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Nano Drug Delivery Strategy of 5-Fluorouracil for the Treatment of Colorectal Cancer

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Abstract:

Colorectal cancer (CRC) is the most leading cause of cancer-related mortality with around 655,000 deaths worldwide every year. CRC usually develops very slowly, over a period of 10 to 20 years and most begin as a non-cancerous growth called a polyp that develops on the inner layer of the colon or rectum. CRC is curable if detected at an early stage. The current treatment of colorectal cancer mainly depends on surgery, chemotherapy, radiotherapy and targeted therapy. Depending on the stage of cancer development, a combination of two or more treatments is often recommended to achieve the best outcome. In this review, we summarized the challenges of 5-Fluorouracil as chemotherapy for the treatment of colorectal cancer and discussed about implication of nano drug delivery system for the better therapeutic outcome of 5-Flurouracil.

Keywords: Colorectal cancer, 5-fluorouracil, nano drug delivery, nanoparticles, silica nanoparticles

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