



COLÉGIO UNIVERSITÁRIO DE AVARÉ

ATIVIDADES COMPLEMENTARES

DISCIPLINA: Inglês

ENS. Médio

ANO: 1º Ensino Médio

Will we ever grow replacement hands?

Over the past few weeks on the BBC News website we have looked at the potential for bionic body parts and artificial organs to repair the human body. Now we take a look at "growing-your-own". There is a pressing need. A shortage of available organs means many die on waiting lists and those that get an organ must spend a lifetime on immunosuppressant drugs to avoid (evitar) rejection. The idea is that using a patient's own stem cells to grow new body parts avoids the whole issue of rejection as well as waiting for a donor. Dr Anthony Atala, director of the Institute for Regenerative Medicine at the Wake Forest Baptist Medical Center in North Carolina, US, has made breakthroughs in building bladders and urethras. He breaks tissue (tecido)-building into four levels of complexity. • Flat structures, **such as** the skin, are the simplest to engineer as they are generally made up of just the one type of cell. • Tubes, such as blood vessels and urethras, which have two types of cells and act as a conduit. • Hollow non-tubular organs like the bladder and the stomach, which have more complex structures and functions. • Solid organs, such as the kidney, heart and liver, are the most complex to engineer. They are exponentially more complex, have many different cell types, and more challenges in the blood supply. "We've been able to implant the first three in humans. We don't have any examples yet of solid organs in humans **because** its much more complex."

1. Based on the reading, select the alternatives that are CORRECT.

I. BBC news website is still showing programs on the potential for bionic body parts and artificial organs to repair the human body.

II. According to the BBC News article, there is a strong necessity for "growing-your-own" organs.

III. Many patients die on waiting lists due to disorganization and lack of donors.

IV. Dr. Atala has made important contributions in building bladders and ureth

A) Alternatives I, II and III are correct. B) Alternatives II and III are correct. C) Alternatives I and IV are correct. D) Alternatives II and IV are correct. E) Alternatives I, III and IV are correct.

2. Mark the CORRECT alternative according to the text.

A) The text suggests that using other patient's stem cells to grow new body parts avoids the whole issue of rejection.

B) According to Dr. Atala the first three levels of complexity in tissue-building have been tested on humans, except for solid organs, which are the most complex to engineer.

C) Bionic body parts and artificial organs to repair the human body are in the past according to BBC News.

D) The bladder and the stomach, which have complex structures and functions, are examples of solid organs. E) Patients that get organ transplants must take immunosuppressant drugs to avoid rejection for at least two years after the surgery.

3. As conjunções **SUCH AS** e **BECAUSE** em destaque no texto, são usadas para indicar respectivamente:

- a) causa, ideia contrária b) causa, concessiva c) exemplificação, causa d) causa, exemplificação e) causa, causa

Texto para a questão 4. After a late night, New York City college student Dave Hearn and his friends don't count on coffee for a quick perk-up the next morning. Instead they slurp cans of energy drinks like New York Minute, a caffeine-infused beverage that smacks of sweet cherries. "I don't like the taste of coffee," says Hearn. "This wakes me up more." He says this even though New York Minute, like most energy drinks, contains up to a third less caffeine than a cup of coffee. Hearn and his friends are not alone: a 2001 survey found that 22% of college students were buying energy drinks. The drinks are the fastest growing sector in the beverage business. After earning a mere \$12 million in 97, they now account for \$1 billion of the \$60 billion U.S. soft-drink market. The drinks aren't exactly health food, but if you're looking for a quick buzz, they will do little harm after you chase them with enough water. All the caffeine can be dehydrating.

4. According to the text:

- a) Energy drinks are becoming a trend among students
- b) Energy drinks are very dangerous to students' health
- c) It's been scientifically proved that a cup of coffee is more harmful than a can of energy drink, concerning dehydration
- d) Dave Hearn prefers coffee to energy drinks

USE SIMPLE PRESENT OR PRESENT CONTINUOUS

- 1. Every Monday, Sally..... (drive) her kids to football practice but today they(take) the bus.
- 2. Usually, I..... (work) as a secretary at ABT, but this summer I(study) French at a language school in Paris. That is why I am in Paris.
- 3. Shhhhh! Be quiet! John(sleep)
- 4. Don't forget to take your umbrella. It(rain)
- 5. I hate living in Seattle because it(rain, always)
- 6. I'm sorry I can't hear what you(say) because everybody..... (talk) so loudly.
- 7. Justin..... (write, currently) a book about his adventures in Tibet. I hope he can find a good publisher when he is finished.
- 8. Jim: Do you want to come over for dinner tonight? I can't. I(to go) to the movies with some friends.

