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Autologous GM-CSF-secreting Lethally Irradiated Lung Cancer Vaccine

National Cancer Institute

Source

National Cancer Institute. <u>Autologous GM-CSF-secreting Lethally Irradiated Lung Cancer Vaccine</u>. NCI Thesaurus. Code C1979.

An autologous lung cancer vaccine consisting of patient-specific lung cancer cells genetically modified to secrete granulocyte-macrophage colony stimulating factor (GM-CSF), an immunostimulatory cytokine. GM-CSF modulates the proliferation and differentiation of a variety of hematopoietic progenitor cells with some specificity towards stimulation of leukocyte production and may reverse treatment-induced neutropenias. This agent also promotes antigen presentation, up-regulates antibody-dependent cellular cytotoxicity (ADCC), and increases interleukin-2-mediated lymphokine-activated killer cell function and may augment host antitumoral immunity. For safety, cells are irradiated prior to vaccination. (NCI04)

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