



Outtakes #4: Crash Course A&P

Outtakes

<https://youtube.com/watch?v=jEaSMhBIKGI>

<https://nerdfighteria.info/v/jEaSMhBIKGI>

Hank: A lot of improvements have been made to it over the eons but the respiratory system that you're using right now is your inheritance from that ancient amphibious fish, leader of one of the most important anatomical revolutions of the past half billion years.

Crew: You changed "ambitious" to "amphibious" ... fish.

H: Oh. It says ambitious. I just assumed amphibious. *laughs* I saw you shaking your head and I was like, "I didn't do anything wrong so I'm going to keep going."

[Intro]

H: The underlying collagen fibers are suddenly exposed and the chemical of yak's platelets turning sticky goo-like at the scene of the injury. Everybody knows what I mean, right? Let's move on.

laughter

H: And I could move around bulk amounts of oxygen faster through [gibberish]

H: Which probably with this much cheese wouldn't even be a very big bite [coughs]

Crew: Are you okay?

H: Yeah, just drooling too much [coughs]

H: Anonymous-- amatimous? Anamitous?

H: Leaders of one of the most important [gibberish]

H: And that's how hemoglobin transports oxygen around your body...

laughter

H: And transports liv-- livers. Just little tiny livers.

H: Which monitors your levels blood of oxygen.

H: Proportionally they have the thickest tunamedia of any blood vessel. This allows them to contri-- tunica. Tunica. Tuna [laughs]. Just medium tuna please. Mmmm sushi.

H: Each of which. Each of which. Each of which.

H: Epithelial. Epithelial. Epithelial.

H: When your *lungs* empty...

laughter

H: Blood. Blood. Blood

H: [burps] Taco.

H: Where it builds up pressure again and spurts-- pow, pow.

H: I mean, I don't mean to freak you out but there are literally millions of things that could go fatalally-- falataly? Falataly [laughs]

H: And molecules also diffuse from areas of high concentration to areas of low concentration--

Crew: You sound like you're about to die

H: Yup! [Laughs]

H: Looking bat-- back? Bat. Back? Back.

H: As the difference in blood pressure between two points increases-- blah! Math.

H: Stimulates your red bone Mary. Barry? Mary? Really? Your red bone, red bone Manilow.

H: Maybe you need new fat stores so you have energy to run a marathon or new actin and myosin to build bigger muscles or more DNA so you can replace the skin cells you scrape off your knee when you fell or [gibberish]

H: Because of the ah- eh- ooh

H: But before it can diffuse across the phospholipid bilayer membrane of our cells.

H: But before it can diffuse across the phospholipp-- phospholipid. Phospholipid! I was so close!

H: or pooping corn chips. [laughs] A whole, undigested corn chip. pfft

H: The way this works is pretty cool, these special hit-- naaaaaah

H: You get your finger prinkt, prinkt?

H: These hormones raise both the heart rate and the-- These hor-- These hormones raith-- raithhhhh

H: What if you-- pfft

H: Pffft

H: The adrenal-- pffft

H: They make up about 40-- dabababablabla

H: That was... a tiny bit of panic in my eyes [crew laughs] that probably people won't...

Crew member: You were so excited about your [unintelligible]

H: Probably people will think it's just excitement.

H: And also expand and constrict blood vessels. Constrict?

Crew: They *help* expand.

H: Yeah, also help. But also constrict.

H: and the fam-- brrrrra blalalala

H: So... [crew person burps]

Crew: Just...

H: You're fired. You ruined a great take, I had already gotten one word in!

H: Stratified Squamous epithelial...

H: [deep and foreboding] The red blood cell graveyard. [laughs]

H: They lift the ribs up. and. out. both. out. of. which. cause. the chest. cavity. to expand.

H: Another thing you're gonna need to know before you give blood



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is what type of blood you have. If you're in the A, AB, B, O club.
[crew laughs]

H: If you have A or B or AB or O... it keeps going [Hank and crew laugh]

H: But then it's quickly turned over into the invol-untary process of peristalsis.

Crew: ...Right!

H: [laughs] I think you can cut that. [Hank and crew laugh]

H: Ooh, vein train. Those cells-- Your red blood cells ride the vein train back to your lungs where they encounter a new wave of freshly inhaled oxygen. [whispers] Vein train. That's my favorite.

H: We all eat any kind of food to accomplish two simple things, to obtain the energy we need to stay alive, and to get the raw materials required for building all of our tissues and stuff.

Crew: or to fill that void in our souls.

H: Yes or to... [laughs] to fill the empty hole. Or thirdly, to fill the empty, unfillable hole, that is our soul. OK.

[theme plays]