

# AI, What Have You Done For Me Today?

## Healthcare: Minimally Invasive Surgery

While many investors are familiar with Artificial Intelligence (AI) through chatbots and virtual assistants, the impact of AI extends far beyond these familiar applications. In fact, AI has become an intrinsic part of our daily lives, often in ways not immediately visible to the public. Today, in industries such as agriculture, transportation, waste management, e-commerce, energy, and healthcare, AI is often behind the scenes, quietly revolutionizing business processes and enhancing operational efficiencies.



### AI & Minimally Invasive Surgery

Imagine you've just had a skiing accident and injured your knee. Your doctor recommends surgery and introduces the idea of being assisted by a sophisticated AI-enhanced robotic tool designed to improve precision and safety during the procedure. You might feel nervous about the idea of AI being involved in your surgery, but here's why it could be beneficial.

AI-enhanced robotic arms facilitate movements with greater precision than human hands, reducing even the slightest of tremors or shakes during surgical procedures and ensuring that every movement made is smooth and controlled. Further, AI-enhanced imaging offers high-definition 3D visualizations of the surgical area, delivering clearer and more detailed views than traditional methods. As a result, AI-enhanced technology can elevate less experienced surgeons to perform comparably to their more accomplished peers.

Such features can lead to several benefits for you as a patient:

- **Smaller Incisions:** Because robotic arms can make tiny, precise cuts, the incisions are smaller which usually means less pain and faster healing.
- **Lower Risk of Complications:** The precision of the robotic system reduces the risk of complications during surgery.
- **Faster Recovery:** Smaller incisions and more precise surgery often mean a quicker recovery time.

### Sample Holding

Intuitive Surgical's (ISRG) AI-enhanced da Vinci system is a widely used robotic-assisted platform that combines the expertise of your surgeon with advanced technology to ensure best possible outcomes. So, while these tools might seem futuristic, they can help make your surgery safer and more effective.

## Other Applications

And AI is quietly revolutionizing the field of non-invasive surgery in other ways, including:

- **Preoperative Planning and Imaging:** AI can convert two-dimensional images into detailed three-dimensional models, allowing surgeons to visualize and rehearse procedures in a virtual environment before the actual surgery.
- **Real-Time Decision Support:** AI can provide real-time decision support during surgery, suggesting optimal surgical paths, highlighting vital areas and potential risks, and enabling surgeons to make informed decisions quickly.
- **Postoperative Monitoring and Care:** AI extends its benefits to postoperative care by continuously monitoring patient data and predicting potential complications. This proactive approach not only improves patient outcomes but also reduces hospital stays and associated healthcare costs.

Such advancements in AI-enhanced healthcare are making surgeries safer and more efficient and benefiting both patients and healthcare providers.

► **For more information on how AI is impacting you on a daily basis, please visit [www.alger.com](http://www.alger.com).**

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