



WILL AI REPLACE ME?

Surgeon

Healthcare

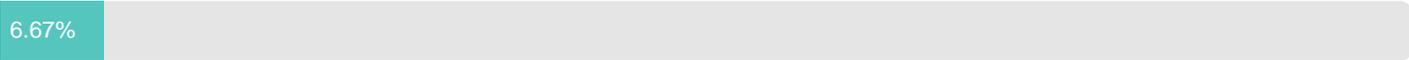
The profession of a surgeon is one of the most specialized in the medical field. It requires precise manual dexterity, in-depth knowledge of human anatomy, the ability to make crucial real-time decisions, and deep human interaction with the patient.

While some AI-assisted robotic tools may help increase precision in certain surgeries, the role of the surgeon is essential in leading and making decisions throughout the operation. Moreover, relational aspects such as obtaining patient consent and post-operative communication remain deeply human.

Despite technological advancements, the need for human surgical expertise will remain predominant.

Automation degree: 6.67%

Job not Influenced by AI



Main tasks

This section reviews the 3 main tasks associated with the job studied and assesses the potential level of automation induced by AI (« **AI Automation Impact** »). The modeling uses 8 criteria detailed on the « **Methodology** » page.

Tasks	AI Automation Impact
Diagnose conditions requiring surgical intervention, inform the patient about risks and benefits, and obtain their consent.	Low
Perform surgical operations within one's area of specialization, using appropriate techniques and equipment.	Very Low
Provide post-operative care for the patient, prescribe treatments necessary for recovery, and ensure prevention of complications.	Moderate

Impact on skills

At-risk Skills ↓

<p>Interpretation of Medical Imagery Without Assistance</p>	<p>AI is rapidly advancing in the interpretation of medical images, with tools capable of detecting anomalies often with equal or greater accuracy than humans. Although the surgeon remains the decision-maker, the pure interpretation skill could be less solicited in the future.</p>

Future-proof Skills ↑

<p>Patient Relation and Communication Skills</p>	<p>Despite technological advancements, the relationship between a doctor and their patient will always remain central to the care process. The ability to inform the patient, establish trust, understand their concerns, and obtain their informed consent is fundamental. No machine or technology can fully replace this human interaction.</p>
<p>Diagnostic and Clinical Decision Making</p>	<p>While AI tools can assist in identifying certain conditions or analyzing medical images, the final decision rests with the surgeon. This skill requires a combination of medical knowledge, clinical experience, and a comprehensive understanding of the patient and their context, making it hard to automate.</p>

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