

Long COVID research: an update from the PHOSP-COVID Scientific Summit

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Key publications from the PHOSP-COVID Collaborative Group

- 1 Raman B, Cassar MP, Tunnicliffe EM, et al. Medium-term effects of SARS-CoV-2 infection on multiple vital organs, exercise capacity, cognition, quality of life and mental health, post-hospital discharge. *eClinicalMedicine* 2021; **31**: 100683.
- 2 Adeloye D, Elneima O, Daines L, et al. The long-term sequelae of COVID-19: an international consensus on research priorities for patients with pre-existing and new-onset airways disease. *Lancet Respir Med* 2021; **9**: 1467–78.
- 3 Evans RA, McAuley H, Harrison EM, et al. Physical, cognitive, and mental health impacts of COVID-19 after hospitalisation (PHOSP-COVID): a UK multicentre, prospective cohort study. *Lancet Respir Med* 2021; **9**: 1275–87.
- 4 Cassar MP, Tunnicliffe EM, Petousi N, et al. Symptom persistence despite improvement in cardiopulmonary health – insights from longitudinal CMR, CPET and lung function testing post-COVID-19. *eClinicalMedicine* 2021; **41**: 101159.
- 5 Routen A, O’Mahoney L, Ayoubkhani D, et al. Understanding and tracking the impact of long COVID in the United Kingdom. *Nat Med* 2022; **28**: 11–15.
- 6 Houchen-Wolloff L, Poinasamy K, Holmes K, et al. Joint patient and clinician priority setting to identify 10 key research questions regarding the long-term sequelae of COVID-19. *Thorax* 2022; **77**: 717–20.
- 7 The PHOSP-COVID Collaborative Group. Clinical characteristics with inflammation profiling of long COVID and association with 1-year recovery following hospitalisation in the UK: a prospective observational study. *Lancet Respir Med* 2022; **10**: 761–75.
- 8 Plekhanova T, Rowlands AV, Evans RA, et al. Device-assessed sleep and physical activity in individuals recovering from a hospital admission for COVID-19: a multicentre study. *Int J Behav Nutr Phys Act* 2022; **19**: 94.
- 9 Liew F, Talwar S, Cross A, et al. SARS-CoV-2-specific nasal IgA wanes 9 months after hospitalisation with COVID-19 and is not induced by subsequent vaccination. *eBioMedicine* 2023; **87**: 104402.
- 10 Daynes E, Baldwin M, Greening NJ, et al. The effect of COVID rehabilitation for ongoing symptoms Post HOSPitalisation with COVID-19 (PHOSP-R): protocol for a randomised parallel group controlled trial on behalf of the PHOSP consortium. *Trials* 2023; **24**: 61.
- 11 Daines L, Zheng B, Elneima O, et al. Characteristics and risk factors for post-COVID-19 breathlessness after hospitalisation for COVID-19. *ERJ Open Res* 2023; **9**: 00274-2022.

- 12 McAuley HJC, Evans RA, Bolton CE, et al. Prevalence of physical frailty, including risk factors, up to 1 year after hospitalisation for COVID-19 in the UK: a multicentre, longitudinal cohort study. *eClinicalMedicine* 2023; **57**: 101896.
- 13 Stewart I, Jacob J, George PM, et al. Residual lung abnormalities after COVID-19 hospitalization: interim analysis of the UKILD post-COVID-19 study. *Am J Respir Crit Care Med* 2023; **207**: 693–703.
- 14 Routen A, O’Mahoney L, Aiyegbusi OL, et al. Patient and public involvement within epidemiological studies of long COVID in the UK. *Nat Med* 2023; **9**: 771–77.
- 15 Jackson C, Stewart ID, Plekhanova T, et al. Effects of sleep disturbance on dyspnoea and impaired lung function following hospital admission due to COVID-19 in the UK: a prospective multicentre cohort study. *Lancet Respir Med* 2023; **11**: 673–84.
- 16 Zheng B, Vivaldi G, Daines L, et al. Determinants of recovery from post-COVID-19 dyspnoea: analysis of UK prospective cohorts of hospitalised COVID-19 patients and community-based controls. *Lancet Reg Health Eur* 2023; **29**: 100635.
- 17 Singh SJ, Baldwin MM, Daynes E, et al. Respiratory sequelae of COVID-19: pulmonary and extrapulmonary origins, and approaches to clinical care and rehabilitation. *Lancet Respir Med* 2023; **11**: 709–25.
- 18 Dawson C, Clunie G, Evison F, et al. Prevalence of swallow, Respiratory sequelae of COVID-19: pulmonary and extrapulmonary origins, and approaches to clinical care and rehabilitation. communication, voice and cognitive compromise following hospitalisation for COVID-19: the PHOSP-COVID analysis. *BMJ Open Respir Res* 2023; **10**: e001647.
- 19 Taquet M, Skorniewska Z, Hampshire A, et al. Acute blood biomarker profiles predict cognitive deficits 6 and 12 months after COVID-19 hospitalization. *Nat Med* 2023; published online Aug 31. <https://doi.org/10.1038/s41591-023-02525-y>.
- 20 The C-MORE/PHOSP-COVID Collaborative Group. Multiorgan MRI findings after hospitalisation with COVID-19 in the UK (C-MORE): a prospective, multicentre, observational cohort study. *Lancet Respir Med* 2023; published online Sept 22. [https://doi.org/10.1016/S2213-2600\(23\)00262-X](https://doi.org/10.1016/S2213-2600(23)00262-X).
- 21 Elneima O, McAuley HJC, Leavy OC, et al. Cohort profile: Post-hospitalisation COVID-19 study (PHOSP-COVID). *medRxiv* 2023; published online May 11. <https://doi.org/10.1101/2023.05.08.23289442> (preprint).

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