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**BRENDA TAPIA-SANTOS**, Universidad Veracruzana  
*A model for the dynamics of nonsterilizing HIV vaccines*

We present a model that considers a vaccination policy represented by the vaccine application rate, waning and an index of reduction of viral load. The model also incorporates the possibility of escape mutants that avoid vaccine action. The main result is that we can show the existence of an endemic equilibrium point when  $R_0$  is less than one. The reason behind it is the existence of escape mutants that promote an increased rate of infection large enough to trigger an increase in the density of infected people even in the subthreshold case.