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**MATHEMATICAL MODEL OF THE TRANSMISSION
DYNAMICS OF SWINE FLU WITH THE VACCINATION OF
NON NEWBORNS**

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Abstract

An influenza pandemic is an epidemic of an influenza virus which spreads on a worldwide scale and infects large proportion of the human population. In contrast to the regular seasonal epidemic of influenza, the pandemic occur irregularly, when a new strain of influenza virus is transmitted to humans from another animal species. Species that are thought to be important in the emergence of new human strains are pigs, chickens, and ducks.