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Wonders and worries of nanotechnologies in health care

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From science fiction to reality: nanotechnologies bring fresh hope to the medical world. Nano medicine can offer impressive resolutions for various life-threatening diseases including effective drug delivery systems, drug discovery and development, medical diagnosis and devices. The advent of nanomedicine and techniques for the early diagnosis of diseases could usher in a new era of superior prophylactic or preventive medicine. Nanobots could be sent into a patient's arteries to clear away blockages. Surgeries could become much faster and more accurate. Injuries could be repaired cell-by-cell. It may even become possible to heal genetic conditions by fixing the damaged genes. Nanotechnology

could be used in cancer treatment, drug delivery, drug development, medical tools, diagnostic tests, imaging novel drug delivery systems of herbal drugs. Technology faces biggest challenges of scalability. There is an urgent need for standardized manufacturing techniques and quality control concerns of nanotubes through inhalation, ingestion, or absorption through the skin are increasing. Challenges: Are nanotechnology inventions required by the society? What about nanotoxicity? Are products commercially viable? Physicians use the most potent tools to conquer human disease

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