

Modernizing Surgical Planning: How Technology is Streamlining Stakeholder Collaboration



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Surgical planning is a crucial step in ensuring successful outcomes for implantable devices. The process is complex and requires coordination and communication between multiple stakeholders, including medical device representatives, implanting surgeons, and clinical support staff.

Traditional methods of surgical planning have long been recognized as inefficient, time consuming, and prone to security issues. For instance, they may have the following shortcomings:

- **Compromise security** by using insecure, non-HIPAA-compliant messaging platforms, such as texting, for communication among stakeholders. Additionally, sensitive information on CD is often shipped between an imaging center, surgeon, and/or medical device company.
- **Prolong the process** by requiring medical device representatives to travel to physicians' offices to acquire or review patient data and medical images. Further, for complex cases involving multiple specialists, in-person scheduling challenges can easily cause delays.
- **Compromise surgical outcomes** when accurate and precise anatomical measurements can't be obtained due to incompatible imaging platforms or missing information.

Modern cloud-based solutions circumvent these challenges by allowing for easy and real-time collaboration that makes surgical planning more efficient, seamless, and secure. In real-time, stakeholders can access and share patient information, images from different sites and systems, and other data, such as labs and case notes, regardless of their location. This not only increases efficiencies but enables the team to make more informed decisions faster, including adjusting plans when necessary.

BENEFITS TO KEY STAKEHOLDERS

Here's how cloud-based surgical planning platforms, such as [Medidata's Surgical Planning Solution](#), can benefit major stakeholders:

MEDICAL DEVICE REPRESENTATIVES

Traveling to physicians' offices and mailing sensitive patient information can be reduced or eliminated altogether when communications are centralized via a secure, cloud-based, HIPAA-compliant platform that allows for real-time collaboration. Representatives can provide added value to each of their interactions by virtually reviewing all relevant preoperative plans in advance and also gain visibility into upcoming procedure needs.

IMPLANTING SURGEONS

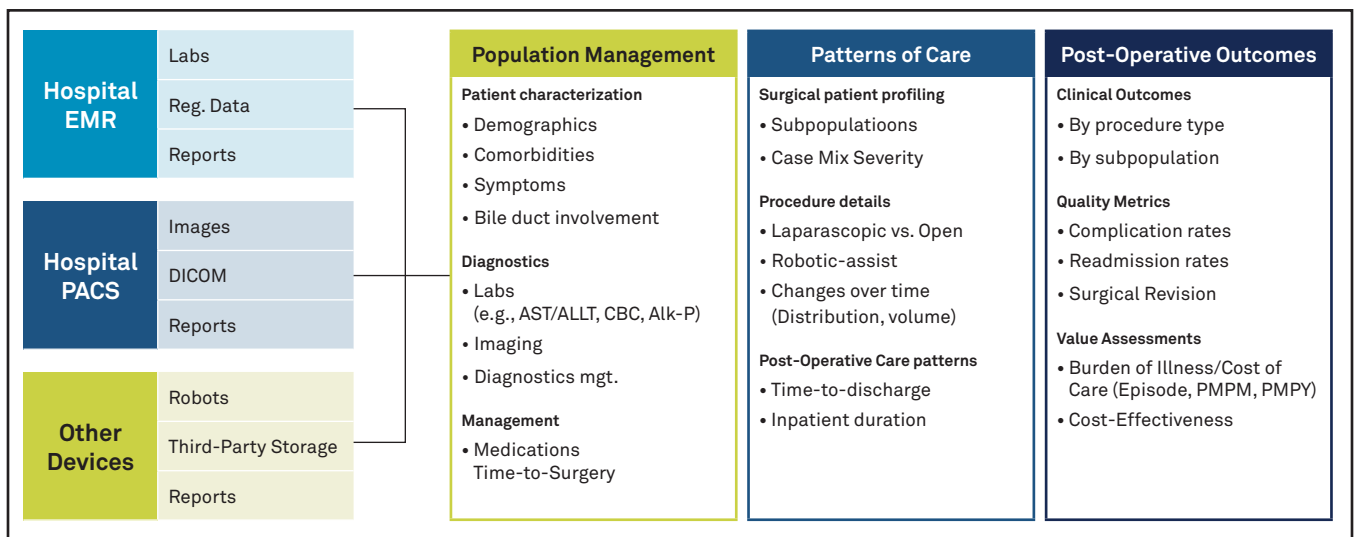
Integrating all patient-relevant information into a single flexible viewing platform enables surgeons to develop a holistic patient profile that can help with planning and execution. This not only reduces the time needed for surgical planning but can improve outcomes by detecting and resolving issues in advance. Surgical planning platforms also enhance collaboration with implanting surgeons, referring physicians, medical device representatives, and clinical support staff. Medical Device Manufacturers

Manufacturers can gain easy access to highly comprehensive patient information, including original and annotated images. Coupling with robust measuring and analysis tools allows for precise anatomical measurements. Data is also obtained to inform surgical approaches, medical device materials, and sizing. These parameters can lead to improved devices and inventory management.

MEDIDATA SURGICAL PLANNING

[Medidata Surgical Planning](#) is a proven, real-time collaboration platform for implantable device procedures. It offers real-time, secure sharing of medical images and patient data and supports live video collaboration.

Implementing the tool is seamless, since it uses existing hospital Picture Archiving Communication connections. Stakeholders use a customizable login to access patient data from any internet browser and any site, system, network, or device. As shown in the image, Medidata Surgical Planning allows for highly comprehensive and integrated data and analytics to analyze large amounts of data to produce deep insights that can enable quicker and better decisions.



SUMMARY

Modern surgical planning platforms can greatly improve collaboration, efficiency, and security. Specifically, Medidata Surgical Planning is a proven platform that allows for easy collaboration and communication among stakeholders, the integration of advanced imaging technologies with many other types of data, improved data security, and advanced analytics. Together, this can lead to better surgical outcomes and a more efficient use of resources.

Medidata has secured over 1,100 PACS connections, processed 750 million images per year, and planned over 600,000 surgeries last year across various therapeutic fields, including cardiovascular, orthopedics, neurology, and spine. Learn more about Medidata's Surgical Planning by visiting <https://www.medidata.com/en/clinical-trial-solutions/medidata-surgical-planning/>