

Neurological Applications Of Implanted Drug Pumps Annals Of The New York Academy Of Sciences

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1. Ann N Y Acad Sci. 1988;531:1-215. Neurological applications of implanted drug pumps. [No authors listed] PMID: 3382139 [Indexed for MEDLINE]

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Intracerebral implants make use of drug-impregnated polymers that allow controlled release of the drug at the desired site in the brain over an extended period of time. 25 Encapsulation of the drug has the added benefit of protecting it from degradation and minimizing the unwanted effects associated with an un-encapsulated drug on normal cells. Brain tumors as well as neurodegenerative diseases can especially benefit from such controlled release systems.

Neurological Implant - an overview | ScienceDirect Topics

Neurological applications of implanted drug pumps. New York, N.Y. : New York Academy of Sciences, 1988 (OCOLC)806783795: Material Type: Conference publication, Internet resource: Document Type: Book, Internet Resource: All Authors / Contributors: Richard D Penn; New York Academy of Sciences.

Neurological applications of implanted drug pumps (Book ...

Applications. Implants can roughly be categorized into groups by application: Sensory and neurological. Sensory and neurological implants are used for disorders affecting the major senses and the brain, as well as other

Implant (medicine) - Wikipedia

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Medical devices that interface directly with the nervous system are emerging as essential therapeutic and diagnostic modalities for conditions including paralysis, amputation, Parkinson's disease,...

Neurological Devices | FDA

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Neurological Applications Of Implanted Drug Pumps Annals ...

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10+ Neurological Applications Of Implanted Drug Pumps ...

A minor use in terms of volume, but not in significance, is the application in human medicine (tissue bioengineering – vascular prostheses, membranes, transport systems for antibiotics, steroids and other drugs, implant matrices, haemostatic foams, burn dressings, etc.). A detailed survey of such

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recent applications was given by Lee et al. [137].

Drug Implant - an overview | ScienceDirect Topics

The implant could also be useful in other neurological diseases such as Parkinson's disease and brain tumours. "We see this as a platform technology that can be applied to many different scenarios," says Proctor, "It can be relevant to neurological diseases where it's very difficult to get drugs to where you need them, when you need them."

A drug-pushing brain implant for neurological disease ...

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Regulatory Science for Neurological Devices

neurological implant intracerebral implants make use of drug impregnated polymers that allow controlled release of the drug at the desired site in the brain over an extended period of time from novel approaches and strategies for biologics vaccines and cancer therapies 2015

30 E-Learning Book Neurological Applications Of Implanted ...

The US Orphan Drug Act of 1983 defined a rare disease or condition as any pathology affecting fewer than 200 000 people. Pharmaceutical companies can request an orphan drug designation for the use of specific drugs and/or biologics in treating rare conditions.

Reforming the Process for Deep Brain Stimulation and ...

A Rutgers-led team has created a smart drug delivery system that reduces inflammation in damaged nervous tissues and may help treat spinal cord injuries and other neurological disorders. The system, which uses extremely thin biomaterials implanted in the body, also protects nerve

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fibers (axons) that connect nerve cells in injured neural tissues, according to a study in the journal *Advanced Materials*.

New Smart Drug Delivery System May Help Treatment for ...

Penn RD: Intrathecal baclofen for severe spasticity, in Penn RD (eds): *Neurological Applications of Implanted Drug Pumps*. New York: New York Academy of Sciences, 1988, pp 157 – 166 Penn RD: Intrathecal baclofen for severe spasticity, in Penn RD (eds): *Neurological Applications of Implanted Drug Pumps*.

Intrathecal baclofen for spasticity of spinal origin ...

More specifically, the implanted devices will predict and anticipate, for instance, epileptic seizure onsets within a probabilistic framework, thereby enabling a portion of the device to automatically activate a therapeutic response (drug delivery, electric stimulation, optic display, etc.), in order to deter the course of neurological disturbances (Yue et al. 2013).

A Threat to Autonomy? The Intrusion of Predictive Brain ...

Presently, the most developed applications concern Neurology and Neuro-oncology, with local delivery of neurotrophic factors and antimitotic drugs into neurodegenerative lesions and brain tumours, respectively. The drugs that had been encapsulated by our group included nerve growth factor (NGF), 5-fluorouracil (5-FU), idoxuridine and BCNU.

Development of microspheres for neurological disorders ...

With the objective of improving efficacy and morbidity, device manufacturers incorporate chemicals or drugs into medical implants. Using multiple reservoirs of discrete drug doses, microchips represent a new technology capable of on-demand release of various drugs over long periods of time. Herein, we review drug delivery systems, how microchips work, recent investigations, and

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future ...

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