

Stroke scans could reveal COVID-19 infection

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New research from King's College London has found that COVID-19 may be diagnosed on the same emergency scans intended to diagnose stroke. The findings have important implications in the management of patients presenting with suspected stroke through early identification of COVID-19.

In a paper published today in the *American Journal* of *Neuroradiology*, study lead and Senior Lecturer in Neuroimaging at King's College London, Dr. Tom Booth said the emergency scans captured images of the top of the lungs where a fluffiness known as 'ground glass opacification' allowed COVID-19 to be diagnosed.

225 patients were examined from three London Hyper-Acute Stroke Units. The emergency <u>stroke</u> scan consisted of a <u>computed tomography</u> (CT) of the head and neck blood vessels.

Dr. Booth said the results show that when the team saw these changes in the top of the lungs during the emergency scan, they were able to reliably and

accurately diagnose COVID-19 and the changes also predicted <u>increased mortality</u>.

"This is particularly relevant given the limitations of currently available Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) reverse transcriptase-polymerase chain reaction (RT-PCR) testing as it takes time to complete the test and sometimes it is inaccurate," Dr. Booth said. "Additionally, our data have prognostic information given the increased mortality in those with lung changes shown in our cohort. These are useful results because the changes are simple for radiologists and other doctors to see. This is "free information" from a scan intended for another purpose yet extremely valuable."

Primarily, the findings allow earlier selection of the appropriate level of personal protective equipment (PPE) and attendant staff numbers, triage to appropriate inpatient ward settings, self-isolation and contact tracing.

Provided by King's College London

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