Abstract

The invention relates to the use of bisphosphonic acids and the derivatives thereof for the production of pharmaceutical preparations for the prevention and treatment of autoimmune diseases or allergies in combination with the specific autoantigens for the prevention and treatment of the particular autoimmune disorder, or in combination with the specific allergens for the prevention and treatment of the particular allergy.

Some examples of the bisphosphonic acids or the derivatives thereof used according to the invention are aminohydroxymethylidenebisphosphonic acid (AMP), 2-amino-1-hydroxyethylidene-1,1-bisphosphonic acid (AEP), pamidronic acid, alendronic acid, 6-amino-1-hydroxy-hexylidene-1,1-bisphosphonic acid (AHP), amidino-methylenebisphosphonic acid (AIMP), ibandronic acid, risedronic acid, zoledronic acid, cimadronic acid, tiludronic acid. Some examples of autoimmune conditions in which bisphosphonic acids or the derivatives thereof may be used are rheumatoid arthritis, myasthenia gravis, diabetes mellitus, uveitis, scleroderma.

The bisphosphonic acids or the derivatives thereof and the autoantigens or allergens may be administered simultaneously or in succession.

The preparations may be administered in solid form, as ointments, as solutions or as sprays.