

EP 11

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Robotic Surgery Explained - Dr. Vishal Soni

Dr. Vishal C Soni — Gastrointestinal & Bariatric Surgeon



Dr. Vishal Soni on what a surgical robot really is: a tool the surgeon controls completely, why he does not miss the sense of touch, and what the next five years will add.

6

robotic systems on sale in India, up from one [27:47](#)

25

cases to adapt to a different system [33:20](#)

10 min

for a simple gallbladder; up to eight hours [37:06](#)

70+

hospitals in the Apollo chain [11:31](#)

KEY TAKEAWAYS

1

The surgeon operates, not the robot

The machine copies the surgeon's hand movements inside the patient. It has no brain of its own. [13:32](#)

2

One surgeon, four arms

The robot holds the camera and a third instrument, so the surgeon is their own assistant, with hand tremor filtered out. [15:05](#)

3

Seeing replaces feeling

He does not miss touch: how tissue stretches on a steady, magnified 3D view tells him what he is holding. [22:48](#)

4

The market has opened

Intuitive held the key patents until about 2022. Rival systems from Medtronic, CMR and others have followed. [28:11](#)

5

Guidance first, then automation

Scan overlays, colour-coded no-go zones and automated stapling are arriving. Remote surgery already works technically. [40:24](#)

Dr. Vishal C Soni · 46:45

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TERMS EXPLAINED

A dye that glows under infrared light, showing a surgeon where to cut.

SSI Mantra

Each time opens the video at that moment. Hosted by Arseniy Arsent'yev. A summary of a conversation, not medical advice.