

Curriculum Vitae

Access template CV for other staff [here](#).

Title:	Forename/Initials	Surname
Professor	Peter W	Horby

Present appointment: *(Job title, department, and organisation.)*

Professor of Emerging Infectious Diseases
Centre for Tropical Medicine and Global Health
Nuffield Department of Medicine
University of Oxford

Start date for present appointment:

February 2006

Address: *(Full work address.)*

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Qualifications:

BSc
MBBS
MSc
PhD

Professional registration: *(Name of body, registration number and date of registration.)*

General Medical Council registration number: 3589395
(licensed to practice, revalidated December 2019)

Previous and other appointments: *(Include previous appointments in the last 5 years and other current appointments.)*

Research experience: *(Summary of research experience, including the extent of your involvement. Refer to any specific clinical or research experience relevant to the current application.)*

Established and led a clinical research unit since 2006. Focus on clinical and epidemiological research on a wide range of emerging and epidemic infections, including SARS, avian influenza, Hand Foot and Mouth Disease, Ebola, Lassa fever, monkeypox and plague. Led two large multi-centre European clinical studies for the Platform for European Preparedness Against Reemerging Epidemics (PREPARE). Conducted or conducting clinical trials in Ebola virus disease, plague, severe influenza, and COVID-19 in China.

Research training: *(Details of any relevant training in the design or conduct of research, for example in the Clinical Trials Regulations, Good Clinical Practice or other training appropriate to non-clinical research. Give the date of the training.)*

GCP - updated March 2020.

Relevant publications: (Give references to all publications in the last two years plus other publications relevant to the current application.)

Last two years.

1: Kayem ND, Benson C, Aye CYL, Barker S, Tome M, Kennedy S, Ariana P, Horby P. Lassa fever in pregnancy: a systematic review and meta-analysis. *Trans R Soc Trop Med Hyg.* 2020 Mar 3;traa011. doi: 10.1093/trstmh/traa011. Epub ahead of print. PMID: 32125412.

2: Wang C, Horby PW, Hayden FG, Gao GF. A novel coronavirus outbreak of global health concern. *Lancet.* 2020 Feb 15;395(10223):470-473. doi: 10.1016/S0140-6736(20)30185-9. Epub 2020 Jan 24. Erratum in: *Lancet.* 2020 Jan 29; PMID: 31986257.

3: Duvignaud A, Jaspard M, Etafo IC, Serra B, Abejegah C, Gabillard D, Douthi M, Alabi JF, Adedokun MA, Akinpelu AO, Oyegunle OO, Etafo J, Dede AO, Onyechi MN, Ireneh MU, Gbenga-Ayeni O, Fadiminyi KG, Ehigbor PI, Ouattara E, Levy-Marchal C, Karcher S, N'guessan-Koffi L, Ahyi I, Amani E, Diabaté M, Siloué B, Schaeffer J, Augier A, Ogbaini-Emovon E, Salam AP, Horby P, Ahmed LA, Günther S, Adedosu AN, Anglaret X, Ayodeji OO, Malvy D. Lassa fever clinical course and setting a standard of care for future randomized trials: A protocol for a cohort study of Lassa-infected patients in Nigeria (LASCOPE). *Travel Med Infect Dis.* 2020 Jan 21;101557. doi: 10.1016/j.tmaid.2020.101557. Epub ahead of print. PMID: 31978611.

4: Chen J, Zhu H, Horby PW, Wang Q, Zhou J, Jiang H, Liu L, Zhang T, Zhang Y, Chen X, Deng X, Nikolay B, Wang W, Cauchemez S, Guan Y, Uyeki TM, Yu H. Specificity, kinetics and longevity of antibody responses to avian influenza A(H7N9) virus infection in humans. *J Infect.* 2020 Mar;80(3):310-319. doi: 10.1016/j.jinf.2019.11.024. Epub 2020 Jan 16. PMID: 31954742.

5: Scott JT, Sharma R, Meredith LW, Dunning J, Moore CE, Sahr F, Ward S, Goodfellow I, Horby P; RAPIDE-TKM trial team. Pharmacokinetics of TKM-130803 in Sierra Leonean patients with Ebola virus disease: plasma concentrations exceed target levels, with drug accumulation in the most severe patients. *EBioMedicine.* 2020 Feb;52:102601. doi: 10.1016/j.ebiom.2019.102601. Epub 2020 Jan 14. PMID: 31953031; PMCID: PMC7033524.

6: Lee VJ, Aguilera X, Heymann D, Wilder-Smith A; Lancet Infectious Diseases Commission. Preparedness for emerging epidemic threats: a Lancet Infectious Diseases Commission. *Lancet Infect Dis.* 2020 Jan;20(1):17-19. doi: 10.1016/S1473-3099(19)30674-7. PMID: 31876487.

7: Wang Y, Fan G, Salam A, Horby P, Hayden FG, Chen C, Pan J, Zheng J, Lu B, Guo L, Wang C, Cao B; CAP-China Network. Comparative effectiveness of combined favipiravir and oseltamivir therapy versus oseltamivir monotherapy in critically ill patients with influenza virus infection. *J Infect Dis.* 2019 Dec 11;jiz656. doi: 10.1093/infdis/jiz656. Epub ahead of print. PMID: 31822885.

8: Baril L, Vallès X, Stenseth NC, Rajerison M, Ratsitorahina M, Pizarro-Cerdá J, Demeure C, Belmain S, Scholz H, Girod R, Hinnebusch J, Vigan-Womas I, Bertherat E, Fontanet A, Yazadanpanah Y, Carrara G, Deuve J, D'ortenzio E, Angulo JOC, Mead P, Horby PW. Can we make human plague history? A call to action. *BMJ Glob Health.* 2019 Nov 10;4(6):e001984. doi: 10.1136/bmjgh-2019-001984. PMID: 31799005; PMCID: PMC6861124.

9: Dodd LE, Follmann D, Proschan M, Wang J, Malvy D, van Griensven J, Ciglenecki I, Horby PW, Ansumana R, Jiang JF, Davey RT, Lane HC, Gouel-Cheron A. A meta-analysis of clinical studies conducted during the West Africa Ebola virus disease outbreak confirms the need for randomized control groups. *Sci Transl Med.* 2019 Nov 27;11(520):eaaw1049. doi: 10.1126/scitranslmed.aaw1049. PMID: 31776287.

- 10: Mulangu S, Dodd LE, Davey RT Jr, Tshiani Mbaya O, Proschan M, Mukadi D, Lusakibanza Manzo M, Nzolo D, Tshomba Oloma A, Ibanda A, Ali R, Coulibaly S, Levine AC, Grais R, Diaz J, Lane HC, Muyembe-Tamfum JJ; PALM Writing Group, Sivahera B, Camara M, Kojan R, Walker R, Dighero-Kemp B, Cao H, Mukumbayi P, Mbala-Kingebeni P, Ahuka S, Albert S, Bonnett T, Crozier I, Duvenhage M, Proffitt C, Teitelbaum M, Moench T, Aboulhab J, Barrett K, Cahill K, Cone K, Eckes R, Hensley L, Herpin B, Higgs E, Ledgerwood J, Pierson J, Smolskis M, Sow Y, Tierney J, Sivapalasingam S, Holman W, Gettinger N, Vallée D, Nordwall J; PALM Consortium Study Team. A Randomized, Controlled Trial of Ebola Virus Disease Therapeutics. *N Engl J Med*. 2019 Dec 12;381(24):2293-2303. doi: 10.1056/NEJMoa1910993. Epub 2019 Nov 27. PMID: 31774950.
- 11: Kayem ND, Rojek A, Denis E, Salam A, Reis A, Oliaro P, Horby P. Clinical REsearch During Outbreaks (CREDO) Training for Low- and Middle-Income Countries. *Emerg Infect Dis*. 2019 Nov;25(11):2084-2087. doi: 10.3201/eid2511.180628. PMID: 31625845; PMCID: PMC6810185.
- 12: Sigfrid L, Perfect C, Rojek A, Longuere KS, Lipworth S, Harriss E, Lee J, Salam A, Carson G, Goossens H, Horby P. A systematic review of clinical guidelines on the management of acute, community-acquired CNS infections. *BMC Med*. 2019 Sep 6;17(1):170. doi: 10.1186/s12916-019-1387-5. PMID: 31488138; PMCID: PMC6729038.
- 13: Rojek AM, Moran J, Horby PW. Core Minimal Datasets to Advance Clinical Research for Priority Epidemic Diseases. *Clin Infect Dis*. 2020 Feb 3;70(4):696-697. doi: 10.1093/cid/ciz760. PMID: 31406989.
- 14: Rojek AM, Salam A, Ragotte RJ, Liddiard E, Elhussain A, Carlqvist A, Butler M, Kayem N, Castle L, Odondi L', Stepniewska K, Horby PW. A systematic review and meta-analysis of patient data from the West Africa (2013-16) Ebola virus disease epidemic. *Clin Microbiol Infect*. 2019 Nov;25(11):1307-1314. doi: 10.1016/j.cmi.2019.06.032. Epub 2019 Jul 5. PMID: 31284032.
- 15: Sigfrid L, Moore C, Salam AP, Maayan N, Hamel C, Garritty C, Lutje V, Buckley B, Soares-Weiser K, Marshall R, Clarke M, Horby P. A rapid research needs appraisal methodology to identify evidence gaps to inform clinical research priorities in response to outbreaks-results from the Lassa fever pilot. *BMC Med*. 2019 Jun 11;17(1):107. doi: 10.1186/s12916-019-1338-1. PMID: 31185979; PMCID: PMC6560772.
- 16: Saxena A, Horby P, Amuasi J, Aagaard N, Köhler J, Gooshki ES, Denis E, Reis AA; ALERTT-WHO Workshop, Ravinetto R. Ethics preparedness: facilitating ethics review during outbreaks - recommendations from an expert panel. *BMC Med Ethics*. 2019 May 6;20(1):29. doi: 10.1186/s12910-019-0366-x. PMID: 31060618; PMCID: PMC6501283.
- 17: Perez-Guzman PN, Carlos Junior Alcantara L, Obolski U, de Lima MM, Ashley EA, Smithuis F, Horby P, Maude RJ, Lin Z, Kyaw AMM, Lourenço J. Measuring Mosquito-borne Viral Suitability in Myanmar and Implications for Local Zika Virus Transmission. *PLoS Curr*. 2018 Sep 28;10:ecurrents.outbreaks.7a6c64436a3085ebba37e5329ba169e6. doi: 10.1371/currents.outbreaks.7a6c64436a3085ebba37e5329ba169e6 . Erratum in: *PLoS Curr*. 2018 Oct 10;10: PMID: 31032144; PMCID: PMC6472868.
- 18: Wang Y, Fan G, Horby P, Hayden F, Li Q, Wu Q, Zou X, Li H, Zhan Q, Wang C, Cao B; CAP-China Network. Comparative Outcomes of Adults Hospitalized With Seasonal Influenza A or B Virus Infection: Application of the 7-Category Ordinal Scale. *Open Forum Infect Dis*. 2019 Feb 15;6(3):ofz053. doi: 10.1093/ofid/ofz053. PMID: 30895200; PMCID: PMC6419989.
- 19: Choisy M, Trinh ST, Nguyen TND, Nguyen TH, Mai QL, Pham QT, Tran ND, Dang DA, Horby PW, Boni MF, Bryant J, Lewycka SO, Nadjm B, Van Doorn HR, Wertheim HFL. Sero-Prevalence Surveillance to Predict Vaccine-Preventable Disease Outbreaks; A Lesson from the 2014 Measles Epidemic in Northern Vietnam. *Open Forum Infect Dis*. 2019 Jan 24;6(3):ofz030. doi: 10.1093/ofid/ofz030. PMID:

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20: Kamau E, Harvala H, Blomqvist S, Nguyen D, Horby P, Pebody R, Simmonds P. Increase in Enterovirus D68 Infections in Young Children, United Kingdom, 2006-2016. *Emerg Infect Dis*. 2019 Jun;25(6):1200-1203. doi: 10.3201/eid2506.181759. Epub 2019 Jun 17. PMID: 30855226; PMCID: PMC6537723.

21: Battista MC, Loignon C, Benhadj L, Nouvet E, Murthy S, Fowler R, Adhikari NKJ, Haj-Moustafa A, Salam AP, Chan AK, Mishra S, Couturier F, Hudon C, Horby P, Bedell R, Rekart M, Hajek J, Lamontagne F. Priorities, Barriers, and Facilitators towards International Guidelines for the Delivery of Supportive Clinical Care during an Ebola Outbreak: A Cross-Sectional Survey. *Viruses*. 2019 Feb 23;11(2):194. doi: 10.3390/v11020194. PMID: 30813456; PMCID: PMC6409845.

22: Huong VTL, Turner HC, Kinh NV, Thai PQ, Hoa NT, Horby P, van Doorn HR, Wertheim HFL. Burden of disease and economic impact of human *Streptococcus suis* infection in Viet Nam. *Trans R Soc Trop Med Hyg*. 2019 Jun 1;113(6):341-350. doi: 10.1093/trstmh/trz004. PMID: 30809669; PMCID: PMC6580695.

23: Rampling T, Page M, Horby P. International Biological Reference Preparations for Epidemic Infectious Diseases. *Emerg Infect Dis*. 2019 Feb;25(2):205-211. doi: 10.3201/eid2502.180798. PMID: 30666925; PMCID: PMC6346470.

24: Murthy S, Carson G, Horby P, Merson L, Webb S. Clinical research networks and assessing pandemic severity. *Lancet Glob Health*. 2019 Jan;7(1):e33. doi: 10.1016/S2214-109X(18)30413-3. PMID: 30554759.

25: Chen Y, Chong CY, Cook AR, Sim NTW, Horby P, La HH. Temporal relationship between occurrences of hand, foot and mouth disease, respiratory virus detection and febrile seizures in children in tropical Singapore: a time-series analysis. *Epidemiol Infect*. 2018 Sep 13;1-6. doi: 10.1017/S0950268818002509. Epub ahead of print. PMID: 30208978.

26: Brueckner M, Titman A, Jaki T, Rojek A, Horby P. Performance of different clinical trial designs to evaluate treatments during an epidemic. *PLoS One*. 2018 Sep 11;13(9):e0203387. doi: 10.1371/journal.pone.0203387. PMID: 30204799; PMCID: PMC6133355.

27: Horby P. Improving preparedness for the next flu pandemic. *Nat Microbiol*. 2018 Aug;3(8):848-850. doi: 10.1038/s41564-018-0206-7. PMID: 30046169.

28: Wang X, Wu P, Pe Y, Tsang TK, Gu D, Wang W, Zhang J, Horby PW, Uyeki TM, Cowling BJ, Yu H. Assessment of Human-to-Human Transmissibility of Avian Influenza A(H7N9) Virus Across 5 Waves by Analyzing Clusters of Case Patients in Mainland China, 2013-2017. *Clin Infect Dis*. 2019 Feb 1;68(4):623-631. doi: 10.1093/cid/ciy541. PMID: 29961834; PMCID: PMC6355824.

29: Zhao M, Chen J, Tan S, Dong T, Jiang H, Zheng J, Quan C, Liao Q, Zhang H, Wang X, Wang Q, Bi Y, Liu F, Feng L, Horby PW, Klennerman P, Gao GF, Liu WJ, Yu H. Prolonged Evolution of Virus-Specific Memory T Cell Immunity after Severe Avian Influenza A (H7N9) Virus Infection. *J Virol*. 2018 Aug 16;92(17):e01024-18. doi: 10.1128/JVI.01024-18. PMID: 29925664; PMCID: PMC6096810.

30: Gao L, Zou G, Liao Q, Zhou Y, Liu F, Dai B, Liu J, Chen Z, Xing W, Yang L, Liang H, Zhang Y, Chen Z, Luo L, Li Q, Luo K, Wu P, Mo X, Wang L, Lan K, Horby PW, Cowling BJ, Simmonds P, Altmeyer R, van Doorn HR, Yu H. Spectrum of Enterovirus Serotypes Causing Uncomplicated Hand, Foot, and Mouth Disease and Enteroviral Diagnostic Yield of Different Clinical Samples. *Clin Infect Dis*. 2018 Nov 13;67(11):1729-1735. doi: 10.1093/cid/ciy341. PMID: 29688329.

31: Whitehead J, Horby P. Correction: GOST: A generic ordinal sequential trial design for a treatment trial in an emerging pandemic. *PLoS Negl Trop Dis*. 2018 Apr 13;12(4):e0006414. doi: 10.1371/journal.pntd.0006414. Erratum for: *PLoS Negl Trop Dis*. 2017 Mar 9;11(3):e0005439. PMID: 29652883; PMCID: PMC5898704.

32: Rojek AM, Gkolfinopoulou K, Veizis A, Lambrou A, Castle L, Georgakopoulou T, Blanchet K, Panagiotopoulos T, Horby PW; Epidemic Diseases Research Group field team. Clinical assessment is a neglected component of outbreak preparedness: evidence from refugee camps in Greece. *BMC Med*. 2018 Mar 19;16(1):43. doi: 10.1186/s12916-018-1015-9. PMID: 29551092; PMCID: PMC5858141.

33: Sigfrid L, Eckerle I, Papa A, Horby P, Koopmans M, Reusken C. Strengthening preparedness for (re-) emerging arboviruses in Europe. *Clin Microbiol Infect*. 2018 Mar;24(3):219-220. doi: 10.1016/j.cmi.2018.02.001. PMID: 29496185.

34: Harvala H, Broberg E, Benschop K, Berginc N, Ladhani S, Susi P, Christiansen C, McKenna J, Allen D, Makiello P, McAllister G, Carmen M, Zakikhany K, Dyrda R, Nielsen X, Madsen T, Paul J, Moore C, von Eije K, Piralla A, Carlier M, Vanoverschelde L, Poelman R, Anton A, López-Labrador FX, Pellegrinelli L, Keeren K, Maier M, Cassidy H, Derdas S, Savolainen-Kopra C, Diedrich S, Nordbø S, Buesa J, Bailly JL, Baldanti F, MacAdam A, Mirand A, Dudman S, Schuffenecker I, Kadambari S, Neyts J, Griffiths MJ, Richter J, Margaretto C, Govind S, Morley U, Adams O, Krokstad S, Dean J, Pons-Salort M, Prochazka B, Cabrerizo M, Majumdar M, Nebbia G, Wiewel M, Cottrell S, Coyle P, Martin J, Moore C, Midgley S, Horby P, Wolthers K, Simmonds P, Niesters H, Fischer TK. Recommendations for enterovirus diagnostics and characterisation within and beyond Europe. *J Clin Virol*. 2018 Apr;101:11-17. doi: 10.1016/j.jcv.2018.01.008. Epub 2018 Feb 6. PMID: 29414181.

35: Salam AP, Horby P. Isolation of viable Zika virus from spermatozoa. *Lancet Infect Dis*. 2018 Feb;18(2):144. doi: 10.1016/S1473-3099(18)30020-3. PMID: 29412962.

36: Rojek AM, Dunning J, Leliogdowicz A, Castle L, Van Lieshout M, Carson G, Sahr F, Oliaro P, Horby PW. Regulatory and Operational Complexities of Conducting a Clinical Treatment Trial During an Ebola Virus Disease Epidemic. *Clin Infect Dis*. 2018 Apr 17;66(9):1454-1457. doi: 10.1093/cid/cix1061. PMID: 29206908; PMCID: PMC5905621.

37: Huong VTL, Long HB, Kinh NV, Ngan TTD, Dung VTV, Nadjm B, van Doorn HR, Hoa NT, Horby P, Wertheim HFL. Long-term outcomes of patients with *Streptococcus suis* infection in Viet Nam: A case-control study. *J Infect*. 2018 Feb;76(2):159-167. doi: 10.1016/j.jinf.2017.09.019. Epub 2017 Sep 29. PMID: 28970042; PMCID: PMC5790056.

38: Sigfrid L, Reusken C, Eckerle I, Nussenblatt V, Lipworth S, Messina J, Kraemer M, Ergonul O, Papa A, Koopmans M, Horby P. Preparing clinicians for (re-)emerging arbovirus infectious diseases in Europe. *Clin Microbiol Infect*. 2018 Mar;24(3):229-239. doi: 10.1016/j.cmi.2017.05.029. Epub 2017 Jun 23. PMID: 28648861.

Other relevant publications.

IFITM3, TLR3, and CD55 Gene SNPs and Cumulative Genetic Risks for Severe Outcomes in Chinese Patients With H7N9/H1N1pdm09 Influenza
N Lee et al. *J Infect Dis* 216 (1), 97-104. 2017. PMID 28510725.

Modernising Epidemic Science: Enabling Patient-Centred Research During Epidemics
AM Rojek et al. *BMC Med* 14 (1), 212. 2016. PMID 27989237.

Efficacy of Convalescent Plasma in Relation to Dose of Ebola Virus Antibodies
J van Griensven et al. *N Engl J Med* 375 (23), 2307-2309. 2016. PMID 27959686.

Experimental Treatment of Ebola Virus Disease With Brincidofovir
J Dunning et al. *PLoS One* 11 (9), e0162199. 2016. PMID 27611077. - Clinical Trial

Experimental Treatment of Ebola Virus Disease With TKM-130803: A Single-Arm Phase 2 Clinical Trial
J Dunning et al. *PLoS Med* 13 (4), e1001997. 2016. PMID 27093560. - Clinical Trial

Evaluation of Convalescent Plasma for Ebola Virus Disease in Guinea

J van Griensven et al. N Engl J Med 374 (1), 33-42. 2016. PMID 26735992. - Clinical Trial

Evaluating Clinical Trial Designs for Investigational Treatments of Ebola Virus Disease

BS Cooper et al. PLoS Med 12 (4), e1001815. 2015. PMID 25874579.

Signature: _____



Date: _____

12th March 2020