

## Artificial Intelligence vs Human Surgical Skill

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With the advent of robotics in orthopedic surgery, particularly in joint replacement surgery, the world is poised for a change and surgeons are still in the state of confusion as to whether to accept the technology or no.

In addition to huge investments and a steep learning curve for surgeons and theatre personnel there are patient and implant related aspects also.

We already have a data of more than 25-30 years of survivorship of joint replacement without using robots and success rate of 96% (approx) has been achieved with human surgical skill alone. One wonders that getting a 100% would be "GOD" ly and not possible to achieve.

We are simply trying to achieve better alignment by the way of robots helping us with an intra operative computer picture.

However we are not sure whether this will improve the longevity of surgical results and we may be able to compare only 25 years after its usage.

Giving more importance to robotic technology than the surgical basic skill and surgeon experience is not a great idea.

However with increasing patient demands in metros and affluent population, one may have to keep abreast with emerging technologies and artificial intelligence to be considered UP-TO-DATE.

Whether artificial intelligence and robotic actually help in improving the results of joint replacement surgery and its longevity is a very big question mark.

Just the way in which computer navigation has helped surgeons to market and build careers, robotics may either help or destroy careers based on location, demand and economics.



**Figure 1**