to hausting. This is my work, day and night." citizen. But we must always fight with judges, prosecutors . . . it is so exget the medicine which she has a right to. It is Rita's right as a Brazilian live and letting die" has become a familial affair. "The state should give here the biopolitics of the state is tied to technology access and "making imperative is not a push for cure but an effort to keep Rita alive. Arguably, MPS. There is no cure. But she needs the enzyme." For Ilse, the therapeutic life" (vida inteira). The mother continued, "She will not be cured of her said. The parents want the courts to grant the treatment for Rita's "whole condition and wishing to avoid "the 75 percent chance of having another ond husband, Rita's father, is the breadwinner. After discovering the girl's MPS child," the couple adopted a son. He brings "joy to the house," Ilse Ilse stated that taking care of Rita is "my work, full time." Her sec-

ended and both were watching cartoons on TV. said mais alto, louder. "Ten." Pedro was eight. Their infusions had just When asked their age, Jessica mumbled a number to which the mother would be twenty-two years old now. There was no treatment at the time," Fronteira. Her first child "had it too, but she died at the age of three. She Mirta and her two children with MPS come from the rural town of

states, "I take care of them." We had heard that these children are having in the afternoon." When asked what she does for a living, Mirta plainly the town. "Jessica walks, but Pedro walks very little. They go to school ends we return home." Mirta's husband manages garbage collection for hall transports us by van. We get here at 6:30 am and when the infusion market complex. "Every week we leave Fronteira at 1:30 am. The city to operate as dual subject of rights and interests in this therapeutic state-"It is a struggle," Mirta said, conveying how her family had to learn

difficulties accessing enzyme replacement therapy. "Yes," Mirta says, "We

could get it. Of course, we said yes. The doctors and the MPS association approved by ANVISA and available in Brazil, "the doctors called us and a close eye on the MPS study. Once it was published and the therapy was are in constant contact with us." asked if we wanted entrar na justiça [to file a lawsuit] to see whether we "They did not have the right to be researched." Excluded, the family kept Mirta lamented. She interpreted this exclusion in constitutional terms: to test the enzyme, "They did not meet the age criteria of six and above," for clinical observation and palliative care. When a study was launched For years, Jessica and Pedro had been coming to the genetic service

ninety days and Pedro for forty days. Their cases never fall into the hands that renewing access to the ERT entailed. "Jessica got the treatment for of patient/family demand, pharmaceutical marketing, and legal activism of the same judge." position, and she suffered from the constant uncertainties and court lights us," but she cannot recall his name or the terms in which Jessica and Mirta is thankful for the lawyer whom the "MPS association hired for tivities such as the patients' associations that crop up at the intersection subjects, these children and guardians have to rely on temporary collec-Nor did she have a clear sense of how to act in her scripted legal subject Pedro's cases were argued before judges who were ruling on their claims subjects of rights belong. And so, in their private efforts to become such There is no pre-given biopolitical population to which these atomized

lechnology Access and Privatized Health

children's biologies are wrecked by treatment discontinuity: "Sometimes all this is at the company's discretion." Dr. Maria emphasized that these either as part of an extended-access or compassionate-use program. "But trial sponsors sometimes do continue to provide the drug for a while, Several of the doctors we interviewed mentioned that when studies end their patients in clinical trials or who prescribe these genetic therapies The issue of treatment continuity weighs heavily on doctors who place

experts who support or disqualify claims for treatment access and efficacy, state's general attorney's office has created a taskforce of rotating medical but then the courts become battlefields of veridiction-falsification as the vide crucial means of veridiction for patients' legal claims for treatment, treatment until a court injunction comes," Dr. Maria told us. Doctors promedical commodities, but the timing of rulings and court injunctions unleash their own kinds of hazards. "Patients go for some time without the Not only are these children's biologies precariously tethered to new

make the case that treatment should not be interrupted, but we know that their bodies. In the medical reports we file as part of the lawsuit, we try to this argument does not necessarily work." adverse reaction to the therapy. The protein in the therapy is foreign to when a new ruling or injunction comes, patients almost always have an it than to not have it. When treatment is interrupted and then restarted lems. According to Dr. Maria, "It is worse to have the treatment and stop Conflicts over evidence in courts create yet another set of medical prob-

uncertainties of the science, effectiveness, and true costs of therapeutic How can we facilitate a more informed public debate about the lived replaced by standardized protocols and new regimens in the future. But space between treatment and research, a tenuousness that might well be advancements? (Petryna 2009) that is going on in the bodies of their children-litigants we wondered to what extent parents were aware of the experimentality tion of pharmaceutical access thus seems to open an additional tenuous we need more time to really assess its effect." The one-by-one judicializathe patient? They have had the disease for a very long time, eight or nine condition. Even in the therapy's postmarketing stage, patients remain in a is how to assess whether the enzyme is actually improving the patient's the enzyme improves lung function. But when it comes to other markers, years, and have had very little treatment over those years. We know that kind of experimental state. "What does the treatment actually improve in and Lleras-Muney 2006) square with the judicialization of health care? better health outcomes" (Cutler and McClellan 2001; Cutler, Deaton A major challenge facing clinicians such as Dr. Maria and her colleagues How does the celebrated economic equation "more technology equals

> and Pedro don't have the therapy, they are compromised. They should take it continuously." for their health. I can see the difference," Mirta continues. "When Jessica subjective criteria to index the negative impact that the legal odyssey is well as minor details such as "the hair softening." Parents use various example, mentions her children's increasing "alertness and dexterity" as measures of the effectiveness of enzyme replacement therapies. Mirta, for having on the children: "We know that this ongoing litigation is not good Parents at the hospital's genetic unit have crafted their own informa

36,000 dollars for both of them. It is a lot, right?" in turn buys the enzyme. The treatment costs 18,000 dollars per month, claim and we ourselves get the money and give it to the hospital which in this makeshift drug delivery system, Mirta adds, "The judge stamps our while, the questionable efficacy that the doctors delivering the ERT are aware of becomes less and less an object of concern. When all goes well "biotechnical embrace" (DelVecchio Good 2007) strengthens. Mean-As families push through courts and medical-legal paperwork, their

their temporary medical-legal and activist networks. subject positions articulated by desperate patients and families within ing for a knowable population of needs that is no more) clash with the deployment of evidence-based medicine. These virtual collectives (standputting into circulation epistemic collectives that spring from a strategic treatment more and more." Arguably, the state and its legal surrogates are in expert committee reviews and state prosecutors' appeals to "postpone ticularities might play against them if it were a collective case." For him, individual lawsuits could potentially circumvent the narrow criteria used Each MPS patient is unique and takes different dosages, and their parthis is actually the best legal strategy: "I am against collective lawsuits. both have MPS 6. They have different judges and each one gives treatment rulings for each MPS patient. Here we have the case of two siblings who "One of the most difficult realities we face is that judges give different enterprise. Dr. Maria underscores the medical and juridical confusion: tute a legitimate collective in this privatized and malleable right-to-health for different time periods." According to the lawyer, Mr. Moura, however, Not even siblings with the same disease, like Pedro and Jessica, consti-

did have their constitutional right to health. As their mother puts it: "They Pedro and Jessica did not have the right to clinical research, but they

should get the medicine pra vida inteira [for the whole life] so that we would not have to always activate the judiciary pouco a pouco [little by little]."

This family had a sense that their fight would only become more intense as right-to-health jurisprudence was evolving unpredictably. The state's highest court had recently ruled in favor of the government and held an MPS drug manufacturer responsible for the treatment costs of a child who had been in a clinical trial. State prosecutors requested and the court mandated that the manufacturer provide the patient with free treatment for life, even if this was not stipulated in the informed consent. To justify the decision, the State High Court wrote that "it is unacceptable for the manufacturer to use human beings as 'guinea pigs' in its studies and then leave people who were of vital importance helpless to obtain an extraordinarily expensive product, especially when health improvements were observed and patient expectations were raised" (Tribunal de Justiça do Estado do Rio Grande do Sul 2009).

Coda

With the global expansion of biomedical markets and their encroachment in public health care systems, we see significant institutional displacements and novel citizen-state-market formations. In the Brazilian case, the market finds utility in the government as a drug purchaser and distributor and in specific mobilized communities. These communities, cast as therapeutic market segments, use lawmaking and jurisprudence in order to be seen by the state and to make it act biopolitically. Government is thus geared less toward population health as a means of achieving productivity and control and more toward facilitating or triaging the relationship of rights-bearing subjects of interest to the biomedical market in the form of technology access.

People's life chances and health outcomes are overdetermined by what kind of market and juridical subjects they are able to become by appealing to the judiciary and government as well as to research and health industries. We have to attend to forms of statecraft (national and regional) and jurisprudence as well as to the political subjectivities that are built into this new apparatus of interests and rights if we are to understand both the

possibilities that have opened up and the exclusionary dynamics at work in Brazil and elsewhere. Thus, from the perspective of judicialization, health in the time of global health is a painstaking work in progress by monadic juridical subjects in relation to therapeutic markets, ailing public health infrastructures, and fragile medical collectives. This essay has drawn attention to the precariousness of biopolitical interventions, showing how they are constantly entangled with and shaped by other (often economic) imperatives. The stories of patient-litigants and their families also point to the power of biotechnology to remake human and social worlds as it opens up new spaces of ethical problematization, desire, and political belonging. It is at the intersection of the therapeutic imperative, the biotechnical embrace, and the reason of the market that the intensity of survival becomes visible.

Notes

- Retrieved 2/21/2011 from http://www.oestrangeiro.net/esquizoanalise/67-o-abecedario-de-gilles-deleuze.
- An earlier version of this chapter appeared in Social Research (2011, 78[2] 359–86).
- 3. We are deeply grateful for the research and editorial assistance of Mariana P. Socal, Roberta Grudzinski, Alex Gertner, Joshua Franklin, Jeferson Barbosa, Ramah McKay, and Peter Locke. We also acknowledge the support of the Ford Foundation and the Health Grand Challenges Initiative and the Woodrow Wilson School at Princeton University. Except in cases where individuals or institutions chose to be identified, we maintained their anonymity to the extent possible by using pseudonyms.
- 4. In discussing the pharmaceuticalization of health care and the judicialization of the right to health in Brazil, we draw from Biehl's book Will to Live: AIDS Therapies and the Politics of Survival (2007) and Petryna's book When Experiments Travel: Clinical Trials and the Global Search for Human Subjects (2009). We also draw from a multidisciplinary study on right-to-health litigation that is under way in southern Brazil and that is coordinated by Biehl.
- 5. The first MPS treatment was approved by the FDA in 2003 (laronidase for MPS I), followed by two other drugs approved in 2005 (galsulfase for MPS VI) and 2006 (idursulfase for MPS II). These drugs were approved by ANVISA in Brazil in 2006, 2009, and 2008 respectively.
- 6. The 1983 U.S. Orphan Drug Act provides incentives for the development of drugs to treat rare diseases affecting "less than 200,000 persons in the U.S." or "more than 200,000 persons in the U.S., but for which there is no reasonable expectation that the cost of developing and making available in the U.S. a drug for such disease or condition will be recovered from sales in the U.S. of such drug."

ponent of Pharmaceutical Assistance" (Ministry of Health, 2010a). to the Exceptional Medicines Program (Ministry of Health 2010). Currently, 110 formulas) are included in the program, which is now called the "Specialized Comtherapeutic products (including medicines, biological products, and nutritional objectives and responsibilities of the States and the Federal government in regard Decree (Portaria GM nº 2577 de 27 de Outubro de 2006) outlining the specific bution (Souza 2002). Finally, in 2006, the Ministry of Health issued a Ministerial ninety-two drugs and more precise criteria were formulated to inform their distriprocesses. In 2002, the Exceptional Medicines Program was extended to include cluded in the program's initial formularies, only a few were effectively distributed to the population, due to erratic and irregular acquisition and distribution without a well-defined cofinancing mechanism. Although many drugs were inthe administrative responsibility of this program to state health secretariats, but cionais) was created (Ministry of Health 2010a). The federal government ceded the acquisition of these high-cost medicines (Programa de Medicamentos Excepcumstances since the 1970s, but it was not until 1993 that an official program for 7. The federal government acquired high-cost medicines in exceptional cir-

8. In 2007, four drugs were responsible for 28 percent of the Health Ministry's drug expenditures: imiglucerase, epoetin alpha, human immune-globulin, and in

terteron alpha-2b.

 See http://www.princeton.edu/grandchallenges/health/research-highlights/ aids/.

10. For a detailed review of the public hearing, see: http://www.stf.jus.br/portal/cms/verTexto.asp?servico=processoAudienciaPublicaSaude.

11. In 2010, the Brazilian National Council of Justice issued a recommendation for judges to always verify at the National Commission of Research Ethics (Comissão Nacional de Ética em Pesquisas [CONEP]) if the requested drug was "part of experimental research programs" of the pharmaceutical industry and that, in that case, judges should mandate these industries to assume treatment continuity. (Recomendação n° 31, de 30 de Março de 2010. DJ-e n° 61/2010, em 07/04/2010, p. 4-6. Available at: http://www.cnj.jus.br/index.php?option=content&view=article&id=10347:recomendacao-no-31-de-30-de-marco-de-2010 &cattid=60:recomendas-do-conselho&Itemid=515.)

12. In his 1978–79 lectures at the Collège de France, Foucault argued that we can adequately analyze biopolitics only when we understand the economic reason within governmental reason: "Inasmuch as it enables production, need, supply, demand, value, and price, etcetera, to be linked together through exchange, the market constitutes a site of veridiction, I mean a site of veridiction-falsification for governmental practice. Consequently, the market determines that good government is no longer simply government that functions according to justice" (2008:32).

Afterword

The Peopling of Technologies

MICHAEL M. J. FISCHER

I want to explore the remarkable array of ethnographic case studies in this book by reading for the people and reading for the bioecologies at play. I use the term "ecologies" as a means of probing for the proper identifications and scales of interactions in global health, particularly at biochemical, molecular, computational, and informatics granularities that previously have not been accessible. We are arguably undergoing one or more epistemic revolutions, all too slow for the desperately ill, but stunningly fast in terms of the pedagogies in which we have been trained and in which we still too often think. Two indices for these epistemic changes—the molecular biology revolution and (bio)ecological imaginaries—may be sufficient to direct attention and to indicate the cascades, ramifications, and implications of paradigmatic shifts.

The expressions "when people come first" (and which ones) and "reading for the people" speak of power, stratification, inequality, structural violence, and incentives—the traditional social and political economy issues. The ecological perspective speaks of our nature—of how we fit into the webs of our habitats, and (with the largest number of cells in our bodies being bacteria, viruses, fungi, prions, and pheromones) our microbiomes, the barely discernible threads and signals within which we are