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**2024-25 IPPF Topic Primer**

**Resolved: Equitable access to pharmaceuticals should be prioritized over protecting intellectual property rights.**

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## **Introduction**

The debate over protecting intellectual property rights versus ensuring equitable access to pharmaceuticals is a complex issue. The topic tasks teams with addressing the humanitarian goal of ensuring universal access to medicine while also considering the economic and legal arguments which undergird the innovative potential of pharmaceutical industries. The resolution is global in nature and will compel teams to consider and address international laws, treaties, and trade agreements related to the development and distribution of pharmaceutical products. Teams will need to familiarize themselves with institutions such as the United Nations, the World Health Organization, the World Trade Organization, and the World Intellectual Property Organization. As worded, the resolution provides a clear declaration of priority in the ongoing debate between private business interest and global public health. This resolution calls for teams to state a clear priority when equitable access to pharmaceuticals conflicts with protecting intellectual property rights.

Historically, the pharmaceutical industry has relied on the protection of intellectual property rights to recoup the significant costs associated with researching and developing new drugs. While this system has contributed to medical innovation, it has also resulted in higher drug prices, which can deny access to lower-income populations throughout the world. Global health emergencies, such as the HIV/AIDS crisis and the COVID-19 pandemic, have influenced the current international balance between intellectual property rights and access to life-saving medicines. This resolution will require debate participants to consider the balance of interests for those who create life-saving medicines with those who require them.

Affirmative teams will broadly argue that the protection of intellectual property rights in the context of the pharmaceutical industry unfairly limits access to important drugs. Teams on this side of the resolution will need to develop arguments that prioritize equitable access to pharmaceuticals while also considering and refuting the common defenses of strong intellectual property rights by the pharmaceutical industry. There are many arguments that can be made to support this position. Equitable access to life-saving medicine is considered a moral imperative by many. The UN Committee on Economic, Social and Cultural Rights states that access to essential medicines is a core obligation under the international right to health. Developmental economists also argue that increased access to essential drugs can generate positive economic outcomes and strengthen global health. Critics of the current system also present detailed arguments describing why the global system of intellectual property rights unfairly benefits wealthy nations at the expense of lower-income countries.

Negative teams will need to broadly argue that the protection of intellectual property rights is the engine of pharmaceutical innovation. Without the market incentive conferred by IP rights, drug manufacturers may not invest considerable resources to research, develop, and distribute new medicines. Novel drugs take years to develop and

cost companies millions or even billions of dollars to produce. Additionally, decades of debate about the high cost of drugs in the international marketplace have resulted in a trading system that attempts to balance the interests of global health and the pharmaceutical industry. Prioritizing equitable access in favor of a balanced approach could destabilize this system and result in overall worse health outcomes if the monetary incentive for pharmaceutical innovation is undermined. Negative teams can argue that flexible mechanisms such as voluntary licensing agreements are sufficiently able to address humanitarian concerns while preserving the market incentives necessary for pharmaceutical innovation.

The resolution clearly delineates and balances the argumentative ground for both sides. Teams are encouraged to read the resolution broadly as this accesses the core controversy areas. Since the topic is global in nature, teams are encouraged to develop arguments that focus on the international controversy. Attempts to limit discussions to singular countries, such as focusing the debate around equitable access in just the United States, will miss out on the central question of this resolution. Affirmative teams will need to craft and defend the position that a person's equitable access to pharmaceuticals, regardless of their nationality or economic status, is more important than the protection of the pharmaceutical industry's intellectual property rights. Negative teams will need to research and prepare a position that proves the benefits of protecting intellectual property rights outweigh equitable access to pharmaceuticals when these issues come into conflict. These competing perspectives are supported by rich and diverse topic literature.

The remainder of this topic primer includes an annotated bibliography to demonstrate the scope and controversy points of this resolution. Teams are highly encouraged to conduct their own independent research. While comprehensive, this primer is far from exhaustive and successful teams will draw upon additional research.

## Key Terms

The following is a list of key terms which frequently appear in the topic literature:

- **Intellectual Property Rights (IPR):** Legal rights granted to creators and owners of works that are the result of human intellectual creativity. Common examples include patents, trademarks, and copyrights.
- **Patents:** A form of IP that gives the patent holder the legal right to exclude others from making, using, or selling an invention for a limited period of time, in exchange for publishing an enabling disclosure of the invention.
- **Monopoly:** A market structure characterized by a single seller, lack of competition, and high barriers to entry. Patents grant a temporary monopoly on an invention.
- **Compulsory Licensing:** When a government allows someone else to produce a patented product or process without the consent of the patent owner or plans to use the patent-protected invention itself.
- **Tiered Pricing:** The practice of setting different prices for the same product for different markets, typically based on the market's ability to pay.
- **Generic Drugs:** A pharmaceutical drug that contains the same chemical substance as a drug that was originally protected by patents. Generic drugs are allowed for sale after the patents on the original drugs expire.
- **World Health Organization (WHO):** A specialized agency of the United Nations responsible for international public health.
- **World Trade Organization (WTO):** The global international organization dealing with the rules of trade between nations.
- **The TRIPS Agreement:** The Agreement on Trade-Related Aspects of Intellectual Property Rights is an international legal agreement between all the member nations of the World Trade Organization. It establishes minimum standards for the regulation by national governments of different forms of intellectual property.
- **The Doha Declaration:** A WTO statement that clarifies the scope of TRIPS, stating that the agreement can and should be interpreted in light of the goal "to promote access to medicines for all."

## **Resources for Background and Foundations**

Beall, Reed F. "Patents and the WHO Model List of Essential Medicines: Clarifying the Debate on IP and Access." *WIPO*, 2016,  
[https://www.wipo.int/edocs/mdocs/mdocs/en/wipo\\_gc\\_ip\\_ge\\_16/wipo\\_gc\\_ip\\_ge\\_16\\_brief.pdf](https://www.wipo.int/edocs/mdocs/mdocs/en/wipo_gc_ip_ge_16/wipo_gc_ip_ge_16_brief.pdf)

This brief examines the patent status of medicines listed on the World Health Organization's Model List of Essential Medicines (MLEM). The report highlights that 95% of the drugs on the MLEM are off-patent, with the remaining 5% largely comprising antivirals and medications for non-communicable diseases. The author discusses the variability in patent coverage across developing countries and emphasizes the importance of patent transparency to improve access to essential medicines. The brief underscores that patent protection is more prevalent in higher-income countries with larger markets and manufacturing capacities. The report calls for targeted interventions, such as licensing agreements, to address access barriers where patents exist.

Boscheck, Ralf. "Intellectual Property Rights and the Evergreening of Pharmaceuticals." *Intereconomics*, vol. 50, no. 4, 2015, pp. 221-229.

This article explores the complex issue of "evergreening" in the pharmaceutical industry, where drug manufacturers extend the market exclusivity of their products through minor modifications that are still patentable. The author argues that while these practices are often criticized for limiting access to affordable medicines, they are a natural outcome of a system driven by market incentives and are regulated by existing patent standards. The article delves into the broader implications of intellectual property rights on technological advancements and trade disputes, particularly in the context of healthcare costs and global access to medicine. A balanced view is provided, acknowledging both the necessity of patents for encouraging pharmaceutical innovation and the need for regulatory safeguards to prevent abuse.

Butt, Saima, and Naseem Razi. "Intellectual Property Rights and Right to Health: An International Perspective." *Journal of Development and Social Sciences*, vol. 3, no. 2, April-June 2022, pp. 832-841.

In this research paper, the authors explore the intersection of intellectual property rights and the right to health from an international perspective. They discuss various international agreements and declarations, such as the Universal Declaration of Human Rights and the TRIPS Agreement, highlighting the tradeoffs between protecting IPRs and ensuring access to essential medicines. The paper delves into the role of the World Health Organization and other international bodies in promoting health equity and addresses the impact of high drug prices on developing countries. The authors advocate for a balanced

approach that respects both the rights of inventors and the health needs of the global population. This paper provides a strong foundation for understanding the international dimension and tradeoffs between intellectual property rights and equitable access to medicine.

Correa, Carlos M., and Reto M. Hilty, editors. *Access to Medicines and Vaccines: Implementing Flexibilities Under Intellectual Property Law*. Springer, 2022. <https://doi.org/10.1007/978-3-030-83114-1>.

This edited volume examines the role of intellectual property law in the accessibility of medicines and vaccines, focusing on the flexibilities provided under the TRIPS Agreement. It discusses various mechanisms that can be utilized to improve access to essential medicines, such as compulsory licensing, government use exceptions, and competition law. The book highlights the balance between protecting pharmaceutical innovations and ensuring public health, offering insights into the challenges and opportunities for developing countries. Several chapters focus on the particular public health challenges faced by developing countries due to the international system of property rights protections. Multiple chapters are dedicated to exploring legal mechanisms designed to balance the interests of major pharmaceutical industries with global public health.

Gold, E. Richard, et al. "Are Patents Impeding Medical Care and Innovation?" *PLoS Medicine*, vol. 7, no. 1, 2009, pp. 1-5.

This article explores the complex debate surrounding the impact of patents on medical care and innovation. It provides a foundation for both sides of the debates by including competing perspectives from field experts. The authors, including experts from McGill University, Boston University, and the University of Toronto, provide nuanced viewpoints on the productive potential of the biomedical industry, the potentially positive role of patents in medical innovation, and the potentially negative role of patents in favoring wealthy countries. The article examines various viewpoints, including the potential benefits of alternative mechanisms such as prize systems and open-source licenses. This comprehensive analysis provides a useful starting point for considering major themes on both sides of the topic.

Hickey, Kevin J., and Erin H. Ward. "The Role of Patents and Regulatory Exclusivities in Drug Pricing." *Congressional Research Service*, 30 Jan. 2024. CRS Report R46679, <https://crsreports.congress.gov>.

This report by the Congressional Research Service explores the balance between encouraging pharmaceutical innovation and ensuring drug affordability through intellectual property rights and regulatory exclusivities. It delves into the implications of patents and exclusivity periods on drug pricing, the approval processes for drugs and biologics, and specialized patent dispute procedures. The

authors provide a comprehensive overview of the current legal frameworks, the economic rationale for IP rights in the pharmaceutical industry, and the debates surrounding practices like patent evergreening and product hopping. This document is significant in that it provides a balanced view of the tradeoffs between the importance of protecting intellectual property rights and the potentially anti-competitive results that can accrue in the pharmaceutical industry. In particular, this article addresses and evaluates specific patenting issues such as “evergreening,” “product hopping,” “patent thickets,” and “pay-for-delay settlements.”

Ho, Chun-Yu, et al. “Foreign Direct Investment Spillovers and Pharmaceutical Innovation: The Role of Intellectual Property Rights.” *Asian Development Bank Institute*, Working Paper No. 775, Aug. 2017, <https://www.adb.org/sites/default/files/publication/357656/adbi-wp775.pdf>.

This paper explores the impact of foreign direct investment (FDI) on domestic pharmaceutical innovation in the People's Republic of China (PRC), particularly focusing on the role of intellectual property rights (IPR). The study uses data from 1998 to 2007. The authors find that FDI has a negative spillover effect on domestic innovation when the IPR regime is weak, but this effect becomes positive after the PRC strengthened its IPR regime following its accession to the World Trade Organization (WTO) in 2001. Additionally, the paper shows that FDI has a positive spillover effect on domestic suppliers of pharmaceutical intermediates. The findings suggest that developing countries should simultaneously encourage FDI and strengthen their IPR regimes to enhance domestic innovation, thereby promoting productivity and economic growth.

Ho, Cynthia. *Access to Medicine in the Global Economy: International Agreements on Patents and Related Rights*. Oxford University Press, 2011.

This book offers insight into the relationship between patents and the development of medicines by the pharmaceutical industry. The author addresses the competing views between supporters of strong patent rights and advocates of equitable access to health by noting how these competing views have led to confusion and obfuscation of the law. This book aims to clarify widely prevalent misconceptions as reflected both in reports from the popular press and by some academics in the field of intellectual property. The book has two goals: to provide an explanation of the current international infrastructure that requires most nations to provide patent and related rights regarding drugs, and to explain how competing patent perspectives play a thus far unacknowledged role in promoting distortion and confusion.

Khoury, Amir H. *Essentials of Intellectual Property: A Basic Primer for Everyone*. United States Patent and Trademark Office, 2007.

This book provides a strong introduction to the essentials of intellectual property rights. The author divides the text into three distinct sections. Section one defines the scope of IP rights and their various applications. Section two traces the evolution of intellectual property and previews the major justifications for its protection. Section three analyzes both domestic and international protections for IP rights. Overall, this book provides a strong foundation for understanding the many dimensions and complexities of IP rights as they relate to this specific debate topic.

Kohler, Jillian, et al. "Improving Access to COVID-19 Vaccines: An Analysis of TRIPS Waiver Discourse among WTO Members, Civil Society Organizations, and Pharmaceutical Industry Stakeholders." *Health and Human Rights Journal*, vol. 24, no. 2, Dec. 2022, pp. 159-175.

This article provides a comprehensive analysis of the debates surrounding the waiver of certain provisions of the TRIPS Agreement to improve access to COVID-19 vaccines. The authors examine the positions of World Trade Organization members, civil society organizations, and pharmaceutical industry stakeholders over a 20-month negotiation period. The study highlights the persistent inequities in vaccine access, particularly affecting low- and middle-income countries, and discusses the implications of intellectual property rights on public health. The article finds that most stakeholders did not explicitly link the TRIPS waiver to the human right to health and that strong historical divisions on intellectual property and access to medicines persist amongst global stakeholders.

Ragavan, Srividhya and Amaka Vanni, editors. *Intellectual Property Law and Access to Medicines: TRIPS Agreement, Health, and Pharmaceuticals*. Routledge, 2021.

This book documents how the international harmonization of intellectual property laws influenced global healthcare and access to medication. Presenting the debates over patents, trade, and the TRIPS Agreement, as it galvanized non-state and nonbusiness actors, the book highlights how an alternative framing and understanding of pharmaceutical patent rights emerged. The book offers an important analysis of the legal and political dynamics through which the contest for access to lifesaving medication has been, and will continue to be, fought.

Schweitzer, Stuart O. and Z. John Lu. *Pharmaceutical Economics and Policy: Perspectives, Promises, and Problems*, 3rd edn. Oxford University Press, 2018.

Using the analytical tools of economics, this book explores the conflicting priorities and aims of the pharmaceutical industry. It begins by describing the supply side of pharmaceutical industry and then turns to the demand side, looking at the determinants of demand for pharmaceutical products. It also considers pharmaceutical demand factors in both emerging markets and industrialized parts of the world. Drawing extensively from recent economics and policy literatures, this book examines drug's pricing strategies, research and development costs,



competition from other branded drugs and generics, and other factors. An in-depth analysis looks at various drug promotional programs, their effectiveness in influencing demand and price, and the corresponding controversies and ensuing public debates. The focus of the book then turns toward pharmaceutical regulation, including the patent system, the approval process for both branded and generic drugs, the regulation of drug promotion, and major drug legislations since the beginning of the twentieth century. The book concludes by offering a look ahead at evolving industry structure, research methods, product characteristics, financing mechanisms, and regulatory policies affecting both price and access to pharmaceuticals worldwide.

Sellin, Jennifer Anna. "Does One Size Fit All? Patents, the Right to Health and Access to Medicines." *Netherlands International Law Review*, 14 Dec. 2015, pp. 445-473.

This journal article explores the complex relationship between patents, the right to health, and access to medicines, particularly in developing countries. The author examines whether the right to health and patent laws conflict or can coexist, focusing on the International Covenant on Economic, Social and Cultural Rights (ICESCR) and the TRIPS) Agreement. The article argues that while there is no strict legal conflict between the two, tensions arise due to differing objectives. The author discusses various ways to resolve these tensions, emphasizing the importance of balancing patent protection with public health needs. The article also highlights state practices and international legal principles that can help harmonize these competing interests.

Shadlen, Kenneth C., et al., editors. *Intellectual Property, Pharmaceuticals, and Public Health: Access to Drugs in Developing Countries*. Edward Elgar, 2013.

This book examines pharmaceutical development, access to medicines, and the protection of public health in the context of the major changes experienced by the global economy since the 1970s. The book includes perspectives from eleven different countries which each provide case studies into the experiences of Africa, Asia, and the Americas. The authors analyze national strategies to promote pharmaceutical innovation, while at the same time assuring access to medicines. Several chapters focus on patents and regulatory policies such as price controls and drug registrations. By providing an in-depth analysis through original empirical research, this book provides a strong foundation for each side of the debate topic.

Voss, Trina, et al. "A Short Introduction to Intellectual Property Rights." *Techniques in Vascular and Interventional Radiology*, vol. 20, no. 2, 2017, pp. 116-120.

This article provides a comprehensive overview of intellectual property rights, detailing the main forms of IP protection, including patents, copyrights, trademarks, and trade secrets. The authors explain the complexities involved in

obtaining and managing IP rights. The article serves as a primer to inform teams on the broad scope of intellectual property rights.

World Health Organization, World Intellectual Property Organization, and World Trade Organization. *Public Health, Intellectual Property, and TRIPS at 20: Innovation and Access to Medicines; Learning from the Past, Illuminating the Future*. Briefing Series on Trilateral Cooperation, 2016, [https://www.wipo.int/edocs/pubdocs/en/wipo\\_pub\\_gc\\_14.pdf](https://www.wipo.int/edocs/pubdocs/en/wipo_pub_gc_14.pdf).

This comprehensive report, jointly prepared by the WHO, WIPO, and WTO, examines the intersection of public health, intellectual property, and trade over the past 20 years, particularly in the context of the TRIPS Agreement. It highlights significant progress in global public health, such as increased life expectancy and better access to essential medicines, while also addressing ongoing challenges like high medicine prices and underperforming health systems. The report underscores the importance of data-driven policymaking and the role of international cooperation in improving access to medicines. It also discusses various policy tools, including compulsory licensing and voluntary license agreements, that countries have used to enhance access to pharmaceuticals.

World Intellectual Property Organization. “Intellectual Property and Bioethics: An Overview.” *Life Science Series*, vol. 1, 2007, [https://ppl-ai-file-upload.s3.amazonaws.com/web/direct-files/27193235/59b056cc-90bc-4c2e-91d4-a906978a1219/wipo\\_pub\\_b932ipb.pdf](https://ppl-ai-file-upload.s3.amazonaws.com/web/direct-files/27193235/59b056cc-90bc-4c2e-91d4-a906978a1219/wipo_pub_b932ipb.pdf).

This document from the World Intellectual Property Organization (WIPO) provides a comprehensive overview of the intersection between intellectual property and bioethics. The document is structured into four main parts: an introduction to bioethics and IP, general principles, key aspects of IP and bioethics, and a conclusion. It discusses the ethical implications of biotechnological advancements, such as genetic engineering and cloning, and the role of IP in these fields. The paper emphasizes transparency, consent, equitable sharing of benefits, and pluralism as essential principles in navigating the ethical landscape of IP and biotechnology.

## Resources for the Affirmative

Amin, Tahir, and Aaron S. Kesselheim. "A Global Intellectual Property Waiver is Still Needed to Address the Inequities of COVID-19 and Future Pandemic Preparedness." *INQUIRY: The Journal of Health Care Organization, Provision, and Financing*, vol. 59, 2022, pp. 1-6.

This research article argues for the necessity of a global intellectual property waiver to address the inequities exposed by the COVID-19 pandemic and to prepare for future pandemics. The authors discuss the original proposal by India and South Africa to the World Trade Organization to suspend IP rights on COVID-19 vaccines, therapeutics, and diagnostics. The authors critique the final WTO decision, which limited the waiver to patents on vaccines and the use of clinical trial data for regulatory approval, as insufficient. They emphasize that a broader IP waiver is crucial for increasing manufacturing capabilities in low- and middle-income countries, thus ensuring equitable access to essential medical technologies.

Baker, Brook K., and Rachel D. Thrasher. "From Business as Usual to Health for the Future: Challenging the Intellectual Property Regime to Address COVID-19 and Future Pandemics." *Boston University International Law Journal*, vol. 41, no. 1, 2023, pp. 1-41.

This law review article analyzes the existing intellectual property regime and its impact on equitable access to pharmaceuticals during the COVID-19 pandemic. The authors argue that the current IP framework, particularly the TRIPS Agreement, has created significant barriers to accessing essential medical technologies in low- and middle-income countries (LMICs). The authors discuss various legal and political challenges, such as TRIPS-plus standards in free trade agreements and political pressures that hinder the use of TRIPS flexibilities. They also explore policy responses, including public financing of research and development, collective purchasing initiatives like COVAX, and the potential benefits of a TRIPS waiver. The article concludes with recommendations for building a more resilient and equitable global health system to better prepare for future pandemics.

Cavalan, Quentin, et al. "Prices, Patents and Access to Drugs: Views on Equity and Efficiency in the Global Pharmaceutical Industry." *Revue française des affaires sociales*, no. 3, 2018, pp. 249-268, <https://www.cairn.info/revue-francaise-des-affaires-sociales-2018-3-page-249.htm?ref=doi>.

This article examines the complex issue of international drug pricing in the global pharmaceutical market, focusing on access to medicine in developing countries. The authors analyze the tension between equity considerations (access to affordable drugs in developing nations) and efficiency concerns (incentives for

pharmaceutical research and development). They provide an overview of current drug pricing and patenting policies, discussing their rationales, consequences, and limitations. The paper also explores innovative approaches from economic literature that attempt to balance equity and efficiency in the pharmaceutical industry.

Cordeiro-Rodrigues, Luís. "Justifying a Morally Permissible Breach of Contract: Kantian Ethics, Nozickian Justice, and Vaccine Patents." *Medicine, Health Care and Philosophy*, vol. 26, no. 3, 2023, pp. 1-20.

The author of this article explores the ethical implications of breaching contracts related to COVID-19 vaccine patents. The article argues that it is morally permissible to breach these contracts under certain conditions, particularly when the costs of not doing so are too high, or when the contracts are fundamentally unfair. The author employs Kantian ethics and Nozickian justice to support his arguments, suggesting that contracts that do not treat individuals as ends in themselves are not morally binding. The paper also discusses the broader implications of intellectual property rights in the context of a global health crisis, advocating for the waiver of vaccine patents to save lives.

Cullet, Philippe, and Hu Yuanquiong. "Medical Patents and the Right to Health: From Monopoly Control to Open Access Innovation and Provision of Medicines." *German Yearbook of International Law*, vol. 61, 2018, pp. 153-182.

This article examines the relationship between medical patents and the right to health, particularly in the context of developing countries and the global South. The authors discuss the impact of the TRIPS Agreement on access to medicines, highlighting the challenges posed by patent monopolies during the HIV/AIDS crisis. They argue for a rethinking of the human right to health to ensure universal access to medicines and propose alternative models of innovation that prioritize public health over intellectual property rights and profits. The article concludes by suggesting that a shift towards open access and innovation is necessary to reconcile the right to health with intellectual property rights.

de Wildt, Gilles, and Chan Chee Khoo. "Patents or Patients? Global Access to Pharmaceuticals and Social Justice." *Medicine, Conflict and Survival*, vol. 24, no. S1, 2008, pp. S52-S61.

This article explores the impact of current patent regimes on global access to essential pharmaceuticals, emphasizing the tension between intellectual property rights and social justice. The authors argue that the existing patent system, particularly under the TRIPS agreement, creates significant barriers to the development and distribution of affordable medicines, especially in low-income countries. They propose several alternatives, including patent pooling and mandatory tiered pricing, to improve equitable access to medicines.

Dosi, Giovanni, et al. "Do Patents Really Foster Innovation in the Pharmaceutical Sector? Results from an Evolutionary, Agent-Based Model." *Journal of Economic Behavior and Organization*, vol. 212, 2023, pp. 564-589.

In this article, the authors develop an evolutionary, agent-based model to examine the impact of patent systems on innovation and competition within the pharmaceutical industry. The study challenges the conventional wisdom that strong patent protection is necessary for fostering innovation. Through various simulations, the authors find that stringent patent systems may actually hinder innovation and reduce consumer welfare by limiting technological opportunities and increasing market concentration. The findings suggest that minimal patent protection might be more beneficial for innovation.

Frkovic, Kristina. "Intellectual Property Rights as a Barrier for Developing Countries to Access a COVID-19 Vaccine." *Marquette Intellectual Property & Innovation Law Review*, vol. 6, no. 1, 2022, pp. 47-60.

This law review article explores how intellectual property rights, particularly patent laws, impede developing countries' access to COVID-19 vaccines. The article is structured into several sections, beginning with an introduction that sets the context of the COVID-19 pandemic and the disparity in vaccine distribution. It then discusses attempted solutions such as the COVAX program, IP waivers, and the COVID-19 Technology Access Pool, analyzing why these measures have fallen short. The author delves into the right to health as enshrined in international human rights law and argues that IP protections conflict with this fundamental right.

Gabriel, Joseph. *Medical Monopoly: Intellectual Property Rights and the Origins of the Modern Pharmaceutical Industry*. University of Chicago Press, 2014.

This book traces the historical development of the medical system in the United States. The primary focus of the text is to detail the evolution and effect of patent law on the pharmaceutical industry. The author demonstrates how science, the law, and profits have been interwoven into the topic of public health in the United States. A major point of argument concerns health inequities that stem from the system of IP rights for pharmaceutical products. The author concludes by making the case that the separation of profit and medicine is vital for addressing growing health disparities.

Gamba, Simona. "The Effect of Intellectual Property Rights on Domestic Innovation in the Pharmaceutical Sector." *World Development*, vol. 104, 2018, pp. 15-28.

This article investigates the impact of intellectual property rights on pharmaceutical innovation across 74 developed and developing countries over a 22-year period. Utilizing a self-constructed dataset, the author employs a statistical model to analyze the effect of IPR reforms on domestic patent

applications. The study finds that while IPR protection does stimulate innovation, the effect is not long-lasting and is significantly less pronounced in developing countries compared to developed ones. The study concludes that a one-size-fits-all approach to IPR reform is inappropriate and suggests that gradual reforms may be more beneficial.

Gold, E. Richard. "What the COVID-19 Pandemic Revealed about Intellectual Property." *Nature Biotechnology*, vol. 40, no. 10, 2022, pp. 1454-1461.

This academic article examines the role of intellectual property during the COVID-19 pandemic, challenging common assumptions about its necessity and effectiveness in fostering innovation. The author argues that IP was not a significant driver of vaccine and antiviral development, which was primarily funded by government and philanthropic efforts. A major highlight addresses how IP restrictions delayed global access to vaccines and drugs and proposes a more proactive, open-science approach to drug development.

Grabowski, Henry G., et al. "The Roles of Patents and Research and Development Incentives in Biopharmaceutical Innovation." *Health Affairs*, vol. 34, no. 2, 2015, pp. 302-310.

This academic article examines the role of patents and other intellectual property protections in fostering innovation within the biopharmaceutical industry. The authors discuss the economic challenges and high costs associated with drug development, emphasizing the necessity of patents to ensure that companies can recoup their investments. The article analyzes legislative attempts to balance the need for innovation incentives with the benefits of generic drug competition. It also explores alternative incentive mechanisms, such as prizes and government contracting, and their potential to address gaps in the current system.

Gurgula, Olga. "Strategic Patenting by Pharmaceutical Companies – Should Competition Law Intervene?" *International Review of Industrial Property and Copyright Law*, vol. 51, no. 9, 2020, pp. 1062-1085, <https://doi.org/10.1007/s40319-020-00985-0>.

This study explores the relationship between the patenting of pharmaceuticals and drug prices. The author explores many of the common reasons for high and increasing drug prices and finds that “strategic patenting” is a significant contributor to the problem. Major pharmaceutical companies have engaged in a patenting practice that intentionally delays or blocks competition from generic alternatives. Despite attention from the European Union, no major agreement has been reached to challenge or alter the legality of these practices at the time of the article’s publication. In addition to raising drug prices, strategic patent can stifle competition in the market place. The author provides a comprehensive overview of this practice through a detailed examination of competition with the pharmaceutical industry.

Hemel, Daniel J., and Lisa Larrimore Ouellette. "Innovation Institutions and the Opioid Crisis." *Journal of Law and the Biosciences*, vol. 7, no. 1, 2020, pp. 1-52.

This academic article examines the relationship between U.S. innovation policies and the opioid crisis. The authors argue that the legal frameworks governing intellectual property and innovation significantly contributed to the development and widespread distribution of addictive painkillers like OxyContin. The authors highlight how these policies not only facilitated the commercialization of such drugs but also restricted access to opioid antidotes and failed to promote investment in non-addictive pain treatments. By analyzing the role of innovation institutions, the article provides a critical perspective on how robust intellectual property rights protections for the pharmaceutical industry can result in unexpected and negative health outcomes.

Hilberg, Eva. "The Terra Nullius of Intellectual Property." *Ethics & International Affairs*, 2022, pp. 125-134.

This essay examines the colonial legacy embedded within the intellectual property system, particularly in the context of global health and access to medicines. The author argues that the IP system's foundational assumption of the world as terra nullius—a blank canvas available for claiming—continues to marginalize non-Western models of ownership and traditional knowledge systems. Through historical and contemporary examples, such as the pricing of insulin and the distribution of COVID-19 vaccines, the essay highlights how IP laws favor the interests of IP owners over those of the "sources" of materials and the recipients of medical products. The author calls for a recognition of this exclusionary legacy and suggests reforms to create more equitable access to health technologies.

Hunt, Paul. "Interpreting the International Right to Health in a Human Rights-Based Approach to Health." *Health and Human Rights Journal*, vol. 18, no. 2, 2016, pp. 109-130.

In this article, a professor at the University of Essex and former UN Special Rapporteur on the right to health, explores the evolving role of the international right to health. The author emphasizes the unique qualities of the right to health that are not provided by other rights and calls for its explicit inclusion in rights-based health strategies. The article discusses the legal foundation of a right to health in the context of international law. The author reviews major treaties on the subject and provides an informative basis for understanding major arguments related to providing equitable access to medicines and pharmaceutical treatments.

Jung, Youn, and Soonman Kwon. "The Effects of Intellectual Property Rights on Access to Medicines and Catastrophic Expenditure." *International Journal of Health Services*, vol. 45, no. 3, July 2015, pp. 507-529.

This empirical study investigates the impact of intellectual property rights on access to medicines and the associated financial burdens in low and middle-income countries. Using data from the World Health Surveys, the authors employ statistical analyses to reveal that higher levels of IPR protection correlate with reduced access to prescribed medicines, especially in middle-income countries. The study underscores the complex relationship between IPR enforcement and public health, highlighting the adverse effects of stringent IPR on medicine affordability and accessibility. The findings suggest that policy interventions are necessary to balance the protection of pharmaceutical innovations with the need to ensure equitable access to essential medicines.

Kinney, Eleanor D. "The International Human Right to Health: What Does This Mean for Our Nation and World?" *Indiana Law Review*, vol. 34, no. 4, 2001, pp. 1457-1475.

In this article, a professor of law and co-director of the Center for Law and Health at the Indiana University School of Law, explores the concept of the international human right to health and its implications for both the United States and the global community. The author discusses the evolving nature of international human rights law and how it may provide a legal framework for recognizing a right to health. She delves into the sources of international human rights law, including treaties and customary international law, and examines the challenges of defining and implementing the right to health. The article also highlights the potential impact of recognizing this right on national health policies and suggests strategies for its implementation and enforcement.

Khachigian, Levon M. "Pharmaceutical Patents: Reconciling the Human Right to Health with the Incentive to Invent." *Drug Discovery Today*, vol. 25, no. 7, July 2020, pp. 1135-1141.

This article explores the tension between the protection of intellectual property rights and the human right to access essential medicines, particularly within developed countries. The discussion centers on how patents incentivize pharmaceutical innovation while simultaneously posing challenges to the affordability and accessibility of medicines. The author delves into the implications of intellectual property laws under the TRIPS Agreement and the role of compulsory licensing in improving global access to medicines. This paper provides insight into the complex interplay between pharmaceutical patents and public health, offering suggestions for policy mechanisms that can balance innovation incentives with the need for equitable access to healthcare.

Lindsey, Brink. "Why Intellectual Property and Pandemics Don't Mix." *Brookings*, 3 June 2021, <https://www.brookings.edu/articles/why-intellectual-property-and-pandemics-dont-mix/>.



This commentary argues that traditional intellectual property protections, particularly patents, are ill-suited to address the urgent needs of a pandemic. The author discusses the Biden administration's support for waiving intellectual property protections for COVID-19 vaccines under the World Trade Organization's Agreement on Trade-Related Intellectual Property Rights. He contends that while waiving patents is not a complete solution, it is a necessary step to facilitate technology transfer, capacity expansion, and supply chain coordination. Lindsey emphasizes that the current pandemic highlights the need for a more direct government support model to incentivize pharmaceutical companies, suggesting that such an approach would better align private profits with public health goals.

Love, James, and Tim Hubbard. "Prizes for Innovation of New Medicines and Vaccines." *Annals of Health Law*, vol. 18, no. 2, Summer 2009, pp. 155-186.

This article explores the concept of using prizes as an incentive for the development of new medicines and vaccines. The authors argue that the current patent-based system for rewarding pharmaceutical innovation is inefficient, costly, and limits access to new treatments. They propose a prize-based system where developers are rewarded based on the health impact of their products, rather than through market exclusivity granted by patents. This approach aims to separate the market for innovation from the market for products, thereby reducing drug prices and improving access while still encouraging significant investment in research and development.

Mike, Jennifer H. M. "Access to Essential Medicines to Guarantee Women's Rights to Health: The Pharmaceutical Patents Connection." *Journal of World Intellectual Property*, vol. 23, no. 3-4, 2020, pp. 162-204.

In this article, a scholar from the School of Law at the American University of Nigeria explores the critical intersection between pharmaceutical patents and women's rights to health. The paper argues that access to essential medicines is a fundamental human right and that the current patent system often hinders this access, particularly for women in developing countries. The author discusses the adverse impacts of international and national patent laws on public health and advocates for the design, interpretation, and implementation of patent rights that align with the right to health. The article is divided into four parts: it examines socio-economic, cultural, and legal factors affecting women's health; discusses international legal commitments to women's health rights; analyzes the relationship between patents and access to medicines under the TRIPS Agreement; and concludes with recommendations for enhancing women's access to medicines.

Millum, Joseph. "Are Pharmaceutical Patents Protected by Human Rights?" *Journal of Medical Ethics*, vol. 34, no. 11, pp. 1-20.

In this article, a field expert at the National Institute of Health explores the relationship between pharmaceutical patents and human rights, particularly the right to health. The author discusses how the International Bill of Rights includes a right to access essential medicines, which often conflicts with the intellectual property rights that protect pharmaceutical innovations. He critiques current international attempts to resolve this conflict, arguing that it fails to provide a compelling moral justification for prioritizing health rights over intellectual property rights. Millum proposes a new framework that examines the underlying values of human rights to better address this issue.

Motari, Marion, et al. "The Role of Intellectual Property Rights on Access to Medicines in the WHO African Region: 25 Years after the TRIPS Agreement." *BMC Public Health*, vol. 21, no. 1, 2021, pp. 1-19.

This study assesses the impact of intellectual property rights on access to medicines in the WHO African Region, focusing on the period following the adoption of the TRIPS Agreement with an emphasis on experiences learned HIV/AIDS, Ebola, and COVID-19 pandemics. Through an analysis of patent data and a review of national legislation, the authors find that patenting activity in African countries is low, with South Africa and Cameroon being notable exceptions. The research highlights that many countries have implemented TRIPS flexibilities, such as compulsory licensing and parallel importation, to improve access to medicines. However, challenges remain, including the need for stronger local manufacturing capabilities and more robust implementation of TRIPS flexibilities. Finding a tension between intellectual property rights and public health interests, the study underscores the importance of regional cooperation and the role of international organizations in supporting policy adjustments to enhance public health outcomes.

Narayan, Monika. "Pharmaceutical Patents, Public Health and the Pandemic." *Economic and Political Weekly (Engage)*, vol. 59, no. 11, 16 Mar. 2024, <https://www.epw.in/engage/article/pharmaceutical-patents-public-health-and-pandemic>.

This article provides a critical examination of the role of pharmaceutical patents in the context of public health, particularly during the COVID-19 pandemic. It highlights the tension between intellectual property rights and the accessibility of essential medicines. The author argues that while patents incentivize innovation by granting temporary monopolies, they also contribute to high drug prices and restricted access, particularly in developing countries. Narayan discusses the historical and economic underpinnings of patents, including their role in the TRIPS agreement, and critiques practices such as "evergreening" and "pay-for-delay" that extend patent monopolies beyond their original terms.

Owoeye, Olasupo Ayodeji. "Patents and the Obligation to Protect Health: Examining the Significance of Human Rights Considerations in the Protection of Pharmaceutical Patents." *Journal of Law and Medicine*, vol. 21, 2014, pp. 900-919.

This article explores the intersection of patent protection and the human right to health, particularly in the context of access to medicines. The author argues that international human rights law, despite its limitations, can be leveraged to ensure that intellectual property laws do not hinder public health. The article critically examines the TRIPS agreement and the Doha Declaration, highlighting their provisions for flexibility in protecting public health. The author concludes that while the right to health may not be directly enforceable in international law, its association with enforceable rights like the right to life can justify using IP law flexibilities to improve access to medicines.

Park, Sung-Pil, et al. "Designing the Global Vaccine Supply Chain: Balancing Intellectual Property Rights with Post COVID-19 Vaccine Equity." *BMJ Global Health*, vol. 8, 2023, <https://gh.bmj.com/content/8/11/e013669>.

This article explores the challenges and potential solutions for creating a more equitable global vaccine supply chain in the post-COVID-19 era. The authors conducted a comprehensive literature review, identifying significant barriers such as the complexity of intellectual property rights, lack of manufacturing capacity in less-developed countries (LDCs), and geopolitical tensions. They propose a Comprehensive Compulsory License System (CCLS) that integrates the TRIPS compulsory license system with a third-party beneficiary mechanism. This approach aims to balance the interests of vaccine developers and the global community, ensuring fair compensation while improving vaccine access.

Pedraza-Fariña, Laura G. "The Intellectual Property Turn in Global Health: From a Property to a Human Rights View of Health." *Osiris*, vol. 36, 2021, pp. 241-261.

This article examines the shift in international intellectual property law for pharmaceuticals from a property-centric to a human rights-focused perspective. The author traces the historical and legal developments that led to the World Health Organization adopting an economic understanding of IP to advocate for regulatory autonomy in curtailing IP rights to protect human rights. The article critically analyzes the role of the WTO and WHO in shaping global health policies and highlights the paradox of the view of global health that emerged, focusing on patentable medicines and technologies. This work provides a foundational understanding of the interplay between IP law, global health, and human rights, and it provides a nuanced perspective on the evolution of global health governance.

Perehudoff, Katrina, et al. "A Pandemic Treaty for Equitable Global Access to Medical Countermeasures: Seven Recommendations for Sharing Intellectual Property, Know-How and Technology." *BMJ Global Health*, vol. 7, 2022, pp. 1-5.

This article discusses the shortcomings in the global response to the COVID-19 pandemic, particularly focusing on the inequities in access to medical countermeasures such as vaccines, therapeutics, diagnostics, and personal protective equipment. The authors argue that current international health and intellectual property laws fail to ensure equitable distribution of these essential tools during global health crises. They propose seven key recommendations for a potential pandemic treaty aimed at improving global access to medical countermeasures. These recommendations include ensuring sufficient financing for biomedical research and development, creating conditions for licensing government-funded R&D, mandating technology transfer, sharing intellectual property, and streamlining regulatory standards. The article emphasizes the importance of transparency and inclusive governance in achieving these goals.

Rutschman, Ana Santos. "Technology Specificity and Equitable Access to Pharmaceuticals." *Northwestern Journal of Technology and Intellectual Property*, vol. 21, no. 1, 2023, pp. 58-76.

In this article, the author explores the concept of "technology specificity" as a strategy to address the inequitable distribution of pharmaceuticals, particularly during pandemics and epidemics. The article argues that current intellectual property frameworks and proprietary mechanisms contribute to the unequal allocation of life-saving medicines, often disadvantaging populations in lower-income countries. By advocating for technology-specific approaches, the author suggests that policymakers can better facilitate the transfer and scaling up of pharmaceutical production, thereby improving access in underprivileged regions. The article provides a detailed analysis of how technology specificity can be integrated into existing legal and policy frameworks to promote more equitable access to pharmaceuticals.

Sariola, Salla. "Intellectual Property Rights Need to Be Subverted to Ensure Global Vaccine Access." *BMJ Global Health*, vol. 6, 2021, pp. 1-3.

The author of this article argues that intellectual property rights are a significant barrier to global vaccine access, particularly in low-income and middle-income countries (LMICs). The article critiques the current structure of IPRs, which prioritize pharmaceutical industry profits over public health, and highlights the inequities exacerbated by these protections during the COVID-19 pandemic. It discusses the limitations of philanthropic programs and calls for a social movement to subvert IPRs to ensure equitable vaccine distribution. The author also references historical precedents, such as the use of compulsory licensing for antiretrovirals in the early 2000s, to illustrate the potential benefits of waiving patents.

Saxell, Tanja, et al. "Optimal Patent Policy for Pharmaceuticals: Balancing Innovation and Access to New Drugs." *Center for Economic Policy Research*, 25 Aug. 2020,

<https://cepr.org/voxeu/columns/optimal-patent-policy-pharmaceuticals-balancing-innovation-and-access-new-drugs>.

This article examines the trade-off between incentivizing pharmaceutical innovation and ensuring access to affordable medicines through patent policy. The authors analyze comprehensive data from the U.S. Food and Drug Administration and the U.S. Patent and Trademark Office, using quasi-experimental approaches to estimate the elasticity of patent challenges with respect to patent terms and scope. Their findings suggest that longer patent terms inefficiently promote drug development by increasing incentives for patent challenges. The authors propose that government policies should focus on shorter-lived patents with broader scope to optimally balance innovation and access to new drugs.

Sterckx, Sigrid. "Patents and Access to Drugs in Developing Countries: An Ethical Analysis." *Developing World Bioethics*, vol. 4, no. 1, 2004, pp. 58-75.

This article explores the ethical implications of the patent system on access to essential drugs in developing countries. The paper provides a detailed analysis of the global patent regime established by the WTO-TRIPs Agreement and its impact on drug availability. The author evaluates the moral justifications for drug patents based on natural rights, distributive justice, and utilitarian arguments, ultimately questioning their validity in the context of developing nations. The article also discusses the Doha Declaration on the TRIPs Agreement and Public Health, highlighting its significance in prioritizing public health over patent rights.

t'Hoen, Ellen. *Private Patents and Public Health: Changing Intellectual Property Rules for Access to Medicines*. Health Action International, 2016.

This book explores the intersections between intellectual property laws and public health outcomes, particularly in the context of access to essential medicines. The author attempts to highlight the historical and ongoing challenges posed by high drug prices and restrictive patent laws, which often prevent equitable access to life-saving treatments in lower-income countries. This work traces the development of trade dynamics, intellectual property laws, and public health since the 1950s. A timeline of key events helps acclimate readers to the important history and themes related to this specific debate topic. The author argues that decades of intellectual law primacy for the pharmaceutical industry has resulted in disproportionate health outcomes for developing countries. This book concludes by proposing alternatives which would relax IP laws in favor of promoting equitable health outcomes.

Tenni, Brigitte, et al. "What is the impact of intellectual property rules on access to medicines? A systemic review." *Globalization and Health*, vol. 18, no. 40, 2022, pp. 1-40.

This systematic review evaluates the impact of intellectual property rules on access to medicines by analyzing 91 studies published between 1995 and 2020. The review focuses on the effects of the World Trade Organization's Agreement on Trade-Related Aspects of Intellectual Property Rights and TRIPS-plus provisions on drug prices, availability, and costs. The authors identify five broad themes: trade agreements, TRIPS flexibilities, patent expiry, patent policies, and TRIPS-plus rules. Their findings suggest that stronger IP rules, especially TRIPS-plus provisions, are associated with increased drug prices and delayed availability, posing significant barriers to access, particularly in low- and middle-income countries. This work is significant as it consolidates a wide range of empirical evidence, highlighting the need for careful consideration of IP policies to balance innovation incentives with public health needs.

Thrasher, Rachel. "Why Innovation Would Survive a COVID-19 TRIPS Waiver." *IPWatchdog*, 24 Mar. 2021, <https://ipwatchdog.com/2021/03/24/innovation-survive-covid-19-trips-waiver/id=131194/>

This article explores the implications of the TRIPS waiver for COVID-19-related products, including vaccines. The author argues that while the waiver is not sufficient on its own to ensure widespread vaccination, it is a crucial component of a broader strategy. This article contends that the waiver will not significantly threaten intellectual property protections in the long run and will help address production bottlenecks and inequitable distribution of vaccines. A discussion also addresses the concerns of pharmaceutical companies regarding the potential impact on future innovation and pandemic preparedness. It concludes that the TRIPS waiver is a necessary step to facilitate increased and rapid production of vaccines during the global health crisis.

Vanni, Amaka. "On Intellectual Property Rights, Access to Medicines and Vaccine Imperialism." *Third World Approaches to International Law Review*, no. 32, Mar. 2021, <https://twailr.com/on-intellectual-property-rights-access-to-medicines-and-vaccine-imperialism/>.

This article critically examines the role of intellectual property rights in global health, focusing on how the current international IP regime impacts access to medicines and vaccines, particularly in the context of the COVID-19 pandemic. The author argues that the current international system for IP law is unsuitable for addressing global health emergencies and perpetuates inequities in healthcare access. A detailed discussion is provided to analyze how the TRIPS Agreement, vaccine hoarding by developed countries, and corporate practices like evergreening patents contribute to health disparities along racial and economic lines. A central criticism presented in this research concerns the notion that strong IP protections contribute to a form of "vaccine imperialism" where wealthy

nations maintain power over lower income nations at the expense of global public health.

Weilbaeher, Ann. "Diseases Endemic in Developing Countries: How to Incentive Innovation." *Annals of Health Law*, vol. 18, no. 2, Summer 2009, pp. 281-310.

This article examines the challenges and potential solutions for incentivizing the development of treatments for diseases prevalent in developing countries. It discusses the high costs and lengthy processes associated with drug development, which deter pharmaceutical companies from investing in treatments for diseases that are not profitable. The author explores various strategies to promote research and development in this area, including open-source initiatives, patent pools, and prize funds. She also critiques the current patent system and proposes alternative models, such as wild card patent extensions, to encourage innovation.

Zaman, Khorsed. "Decolonizing Human Rights Law in Global Health - the Impacts of Intellectual Property Law on Access to Essential Medicines: A Perspective from the COVID-19 Pandemic." *Asian Journal of International Law*, Cambridge University Press, 2024, pp. 1-18.

In this article, the author examines the impact of intellectual property laws on access to essential medicines during the COVID-19 pandemic, highlighting the disparities between high-income countries (HICs) and low- and middle-income countries (LMICs). They argue that the stringent enforcement of IP rights by major pharmaceutical manufacturers and affluent nations has exacerbated global health inequalities, particularly in vaccine distribution. The study advocates for a decolonized approach to human rights in global health, emphasizing the need for policy shifts that prioritize equitable access to medicines. The author's critical legal analysis underscores the necessity of integrating human rights principles into the framework of IP laws to address systemic disparities in global public health.

## Resources for the Negative

Ashwin, Anokhi, et al. "Balancing Innovation and Access: The Impact of the TRIPS Waiver on Intellectual Property and Global Public Health." *Georgetown International Research Group*, 2023, <https://repository.library.georgetown.edu/handle/10822/1087872>.

This research paper explores the implications of the TRIPS waiver on intellectual property rights and global public health, particularly in the context of the COVID-19 pandemic. The authors provide a historical overview of intellectual property laws, tracing their evolution from the Paris Convention in 1883 to the establishment of the World Trade Organization in 1995. The paper delves into the contentious debate between protecting pharmaceutical innovations and ensuring public access to life-saving technologies. It highlights the disparities in vaccine access during the COVID-19 pandemic and examines the potential long-term impacts of the TRIPS waiver on future pharmaceutical innovations. The authors argue that while the waiver aims to address immediate public health needs, it may also discourage investment in new treatments, posing a challenge to maintaining a dynamic and innovative pharmaceutical industry.

Bacchus, James. "An Unnecessary Proposal: A WTO Waiver of Intellectual Property Rights for COVID-19 Vaccines." *Cato Institute*, 2020, [https://www.cato.org/sites/cato.org/files/2020-12/FTB\\_78.pdf](https://www.cato.org/sites/cato.org/files/2020-12/FTB_78.pdf).

In this article, a former U.S. Trade Representative critically examines the waiver of intellectual property rights for COVID-19 vaccines under the World Trade Organization framework. The author argues that such a waiver is unnecessary and could lead to prolonged debates and political struggles within the WTO, ultimately delaying the resolution of global health crises. He highlights the historical context of IP rights and access to medicines, drawing parallels to the HIV/AIDS crisis. The author contends that the existing flexibilities within the WTO's Agreement on Trade-Related Aspects of Intellectual Property Rights are sufficient to address public health emergencies without compromising the incentives for pharmaceutical innovation.

Bauer, Matthias. "On the Importance of Intellectual Property Rights for the Production of High-Value Medicines in the EU." *European Centre for International Political Economy*, Feb. 2022, <https://ecipe.org/publications/intellectual-property-rights-for-medicines-in-eu/>.

This policy brief explores the role of intellectual property rights (IPRs) in fostering innovation and production within the EU pharmaceutical sector. The author argues that strong IPRs are essential for incentivizing private-sector investments in pharmaceutical research and development (R&D), which in turn supports the production of high-value medicines. The paper suggests that



weakening IPRs could weaken the EU's pharmaceutical competitiveness and diminish the global supply of medical goods.

Borges, Christopher. "TRIPS Waivers and Pharmaceutical Innovation." *Center for Strategic and International Studies*, 15 Mar. 2023, <https://www.csis.org/blogs/perspectives-innovation/trips-waivers-and-pharmaceutical-innovation>.

This article explores the implications of the World Trade Organization's waiver of intellectual property protections for COVID-19 vaccine patents. The author discusses the rationale behind the waiver, its intended short-term benefits, and its long-term impacts on biopharmaceutical innovation. The report argues that while the waiver aimed to increase vaccine production and accessibility, it has had minimal impact due to existing distribution challenges and reduced demand. The author also highlights concerns that expanding the waiver could disincentivize future pharmaceutical innovation by undermining intellectual property protections. This article provides a comprehensive analysis of the TRIPS waiver's effectiveness and its broader implications for global health and innovation.

Clancy, Dean. "Why Government Confiscation of Drug Patents Is the Wrong Way to Increase Competition and Reduce Prices." *Americans for Prosperity*, 18 Dec. 2023, <https://americansforprosperity.org/blog/why-government-confiscation-of-drug-patents-is-the-wrong-way-to-increase-competition-and-reduce-prices/>.

This article argues against proposals to confiscate pharmaceutical drug patents as a means to control drug prices. The author contends that such policies would stifle innovation, discourage private investment, and ultimately harm patient health by delaying access to new treatments. He explains that the legislative tools to control drug prices and restrict intellectual property rights could lead to significant negative economic and health impacts. The article advocates for alternative solutions to make healthcare more affordable without government intervention.

Cockburn, Iain, and Genia Long. "The Importance of Patents to Innovation: Updated Cross-Industry Comparisons with Biopharmaceuticals." *Expert Opinion on Therapeutic Patents*, vol. 25, no. 7, 2015, pp. 739-742.

This article explores the critical role of patents in fostering innovation within the biopharmaceutical industry compared to other sectors. The authors provide a comprehensive analysis of various studies and surveys, highlighting the unique economic characteristics that make patents essential for pharmaceutical R&D. They argue that patents are more crucial in the biopharmaceutical industry due to the high costs, lengthy development times, and significant risks associated with bringing new drugs to market. The article also discusses the impact of regulatory exclusivity and the importance of patents in attracting investment for early-phase companies.

Cueni, Thomas. "The Risk in Suspending Vaccine Patent Rules." *The New York Times*, 10 Dec. 2020, <https://www.nytimes.com/2020/12/10/opinion/coronavirus-vaccine-patents.html>.

In this opinion piece, the director general of the International Federation of Pharmaceutical Manufacturers and Associations argues against the suspension of intellectual property protections for COVID-19 vaccines. The author contends that such moves would undermine future medical innovation and jeopardize the development of new medicines. He emphasizes the importance of patents in incentivizing pharmaceutical research and development, highlighting the risks and costs associated with bringing new drugs to market. The article also addresses concerns about global vaccine distribution, suggesting that the real challenge lies in manufacturing capacity rather than patent protections.

De George, Richard T. "Intellectual Property and Pharmaceutical Drugs: An Ethical Analysis." *Business Ethics Quarterly*, vol. 15, no. 4, 2005, pp. 549-575.

This article explores the ethical implications of intellectual property rights within the pharmaceutical industry. The author critically examines the tension between the pharmaceutical companies' need to protect their intellectual property to recoup research and development costs and the moral obligation to make life-saving drugs accessible to those in need, particularly in less developed countries. He reviews the major moral arguments on each side of the debate and argues for a balance between protecting intellectual property while also ensuring access to essential medicines, suggesting the development of an international code for self-regulation within the industry.

*FTI Consulting*. "The Role of Intellectual Property in the Biopharmaceutical Sector.", Sept. 2022, [https://www.ifpma.org/wp-content/uploads/2023/01/i2023\\_2022\\_The-role-of-IP-in-the-biopharmaceutical-sector.pdf](https://www.ifpma.org/wp-content/uploads/2023/01/i2023_2022_The-role-of-IP-in-the-biopharmaceutical-sector.pdf).

This report, commissioned during the COVID-19 pandemic, addresses the international debate regarding the relaxation of intellectual property rights for pharmaceutical products. The report provides evidence to challenge proposals to weaken intellectual property rights protections. Economic models are utilized to demonstrate that IPR waivers can undermine long-term medical innovation and result in non-socially optimal outcomes. After considering the interests of high-income, middle-income, and low-income countries, the report provides compelling evidence to support the position that protecting intellectual property rights should be prioritized over equitable pharmaceutical access.

Gawel, Claus R. "Patent Protection as a Key Driver for Pharmaceutical Innovation." *Pharmaceuticals Policy and Law*, vol. 18, 2016, pp. 45-53.

This academic article examines the critical role of patent protection in fostering pharmaceutical innovation. The author argues that a robust patent system is essential for attracting the necessary financial investments to support high-risk pharmaceutical research and development. The article delves into the economic implications of patents, emphasizing their importance in regions with limited access to capital markets. Arguments are supported with empirical evidence, highlighting the positive impact of patents on R&D spending and drug approvals. The article also addresses common criticisms regarding the potential of patents to hinder access to medicines, concluding that patents are more likely to facilitate innovation and, indirectly, the availability of generic drugs.

Helfer, Laurence R. "Human Rights and Intellectual Property: Conflict or Coexistence?" *Minnesota Intellectual Property Review*, vol. 5, no. 1, 2003, pp. 47-61.

In this legal article, the author explores the relationship between human rights and intellectual property law, which have historically evolved in isolation but are now increasingly intersecting. The author examines two primary conceptual frameworks: one that views human rights and IP as fundamentally conflicting, and another that sees them as potentially compatible. The article delves into the historical separation of these two legal regimes and the recent developments that have brought them into closer interaction, such as the rights of indigenous peoples and the implications of the TRIPS Agreement. They argue that equitable access to healthcare does not need to conflict with or take priority over the protection of intellectual property.

Ho, Calvin W. L., and Klaus M. Leisinger. "Intellectual Property and Access to Essential Medicines: A Tenuous Link?" *Asian Bioethics Review*, vol. 5, no. 4, Dec. 2013, pp. 376-382.

This academic article analyzes the purported tradeoff between intellectual property rights and access to essential medicines. The authors argue that even though intellectual property rights, such as patents, can create higher prices for medicine, equitable access involves addressing issues that go beyond the limiting influence of intellectual property rights. The authors highlight the need for a balanced approach that encourages drug development while ensuring that essential medicines are affordable and accessible to those in need. They emphasize the importance of multi-stakeholder collaboration, including the roles of pharmaceutical companies, governments, and international organizations, to address these challenges.

Holman, Christopher M. "Inside Views: Why Follow-On Pharmaceutical Innovations Should Be Eligible for Patent Protection." *Intellectual Property Watch*, 21 Sept. 2018, [www.ip-watch.org/2018/09/21/inside-views-follow-pharmaceutical-innovations-eligible-patent-protection/](http://www.ip-watch.org/2018/09/21/inside-views-follow-pharmaceutical-innovations-eligible-patent-protection/).

This article argues for the benefits of strong intellectual property rights in the pharmaceutical industry. The author contends that strong IP rights are essential to the innovative process and do not necessarily contribute to inequitable health outcomes. The article addresses common criticisms such as "evergreening" and highlights the importance of a balanced patent system that encourages ongoing pharmaceutical development.

Ito, Banri. "Impacts of the vaccine intellectual property rights waiver on global supply." *Center for Economic Policy Research*, 8 Aug. 2021, <https://cepr.org/voxeu/columns/impacts-vaccine-intellectual-property-rights-waiver-global-supply>.

This article explores the impacts of intellectual property rights waivers on global vaccine supplies. The author argues that the most efficient way to have achieved an equitable distribution of vaccines during the COVID-19 pandemic would have been to concentrate vaccine production in a small number of countries with established pharmaceutical industries. Although vaccine waivers can facilitate technology transfers to lower income countries, inherent economic obstacles such as economies of scale can inhibit the rapid production and distribution of vaccines in these countries.

Katopis, Chris. "A Cure Worse Than the Disease? Proposed Changes to European Patent Law are Threatening Pharmaceutical Innovation." *Center for Intellectual Property & Innovation Policy*, 16 Nov. 2018, <https://cip2.gmu.edu/2018/11/16/a-cure-worse-than-the-disease-proposed-changes-to-european-patent-law-are-threatening-pharmaceutical-innovation/>.

This article examines the potential negative impacts of proposed changes to European patent law on pharmaceutical innovation. The author argues that the proposed changes, which include waiving Supplementary Protection Certificates (SPCs) for pharmaceuticals, could undermine the balance between innovation and public health. The author highlights the importance of SPCs in providing necessary legal protection and incentives for the development of new drugs, which are essential for public health and economic growth. The article is a comprehensive analysis of the legal and economic implications of the proposed changes, providing valuable insights into an international pharmaceutical industry.

Khachigian, Levon M. "Pharmaceutical Patents: Reconciling the Human Right to Health with the Incentive to Invent." *Drug Discovery Today*, vol. 25, no. 7, 2020, pp. 1135-1141.

This article explores the complex intersection between pharmaceutical patents and the human right to health. The author delves into the tension between incentivizing pharmaceutical innovation through intellectual property rights and ensuring access to essential medicines, particularly in developed countries.

Khachigian discusses the role of compulsory licensing and alternative mechanisms to enhance global access to drugs. The review examines the historical context of patent systems and its evolution, the impact of international agreements like TRIPS, and the challenges faced by less prosperous countries in accessing essential medicines.

Kingyon, Brenna L. "IP Waivers in a Pandemic: Great in Theory, Wrong in Practice." *Journal of Corporation Law*, vol. 48, no. 1, 2024, pp. 165-182.

This law review article examines the implementation of intellectual property waivers during the COVID-19 pandemic, particularly focusing on the TRIPS waiver. The author argues that while the intention behind IP waivers to increase global access to COVID-19 vaccines is commendable, the practical implications are fraught with challenges. The article contends that IP waivers are unlikely to solve the global vaccine shortage due to significant barriers such as manufacturing complexities, supply chain issues, and the lack of necessary infrastructure in lower-middle-income countries. Furthermore, the author suggests that IP waivers could impede innovation within the pharmaceutical industry by undermining the incentives for companies to invest in research and development. Instead, the article recommends alternative solutions like compulsory licensing and incentivized voluntary licensing to address vaccine inequality while preserving the incentives for pharmaceutical innovation.

Kuhlik, Bruce N. "The Assault on Pharmaceutical Intellectual Property." *University of Chicago Law Review*, vol. 71, no. 1, 2004, pp. 93-156.

In this law review article, the author examines the important role of intellectual property rights in the pharmaceutical industry. The author argues that limits on intellectual property undermine the value and innovative potential of the pharmaceutical industry. He emphasizes that such measures could stifle innovation by reducing the financial incentives necessary for the development of new drugs. The essay concludes by providing evidence to support the view that strong intellectual property laws and pharmaceutical innovation are net-good for society and that limits on intellectual property rights produce underinvestment in the industry.

Martin, Alice O., and Sendil K. Devades. "Patents with an I = Patients." *Annals of Health Law*, vol. 18, no. 2, Summer 2009, pp. 261-280.

This academic journal article explores the relationship between patents and patient care, arguing that patents play a crucial role in bringing diagnostic tools and therapeutic products to the public through commercialization. The authors discuss the impact of the legislation and the judicial cases in the United States and highlight how these legal frameworks have facilitated the development of numerous biotechnology products. They also address the criticisms of the patent

system, particularly the claim that it stifles innovation and public access to beneficial inventions.

Mossoff, Adam, and Amesh Adalja. "Patents as a Driver of the Unprecedented Biomedical Response to COVID-19." *INQUIRY: The Journal of Health Care Organization, Provision, and Financing*, vol. 59, 2022, pp. 1-8.

In this article, the authors argue that patents played a crucial role in the rapid development and distribution of COVID-19 vaccines. They contend that the biotech and pharmaceutical sectors' unprecedented response to the pandemic was facilitated by a robust intellectual property framework that incentivized innovation and investment. The authors dispute claims that patents hindered vaccine distribution, instead pointing to regulatory barriers, lack of infrastructure, and trade restrictions as the primary obstacles. The article provides a comprehensive analysis of the economic and medical uncertainties involved in vaccine production and highlights the importance of maintaining strong patent protections to support future biomedical advancements.

Nicol, Dianne. "Balancing Access to Pharmaceuticals with Patent Rights." *Monash Bioethics Review*, vol. 22, no. 2, 2003, pp. 54-78.

This article explores the complex issue of balancing patent rights with the need for access to essential pharmaceuticals in developing countries. The author discusses the international negotiations surrounding the TRIPS Agreement and the Doha Declaration, emphasizing the moral and practical challenges of ensuring affordable access to medicines while maintaining incentives for pharmaceutical innovation. The article highlights the role of compulsory licensing as a potential solution and examines the limitations and practical difficulties associated with this approach, particularly for countries with insufficient manufacturing capacities.

Rake, Bastian. "Waiving Intellectual Property Rights: Boom or Bust for Medical Innovation?" *Drug Discovery Today*, vol. 27, no. 2, Feb. 2022, pp. 384-389.

This article explores the implications of waiving intellectual property rights related to COVID-19 vaccines and treatments. The author discusses the potential short-term and long-term consequences of such waivers on medical innovation, particularly for entrepreneurial companies and low- and middle-income countries. He argues that while waiving IPRs might increase access to vaccines in the short term, it could undermine incentives for innovation and reduce knowledge transfer, ultimately harming global health outcomes. The article provides a comprehensive analysis of the role of patents in incentivizing innovation and the potential negative impacts of IPR waivers on the biotechnology and pharmaceutical industries. Rake concludes that alternative measures, such as international cooperation and support for knowledge transfer, would be more effective in addressing global health challenges.

Resnik, David B. "Developing Drugs for the Developing World: An Economic, Legal, Moral, and Political Dilemma." *Developing World Bioethics*, vol. 1, no. 1, 2001, pp. 11-32.

This comprehensive article explores the multifaceted challenges faced by pharmaceutical companies in developing drugs for the developing world. The author argues that large, global pharmaceutical companies have social responsibilities to invest in research and development for diseases affecting developing nations, offer discounts on drug prices, and initiate drug giveaways. However, he notes that these responsibilities are not absolute and must be balanced against other obligations, such as economic viability and the creation of a productive business environment. Resnik emphasizes the importance of reciprocity and cooperation between pharmaceutical companies and developing nations, advocating for policies that honor pharmaceutical patents and promote a stable business environment to ensure that companies can make a reasonable profit.

Rinehart, Will. "Intellectual Property Underpinnings of Pharmaceutical Innovation: A Primer." *American Action Forum*, 29 July 2014, <https://www.americanactionforum.org/research/intellectual-property-underpinnings-of-pharmaceutical-innovation-a-primer/>.

In this comprehensive primer, the former Director of Technology and Innovation Policy at the American Action Forum explores the critical role of intellectual property in fostering pharmaceutical innovation. The document delves into the basics of patents, their economic implications, and their specific applications in the pharmaceutical industry. The author argues that patents are essential for encouraging research and development by ensuring that innovators can reap the benefits of their investments. He discusses the historical evolution of the U.S. patent system, including significant reforms like the Leahy-Smith America Invents Act. The primer also highlights the challenges faced by pharmaceutical companies, such as the high costs and risks associated with drug development and the stringent regulatory approval process as a reason why strong intellectual property rights are integral to the innovative process.

Salazar, Silvia. "Intellectual Property and the Right to Health." *World Intellectual Property Organization*, 1998, [https://www.wipo.int/edocs/mdocs/tk/en/wipo\\_unhchr\\_ip\\_pnl\\_98/wipo\\_unhchr\\_ip\\_pnl\\_98\\_3.pdf](https://www.wipo.int/edocs/mdocs/tk/en/wipo_unhchr_ip_pnl_98/wipo_unhchr_ip_pnl_98_3.pdf).

In this comprehensive paper, the author explores the intricate relationship between intellectual property rights, particularly patents, and the right to health. Salazar delves into the historical development of patent systems and their impact on the pharmaceutical industry, highlighting the controversies and debates that have arisen, especially between developed and developing countries. The paper

discusses the implications of the TRIPS Agreement, the challenges of access to medical resources, and the ethical considerations surrounding bioethics and biotechnology. The author's conclusion supports the position that actualizing a right to health requires a vibrant pharmaceutical industry supported by robust protection of intellectual property rights.

Speer, Kim. "Patent Protection for Pharmaceuticals: Ensuring Access to Enabling Innovation." *Health Law & Policy Brief*, vol. 5, no. 2, 2011, pp. 39-50.

This article explores the complex relationship between patent protection for pharmaceuticals and access to essential medicines in developing countries. The paper discusses the TRIPS Agreement, the Doha Declaration, and the 2003 WTO council decision, highlighting the tension between protecting intellectual property rights and ensuring public health. The author argues that IPR flexibilities that aim to improve access to medicine, such as compulsory licensing and parallel imports, may inadvertently reduce incentives for pharmaceutical innovation. The article concludes with recommendations for alternative approaches, including data exclusivity, cost-sharing mechanisms, prize funds, and price differentiation, to balance the need for innovation with the imperative of making medicines accessible in developing countries.

Stevens, Philip. "Why Voluntary Licensing Is Best for Increasing Access to Medicines." *IPWatchdog*, 10 Jan. 2023, <https://ipwatchdog.com/2023/01/10/voluntary-licensing-best-increasing-access-medicines/id=155117/>.

In this article, the author argues that voluntary licensing is a superior method for increasing access to medicines in low- and middle-income countries (LMICs) compared to compulsory licensing and the abrogation of intellectual property rights. This article highlights several advantages of voluntary licensing, including faster technology transfer, better quality assurance, and more flexible and sustainable collaboration between innovators and generic manufacturers. It provides examples of successful voluntary licensing programs, such as those for HIV and Hepatitis C treatments, and discusses their impact on patient access. The article emphasizes the importance of protecting intellectual property rights to foster innovation and maintain high standards in medicine production.

Stevens, Philip, and Stephen Ezell. "Delinkage Debunked: Why Replacing Patents With Prizes for Drug Development Won't Work." *Information Technology and Innovation Foundation*, Feb. 2020, <https://www2.itif.org/2020-life-sciences-delinkage.pdf>.

In this comprehensive report, the authors examine the proposal to replace the current patent-based system for incentivizing drug development with a prize-based model. They argue that such a shift would misalign incentives, increase bureaucratic costs, and ultimately stifle innovation. The authors highlight the



significant financial and operational challenges that would arise from implementing a prize system, including the difficulty of adequately funding prizes and the risk of political interference in the allocation process. They also emphasize the success of the current market-based system in driving biomedical innovation and caution against the potential negative impacts of abandoning it.

Sullivan, Thomas. "Pharmaceutical Companies Need Longer Patents to Fund Innovation." *Policy & Medicine*, 6 May 2023, <https://www.policymed.com/2012/04/pharmaceutical-companies-need-longer-patents-to-fund-innovation.html>.

This article argues that the pharmaceutical industry requires longer patent protection to sustain innovation and fund the development of new drugs. The author presents a detailed analysis of the challenges faced by the pharmaceutical industry, including increased development costs and regulatory hurdles. He emphasizes that the expiration of patents on blockbuster drugs threatens the financial stability of pharmaceutical companies, which in turn hampers their ability to invest in new research. The article advocates for extending patent life for the most innovative drugs to ensure continued medical advancements and economic stability within the industry. It also addresses counterarguments from critics who believe that longer patents would primarily benefit drug companies' profits rather than promote genuine innovation.