the treatment of chronic kidney deficiency (CDK) patients and/or for the treatment of haemodialysis patients.

In one aspect, there is provided the use of a composition comprising a physical mixture or blend of powders, granules, crystals or crumbs of calcium salts, magnesium salts and iron salts in the manufacture of a pharmaceutical preparation for adsorbing phosphate.

In the context of the present invention the term "salts" broadly refers to heteropolar compounds of positively charged calcium, magnesium or iron atoms and suitable negatively charged anions. Although the bond in such salts in general has essentially ionic character, the term "salt" includes also the possibility of the presence of more or less polar covalent bond shares, for example, in case of metal oxides or hydroxides, in particular, of iron.

The calcium and magnesium salts of such compositions can be selected from the group consisting of carbonates, hydrogen carbonates (bicarbonates), basic carbonates (comprising hydroxyl anions apart from carbonate), acetates, oxides, hydroxides, alginates, citrate, fumarate, gluconate, glutamate, lactate, malate, silicate, succinate, tartrate and mixtures thereof. It is preferred, that the calcium and magnesium salts of such compositions are selected from the group consisting of carbonates, hydrogen carbonates (bicarbonates), basic carbonates, acetates, oxides, hydroxides and mixtures thereof, more preferably the calcium and magnesium salts of such compositions are selected from the group consisting of carbonates and acetates and mixtures thereof. With respect to magnesium salts so called basic magnesium carbonates such as 4 $MgCO_3$ $Mg(OH)_2$ 5 H_2O, are especially preferred. A particularly preferred embodiment according to the invention comprises calcium carbonate ($CaCO_3$) and basic magnesium carbonate (such as 4 $MgCO_3$ $Mg(OH)_2$ 5 H_2O).

The iron salt of the composition according to the invention is preferably selected from the group consisting of iron oxide, iron hydroxide ($Fe(OH)_3$), iron oxihydroxide (sometimes referred to as FeO(OH), although the present invention intends to cover all iron(III)-oxy/hydroxyl compounds of varying water contents or condensation degrees), iron complex compounds and mixtures thereof. Preferably the iron salt is selected from iron(III)-salts. In a preferred embodiment the iron salt is selected from the group consisting of iron(III)-hydroxide and/or iron(III)-oxihydroxide and/or iron(III)-oxides and/or