It's time to rethink what the word healthcare means.



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Why now?

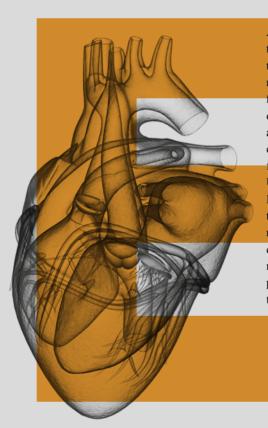
If we were to condense the relatively short 200,000-year history of homo sapiens into a single year, then most of the medical progress would have occurred in the past four hours. However, over the final hour, innovation is happening faster than ever. We are witnessing an unprecedented level of convergence among various fields of science and technology. Why is this making such a difference to healthcare? Because human biology is essentially the problem of large numbers. Each one of us comprises around three billion DNA base pairs, is home to thousands of proteins, and hosts trillions of bacteria - all of which play a crucial role in our health. Until now, we simply have not had the means to collect and process these complex and sizeable data sets that pertain to our health. That's why Baillie Gifford's Health Innovation team believes that society is on the cusp of a revolution in terms of our understanding of human biology, and our approach to health and well-being. It is now time to redefine healthcare, to shift drug development away from trial and error towards being data-driven, from one-size-fits-all medicine to personalised therapies, and ultimately from treatment to prevention.

Healthier Life Span

One of the most debilitating diseases that affects old age is Alzheimer's. There is currently no treatment that can slow down, halt, or reverse the course of the disease. However, the advent of genomics is helping us unravel its biology and revealing new potential causes. Alector and Denali are among the pioneers in bringing innovative therapies to Alzheimer's patients to extend our healthy life span.



Engineering



Aortic stenosis is a lifethreatening disease where the aortic valve becomes narrow and reduces blood flow from the heart to the rest of the body. Ten years ago, a treatment would require cutting open the chest bone for an open-heart surgery. Using advanced engineering, Edwards Lifesciences has transformed the field with a minimally invasive procedure called TAVR that does not require stopping the heart and patients can even go home the same day.

Access



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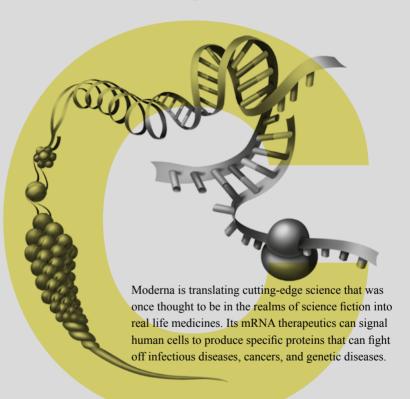
Telemedicine



Home Care



Convergence



Artificial Intelligence

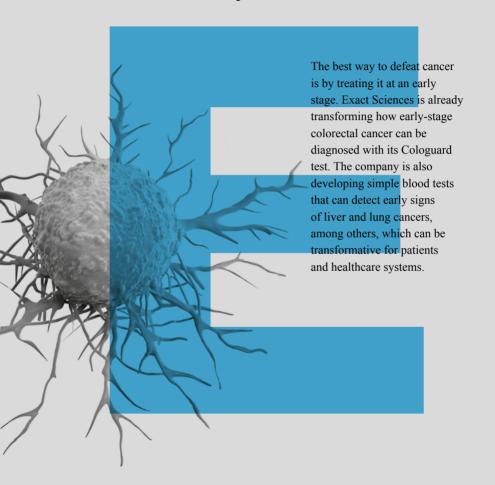
Butterfly Networks is reinventing the ultrasound machine from a bulky, expensive instrument only found in hospitals to a handheld device that can be plugged into a smartphone. Its AI algorithms can guide users and interpret the images, so that it can be used by any doctor and, eventually, consumer.



Robotic Surgeon



Early Detection



Why us?

Baillie Gifford's Health Innovation strategy is a concentrated global equity portfolio investing in companies driving transformational changes in the future of healthcare. We believe such companies are best positioned to deliver attractive investment returns over the long term.

We also recognise that the most creative companies often lie at the intersection of different disciplines, being driven by the great convergence of technologies. Therefore, it is critical that we do not limit our scope through the traditional definition of the healthcare sector. We will also engage with companies while they remain unlisted. Although we can't invest in unlisted companies for this strategy, we find it helpful to get to know innovative companies at an early stage in their development.

Our ambition extends beyond generating attractive returns for clients. We believe that one of our most important roles is to engage with companies to encourage the pursuit of a long-term vision. We also try to encourage visionary companies to remain independent and to protect them from acquisitions that rarely lead to the true potential of a promising idea being realised. Finally, we believe that we can help the realisation of the scientific potential of companies by acting within and contributing to an ecosystem of scientists, entrepreneurs, thought leaders, clinicians, researchers, public institutions and private companies.

A strategy which is designed to improve human health, lengthen life expectancy and reduce healthcare costs fits naturally for investors who look to achieve goals beyond simply investment returns.











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