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Apart from establishing a tertiary care system, it is essential to strengthen primary and secondary healthcare strategies. There are a few hi-tech, five-star hospitals in the metro cities with state-of-the-art technology, expertise and highly qualified, experienced specialists in all disciplines. But these alone are not sufficient to provide uniform, high quality services to the cross-section of society. There is a need to improve the healthcare delivery system in the rural and semi-urban areas both by the government and the private sector.  Every district hospital should have an intensive care unit so that all medical emergencies can be treated and the golden hour benefits can be passed on to patients. Using modern-day technology—either telemedicine or an app—you can always connect the semi-urban and rural hospitals with tertiary care hospitals.  There has been a sea-change in all branches of medical sciences as well as healthcare delivery systems. Due to innovations both, in discovery of new drugs, imaging gadgets, surgical and interventional hardware, and procedures have become less invasive, resulting in shorter hospital stay and early return to work. Today, many diseases which required surgery are treated by non-surgical or minimally invasive procedures, endoscopic surgeries, angioplasty, stenting procedures, device closures, heart failure devices, etc.  Organ transplantation involving heart, pancreas, bone marrow, liver and kidney is evolving rapidly. More centres are doing these procedures now. And in spite of this, we are lagging behind in this sector compared to many other developed nations. This is because of lack of awareness, false sentiments and other logistics. Obesity management by bariatric surgery, knee replacement and hip replacement are growing.    **DIGITAL HEALTHCARE**  Telemedicine, digitalisation, digital healthcare, mobile healthcare services through messaging apps, app-cloud systems, social media websites, etc, are being used for consultations, follow up, exchange of medical reports and even for coordinating the treatment in less accessible areas. Home care is another new area. Diagnostic services are taken to the doorstep. This will particularly help senior citizens who cannot go to the hospital frequently.  Using telemedicine and app-cloud systems, we can facilitate early diagnosis and management of heart attacks, even in small clinics, and taluk and village hospitals where there is lack of facilities and expertise. ECG, X-ray, scan reports, etc, can be sent to specialist centres faster. The initial treatment can be given there itself in the form of thrombolysis and after a few hours of stabilisation, they can be transferred to the nearest super-specialty hospital where angioplasty facilities are available. The same concept can be applied to other medical and surgical emergencies.  **RESEARCH FOCUS**  Some of the research areas attracting academicians are in cancer, stem cells, leadless pacemakers, subcutaneous ICD, non-surgical valve replacements, heart failure devices, neuro sciences, robotic surgeries, road map navigational system in operation theatres and cardiac cathlab, vaccines for diseases such as HIV, H1N1, infections, dengue and atherosclerosis. Genetic and gene therapy is an exciting area researchers are interested in. Alzheimer’s disease is another sector of research.  Many implants, devices and imaging equipment are expensive. Most of them are imported. If multinational companies establish their units in India, it will be less expensive and more affordable.  Information technology has virtually revolutionised and simplified the dissemination of knowledge, medical information, data collection and review of medical records and various investigations. Considering the explosion of technology, overdependence on various diagnostic gadgets and investigations is not a healthy practice. In this process, we will be losing the humanitarian touch. The talk, touch and treatment method is still appreciated.  Modern technological advances improve the outcomes if applied sensibly. It is true because of digital technology, some doctors attached to multiple hospitals are trying to treat patients based only on reports. This can end up with over diagnosis and mismanagement in a few cases. One should also keep in mind the errors and over-sensitivity of some medical equipment-driven reports. Corroborative evidences, comprehensive evaluation and analysis of patients' symptoms should be the ultimate approach before taking major medical decisions.  [RSS](http://educationtimes.com/rssfeedall/all)[twitter](http://twitter.com/#!/educationtimes)[Home](http://educationtimes.com/index.aspx) |  |

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