Pulse Drug Nebulization Systems, Formulations Therefore, and Methods of Use

Inventors: Edward R. Kraft; Perenlei Enkhbaatar; Daniel L. Traber; Gabriela A. Kulp

Description:
Liquid nebulizer apparatus, systems, and formulation compositions, as well as systems for the nebulized, aerosol delivery of such compositions, for the administration and insufflation of medicinal aerosols into the pulmonary system of a mammal are described. The nebulizing apparatus and system can effectively aerosolize a variety of viscosities of medicinal liquid drug carriers, including those made up of oil, water, or emulsions of oil and water. Drugs dissolved or suspended in the compositions and formulations described and adapted for use herein are not damaged or denatured by the nebulization process when the nebulizer described is used. Further, the nebulization system itself can be adapted for use with both mechanically assisted pulmonary ventilation systems as well as hand-held inhalers and nose/mouth face masks for use in pulmonary drug delivery.

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Contact:
Sundeep Mattamana, Ph.D.
Associate Director
Office of Technology Transfer
(409) 772-0374
sumattam@utmb.edu