

Gastric cancer: Nanoparticles as tools to improve treatment efficacy

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© 2016 Bentham Science Publishers. In recent years, advances in nanotechnology have raised the specter of developing effective agents for the treatment of high-impact diseases, like gastric cancer, which remains one of the major causes of cancer deaths worldwide. This article reviews advances in the treatment of this pathology using several types of nanoparticles. First, we start with an overview of gastric cancer, its prevention, detection and the available treatments. Then, we discuss nanotechnology-based novel strategies using polymeric nanosystems, nanovesicular systems and inorganic nanoparticles. All of these systems are being evaluated in the perspective of improving the targeting of anticancer drugs and reducing their negative side effects.