Mitigating lung damage, mortality due to SARS-CoV-2

October 5 2021

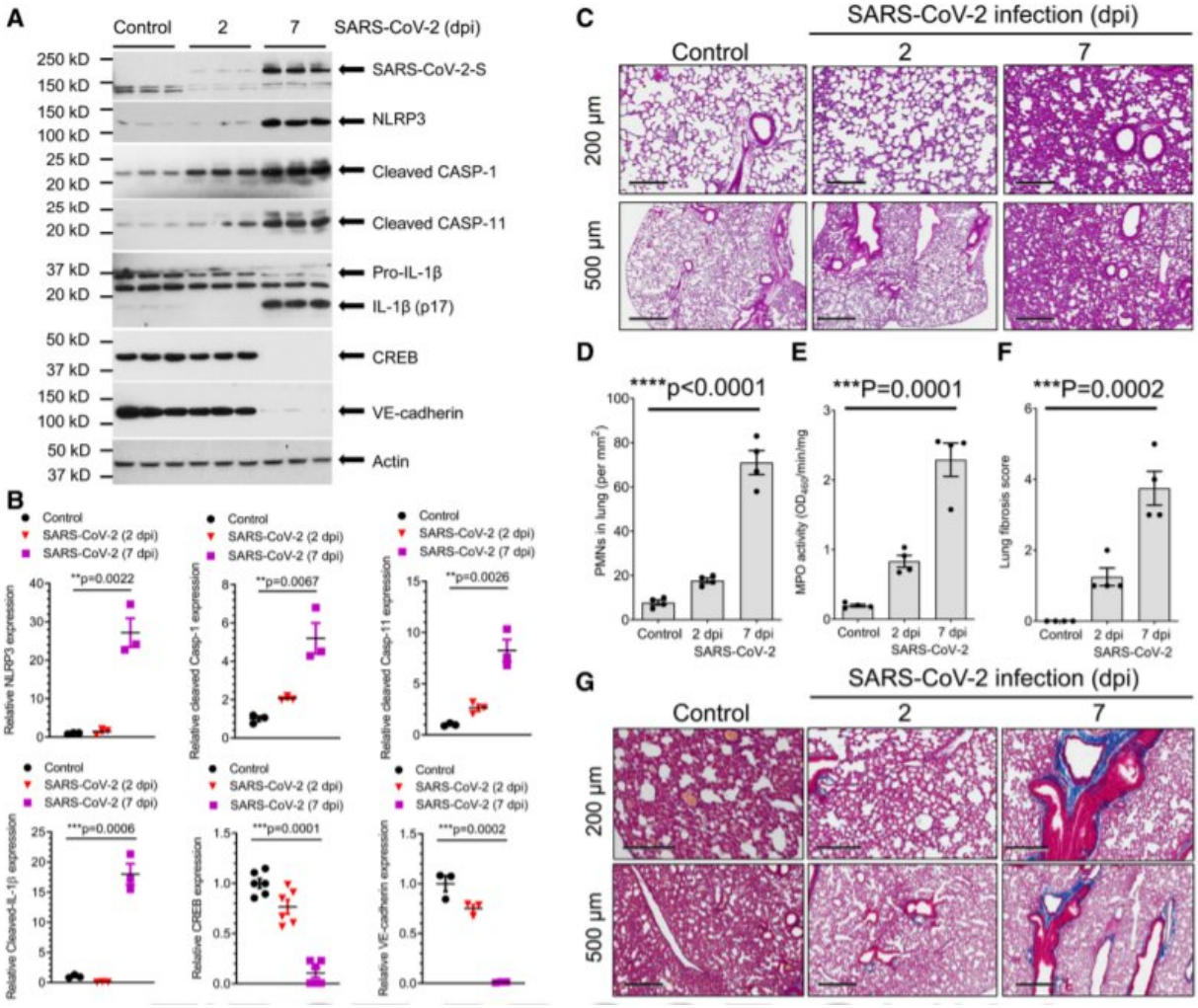

Figure 1. SARS-CoV-2 infection activates lung NLRP3–CASP (caspase)-1 inflammatory signaling and lung inflammation in K18-ACE-2 mice. K18-hACE-2 humanized mice (2 mo old) were inoculated with SARS-CoV-2 (1×105 p.f.u.) for 2 and 7 d. A, Expression of NLRP3 inflammasome, cleavage

of CASP-1/11, IL (interleukin)-1β maturation, and CREB and VE-cadherin expression in the lung following SARSCoV-2 infection at day 7 as assessed by immunoblotting with quantification in B. Two-tailed unpaired t test. C, Lung histopathology in K18- hACE-2 mice post-inoculation. Hematoxylin and eosin staining showed inflammatory infiltrates composed of lymphocytes and neutrophils. Representative images with lower power magnification (scale bars, 500 μm) and higher power magnification (scale bars, 200 μm) from 2 independent experiments are shown. D, Morphometric quantification of neutrophil infiltration in lungs (n=4). ****P

Citation: Mitigating lung damage, mortality due to SARS-CoV-2 (2021, October 5) retrieved 26 April 2024 from
https://medicalxpress.com/news/2021-10-mitigating-lung-mortality-due-sars-cov-.html

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