

Taylor Blackburn

Independent Study and Mentorship

Spiece 2A

Research Assessment

Date: February 17, 2017

Subject: Drug Patents

MLA Citations:

Chen, Hillary. "US Government First to Share Patents with Medicines Patent Pool." National Archives and Records Administration, 30 Sept. 2010. Web. 17 Feb. 2017.

Assessment:

As most of my original work and final product have been focused on the harmful effects of drug abuse, I decided to switch it up and write about a topic that is equally important in the pharmaceutical world: drug patents. The main thing about patents is that the company that they are first made as brand-name drugs with a patent lasting seven to twelve years. However, once the patent ends, any company can adopt essentially a copy of brand name drugs called generic drugs. Their pharmacological effects are exactly the same as those of their counterparts, including dosage, strength, side effects, and risks. This is important in my study into pharmacy as I can learn a new topic that is a basic but essential topic that is covered if I want to pursue this career that has to deal with drug companies daily.

One new advancement under Obama's administration that was enacted was the Medicines Patent Pool under Hillary Chen. She helped speed up the amount of time it took for medication to reach patients worldwide. This is effective because in developed and developing

countries all patients can reach their necessary drugs efficiently. Generic versions of medication allows for more companies to have access to the drug that allows more patients to be treated more effectively. The downside is that the original manufacturer and company of the product will not have the credibility because it is being mass produced by others. However, in my opinion, the positives outweigh the negatives. Therefore, I believe that this new innovation helps unite nations worldwide in a common goal to provide better healthcare for every person.

Specifically in the case of HIV, this disease causes the body to severely be limited in fighting off infections. Because no cure exists for HIV and AIDS, it is extremely beneficial to constantly have pharmaceutical companies collaborating on ways to restrict and inhibit the effects of AIDS on patients. Therefore, with more manufacturers invested in multiple patents in this Medicines Patent Pool, there is more affordability and accessibility for those underdeveloped countries to get the aid that they need in treating their populations by battling drug-resistant HIV infection. I think that this is incredibly moving how pharmacology companies advance other countries and promote other patents for the purpose of creating a more medically advanced world. Instead of focusing inwardly on monetary gain, the companies within this pool provide the support needed to sustain various drug patents.

This information that I have gained not only helps me gain a better understanding in a large branch of pharmacy, but it can be knowledge that I use towards making my final product. Drug patents are what allows a drug to be on the market to begin with, so it is invaluable to me that the effects of drugs can harm its intended patients. Therefore, with drug abuse it is important to have these medications regulated and approved by the FDA to ensure that for its intended purpose and dosage, the drug can do its best to help treat a disease.

US Government First to Share Patents with Medicines Patent Pool

SEPTEMBER 30, 2010 AT 8:00 PM ET BY HILLARY CHEN

Kudos to the National Institutes of Health (NIH) for being the first in the world to share patents with the newly established [Medicines Patent Pool](#)!

Just last week, President Obama signed a Presidential Policy Directive on Global Development that focuses on sustainable development outcomes and places a premium on broad-based economic growth, democratic governance, game-changing innovations, and sustainable systems for meeting basic human needs. The new Policy aims to leverage innovation to solve long-standing development challenges, encourage new models for innovation and to increase [developing countries' utilization of science and technology](#). A fact sheet on the policy appears on WhiteHouse.gov.

The initial contribution by the NIH and co-patent owner the University of Illinois at Chicago embodies these commitments and takes an important step toward making [affordable and appropriate HIV medicines available](#) to patients around the world. It builds on the President's previous commitment to support humanitarian licensing policies to ensure that medications developed with U.S. taxpayer dollars are available off-patent in developing countries. The patents—which previously have been licensed for the HIV drug darunavir—are relevant to protease inhibitor HIV medicines, which are primarily used to [treat drug-resistant HIV infection](#). The license to the Medicines Patent Pool stipulates that the technology will be available for the benefit of all low- and middle-income countries, as defined by the World Bank, and is royalty-free. The text of the licensing agreement is available on the [UNITAID website](#) (pdf).

The Medicines Patent Pool is supported by UNITAID, an innovative global health financing mechanism that was co-founded by Brazil, Chile, France, Norway and the United Kingdom at the United Nations General Assembly in 2006. It is a voluntary mechanism through which pharmaceutical patent holders can choose to license their patents to the Pool. The Pool then makes the licenses available to qualified third parties, such as generic drug manufacturers, which will pay appropriate royalties on the sale of the medicines for use in developing countries.

The Medicines Patent Pool is designed to:

- speed up the pace at which newer medicines reach patients;
- help bring prices down by encouraging competition among multiple producers; and
- facilitate new medicine formulations, including versions for children and versions in which several drugs are combined into a single pill.

As patent owners from around the world—including governments, companies, universities, non-profits, and individuals—license their HIV technologies to the Medicines Patent Pool, it will become a one-stop shop for efficient licensing of the technologies that are necessary for the production of generic versions of patented HIV medicines.

It's important to note that multiple patents are involved in each HIV medicine, so the patents licensed today are not sufficient to produce or sell any single drug. Thus it's critical that other patent holders also share their patents with the Pool.

As a global leader in research and development, the United States has an important catalyzing role to play in promoting voluntary mechanisms that will increase competition to provide innovative, affordable health technologies to people in low- and

middle-income countries. The U.S. contribution to the Medicines Patent Pool, combined with licenses from private-sector partners and governments from around the world, presents an exciting opportunity to do just that and promote access to medicines globally.

Again, kudos to the NIH and the Medicines Patent Pool!

Hillary Chen is Advisor to the Deputy Director for Policy in the White House Office of Science and Technology Policy

Rubric rating submitted on: 2/24/2017, 10:03:23 PM by speicee@friscoisd.org

	10	8	5	0
Understanding Your score: 10	Thoroughly describes and paraphrases the information. Thoroughly answers the question "What did you learn?"	Adequately describes and paraphrases the information. Adequately answers the question "What did you learn?"	Somewhat describes and paraphrases the information. Somewhat answers the question "What did you learn?"	Does not describe paraphrase the information. Does not answer the question "What did you learn?"
Applying Your score: 10	Thoroughly applies and illustrates the information. Thoroughly answers the following questions: "Why is this information relevant to you, your learning, your topic, and your ISM journey?"	Adequately applies and illustrates the information. Adequately answers the following questions: "Why is this information relevant to you, your learning, your topic, and your ISM journey?"	Somewhat applies and illustrates the information. Somewhat answers the following questions: "Why is this information relevant to you, your learning, your topic, and your ISM journey?"	Does not apply and/or illustrate the information. Does not answer the following questions: "Why is this information relevant to you, your learning, your topic, and your ISM journey?"
Analyzing Your score: 10	Thoroughly analyzes, examines, and breaks down the information. Thoroughly answers the questions: What are the key parts of this information? How can it be classified?	Adequately analyzes, examines, and breaks down the information. Adequately answers the questions: What are the key parts of this information? How can it be classified?	Somewhat analyzes, examines, and breaks down the information. Somewhat answers the questions: What are the key parts of this information? How can it be classified?	Does not analyze, examine, and break down the information. Does not answer the questions: What are the key parts of this information? How can it be classified? Does not connect to

	Thoroughly connects to prior knowledge and thoroughly explains whether or not the information changed or modified prior knowledge	Adequately connects to prior knowledge and thoroughly explains whether or not the information changed or modified prior knowledge	Somewhat connects to prior knowledge and thoroughly explains whether or not the information changed or modified prior knowledge	prior knowledge and does not explain whether or not the information changed or modified prior knowledge
Synthesizing Your score: 10	Thoroughly synthesizes prior knowledge with new learning to demonstrate continuous growth of knowledge. Thoroughly answers the questions: How can I combine this new knowledge with my prior knowledge in order to facilitate continuous growth? How can I combine all of this information to create a plan to develop my original work?	Adequately synthesizes prior knowledge with new learning to demonstrate continuous growth of knowledge. Adequately answers the questions: How can I combine this new knowledge with my prior knowledge in order to facilitate continuous growth? How can I combine all of this information to create a plan to develop my original work?	Somewhat synthesizes prior knowledge with new learning to demonstrate continuous growth of knowledge. Somewhat answers the questions: How can I combine this new knowledge with my prior knowledge in order to facilitate continuous growth? How can I combine all of this information to create a plan to develop my original work?	Does not synthesize prior knowledge with new learning to demonstrate continuous growth of knowledge. Does not answer the questions: How can I combine this new knowledge with my prior knowledge in order to facilitate continuous growth? How can I combine all of this information to create a plan to develop my original work?
Evaluating Your score: 8	Thoroughly judges/appraises the information. Thoroughly answers the questions: Was this new knowledge effective in helping me achieve my goals? Was this new knowledge helpful, surprising, encouraging, discouraging, motivating, disagreeable,	Adequately judges/appraises the information. Adequately answers the questions: Was this new knowledge effective in helping me achieve my goals? Was this new knowledge helpful, surprising, encouraging, discouraging, motivating, disagreeable,	Somewhat judges/appraises the information. Somewhat answers the questions: Was this new knowledge effective in helping me achieve my goals? Was this new knowledge helpful, surprising, encouraging, discouraging, motivating, disagreeable,	Does not judge/appraise the information. Does not answer the questions: Was this new knowledge effective in helping me achieve my goals? Was this new knowledge helpful, surprising, encouraging, discouraging, motivating, disagreeable,

	controversial?	controversial?	controversial?	controversial?
Creating Your score: 8	Demonstrates a clear, detailed, and well-thought-out plan describing what you will do with/as a result of this new learning. Thoroughly answers the questions: How can I blend this new knowledge with previous knowledge to create new ideas? What new questions have arisen as a result of this new information.	Demonstrates a clear and well-thought-out plan describing what you will do with/as a result of this new learning. Adequately answers the questions: How can I blend this new knowledge with previous knowledge to create new ideas? What new questions have arisen as a result of this new information.	Demonstrates a somewhat clear and well-thought-out plan describing what you will do with/as a result of this new learning. Somewhat answers the questions: How can I blend this new knowledge with previous knowledge to create new ideas? What new questions have arisen as a result of this new information.	Does not demonstrate an acceptable plan describing what you will do with/as a result of this new learning. Does not adequately answer the questions: How can I blend this new knowledge with previous knowledge to create new ideas? What new questions have arisen as a result of this new information.
Evidence of Proofreading Your score: 10	No grammatical, spelling, or usage errors.	Very few grammatical, spelling, or usage errors.	Too many grammatical, spelling, or usage errors.	Enough grammatical, spelling, or usage errors that the assessment is borderline incomprehensible.
Proper Heading/Format Your score: 10	All requirements met	Most requirements met	Some requirements met	Few or none of the requirements met.
Professional Tone Your score: 10	Entirety of assessment is written in the appropriate professional tone.	Most of assessment is written in the appropriate professional tone.	Some of assessment is written in the appropriate professional tone.	None of assessment is written in the appropriate professional tone.
Annotated Article Your score: 8	Thoroughly annotated article submitted with assignment	Adequately annotated article submitted with assignment	Somewhat annotated article submitted with assignment	No annotated article submitted with assignment

Comments: