

عنوان مقاله:

Prevention of cardiovascular diseases in breast cancer survivors

محل انتشار:

یازدهمین کنگره بین المللی سرطان پستان (سال: 1394)

تعداد صفحات اصل مقاله: 1

نویسندگان:

Fatemeh Imanparast - *Department of Medical Biochemistry, Faculty of Medicine, Tehran University of Medical Sciences, Tehran, Iran*

Mohmood Doosti - *Department of Medical Biochemistry, Faculty of Medicine, Tehran University of Medical Sciences, Tehran, Iran*

Amir Amani - *Department of Medical Biochemistry, Faculty of Medicine, Tehran University of Medical Sciences, Tehran, Iran*

Malihe Paknejad - *Department of Medical Biochemistry, Faculty of Medicine, Tehran University of Medical Sciences, Tehran, Iran*

خلاصه مقاله:

One of the main causes of death in women is breast cancer. Breast cancer survivors due to toxicities of therapies, particularly anthracycline chemotherapy, left-sided radiotherapy, and trastuzumab targeted therapy are at increased risk of cardiovascular disease-related death. Critical and initial step of cardiovascular diseases such as atherosclerosis is activation of endothelial cells (ECs). Early detection and rapid regeneration of damaged endothelial cells will be having a very important role in preventing of atherosclerosis. We synthesized peptide- targeted fluorescein isothiocyanate (FITC) - loaded Poly (DL-lactic-co-glycolic acid) nanoparticles (PLGA NPs) directed against vascular cell adhesion molecule 1 (VCAM-1) for targeting therapeutic and imaging agents to ECs in inflammatory sites for early detection and rapid regeneration of damaged endothelial cells. FITC- loaded PLGA NPs were synthesized by using double-nozzle electrospraying and conjugated with a peptide antagonist of very late antigen- 4 by) by 1-Ethyl-3-[3-dimethylaminopropyl] carbodiimide hydrochloride / N-hydroxysuccinimide (EDC/NHS) as coupling agents. Results of fluorescence microscopy showed that the targeted FITC-loaded NPs are rapidly endocytosis to a greater extent than the untargeted FITC-loaded NPs. Therefore targeted PLGA NPs may have therapeutic and diagnosis .applications in prevention of cardiovascular diseases in breast cancer survivors

کلمات کلیدی:

VCAM-1; PLGA NPs; Endothelial cells, breast cancer

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/726717>



