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TOPIC : How I Could Invent Something New

Nanobot Medical Treatment:

Nanotechnology has the potential, to revolutionize medicine with Nanobots which is capable of diagnosing medicine treating illness at a cellular level This could lead to more targeted and efficient treatment for a wide range of medical condition.

Advances in technology have increased our ability to manipulate the world around us on an ever decreasing scale .Nanotechnologies has been termed Nanomedicine •

Use of nanoparticle technology has become familiar and increasingly common place, especially with pharmaceutical technology. An exciting and promising area of nanotechnological development is the building of nanorobots which are devices with components manufactured on the nanoscale ,this area of study is replete with potential application, many of which are currently being researched and developed .The goal of this paper is to give an introduction to the emerging field of nanorobotic within medicine and provide a review of the emerging application of nanorobotics to fields ranging from neurosurgery to dentistry .

Progression in science and medicine has been marked by the ability of researchers to study and understand the world around us on a progressively smaller scale .The next phase in the ever decreasing size of the operation is the development of nanotechnology where researchers are able

to work on the scale of nanometers. The scale of nanotechnology is defined by the NATIONAL NAN-TECHNOLOGY INITIATIVE (NNI), A united state government initiative to promote the development of nanotechnology research and development as "Science, research, and technology conducted on the nanoscale. "The NNI defines this scale as approximately to 100 nanometers to give a practical idea of the nanoscale.

A cell surface receptor is approximately 40 nanometers, A strand of DNA is about 2nanometer in diameter, And a molecule of albumin is about 7nanometers .

The concept of nanotechnology is reported to have first been envisioned by a celebrated physicist by Dr Richard Feynman, during a lecture called "There's Plenty Of Room At The Bottom", which was delivered to the American physical society in December of 1959 . Dr Richard Feynman discussed the field and scale of nanotechnology in principle, and the possibilities it will unlock for the biological researchers , information of technology , manufacturing, electrical engineering, and other fields .

A field in which nanorobots can have significant routine and specialization used in the field of dentistry. Virtually all the elements of dental care and treatment could incorporate nanorobots and benefit from their use by providing a higher level of care . This uses range from a routine cleaning , to cosmetics and teeth whitening, hypersensitivity, and even orthodontics .

Nanorobotics are developing wide potential applications across all fields of medicine, and expanding the number of therapeutic options available while also

improving the efficacy of existing treatments.it is certainly possible within a generation of time that the use of nanorobotic technology will become ubiquitous in medicine.this can be accomplished through a nanorobot build of synthetic element in contrast to the biological elements of a DNA nanorobot .

This review provided a brief outline of nano devices and nanorobotics in medicine, a small subset of the massive field of nantechnology and nano biotechnology.