

Part 1: Listening comprehension

MAKING MUSIC AFTER BRAIN SURGERY

In this radio programme you are going to hear some new words. Read and listen to them. Make sure you know what they mean.

garnered: va recollir, va generar / recogió, generó

put that on ice: posposar / posponer

swirling: fent voltes / dando vueltas

Ready?

Now read the questions on the following page. Read them carefully before listening to the radio programme.

[Now listen to the interview.]



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Part 2: Reading comprehension

HOW AI CAN MAKE CANCER TREATMENT MORE EQUITABLE

Many are aware of the Cancer Moonshot—an ambitious and hopeful initiative of the US government to reduce cancer-related death rates by 50 % by the year 2047. It will take an army to achieve this goal, composed of the brightest minds and biggest hearts in healthcare, science, and technology. Many parties will be involved—the federal government, healthcare providers, researchers, patients, caregivers, and advocates, among others in both the public and private sectors. One of the most pivotal tools that can help **propel** us toward this high-minded goal is artificial intelligence (AI), which is poised to revolutionize cancer treatment.

The Moonshot plan identifies five priority areas, all of which AI has the potential to **enhance**. Two areas in particular lend themselves to AI: the call to deliver the latest cancer innovations to patients and communities and the aim of enhancing the oncology model to place cancer patients at the center of decision-making.

The history of cancer care has been a continual process of refining treatments through innovative processes and solutions. While these advancements represented significant **strides** toward personalizing cancer care, it has been a slow and historically inequitable process, with minority populations not having as much access to advanced diagnosis or care tools. AI has many distinct advantages over prior technologies. It continuously improves when trained on enormous datasets, making it both more accurate than prior methods and enabling it to distinguish subtleties across demographics, age, race, etc. It is relatively low-cost to **deploy**, runs instantly, and can be made accessible via cloud computing, which is now available in all populated continents. These advantages make AI a scalable solution that can uniquely optimize patients' treatment plans across the globe, delivering efficient and personalized cancer care to a substantially larger population than prior technology.

One of the most promising developments is the rise of AI-enabled tests that can simultaneously prognosticate how tumors will progress and predict treatment benefits. These tests use unique deep-learning algorithms that assess digital images from patient biopsies and couple them with the patient's clinical data. Clinicians can then take this information and build a personalized treatment plan; in some cases, this even means avoiding unnecessary treatments where the side effects outweigh the benefits for the patient.

The Moonshot initiative to deliver innovation to patients and communities is intended for *all* patients, not a select few. The generalizability of AI relies on the amount and variety of data that is used to build it. When AI is trained on datasets that properly represent diverse patient populations, it has the potential to provide greater insights for all, including historically underrepresented populations. In addition to helping bridge the gap in health disparities, AI can also serve as a conduit for increased communication between patients and clinicians by positioning patients at the center of decision-making about their care. How? By providing patients with more information about their illness, and therefore increasing confidence in their treatment plan. This confidence is a cornerstone of effective cancer treatment.

Patients must live with treatment decisions, both physically and mentally. Studies show that one key to treating cancer is for clinicians to create a patient-centered plan that incorporates multifaceted aspects of a person's life. With AI-enabled tests, the patient and clinician can review the data together to align on whether the therapy selected is worth the adverse effects that could influence the patient's lifestyle. In contrast, a lack of understanding of the options and benefits of the therapy can leave patients overwhelmed and under-committed to the treatment. This can decrease adherence to treatments and have detrimental effects on survival rates.

Text adapted from an article by
Andre ESTEVA. *Time* [online] (October 18, 2023)

propel: impulsar
enhance: millorar / mejorar
stride: avenç / progreso
deploy: utilitzar / utilizar

Part 3: Writing

Choose ONE topic. Your answer should be 125-150 words in length. There is no specific penalty for exceeding 150 words in length. Extra points are not given for exceeding 150 words. [4 points]

1. Advertising plays a significant role in shaping consumer choices. Write an **opinion essay** examining the influence of advertising on consumer behavior. Discuss the power of persuasion, ethical considerations, and the impact of advertising on societal values and priorities.
2. Write a **formal email** addressing a complaint to a customer service department. Clearly describe the problem, provide necessary details, and request a solution or explanation.
3. Choose a popular comedy TV series available on streaming platforms and write a **review** for young viewers. Analyze the humor, character dynamics, and the show's overall appeal. Discuss specific episodes or story arcs that stood out and why you believe it would resonate with a young audience.



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Etiqueta de l'estudiant

● **Tú puedes. Y nosotros te ayudamos a demostrarlo.**

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