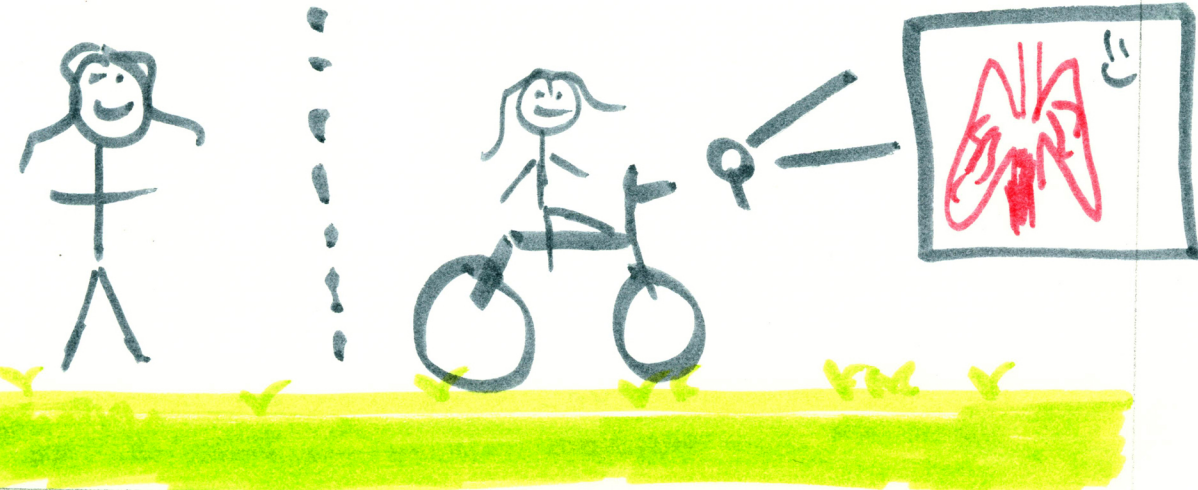


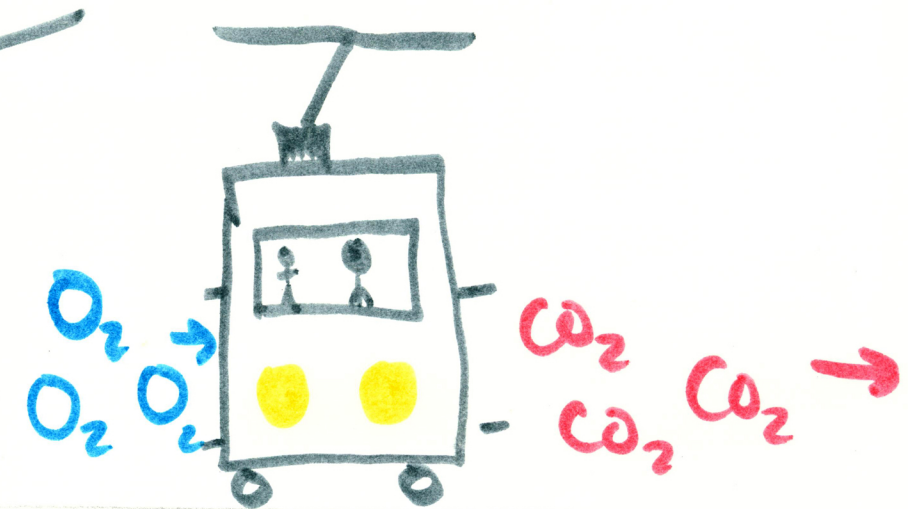
CHRONIC BRONCHITIS

By: Siddharth Tiwari, Eddie Ning, and Avery Hedican

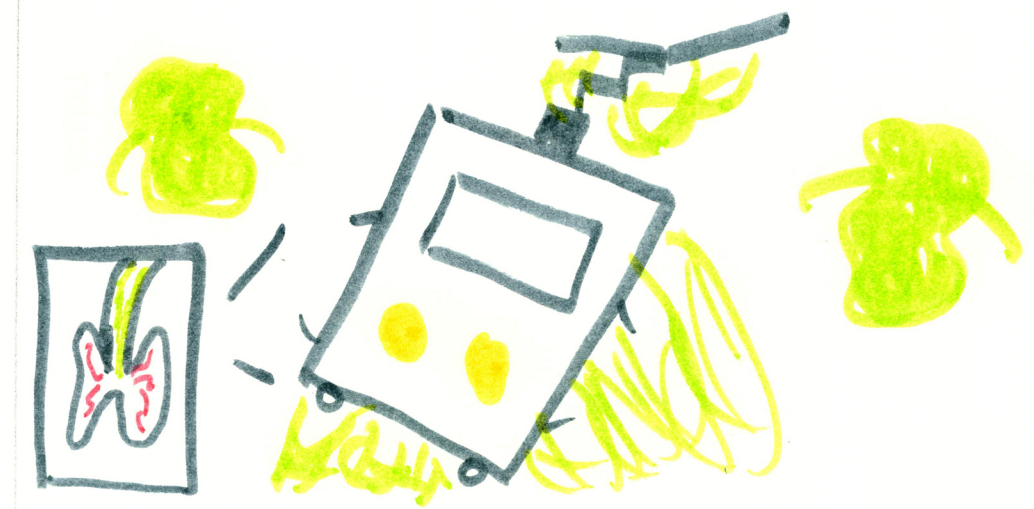
Rian is usually a really happy person! Look at her ride her bike! Her lungs and her respiratory system are healthy, properly exchanging O_2 and CO_2 with unlogged airways.



Let's look closely at her airways. There's a train! Look, it's happily chugging along. The O_2 is exiting the train into the bloodstream and the CO_2 is coming on.



Wait, what's this! Why is the train slowing down... OH MY GOD!!!! Is that mucus?? Why are the tunnels so small?? What's going on? Let's zoom out.



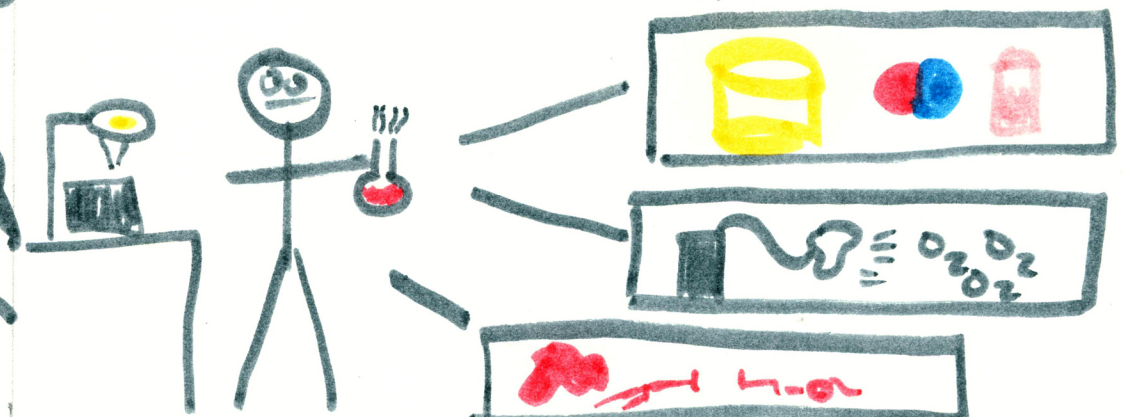
OH NO! Rian is sad. She is struggling to breathe and coughing. Her chest hurts too :(Oh no Rian, how did this happen?



cough cough... Hello... cough cough... I think I have chronic bronchitis... cough cough. It's because I live in the center of Chicago which has really bad air. I've gotten sick a lot recently, especially with respiratory illnesses, and I'm a heavy smoker. COUGH COUGH COUGH COUGH... could anyone help me??? I want some water and a nice nap.



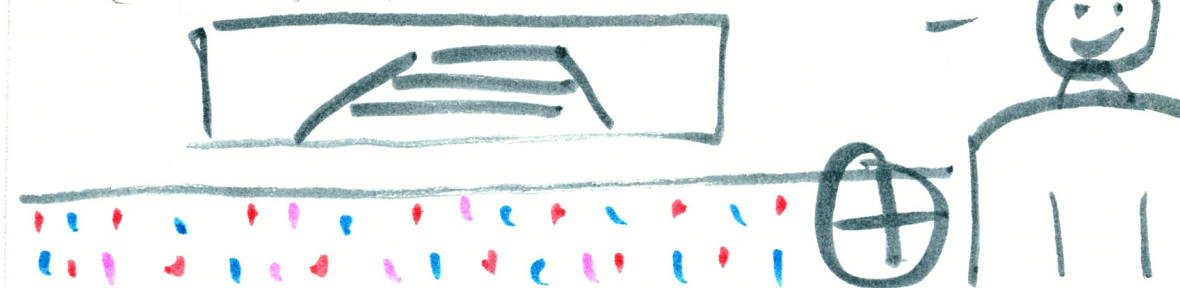
We can help you Rian!! Luckily, Chronic Bronchitis is a well-rescribed disease so there are several treatments that can be used to help you feel better!! You can use drugs such as bronchodilators (airway opening drugs) and anti-inflammatory drugs (steroids) to cure chronic bronchitis. In serious cases, you must use oxygen therapy and even lung transplants, but you're fine Rian! Here are some bronchodilators!!



Let's zoom in to see if Rian's respiratory system is doing better! OH LOOK, the train's tracks are back to normal! No more mucus or constriction in these pathways. Let's ask the conductor what happened.



The bronchodilator drug expanded the tunnels and ridged the tunnels of mucus. Now, the O_2 can exchange with the CO_2 in the bloodstream, which means that Rian will be better!! Now, she has to make sure not to get sick or smoke. She should probably wear a mask outside to limit pollutants in her respiratory system, or the train will stop again!!!



Rian is happy again! Look at her riding her bike! Don't do drugs & ds! And don't live in Chicago!

