

MODERN ASPECTS OF THE TECHNOLOGY OF MEDICINES CONTAINING SILVER

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Introduction

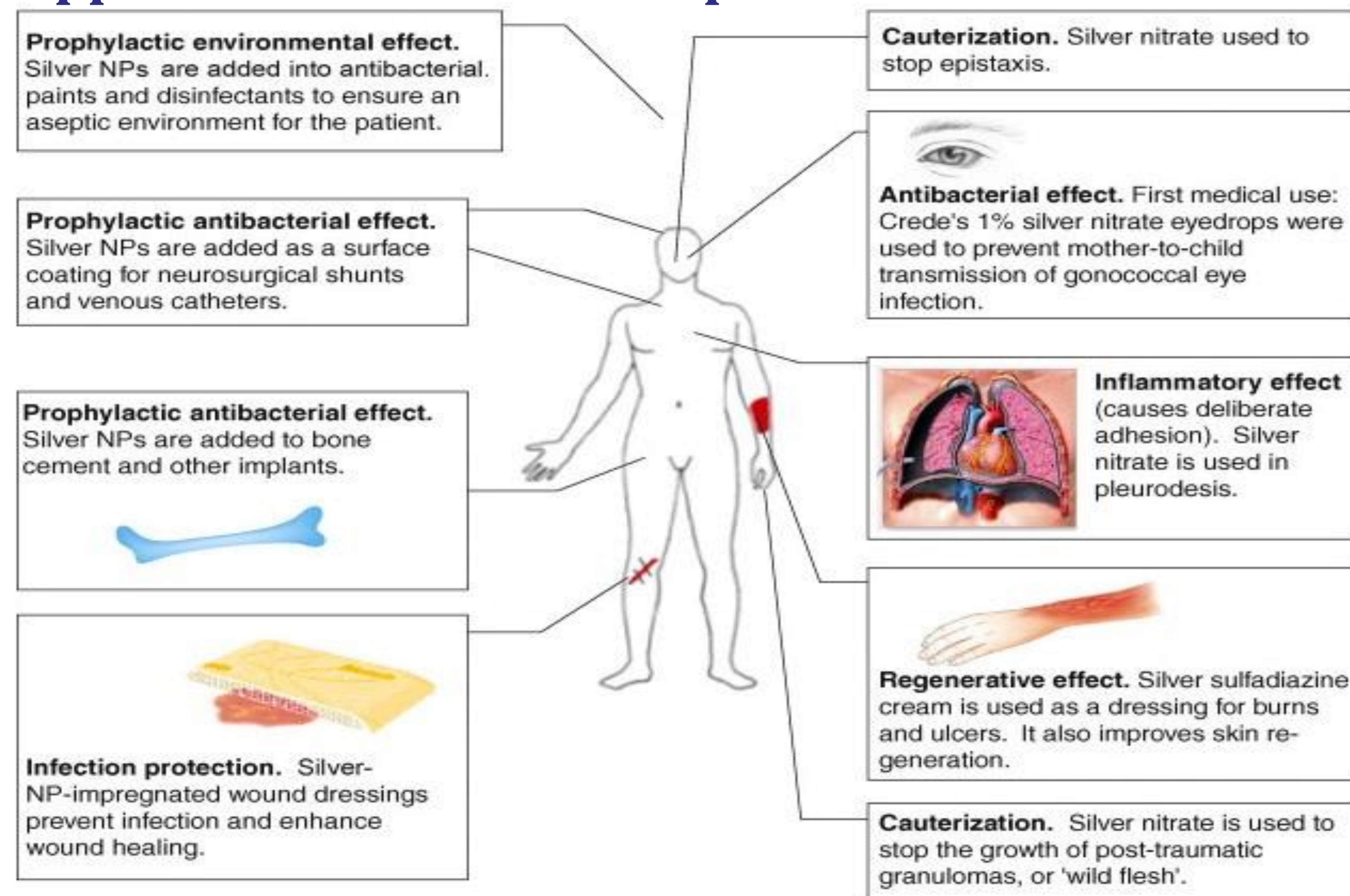
Currently, there is a certain wave of interest for therapy and prophylaxis with medicines containing silver, which manifests antimicrobial actions, lack of resistance to some pathogenic microorganisms and is well tolerated by patients. Of particular interest is cluster silver (nano-silver).



Keywords

Modern technology, pharmacotherapy, cluster colloidal silver.

Applications of silver nanoparticles



Purpose

The study of contemporary aspects in the technology of medicines containing silver.

Material and methods

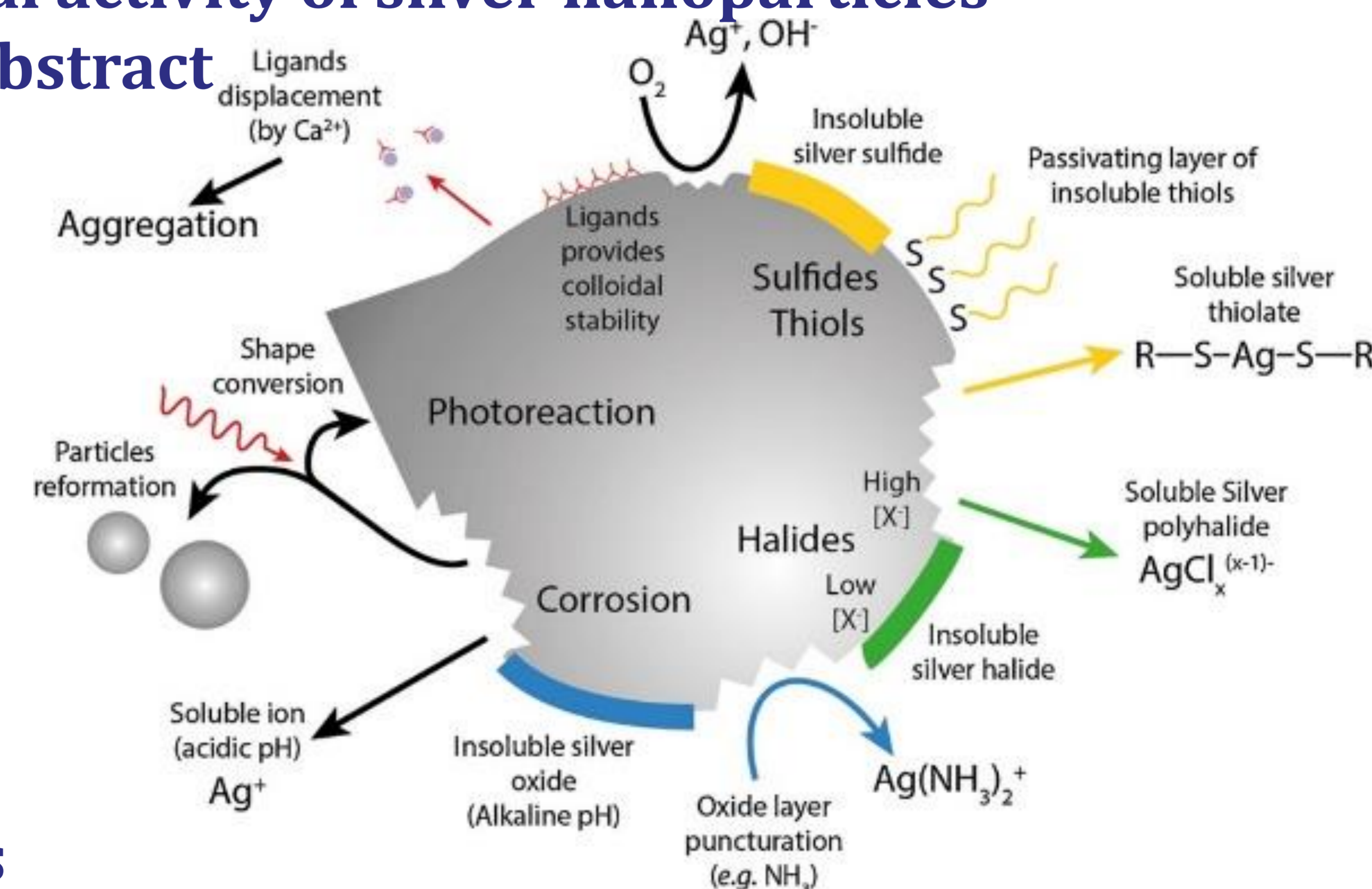
Study, analysis of bibliographic sources in the field of nanotechnology of silver pharmaceutical forms.

Results

Currently, on the pharmaceutical market there are classic medicines containing, an improved form of colloidal silver is the "cluster" or nanoparticle type, which is used in nanotechnology. A substance in the form of nanoparticles has different properties, small size, provides an extremely large specific surface area that increases the contact area of silver with bacteria or viruses, significantly improving their bactericidal action. Thus the use of colloidal nano-silver makes it possible to reduce the concentration of silver, while maintaining the therapeutic properties.

Antibacterial activity of silver nanoparticles

Graphical abstract



Conclusions

The elaboration of medicines containing solid silver of cluster type or nanoparticles allows to increase the efficacy of pharmacotherapy.