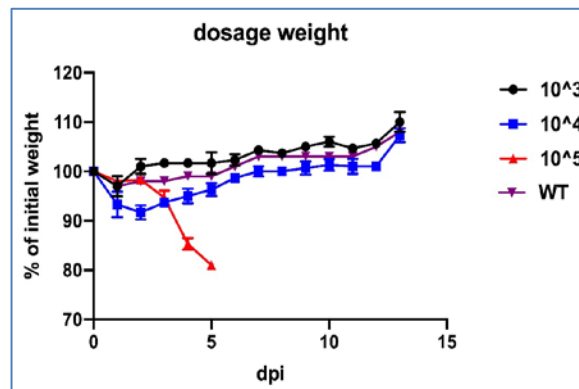
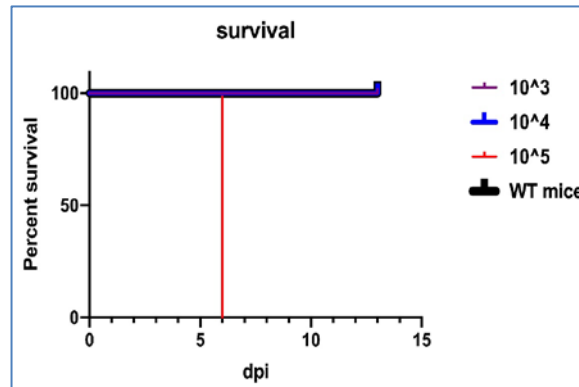


B6.Cg-Tg(K18-ACE2)2PrImn/J

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K18-hACE2 mice develop dose-dependent disease. At inocula of 10e3 and 10e4 pfu SARS-CoV-2 intranasally, animals experience minimal disease findings and recover. At an inoculum of 10e5 pfu, animals develop progressive weight loss and lung disease with robust virus replication at 2 days post infection. Characteristics of the lung disease include edema, inflammation with mononuclear lymphocytes, macrophages and neutrophils, epithelial cell death, and interstitial disease. Mice also develop CNS involvement with peak virus replication at 6 days post infection, characterized by neuronal infection. The 10e5 pfu inoculum is uniformly fatal by days 5-7 post infection. (Perlman S, McCray PB, personal communication, June 2020)

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