



Dengue viruses serotype 3 and 4 showed almost equal amount of viral production in both U-937 and HL-CZ cells, while dengue virus serotype 2 showed maximum viral production in both cells. The dengue antigens of all four serotypes were detected between days 2-3 post-inoculation. Electron microscopic studies revealed most of the changes occurred in the cytoplasm of infected cells and those changes occurred resulting from each serotype of dengue viruses were more or less similar. These changes included dilatation of rough endoplasmic reticulum, vesicle formation and swollen of mitochondria which indicated minimal cellular injury. U-937 and HL-CZ cells, the monocyte-like cell lines, are permissive to all four dengue serotypes. These cells which could be propagated in vitro, might potentially be the homogenous cell source for dengue viruses and monocyte interaction study.