

THE LANCET

Microbe

Supplementary appendix

This appendix formed part of the original submission and has been peer reviewed. We post it as supplied by the authors.

Supplement to: The COVID-19 Genomics UK (COG-UK) consortium. An integrated national scale SARS-CoV-2 genomic surveillance network. *Lancet Microbe* 2020; published online June 2. [https://doi.org/10.1016/S2666-5247\(20\)30054-9](https://doi.org/10.1016/S2666-5247(20)30054-9).

Appendix

COG-UK author list

David M Aanensen^{1,2}, Khalil Abudahab^{1,2}, Alexander Adams³, Safiah Afifi⁴, Mohammed T Alam⁵, Alex Alderton⁶, Nabil-Fareed Alikhan⁷, John Allan⁸, Mai Almsaud⁹, Abdulrahman Alrezaihi⁹, Muhannad Alruwaili⁹, Roberto Amato⁶, Monique Andersson¹⁰, Adrienn Angyal¹¹, Elihu Aranday-Cortes¹², Cristina Ariani⁶, Stuart D Armstrong⁹, Patawee Asamaphan¹², Stephen Attwood¹³, Alp Aydin⁷, Anjna Badhan¹⁴, David Baker⁷, Paul Baker¹⁵, Carlos E Balcazar¹⁶, Jonathan Ball¹⁷, Edward Barton¹⁸, Matthew Bashton⁸, Laura Baxter⁵, Matthew Beale⁶, Charlotte Beaver⁶, Angela Beckett¹⁹, Rob Beer⁴, Andrew Beggs²⁰, Andrew Bell⁷, Katherine L Bellis^{6,21}, Eleanor G Bentley⁹, Matt Berriman⁶, Emma Betteridge⁶, David Bibby²², Kelly Bicknell²³, Alec Birchley³, Gary Black⁸, Beth Blane²¹, Samuel Bloomfield⁷, Frankie Bolt^{24,25}, David G Bonsall²⁶, Andrew Bosworth²⁷, Yann Bourgeois²⁸, Olivia Boyd²⁹, Daniel Bradshaw²², Judy Breuer³⁰, Hannah Bridgewater⁵, Tony Brooks³⁰, Alice Broos¹², Julianne R Brown³¹, Rebecca L Brown¹¹, Kirstyn Bruncker¹², Giselda Bucca³², David Buck²⁶, Matthew Bull³, Ethan Butcher²³, Sarah L Caddy³³, Laura G Caller³⁴, Sharon Cambell³⁵, Matthew Carlile³⁶, Stephen Carmichael¹², Laura Carrilero¹¹, Sergi Castellano³⁰, Jennifer Chaloner³⁷, Meera Chand²², Michael R Chapman^{6,21,38}, Joseph Chappell¹⁷, Ian Charles⁷, Anoop J Chauhan²³, Anu Chawla³⁹, Jeff Cheng⁵, Carol M Churcher²¹, Gemma Clark⁴⁰, Jordan J Clark⁹, Jennifer Collins⁴¹, Rachel Colquhoun¹⁶, Thomas R Connor^{3,42}, Chrystala Constantinidou⁵, Jason Coombes³, Sally Corden³, Simon Cottrell³, Angela Cowell³⁹, Martin D Curran^{27,43}, Tanya Curran^{44,45}, Gavin Dabrera²², John Danesh⁶, Alistair C Darby⁹, Mariateresa de Cesare²⁶, Leonardo de Oliveira Martins⁷, Thushan I de Silva^{11,46}, Bisrat Debebe³⁶, Samir Dervisevic⁴⁷, Rebecca A Dewar^{16,48}, Maria Diaz⁷, Matthew Dorman⁶, Gordon Dougan⁴⁹, Lynn Dover⁸, Fatima Downing³, Eleanor Drury⁶, Louis du Plessis¹³, Patricia L Dyal³⁰, Richard Eccles⁹, Sue Edwards³, Nicholas Ellaby²², Scott Elliott²³, Gary Eltringham⁴¹, Ngozi Elumogo⁴⁷, Sarah Essex¹⁵, Cariad M Evans⁴⁶, Johnathan Evans³, Fabricia F. Nascimento²⁹, Derek J Fairley^{44,45}, Ben Farr⁶, Theresa Feltwell⁴⁹, Neil Ferguson²⁹, Ana da Silva Filipe¹², Jacqueline Findlay³⁰, Leysa M Forrest³⁰, Sally Forrest²¹, Luke Foulser⁶, Sarah Francois¹³, Christophe Fraser²⁶, Lucy Frost⁵, Eileen Gallagher²², Michael D Gallagher¹⁶, Isabel García-Dorival⁹, Amy Gaskin³, Bree Gatica-Wilcox³, Artemis Gavriil³⁰, Lily Geidelberg²⁹, Matthew Gemmell⁹, Alessandro Gerada³⁹, Laura Gifford³, Lauren Gilbert³, Paul Gilmore⁹, Rachel Gilroy⁷, Sophia Girgis²¹, Sharon Glaysher²³, Tanya Golubchik²⁶, Sonia Goncalves⁶, Ian Goodfellow³⁴, Scott Goodwin⁶, Clive Graham¹⁸, Lee Graham³, Dimitris Grammatopoulos²⁰, Angie Green²⁶, Luke R Green¹¹, Jane Greenaway¹⁵, Richard Gregory⁹, Danielle C Groves¹¹, Natalie Groves²², Martyn Guest⁴², Rory Gunson⁵⁰, Sam Haldenby⁹, Grant Hall³⁴, William L Hamilton⁵¹, Ximeng Han⁹, Kathryn A Harris³¹, Ewan M Harrison^{6,21}, Catherine Hartley⁹, Carolina Herrera⁵², Andrew Hesketh³², David Heyburn³, Verity Hill¹⁶, Julian A Hiscox⁹, Matthew Holden^{53,54}, Alison Holmes^{24,25}, Nadine Holmes³⁶, Giles S Holt⁵⁵, Rich Hopes⁵⁶, Myra Hosmillo³⁴, Charlotte J Houldcroft⁴⁹, Hannah Howson-Wells⁴⁰, Jonathan Hubb²², Joseph Hughes¹², Margaret Hughes⁹, Stephanie Hutchings⁵⁶, Robert Impey²³, Miren Iturriza-Gomara⁹, Adam Jackson⁶, Ben Jackson¹⁶, David K Jackson⁶, Aminu S Jahun³⁴, Keith James⁶, Dorota Jamrozy⁶, Aaron Jeffries⁵⁷, Natasha Jesudason¹², Michaela John⁴, James Johnson⁹, Katie J Johnson⁴⁶, Natasha Johnson¹², Ian Johnston⁶, Benjamin Jones⁹, Rachel Jones³, Sophie Jones³, David Jorgensen²⁹, Leanne Kane⁶, Gemma L Kay⁷, Sally Kay⁶, Jon-Paul Keatley⁶,

Alexander J Keeley^{11,46}, Manjinder Khakh⁴⁰, Fahad A Khokhar⁴⁹, Christine Kitchen⁴², Bridget Knight⁵⁸, Anastasia Kolyva⁷, Moritz Kraemer¹³, Mark Kristiansen³⁰, Sara Kumziene-Summerhayes³, Dominic Kwiatkowski^{2,6}, Angie Lackenby²², Cordelia Langford⁶, Mara Lawniczak⁶, Thanh Le-Viet⁷, David Lee²², Laura Letchford⁶, Kathy Li¹², Ling Li²⁴, Steve Liggett¹⁵, Benjamin B Lindsey^{11,46}, Rich Livett⁶, Allyson Lloyd²³, Stephanie Lo⁶, Michael Lockhart⁵³, Joshua Loh⁸, Nicholas J Loman⁵⁹, Matthew Loose³⁶, Anita Lucaci⁹, Catherine Ludden⁶, Lisa Luu⁹, Ronan A Lyons⁶⁰, George MacIntyre-Cockett²⁶, Alasdair MacLean⁵⁰, Daniel Mair¹², Josh Maksimovic⁴, Robyn Manley⁵⁷, Carmen Manso²², Jenifer Manson³⁹, Inigo Martincorena⁶, Jane Masoli⁶¹, Alison E Mather⁷, Tamyo Mbisa²², Kathryn McCluggage⁴, Patrick McClure¹⁷, JT McCrone¹⁶, Sarah McDonald¹², Martin P McHugh^{16,48,54}, James M McKenna^{44,45}, Liz McMinn⁶, Claire McMurray⁵⁹, Lizzie Meadows⁷, Mirko Menegazzo^{1,2}, Luke W Meredith³⁴, Ian Merrick⁴², Lamia Mestek-Boukhibar³⁰, Shahjahan Miah²², Stephen Michell⁵⁷, Michelle L Michelsen⁵⁷, Zoltan Molnar⁴⁵, Catherine Moore³, Catrin Moore¹⁰, Christopher Moore³⁶, Nathan Moore⁶², Mari Morgan³, Sian Morgan⁴, Dawn Muddyman^{1,2}, David A Muir²⁴, Peter Muir⁵⁶, Richard Myers²², Eleni Nastouli⁶³, Plamena Naydenova²¹, Andrew Nelson⁶⁴, Charlotte Nelson⁹, Rachel Nelson⁶, Samuel Nicholls⁵⁹, Jenna Nichols¹², Marc Niebel¹², Paola Niola³⁰, Kyriaki Nomikou¹², Justin O'Grady⁷, Áine N O'Toole¹⁶, Elaine O'Toole³⁹, Cassie Olateju³⁹, Richard J Orton¹², Husam Osman²⁷, Sascha Ott²⁰, Nicole Pacchiarini³, Debra Padgett¹⁸, Andrew J Page⁷, Sophie Palmer²¹, Steve Palmer⁶, Yasmin N Panchbhaya³⁰, Sarojini Pandey⁵, Naomi Park⁶, Matthew D Parker¹¹, Julian Parkhill⁶⁵, Yasmin A Parr¹², Paul J Parsons¹¹, David G Partridge⁴⁶, Minal Patel⁶, Steve Patterson⁹, Brendan Payne⁴¹, Sharon J Peacock^{21,27}, Rebekah Penrice-Randal⁹, Malorie Perry³, Steven Platt²², Radoslaw Poplawski⁵⁹, Reenesh Prakash⁴⁷, Liam Prestwood⁶, Anna Price⁴², James R Price^{24,25}, Christoph Puethe⁶, Oliver Pybus¹³, Hannah Pymont⁵⁶, Mike Quail⁶, Joshua Quick⁵⁹, Jayna Raghwan¹³, Manon Ragonnet-Cronin²⁹, Saadia Rahman³⁰, Lucille Rainbow⁹, Shavanthi Rajatileka⁶, Andrew Rambaut¹⁶, Mary Ramsay²², Paul A Randell²⁴, Nadine P Randle⁹, Veena Raviprakash³⁵, Mohammad Raza⁴⁶, Paola Resende Silva³⁰, Sara Rey³, Alex Richter²⁰, David L Robertson¹², Trevor Ian Robinson³⁹, Samuel C Robson¹⁹, Stefan Rooke¹⁶, Aileen Rowan¹⁴, Will Rowe⁵⁹, Sunando Roy³⁰, Steven Rudder⁷, Chris Ruis²¹, Fei Sang³⁶, Garry Scarlett²⁸, Ulf Schaefer²², Carol Scott⁶, Garren Scott¹⁸, Dheeraj Sethi⁴⁷, Sharif Shaaban⁵³, Rajiv Shah¹², Parul Sharma⁹, Ghada T Shawli⁹, James Shepherd¹², Nicola Sherriff³⁵, Lesley Shirley⁶, John Sillitoe⁶, David A Simpson⁴⁵, Joshua B Singer¹², Igor Siveroni²⁹, Christen Smith⁶, Colin P Smith³², Darren L Smith⁶⁴, Nikki Smith¹¹, Wendy Smith⁴⁰, Alison Smith-Palmer⁵³, Katherine Smollett¹², Joel Southgate^{3,42}, Karla Spellman⁴, Michael Spencer-Chapman⁶, Sushmita Sridhar²¹, Rachael Stanley⁴⁷, Richard Stark⁵, James P Stewart⁹, Joanne Stockton⁵⁹, Claire Stuart⁴⁷, David Studholme⁵⁷, Neil Swainston⁹, Emma Swindells⁶⁶, Yusri Taha⁴¹, Mohammad A Tariq⁶⁷, Ben Taylor^{1,2}, Graham P Taylor¹⁴, Sarah Taylor³, Grace Taylor-Joyce⁵, Ana P Tedim⁷, Ben Temperton⁵⁷, Kate E Templeton^{16,48}, Emma C Thomson¹², Nicholas M Thomson⁷, Alicia Thornton²², Scott Thurston⁶, John Todd²⁶, Lily Tong¹², Gerry Tonkin-Hill⁶, M. Estée Török⁴⁹, Amy Trebes²⁶, Alexander J Trotter⁷, Theocharis Tsoleridis¹⁷, Rachel M Tucker¹¹, Helena J Tutill³⁰, Anthony Underwood^{1,2}, Meera Unnikrishnan⁵, Ecaterina Vamos⁹, Tetyana Vasylyeva¹³, Sreenu Vattipally¹², Ana Victoria⁷, Barry Vipond⁵⁶, Erik M Volz²⁹, John Wain⁷, Dennis Wang¹¹, Joanna Warwick-Dugdale⁵⁷, Elizabeth Wastnedge⁴⁸, Joanne Watkins³, Joanne Watts³⁹, Mark Webber⁷, Sam Weeks³⁰, Danni Weldon⁶, Mark Whitehead⁹, Charlotte A Williams³⁰, Chris Williams³, David Williams²², Rachel Williams³⁰, Thomas C Williams^{16,48}, Emma

Wise⁶², Victoria Wright³⁶, Matthew D Wyles¹¹, Sarah Wyllie²³, Anna Yakovleva³⁴, Muhammad Yasir⁷, Corin Yeats^{1,2}, Wen C Yew⁸, Greg R Young⁸, Xiaoyu Yu¹⁶, Alex Zarebski¹³

Affiliations

¹Centre for Genomic Pathogen Surveillance, ²University of Oxford, ³Public Health Wales NHS Trust, ⁴Cardiff and Vale University Health Board, ⁵University of Warwick, ⁶Wellcome Sanger Institute, ⁷Quadram Institute Bioscience, ⁸Northumbria University, ⁹University of Liverpool, ¹⁰John Radcliffe Hospital, ¹¹University of Sheffield, ¹²MRC University of Glasgow Centre for Virus Research, ¹³Department of Zoology, University of Oxford, ¹⁴Section of Virology, Imperial College London, ¹⁵South Tees Hospitals NHS Foundation Trust, ¹⁶University of Edinburgh, ¹⁷Life Sciences, University of Nottingham, Nottingham, ¹⁸North Cumbria Integrated Care NHS Foundation Trust, ¹⁹Centre for Enzyme Innovation, University of Portsmouth, ²⁰University Hospitals Coventry and Warwickshire, ²¹University of Cambridge, ²²PHE Colindale, ²³Portsmouth Hospitals NHS Trust, ²⁴Imperial College Healthcare NHS Trust, ²⁵NIHR Health Protection Research Unit in Healthcare Associated Infections and Antimicrobial Resistance, Imperial College London, ²⁶Nuffield Department of Medicine, University of Oxford, ²⁷Public Health England, ²⁸University of Portsmouth, ²⁹Imperial College London, ³⁰University College London, ³¹Great Ormond Street Hospital for Children NHS Foundation Trust, ³²University of Brighton, ³³Cambridge Institute for Therapeutic Immunology and Infectious Disease, University of Cambridge, ³⁴Division of Virology, Department of Pathology, University of Cambridge, ³⁵County Durham and Darlington NHS Foundation Trust, ³⁶DeepSeq, Life Sciences, University of Nottingham, ³⁷Northumbria Healthcare NHS Foundation Trust, ³⁸Health Data Research UK Cambridge, ³⁹Liverpool University Hospitals NHS Foundation Trust, ⁴⁰Nottingham University Hospitals NHS Trust, ⁴¹Newcastle upon Tyne Hospitals NHS Foundation Trust, ⁴²Cardiff University, ⁴³Cambridge University Hospitals NHS Foundation Trust, ⁴⁴Belfast Health and Social Care Trust, ⁴⁵Queen's University Belfast, ⁴⁶Sheffield Teaching Hospitals NHS Foundation Trust, ⁴⁷Norfolk and Norwich University Hospitals NHS Foundation Trust, ⁴⁸NHS Lothian, ⁴⁹Department of Medicine, University of Cambridge, ⁵⁰West of Scotland specialist virology centre, NHS greater Glasgow and Clyde, ⁵¹Cambridge University Hospital NHS Foundation Trust, ⁵²Section of Mucosal Infection and Immunity, Imperial College London, ⁵³Public Health Scotland, ⁵⁴University of St Andrews, ⁵⁵Newcastle University, ⁵⁶PHE South West Regional Laboratory, ⁵⁷University of Exeter, ⁵⁸NIHR Exeter Clinical Research Facility, ⁵⁹Institute of Microbiology and Infection, University of Birmingham, ⁶⁰Swansea University, ⁶¹University of Exeter Medical School, ⁶²University of Surrey, ⁶³University College London Hospitals NHS Foundation Trust, ⁶⁴NU-OMICS, Northumbria University, ⁶⁵Department of Veterinary Medicine, University of Cambridge, ⁶⁶North Tees and Hartlepool Hospitals NHS Foundation Trust, ⁶⁷Quadram Institute

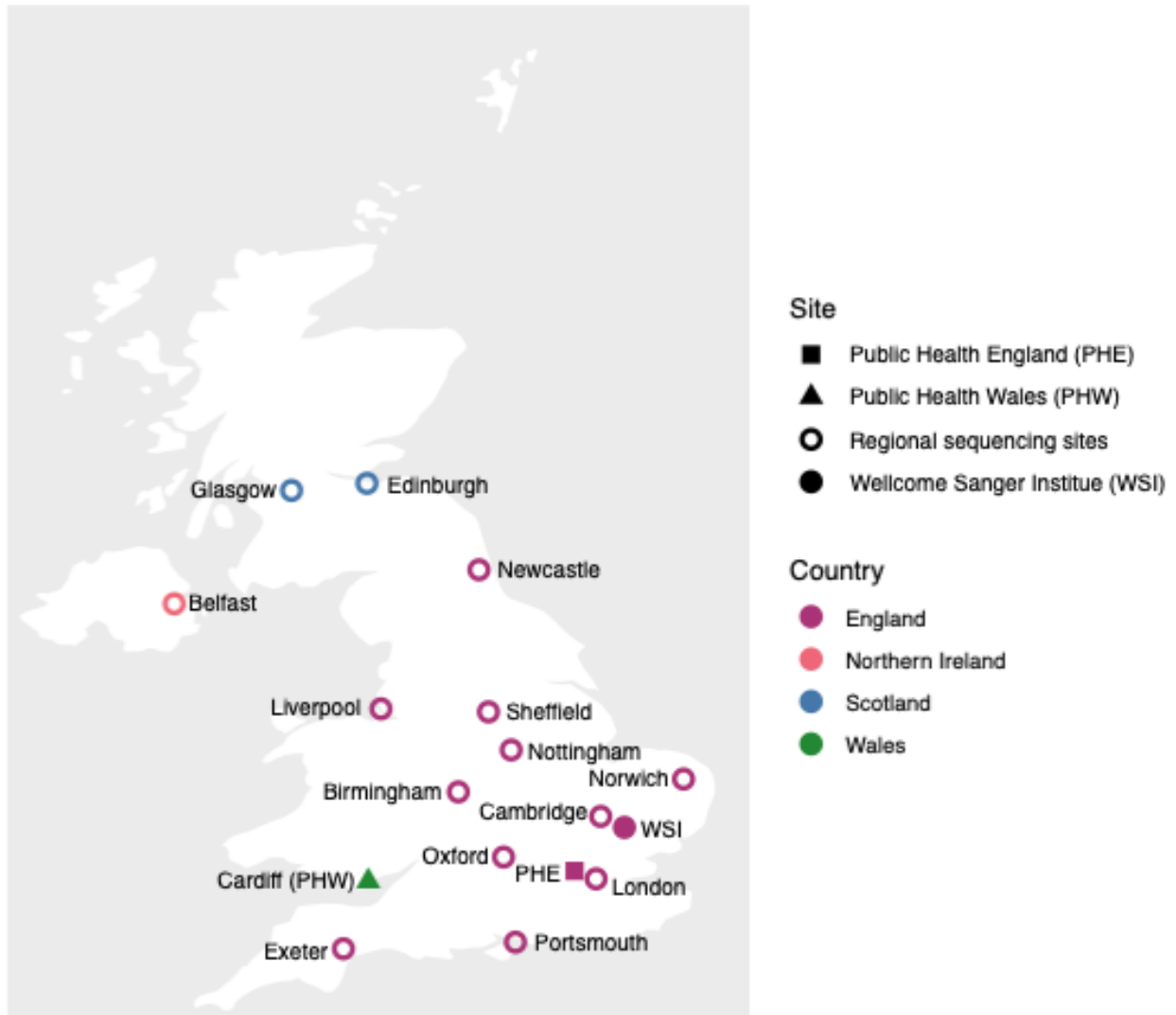


Figure: Locations of current COG-UK consortium sequencing sites across the UK.