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School of Applied Sciences

NLC: AS A NEW GENERATION OF LIPID NANOPARTICLES

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Abstract:
Nanotechnology having developed exponentially, the aim has been on therapeutic undertaking, particularly for targeted drug therapy. In 1980 K. Eric Drexler developed and popularized the concept of nanotechnology. The Nano carriers have become a revolutionary approach. Nano carriers are at forefront of the rapidly developing field of nanotechnology with several potential applications in drug delivery, clinical medicines and research. Nanostructure lipid carriers have attracted expanding scientific and commercial vigilance in the last couple of years as alternate carriers for the pharmaceutical consignment. A new generation of nanostructured lipid carriers (NLCs) consisting of a lipid matrix with a special nanostructured has been developed. This nanostructure improves drug loading and firmly incorporates the drug during storage.
Keywords: Nanostructured lipid carriers (NLCs), Nanotechnology, Targeted Therapy

HEALTH CARE PROVIDER PERSPECTIVE ON THE BURDEN AND AWARENESS OF HEPATITIS B AND C IN KAFANCHAN, KADUNA STATE NIGERIA

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Abstract:
Viruses that target the liver primarily are described as hepatotropic viruses, with each of them causing clinically significant hepatitis and in some cases leading to the development of chronic viral hepatitis. Six human viruses have been identified, including hepatitis A B C and D (HDV), with the potential to cause acute inflammation of the liver, resulting in acute hepatitis carcinoma. This study was to determine the healthcare provider's awareness of hepatitis B and C in Kafanchan, Kaduna state, Nigeria with emphases on hepatis B due to its prevalence.Majority of respondents were within the age of 30 years (46.0 %), Male (65.0 %), Female (35.0 %). Seventy-eight percent (116) of respondents indicated that Hepatitis C and B awareness was not enough while 13 % (20) reported adequacy of sensitization. Majority of the respondents (97.01 %) believed in existence of cure for HCV and HBV, while 19.5 % said there was no cure.
Keywords: HCV, HBV, Kafanchan, Awareness and healthcare provider.

NANOTECHNOLOGY –A COMPREHENSIVE REVIEW OF SHRINKING WORLD

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Abstract:
Nanotechnology is the manipulation and manufacture of extremely minute machines or devices.These devices are so small to the point of manipulating the atoms themselves to form materials.The properties of manufactured products depend on how those atoms are arranged. Another improvement in Nanotechnology is self replication.Self replication make an effective route to truly low cost manufacturing.The world of nanotechnology has led to the observation of unexpected physical phenomena and to the creation of an entirely new class of devices. Sophisticated growth, lithographic and etching techniques ,fabricate devices with tailored band structures , also tailored electronic and optical properties. The progress of technology around the world has given us more precise,less expensive manufacturing technologies that can make an unprecedented diversity of new products.This review provides an elementary introduction to this technology, providing a flavor of its current capabilities and future expectations.
Keywords: Nanotechnology, Nano-Techniques.