X .. 2+ ✓ 1/21/85

Prof Beard

JAN 21 1985

NH_2Cl $RNHCl$'s

Dear Rod:

There are such rapid equilibria between

$$OCl^- \longleftrightarrow Cl_2 \xleftrightarrow{RNH_2} RNHCl$$

that I am a little puzzled at any difference in toxicity if the dose is measured at the time of introduction into the plasma.

For hemodialysis:

A trace of ascorbate should do wonders; a polyamino styrene resin could buffer the Cl_2 on a solid phase, and then wash that with ascorbate, then distilled water (lower volume needed).

The rate constants must of course be looked at. My recollection was that RNH_2's (like amino acids) formed more stable chloramines than NH_3 itself.

Thank you for writing me. "Overkill" with chlorination is temptingly easy and I gather chlorine levels at the faucet are not always closely regulated. Yours, John

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