Recall that a local ring $R$ of positive prime characteristic is F-injective if the Frobenius map induces an injection on all the local cohomology modules of $R$ with respect to the maximal ideal. In a recent paper of Horiuchi, Miller, and Shimomoto, it was shown that if $R$ has perfect residue field, $x$ is a nonzerodivisor, $R/xR$ has finite local cohomology, and $R/xR$ is F-injective, then $R$ is F-injective (i.e., under these conditions, the condition of being F-injective deforms). We explore some methods which may allow more general results on deformation of F-injectivity (still in the case of perfect residue field). (Received August 13, 2015)