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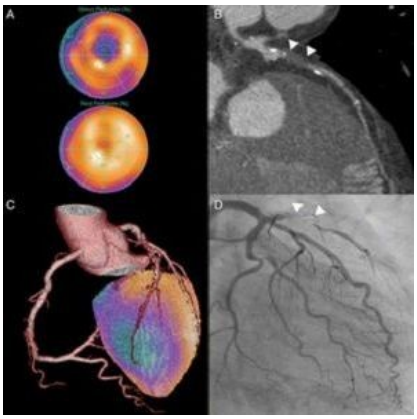
Top Medical and Imaging Technologies 2015



Flexible and less expensive healthcare solutions are becoming more widely available, thanks to an array of sophisticated inventions in medical devices, diagnostics and imaging. These healthcare innovations play a critical role in managing the increasing frequency of chronic diseases around the globe, according to a new report from Frost & Sullivan.

The report, "Top Medical Device and Imaging Technologies in 2015", says growth in the healthcare industry will centre around the following 10 technologies: surgical robots, digital pathology, neuroprosthetics, surgical laser, smart pills, optical imaging, health informatics, integrated vital signs monitoring, artificial organs and four-dimensional (4D) ultrasound imaging. For instance, new modalities such as neuroprosthesis and hybrid imaging are moving towards commercialisation. In addition, smart pills and surgical robots are among the new products already in the early commercialisation phase.

“The strong merits of the top 10 medical device and imaging technologies attract the attention of large and small healthcare companies alike,” says Frost & Sullivan TechVision Senior Research Analyst Bhargav Rajan. “Traditionally, cautious tier-1 firms stake claim in these pioneering modalities directly or indirectly through funding, tie-ups and acquisitions.”

A common thread connecting the 10 solutions, the report notes, is their scope for convergence with non-medical platforms. Innovations in electronics, sensors, information technology and advanced manufacturing are powering product and technology progress in medical and imaging devices. Non-healthcare businesses such as Google and IBM invest in these technologies.

As Rajan points out: “Stringent regulatory requirements as well as a competitive intellectual property landscape prolong the time-to-market and strain returns on investment. Collaborative and multi-cluster advancements in conjunction with non-healthcare industries will significantly reduce development times and lower barriers to market entry.”

Once commercialised, these multidisciplinary medical and imaging devices with long lifespans will consistently influence market potential, research and development, and global adoption over several years, according to the report.

Source: Frost & Sullivan
Image credit: European Heart Journal – Cardiovascular Imaging

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