

ACETYL CYSTEINE: A HARMONY OF MUCOLYTIC AND PLEIOTROPIC EFFECTS

M. N. Kochuyeva, I. I. Grek

Abstract

The review presents the data about pharmacokinetics and pharmacodynamics of acetylcysteine, which is widely used in general and pediatric practice. Among other products ACC holds the central place.

The active ingredient of ACC causes fast effect and possesses direct mucolytic action. The size of molecule, used in ACC Sandoz (one of the smallest molecules in current pharmacology) promotes fast penetration through the membranes and barriers, accelerates the biofilm destruction, providing synergic effect with antibiotics, helping them to reach the site of inflammation.

The drug may be used from the first day of acute respiratory viral infection effectively facilitating discharge of any type of sputum (mucous, purulent or mixed). ACC is an antidote, inactivating neutrophilic proteolysis and dead cell toxins, as well as it increases the level of anti-proteases. The drug improves the course of many inflammatory respiratory diseases. Among the advantages of the drug is a variety of its forms, which makes tailored approach to the patient's needs possible.

Key words: acetylcysteine, acute bronchitis, pneumonia, COPD.

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Marina N. Kochuyeva

Kharkiv medical academy for advanced postgraduate training

Head of chair of phthisiology, pulmonology and general practice

Doctor of medical sciences, professor

61176, Kharkiv, 58, Amosov str.