

We gratefully acknowledge the following Authors from the Originating laboratories responsible for obtaining the specimens, as well as the Submitting laboratories where the genome data were generated and shared via GISAID, on which this research is based.

All Submitters of data may be contacted directly via www.gisaid.org

Authors are sorted alphabetically.

Accession ID	Originating Laboratory	Submitting Laboratory	Authors
EPI_ISL_1074028, EPI_ISL_1074032, EPI_ISL_1074053, EPI_ISL_1074054, EPI_ISL_1074055, EPI_ISL_1074056, EPI_ISL_1074057, EPI_ISL_1074058, EPI_ISL_1074059, EPI_ISL_1074060, EPI_ISL_1074061, EPI_ISL_1074062, EPI_ISL_1074063, EPI_ISL_1074064, EPI_ISL_1074065, EPI_ISL_1074066, EPI_ISL_1074067, EPI_ISL_1074068, EPI_ISL_1074085, EPI_ISL_1074086, EPI_ISL_1074087, EPI_ISL_1074089, EPI_ISL_1074092, EPI_ISL_1074094, EPI_ISL_1074100, EPI_ISL_1074103, EPI_ISL_1074106, EPI_ISL_1074112, EPI_ISL_1074115, EPI_ISL_1074120, EPI_ISL_1074126, EPI_ISL_1074127, EPI_ISL_1074137, EPI_ISL_1074146, EPI_ISL_1074152, EPI_ISL_1074153, EPI_ISL_1074154, EPI_ISL_1074156, EPI_ISL_1074157, EPI_ISL_1074158, EPI_ISL_1074159, EPI_ISL_1074160, EPI_ISL_1074161, EPI_ISL_1074169, EPI_ISL_1074170, EPI_ISL_1074171, EPI_ISL_1074172, EPI_ISL_1074173, EPI_ISL_1074188, EPI_ISL_1074192, EPI_ISL_1074195, EPI_ISL_1074212, EPI_ISL_1074213, EPI_ISL_1074214, EPI_ISL_1074224, EPI_ISL_1074234, EPI_ISL_1074245, EPI_ISL_1074246, EPI_ISL_1074253, EPI_ISL_1074255, EPI_ISL_1074256, EPI_ISL_1074257, EPI_ISL_1074259, EPI_ISL_1074275, EPI_ISL_1074276, EPI_ISL_1074277, EPI_ISL_1074278, EPI_ISL_1074279, EPI_ISL_1074280, EPI_ISL_1074281, EPI_ISL_1074282			
see above	Virology Laboratory, Ricardo Gutiérrez Children's Hospital	Vanderbilt University Medical Center / Virology Laboratory, Ricardo Gutiérrez Children's Hospital	Goya, Stephanie; Lucion, Maria Florencia; Juarez, Maria del Valle; Shiits, Meghan; Gentile, Angela; Mistchenko, Alicia S.; Das, Suman# & Viegas, Mariana# (#contributed equally to this study)
EPI_ISL_10914987	VIC, Victorian Infectious Diseases Reference Laboratory	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Annette Alafaci,Yi-Mo Deng, Naomi Komadina, Ammar Aziz
EPI_ISL_10954007, EPI_ISL_10954008, EPI_ISL_10954009	Respiratory Virus Unit, Specialised Microbiology and Laboratories Directorate, UK Health Security Agency	Respiratory Virus Unit, Specialised Microbiology and Laboratories Directorate, UK Health Security Agency	Zambon M, Talts T, Ellis J, Miah S, Platt S
EPI_ISL_11019782, EPI_ISL_11019880	NAKORNPING HOSPITAL	National Institute of Health, Department of Medical Sciences, Ministry of Public Health, Thailand	Siripaporn Phuygun; Pakorn Piromtong; Thanutsapa Thanadachakul; Natchaya Khiaadsang; Sunthareeya Waicharoen; Malinee Chittaganpitch; Pilailuk Akkapaiboon Okada
EPI_ISL_11050303	Phra Nakhon Si Ayutthaya Hospital	National Institute of Health, Department of Medical Sciences, Ministry of Public Health, Thailand	Siripaporn Phuygun; Pakorn Piromtong; Thanutsapa Thanadachakul; Natchaya Khiaadsang; Sunthareeya Waicharoen; Malinee Chittaganpitch; Pilailuk Akkapaiboon Okada
EPI_ISL_11055715	Rahima Moosa Mother and child Hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_11055716, EPI_ISL_11055717	Agincourt clinic	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_11055718	Edendale Gateway clinic	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_11055719, EPI_ISL_11055720	Edendale hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_11055721	Edendale Gateway clinic	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_11055722, EPI_ISL_11055723	Edendale hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_11055724, EPI_ISL_11055725, EPI_ISL_11055726	Edendale Gateway clinic	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_11055727, EPI_ISL_11055728, EPI_ISL_11055729, EPI_ISL_11055730, EPI_ISL_11055731	Edendale hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_11055732, EPI_ISL_11055734	Edendale Gateway clinic	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_11055735	Matikwana hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_11055736	Eastridge clinic	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_11055737	Agincourt clinic	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_11055738	Mapulaneng hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_11055740, EPI_ISL_11055741, EPI_ISL_11055742, EPI_ISL_11055743	Red cross childrens hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_11055744	Mitchell's plain distric hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_11055745, EPI_ISL_11055746, EPI_ISL_11055747	Red cross childrens hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_11055748	Eastridge clinic	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_11055749	Red cross childrens hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_11055750	Eastridge clinic	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_11055751	Red cross childrens hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_11055752, EPI_ISL_11055753, EPI_ISL_11055754, EPI_ISL_11055755, EPI_ISL_11055756, EPI_ISL_11055757, EPI_ISL_11055759, EPI_ISL_11055760	Mitchell's plain distric hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_11055762, EPI_ISL_11055763, EPI_ISL_11055765, EPI_ISL_11055766	Red cross childrens hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N

EPI_ISL_11055768	Edendale Gateway clinic	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_11055769	Rahima Moosa Mother and child Hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_11055770	Edendale Gateway clinic	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_11055771	Rahima Moosa Mother and child Hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_11055772	Red cross childrens hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_11055778, EPI_ISL_11055783	Rahima Moosa Mother and child Hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_11055787	Agincourt clinic	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_11055792, EPI_ISL_11055793, EPI_ISL_11055794	Red cross childrens hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_11055795	Klerksdorp	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_11055796	Jouberton clinic	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_11055797, EPI_ISL_11055798, EPI_ISL_11055801, EPI_ISL_11055802	Red cross childrens hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_11055803	Edendale hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_11055804	Mitchell's plain distric hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_11055805	Klerksdorp	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_11428295, EPI_ISL_11428299, EPI_ISL_11428301, EPI_ISL_11428314, EPI_ISL_11428318, EPI_ISL_11428328	Respiratory Virus Unit, Reference Services, UK Health Security Agency	Reference Services, UK Health Security Agency	Zambon M, Talts T, Ellis J, Miah S, Platt S
EPI_ISL_11817018, EPI_ISL_11817019, EPI_ISL_11817020, EPI_ISL_11817021, EPI_ISL_11817022, EPI_ISL_11817023, EPI_ISL_11817024, EPI_ISL_11817025, EPI_ISL_11817026, EPI_ISL_11817027, EPI_ISL_11817028, EPI_ISL_11817029, EPI_ISL_11817030, EPI_ISL_11817031, EPI_ISL_11817032, EPI_ISL_11817033, EPI_ISL_11817034, EPI_ISL_11817035, EPI_ISL_11817036, EPI_ISL_11817037, EPI_ISL_11817038, EPI_ISL_11817039, EPI_ISL_11817040, EPI_ISL_11817041, EPI_ISL_11817042, EPI_ISL_11817043, EPI_ISL_11817044, EPI_ISL_11817045, EPI_ISL_11817046, EPI_ISL_11817047, EPI_ISL_11817048, EPI_ISL_11817049, EPI_ISL_11817050, EPI_ISL_11817051, EPI_ISL_11817052, EPI_ISL_11817053, EPI_ISL_11817054, EPI_ISL_11817055, EPI_ISL_11817056, EPI_ISL_11817057, EPI_ISL_11817058, EPI_ISL_11817059, EPI_ISL_11817060, EPI_ISL_11817061, EPI_ISL_11817062, EPI_ISL_11817063, EPI_ISL_11817064, EPI_ISL_11817065, EPI_ISL_11817066, EPI_ISL_11817067, EPI_ISL_11817068, EPI_ISL_11817069, EPI_ISL_11817070, EPI_ISL_11817071, EPI_ISL_11817072, EPI_ISL_11817073, EPI_ISL_11817074, EPI_ISL_11817075, EPI_ISL_11817076, EPI_ISL_11817077, EPI_ISL_11817078, EPI_ISL_11817079, EPI_ISL_11817080, EPI_ISL_11817081, EPI_ISL_11817082, EPI_ISL_11817083, EPI_ISL_11817084, EPI_ISL_11817085, EPI_ISL_11817086			
see above	QLD, Royal Brisbane and Woman's Hospital	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Yi-Mo Deng, Ammar Aziz, Naomi Komadina
EPI_ISL_11817087, EPI_ISL_11817088, EPI_ISL_11817089, EPI_ISL_11817090, EPI_ISL_11817091, EPI_ISL_11817092, EPI_ISL_11817093, EPI_ISL_11817094, EPI_ISL_11817095, EPI_ISL_11817096, EPI_ISL_11817097, EPI_ISL_11817098, EPI_ISL_11817099, EPI_ISL_11817100, EPI_ISL_11817101, EPI_ISL_11817102, EPI_ISL_11817103, EPI_ISL_11817104, EPI_ISL_11817105, EPI_ISL_11817106, EPI_ISL_11817107, EPI_ISL_11817108, EPI_ISL_11817109			
see above	VIC, Royal Children's Hospital	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Annette Alafaci,Yi-Mo Deng, Ammar Aziz, Naomi Komadina
EPI_ISL_11817110, EPI_ISL_11817111, EPI_ISL_11817112, EPI_ISL_11817113, EPI_ISL_11817114, EPI_ISL_11817115, EPI_ISL_11817116, EPI_ISL_11817117, EPI_ISL_11817118, EPI_ISL_11817119, EPI_ISL_11817120, EPI_ISL_11817121, EPI_ISL_11817122, EPI_ISL_11817123, EPI_ISL_11817124, EPI_ISL_11817125, EPI_ISL_11817126, EPI_ISL_11817127, EPI_ISL_11817128, EPI_ISL_11817129, EPI_ISL_11817130, EPI_ISL_11817131, EPI_ISL_11817132, EPI_ISL_11817133, EPI_ISL_11817134, EPI_ISL_11817135, EPI_ISL_11817136, EPI_ISL_11817137, EPI_ISL_11817138, EPI_ISL_11817139			
see above	VIC, Monash Medical Centre	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Michelle Francis, Tony Korman, Yi-Mo Deng, Ammar Aziz, Naomi Komadina
EPI_ISL_11823065	VIC, Royal Children's Hospital	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Annette Alafaci,Yi-Mo Deng, Ammar Aziz, Naomi Komadina
EPI_ISL_12529634, EPI_ISL_12529635, EPI_ISL_12529637, EPI_ISL_12529638	Rahima Moosa Mother and child Hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_12529639, EPI_ISL_12529640	Mapulaneng hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_12529641	Agincourt clinic	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_12529642	Rahima Moosa Mother and child Hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_12529643	Red cross childrens hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_12529644	Rahima Moosa Mother and child Hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_12529645, EPI_ISL_12529646	Tintswalo Hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_12529647	Matikwana hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_12529648	Mitchell's plain distric hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_12529654	Klerksdorp	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_12529655	Rahima Moosa Mother and child Hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_12529656	Edendale hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N

EPI_ISL_12529657	Klerksdorp	Health Laboratory Service National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_12529659	Red cross childrens hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_12529660	Edendale hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_12544916, EPI_ISL_12544917, EPI_ISL_12544918, EPI_ISL_12544919	National Influenza Center, National Institute of Hygiene and Epidemiology (NIHE)	National Institute of Hygiene and Epidemiology (NIHE) National Influenza Centre, Virology Department	Ung Thi Hong Trang, Hoang Vu Mai Phuong, Nguyen Huy Hoang, Nguyen Le Khanh Hang, Le Thi Thanh, Nguyen Vu Son, Vuong Duc Cuong, Pham Thi Hien, Tran Thu Huong, Nguyen Co Thach, Nguyen Phuong Anh, Le Quynh Mai
EPI_ISL_12870543, EPI_ISL_12870544, EPI_ISL_12870545	Agincourt clinic	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_12870547	Rahima Moosa Mother and child Hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_12870552, EPI_ISL_12870553, EPI_ISL_12870554	Edendale hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Scheepers C, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_12970400, EPI_ISL_12970401, EPI_ISL_12970402, EPI_ISL_12970403, EPI_ISL_12970404, EPI_ISL_12970405, EPI_ISL_12970406, EPI_ISL_12970407, EPI_ISL_12970408, EPI_ISL_12970409, EPI_ISL_12970410, EPI_ISL_12970411, EPI_ISL_12970412, EPI_ISL_12970413, EPI_ISL_12970414, EPI_ISL_12970415, EPI_ISL_12970416, EPI_ISL_12970417, EPI_ISL_12970418, EPI_ISL_12970419, EPI_ISL_12970420, EPI_ISL_12970421, EPI_ISL_12970422, EPI_ISL_12970423, EPI_ISL_12970424, EPI_ISL_12970425, EPI_ISL_12970426, EPI_ISL_12970427, EPI_ISL_12970428			
see above	Department of Virology, Research Institute for Tropical Medicine	RVDT/RVD/DVD/CDC	Lijuan Wang, Mayan U. Lumandas, Vina Lea Arguelles, Jonjee Morin, Roman Tatusov and Everardo Vega
EPI_ISL_13231399, EPI_ISL_13231406, EPI_ISL_13231411, EPI_ISL_13231414, EPI_ISL_13231416, EPI_ISL_13231420, EPI_ISL_13231421, EPI_ISL_13231423, EPI_ISL_13231424, EPI_ISL_13231426, EPI_ISL_13231427, EPI_ISL_13231430, EPI_ISL_13231431, EPI_ISL_13231432, EPI_ISL_13231433, EPI_ISL_13231437, EPI_ISL_13231438, EPI_ISL_13231440			
see above	Israel Central Virology laboratory, Ministry of Health	Israel Central Virology laboratory, Ministry of Health	Neta S. Zuckerman, Efrat Bucris, Miranda Geva, Hagar Morad, Or Zilbertzan, Ilana S. Fratty, Itai Nemet, Nofar Atari, Limor Kliker, Ella Mendelson, Michal Mandelboim
EPI_ISL_13297850, EPI_ISL_13297987	Sciensano, Department of infectious diseases, Laboratory of viral diseases	Sciensano, Department of infectious diseases, Laboratory of viral diseases	François E. Dufrasne, Sarah Denayer, Steven Van Gucht, Cyril Barbezange
EPI_ISL_14018007, EPI_ISL_14018008, EPI_ISL_14039044, EPI_ISL_14039045, EPI_ISL_14039046, EPI_ISL_14039047, EPI_ISL_14039048, EPI_ISL_14039049, EPI_ISL_14039050	Infectious Diseases Research Collaboration (IDRC), Uganda	Chan Zuckerberg Biohub, USA	Greenhouse,Bryan; Kamy,Moses; Mwakibete,Lusajo; Rek,John; Rodriguez-Barraquer,Isabel; Ssewanyana,Isaac; Takahashi,Saki; Tato,Cristina
EPI_ISL_14084066, EPI_ISL_14084067, EPI_ISL_14084068, EPI_ISL_14084070, EPI_ISL_14084072, EPI_ISL_14084073, EPI_ISL_14084074, EPI_ISL_14084075, EPI_ISL_14084076, EPI_ISL_14084077, EPI_ISL_14084078, EPI_ISL_14084079, EPI_ISL_14084080, EPI_ISL_14084081, EPI_ISL_14084082, EPI_ISL_14084083, EPI_ISL_14084084, EPI_ISL_14084085, EPI_ISL_14084086, EPI_ISL_14084087, EPI_ISL_14084089, EPI_ISL_14084090, EPI_ISL_14084091			
see above	Complejo Hospitalario Universitario de Vigo. Microbiology Department	Complejo Hospitalario Universitario de Vigo. Microbiology Department	Daviña, Carlos; Pizcueta, Juan; Perez, Sonia
EPI_ISL_14769847	Tintswalo	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Mahlangu B, Stock N, Ntuli N, Mnguni A, Motsatsi G, Nzimande A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_14769848	Rahima Moosa	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Mahlangu B, Stock N, Ntuli N, Mnguni A, Motsatsi G, Nzimande A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_14769849, EPI_ISL_14769850, EPI_ISL_14769851, EPI_ISL_14769854, EPI_ISL_14769855, EPI_ISL_14769856	Red Cross	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Mahlangu B, Stock N, Ntuli N, Mnguni A, Motsatsi G, Nzimande A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_14769858	Mitchells Plain	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Mahlangu B, Stock N, Ntuli N, Mnguni A, Motsatsi G, Nzimande A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_14769860	Rahima Moosa	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Kekana D, Mahlangu B, Stock N, Ntuli N, Mnguni A, Motsatsi G, Nzimande A, Ismail A, Bhiman JN, Wolter N
EPI_ISL_15055310, EPI_ISL_15055311, EPI_ISL_15055312, EPI_ISL_15055313, EPI_ISL_15055314, EPI_ISL_15055315, EPI_ISL_15055316, EPI_ISL_15055317, EPI_ISL_15055318, EPI_ISL_15055319, EPI_ISL_15055320, EPI_ISL_15055321, EPI_ISL_15055322, EPI_ISL_15055323, EPI_ISL_15055324, EPI_ISL_15055325, EPI_ISL_15055326, EPI_ISL_15055327, EPI_ISL_15055328, EPI_ISL_15055329, EPI_ISL_15055330, EPI_ISL_15055331, EPI_ISL_15055332, EPI_ISL_15055333, EPI_ISL_15055334, EPI_ISL_15055335, EPI_ISL_15055336, EPI_ISL_15055337, EPI_ISL_15055338, EPI_ISL_15055339, EPI_ISL_15055340, EPI_ISL_15055341, EPI_ISL_15055342, EPI_ISL_15055343, EPI_ISL_15055344, EPI_ISL_15055345, EPI_ISL_15055346, EPI_ISL_15055347, EPI_ISL_15055348, EPI_ISL_15055349, EPI_ISL_15055350, EPI_ISL_15055351, EPI_ISL_15055352, EPI_ISL_15055353, EPI_ISL_15055354, EPI_ISL_15055355, EPI_ISL_15055356, EPI_ISL_15055357, EPI_ISL_15055358, EPI_ISL_15067675, EPI_ISL_15067676, EPI_ISL_15067677, EPI_ISL_15067678, EPI_ISL_15067679, EPI_ISL_15067680, EPI_ISL_15067681, EPI_ISL_15067682, EPI_ISL_15067683, EPI_ISL_15067684, EPI_ISL_15067685, EPI_ISL_15067686, EPI_ISL_15067687, EPI_ISL_15067688, EPI_ISL_15067689, EPI_ISL_15067691, EPI_ISL_15067692, EPI_ISL_15067693, EPI_ISL_15067694, EPI_ISL_15067695, EPI_ISL_15067696, EPI_ISL_15067697, EPI_ISL_15067698, EPI_ISL_15067699, EPI_ISL_15067700, EPI_ISL_15067701, EPI_ISL_15067702, EPI_ISL_15067703, EPI_ISL_15067704, EPI_ISL_15067705, EPI_ISL_15067706, EPI_ISL_15067707, EPI_ISL_15067708, EPI_ISL_15067709, EPI_ISL_15067710, EPI_ISL_15067711, EPI_ISL_15067712, EPI_ISL_15067713, EPI_ISL_15067714, EPI_ISL_15067715, EPI_ISL_15067716, EPI_ISL_15067717, EPI_ISL_15067718, EPI_ISL_15067719, EPI_ISL_15067720, EPI_ISL_15067721, EPI_ISL_15067722, EPI_ISL_15067723			
see above	Virology Laboratory, Ricardo Gutiérrez Children's Hospital	Virology Laboratory, Ricardo Gutiérrez Children's Hospital	Acuña, Dolores; Goya, Stephanie; Nabaeas Jodar, Mercedes S.; Lucion, M. Florencia; Juárez, María del Valle; Gentile, Ángela; Mistchenko, Alicia S.; Viegas, Mariana
EPI_ISL_15120737, EPI_ISL_15120738, EPI_ISL_15120739, EPI_ISL_15120740, EPI_ISL_15120741, EPI_ISL_15120742, EPI_ISL_15120743, EPI_ISL_15120744, EPI_ISL_15120745, EPI_ISL_15120746, EPI_ISL_15120747, EPI_ISL_15120748, EPI_ISL_15120749, EPI_ISL_15120750, EPI_ISL_15120751, EPI_ISL_15120752, EPI_ISL_15120753, EPI_ISL_15120754, EPI_ISL_15120755, EPI_ISL_15120756, EPI_ISL_15120757, EPI_ISL_15120758, EPI_ISL_15120759, EPI_ISL_15120760, EPI_ISL_15120761, EPI_ISL_15120762, EPI_ISL_15120763, EPI_ISL_15120764, EPI_ISL_15120765, EPI_ISL_15120766, EPI_ISL_15120767, EPI_ISL_15120768, EPI_ISL_15120769, EPI_ISL_15120770, EPI_ISL_15120771, EPI_ISL_15120772, EPI_ISL_15120773, EPI_ISL_15120774, EPI_ISL_15120775, EPI_ISL_15120776, EPI_ISL_15120777, EPI_ISL_15120778, EPI_ISL_15120779, EPI_ISL_15120780, EPI_ISL_15120781, EPI_ISL_15120782, EPI_ISL_15120783, EPI_ISL_15120784, EPI_ISL_15120785, EPI_ISL_15120786, EPI_ISL_15120787, EPI_ISL_15120788, EPI_ISL_15120789, EPI_ISL_15120790, EPI_ISL_15120791, EPI_ISL_15120792, EPI_ISL_15120793, EPI_ISL_15120794, EPI_ISL_15120795, EPI_ISL_15120796, EPI_ISL_15120797, EPI_ISL_15120798, EPI_ISL_15120799			
see above	National Institute of Hygiene, virology departement, National Influenza Center	Centers for Disease Control and Prevention, Coronavirus and Other Respiratory Viruses Division	Megha Aggarwal, Lijuan Wang, Ji In Park, Amanda Smith and Everardo Vega
EPI_ISL_1520381, EPI_ISL_1520382, EPI_ISL_1520383, EPI_ISL_1520384, EPI_ISL_1520385, EPI_ISL_1520386, EPI_ISL_1520387, EPI_ISL_1520388, EPI_ISL_1520389, EPI_ISL_1520390, EPI_ISL_1520391, EPI_ISL_1520392, EPI_ISL_1520393, EPI_ISL_1520394, EPI_ISL_1520395, EPI_ISL_1520396, EPI_ISL_1520397, EPI_ISL_1520398, EPI_ISL_1520399, EPI_ISL_1520400, EPI_ISL_1520401, EPI_ISL_1520402, EPI_ISL_1520403, EPI_ISL_1520404, EPI_ISL_1520405, EPI_ISL_1520406, EPI_ISL_1520407, EPI_ISL_1520408, EPI_ISL_1520409, EPI_ISL_1520410, EPI_ISL_1520411, EPI_ISL_1520412, EPI_ISL_1520413, EPI_ISL_1520414, EPI_ISL_1520415, EPI_ISL_1520416, EPI_ISL_1520417, EPI_ISL_1520418, EPI_ISL_1520419, EPI_ISL_1520420, EPI_ISL_1520421, EPI_ISL_1520422, EPI_ISL_1520423, EPI_ISL_1520424, EPI_ISL_1520425, EPI_ISL_1520426, EPI_ISL_1520427, EPI_ISL_1520428, EPI_ISL_1520429, EPI_ISL_1520430, EPI_ISL_1520431, EPI_ISL_1520432, EPI_ISL_1520433, EPI_ISL_1520434, EPI_ISL_1520435, EPI_ISL_1520436, EPI_ISL_1520437, EPI_ISL_1520438, EPI_ISL_1520439, EPI_ISL_1520440			
see above	Respiratory Virus Unit, National Infection Service, Public Health England	National Infection Service, Public Health England	Zambon M, Talts T, Ellis J, Miah S, Platt S
EPI_ISL_15421344	Department of Infectious Diseases in Humans, Viral Diseases Laboratory, Sciensano, Brussels	Department of Infectious Diseases in Humans, Viral Diseases Laboratory, Sciensano, Brussels	François Dufrasne, Sarh Denayer, Steven Van Gucht, Cyril Barbezange
EPI_ISL_15421405	Department of Infectious Diseases in Humans, Viral Diseases Laboratory, Sciensano	Department of Infectious Diseases in Humans, Viral Diseases Laboratory, Sciensano	François Dufrasne, Sarah Denayer, Steven Van Gucht, Cyril Barbezange
EPI_ISL_15601574	Laboratory of Virology - Institute of Public Health, Republic of Macedonia	Laboratory of Virology - Institute of Public Health, Republic of Macedonia	Teodora Buzharova, Golubinka Boshevska, Elizabeta Jancheska
EPI_ISL_15728615	Edendale	National Institute for Communicable Diseases of the National Health Laboratory Service	Everatt J, Kekana D, Mahlangu B, Stock N, Ntozini B, Ntuli N, Mnguni A, Nzimande A, Ismail A, Bhiman JN, Wolter N

EPI_ISL_15728616	Klerksdorp	National Institute for Communicable Diseases of the National Health Laboratory Service	Everatt J, Kekana D, Mahlangu B, Stock N, Ntuzini B, Ntuli N, Mnguni A, Nzimande A, Ismail A, Bhiman JN, Wolter N	
EPI_ISL_15728617	Mapulaneng	National Institute for Communicable Diseases of the National Health Laboratory Service	Everatt J, Kekana D, Mahlangu B, Stock N, Ntuzini B, Ntuli N, Mnguni A, Nzimande A, Ismail A, Bhiman JN, Wolter N	
EPI_ISL_15728618	Matikwane	National Institute for Communicable Diseases of the National Health Laboratory Service	Everatt J, Kekana D, Mahlangu B, Stock N, Ntuzini B, Ntuli N, Mnguni A, Nzimande A, Ismail A, Bhiman JN, Wolter N	
EPI_ISL_15728619	Red Cross	National Institute for Communicable Diseases of the National Health Laboratory Service	Everatt J, Kekana D, Mahlangu B, Stock N, Ntuzini B, Ntuli N, Mnguni A, Nzimande A, Ismail A, Bhiman JN, Wolter N	
EPI_ISL_15728620, EPI_ISL_15728621	Rahima Moosa	National Institute for Communicable Diseases of the National Health Laboratory Service	Everatt J, Kekana D, Mahlangu B, Stock N, Ntuzini B, Ntuli N, Mnguni A, Nzimande A, Ismail A, Bhiman JN, Wolter N	
EPI_ISL_15728622, EPI_ISL_15728624	Red Cross	National Institute for Communicable Diseases of the National Health Laboratory Service	Everatt J, Kekana D, Mahlangu B, Stock N, Ntuzini B, Ntuli N, Mnguni A, Nzimande A, Ismail A, Bhiman JN, Wolter N	
EPI_ISL_15728625	Matikwane	National Institute for Communicable Diseases of the National Health Laboratory Service	Everatt J, Kekana D, Mahlangu B, Stock N, Ntuzini B, Ntuli N, Mnguni A, Nzimande A, Ismail A, Bhiman JN, Wolter N	
EPI_ISL_15728627, EPI_ISL_15728628, EPI_ISL_15728629	Red Cross	National Institute for Communicable Diseases of the National Health Laboratory Service	Everatt J, Kekana D, Mahlangu B, Stock N, Ntuzini B, Ntuli N, Mnguni A, Nzimande A, Ismail A, Bhiman JN, Wolter N	
EPI_ISL_15728631	Livingstone Hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Everatt J, Kekana D, Mahlangu B, Stock N, Ntuzini B, Ntuli N, Mnguni A, Nzimande A, Ismail A, Bhiman JN, Wolter N	
EPI_ISL_15728632, EPI_ISL_15728633	Red Cross	National Institute for Communicable Diseases of the National Health Laboratory Service	Everatt J, Kekana D, Mahlangu B, Stock N, Ntuzini B, Ntuli N, Mnguni A, Nzimande A, Ismail A, Bhiman JN, Wolter N	
EPI_ISL_15728634	Mitchells Plain	National Institute for Communicable Diseases of the National Health Laboratory Service	Everatt J, Kekana D, Mahlangu B, Stock N, Ntuzini B, Ntuli N, Mnguni A, Nzimande A, Ismail A, Bhiman JN, Wolter N	
EPI_ISL_15750126	Eurasian Institute of Zoonotic Infections, The Federal Research Center of Fundamental and Translational Medicine	Eurasian Institute of Zoonotic Infections, The Federal Research Center of Fundamental and Translational Medicine	Solomatina,M.V., Kurskaya,O.G., Kabilov,M.R., Tupikin,A.E., Saroyan,T.A., Derko,A.A., Dubovitskiy,N.A., Sobolev,I.A., Shestopalov,A.M., Sharshov,K.A.	
EPI_ISL_15750187, EPI_ISL_15750188, EPI_ISL_15750189, EPI_ISL_15750190, EPI_ISL_15750191, EPI_ISL_15750192, EPI_ISL_15750193, EPI_ISL_15750194, EPI_ISL_15750195, EPI_ISL_15750196, EPI_ISL_15750197, EPI_ISL_15750198, EPI_ISL_15750199, EPI_ISL_15750200	see above	Inserm UMR1137, Universite de Paris	Coppee,R., Chenane,H.R., Bridier-Nahmias,A., Tchercan,C., Catherinot,E., Collin,G., Lebourgcois,S., Visseaux,B., Descamps,D., Vasse,M., Farfour,E., Coppee,R., Chenane,H.R., Bridier-Nahmias,A., Collin,G., Lebourgcois,S., Visseaux,B., Descamps,D.	
EPI_ISL_15750833, EPI_ISL_15750834, EPI_ISL_15750840, EPI_ISL_15750841, EPI_ISL_15750842, EPI_ISL_15750843, EPI_ISL_15750844	State Key Laboratory of Pathogen and Biosecurity, Beijing Institute of Microbiology and Epidemiology	State Key Laboratory of Pathogen and Biosecurity, Beijing Institute of Microbiology and Epidemiology	Jia,N., Cao,W.-C., Hu,Y.-L., Ye,R.-Z., Que,T.-C., Xia,L.-Y., Cui,X.-M., Zhang,Y.-W., Jiang,J.-F., Wang,Q.-H., Wang,Q., Jia,N., Cao,W.-C., Hu,Y.-L., Ye,R.-Z., Que,T.-C., Xia,L.-Y., Cui,X.-M., Zhang,Y.-W., Jiang,J.-F., Wang,Q.-H., Wang,Q.	
EPI_ISL_15751422	Pathology, Stanford University School of Medicine	Pathology, Stanford University School of Medicine	Huang,C., Doan,T., Sahoo,M.K., Pinsky,B.A.	
EPI_ISL_15752977, EPI_ISL_15752978, EPI_ISL_15752979, EPI_ISL_15752980, EPI_ISL_15752981, EPI_ISL_15752982, EPI_ISL_15752984, EPI_ISL_15752985, EPI_ISL_15752986, EPI_ISL_15752987, EPI_ISL_15752988, EPI_ISL_15752990, EPI_ISL_15752991, EPI_ISL_15752992, EPI_ISL_15752993, EPI_ISL_15752994, EPI_ISL_15752995, EPI_ISL_15752996, EPI_ISL_15752997, EPI_ISL_15752998, EPI_ISL_15752999, EPI_ISL_15753000, EPI_ISL_15753001, EPI_ISL_15753002, EPI_ISL_15753003, EPI_ISL_15753005, EPI_ISL_15753006, EPI_ISL_15753007, EPI_ISL_15753008, EPI_ISL_15753009, EPI_ISL_15753010, EPI_ISL_15753011, EPI_ISL_15753012, EPI_ISL_15753013, EPI_ISL_15753014, EPI_ISL_15753015, EPI_ISL_15753016, EPI_ISL_15753017, EPI_ISL_15753018, EPI_ISL_15753019, EPI_ISL_15753020, EPI_ISL_15753021, EPI_ISL_15753022, EPI_ISL_15753023, EPI_ISL_15753024, EPI_ISL_15753025, EPI_ISL_15753026, EPI_ISL_15753027, EPI_ISL_15753028, EPI_ISL_15753029, EPI_ISL_15753030, EPI_ISL_15753031, EPI_ISL_15753032, EPI_ISL_15753033, EPI_ISL_15753034, 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EPI_ISL_15753573	Eurasian Institute of zoonotic infections, The Federal Research Center of Fundamental and Translational Medicine	Eurasian Institute of zoonotic infections, The Federal Research Center of Fundamental and Translational Medicine	Dubovitskiy,N.A., Sobolev,I.A., Kurskaya,O.G., Simkina,O.A., Komissarova,T.V., Murashkina,T.A., Solomatina,M.V., Derko,A.A., Saroyan,T.A., Kabilov,M.R., Tupikin,A.E., Sharshov,K.A., Shestopalov,A.M.	
EPI_ISL_15753574	Eurasian Institute of zoonotic infections, The Federal Research Center of Fundamental and Translational Medicine	Eurasian Institute of zoonotic infections, The Federal Research Center of Fundamental and Translational Medicine	Dubovitskiy,N.A., Sobolev,I.A., Kurskaya,O.G., Anoshina,A.V., Leonova,N.V., Murashkina,T.A., Solomatina,M.V., Derko,A.A., Saroyan,T.A., Kabilov,M.R., Tupikin,A.E., Sharshov,K.A., Shestopalov,A.M.	
EPI_ISL_15753575, EPI_ISL_15753577	Eurasian Institute of zoonotic infections, The Federal Research Center of Fundamental and Translational Medicine	Eurasian Institute of zoonotic infections, The Federal Research Center of Fundamental and Translational Medicine	Dubovitskiy,N.A., Sobolev,I.A., Kurskaya,O.G., Simkina,O.A., Komissarova,T.V., Murashkina,T.A., Solomatina,M.V., Derko,A.A., Saroyan,T.A., Kabilov,M.R., Tupikin,A.E., Sharshov,K.A., Shestopalov,A.M.	
EPI_ISL_15753578, EPI_ISL_15753579, EPI_ISL_15753580	Eurasian Institute of zoonotic infections, The Federal Research Center of Fundamental and Translational Medicine	Eurasian Institute of zoonotic infections, The Federal Research Center of Fundamental and Translational Medicine	Dubovitskiy,N.A., Sobolev,I.A., Kurskaya,O.G., Anoshina,A.V., Leonova,N.V., Murashkina,T.A., Solomatina,M.V., Derko,A.A., Saroyan,T.A., Kabilov,M.R., Tupikin,A.E., Sharshov,K.A., Shestopalov,A.M.	

EPI_ISL_15772191, EPI_ISL_15772194	Laboratory Medicine, UW Virology	Laboratory Medicine, UW Virology	Sereewit,J., Xie,H. and Greninger,A.
EPI_ISL_15773986, EPI_ISL_15773988, EPI_ISL_15773989, EPI_ISL_15773991, EPI_ISL_15773995, EPI_ISL_15774001, EPI_ISL_15774005, EPI_ISL_15774006, EPI_ISL_15774010, EPI_ISL_15774011, EPI_ISL_15774012, EPI_ISL_15774013, EPI_ISL_15774014, EPI_ISL_15774015, EPI_ISL_15774016, EPI_ISL_15774017, EPI_ISL_15774018, EPI_ISL_15774019, EPI_ISL_15774020, EPI_ISL_15774021, EPI_ISL_15774022, EPI_ISL_15774023, EPI_ISL_15774024, EPI_ISL_15774025, EPI_ISL_15774026, EPI_ISL_15774027, EPI_ISL_15774028, EPI_ISL_15774029, EPI_ISL_15774030, EPI_ISL_15774031, EPI_ISL_15774032, EPI_ISL_15774033, EPI_ISL_15774034, EPI_ISL_15774035, EPI_ISL_15774036, EPI_ISL_15774037, EPI_ISL_15774038, EPI_ISL_15774039, EPI_ISL_15774040, EPI_ISL_15774041, EPI_ISL_15774042, EPI_ISL_15774043, EPI_ISL_15774044, EPI_ISL_15774045, EPI_ISL_15774046, EPI_ISL_15774047, EPI_ISL_15774048, EPI_ISL_15774049, EPI_ISL_15774050, EPI_ISL_15774051, EPI_ISL_15774052, EPI_ISL_15774053, EPI_ISL_15774054, EPI_ISL_15774055, EPI_ISL_15774056, EPI_ISL_15774057, EPI_ISL_15774058, EPI_ISL_15774059, EPI_ISL_15774060, EPI_ISL_15774061, EPI_ISL_15774062, EPI_ISL_15774063, EPI_ISL_15774064, EPI_ISL_15774065, EPI_ISL_15774066, EPI_ISL_15774067, EPI_ISL_15774068, EPI_ISL_15774069, EPI_ISL_15774070, EPI_ISL_15774071			
see above	QLD, Royal Brisbane and Woman's Hospital	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Yi-Mo Deng, Ammar Aziz, Naomi Komadina
EPI_ISL_15894968, EPI_ISL_15894969, EPI_ISL_15894972, EPI_ISL_15894973, EPI_ISL_15894974, EPI_ISL_15894976, EPI_ISL_15894979, EPI_ISL_15894981, EPI_ISL_15894983, EPI_ISL_15894985, EPI_ISL_15894988, EPI_ISL_15894989, EPI_ISL_15894990, EPI_ISL_15894991, EPI_ISL_15894994, EPI_ISL_15894996, EPI_ISL_15894997, EPI_ISL_15895000, EPI_ISL_15895003, EPI_ISL_15895004, EPI_ISL_15895005, EPI_ISL_15895007, EPI_ISL_15895008, EPI_ISL_15895010, EPI_ISL_15895011, EPI_ISL_15895012, EPI_ISL_15895013, EPI_ISL_15895015, EPI_ISL_15895017, EPI_ISL_15895018, EPI_ISL_15895019, EPI_ISL_15895021			
see above	Laboratorio Central de Saude Publica do Estado do Rio Grande do Sul (LACEN/RS)	Laboratory of Respiratory Viruses and Measles, Oswaldo Cruz Institute, FIOCRUZ	Paola Resende, Fernando Motta, Elisa Cavalcante Pereira, Bruna Mendonça da Silva, Jéssica Graça Macedo de Carvalho, Larissa Macedo Pinto, Victor Guimaraes, Ighor Leonardo Arantes, Leticia Scalioni, Anderson Brandao Leite, Marilda Siqueira on behalf of the Fiocruz COVID-19 Genomic Surveillance Network
EPI_ISL_15895037, EPI_ISL_15895040, EPI_ISL_15895043, EPI_ISL_15895044	Laboratorio Central de Saude Publica do Estado do Espirito Santo (LACEN/ES)	Laboratory of Respiratory Viruses and Measles, Oswaldo Cruz Institute, FIOCRUZ	Paola Resende, Fernando Motta, Elisa Cavalcante Pereira, Ighor Arantes, Bruna Mendonça da Silva, Jéssica Graça Macedo de Carvalho, Larissa Macedo Pinto, Victor Guimaraes, Leticia Scalioni, Rodrigo Ribeiro Rodrigues, Marilda Siqueira on behalf of the Fiocruz COVID-19 Genomic Surveillance Network
EPI_ISL_15895046, EPI_ISL_15895050, EPI_ISL_15895051, EPI_ISL_15895053, EPI_ISL_15895054, EPI_ISL_15895059	Laboratorio Central de Saude Publica do Estado do Rio Grande do Sul (LACEN/RS)	Laboratory of Respiratory Viruses and Measles, Oswaldo Cruz Institute, FIOCRUZ	Paola Resende, Fernando Motta, Elisa Cavalcante Pereira, Bruna Mendonça da Silva, Jéssica Graça Macedo de Carvalho, Larissa Macedo Pinto, Victor Guimaraes, Ighor Leonardo Arantes, Leticia Scalioni, Anderson Brandao Leite, Marilda Siqueira on behalf of the Fiocruz COVID-19 Genomic Surveillance Network
EPI_ISL_15895070, EPI_ISL_15895082, EPI_ISL_15895083, EPI_ISL_15895086, EPI_ISL_15895087, EPI_ISL_15895088, EPI_ISL_15895089, EPI_ISL_15895091, EPI_ISL_15895092, EPI_ISL_15895095	Laboratorio Central de Saude Publica do Estado do Espirito Santo (LACEN/ES)	Laboratory of Respiratory Viruses and Measles, Oswaldo Cruz Institute, FIOCRUZ	Paola Resende, Fernando Motta, Elisa Cavalcante Pereira, Ighor Arantes, Bruna Mendonça da Silva, Jéssica Graça Macedo de Carvalho, Larissa Macedo Pinto, Victor Guimaraes, Leticia Scalioni, Rodrigo Ribeiro Rodrigues, Marilda Siqueira on behalf of the Fiocruz COVID-19 Genomic Surveillance Network
EPI_ISL_15895096, EPI_ISL_15895098, EPI_ISL_15895100, EPI_ISL_15895101, EPI_ISL_15895102, EPI_ISL_15895103, EPI_ISL_15895105, EPI_ISL_15895107, EPI_ISL_15895110, EPI_ISL_15895114, EPI_ISL_15895115, EPI_ISL_15895116, EPI_ISL_15895117, EPI_ISL_15895118, EPI_ISL_15895119, EPI_ISL_15895120			
see above	Laboratorio Central de Saude Publica do Estado do Parana (LACEN/PR)	Laboratory of Respiratory Viruses and Measles, Oswaldo Cruz Institute, FIOCRUZ	Paola Resende, Fernando Motta, Elisa Cavalcante Pereira, Ighor Arantes, Bruna Mendonça da Silva, Jéssica Graça Macedo de Carvalho, Larissa Macedo Pinto, Victor Guimaraes, Leticia Scalioni, Irina Riediger, Marilda Siqueira on behalf of the Fiocruz COVID-19 Genomic Surveillance Network
EPI_ISL_15895124, EPI_ISL_15895128	Universidade Federal de São Paulo, Departamento de Medicina, Disciplina de Doenças Infecciosas e Parasitárias. Laboratório de Virologia	Laboratory of Respiratory Viruses and Measles, Oswaldo Cruz Institute, FIOCRUZ	Paola Resende, Fernando Motta, Elisa Cavalcante Pereira, Ighor Arantes, Bruna Mendonça da Silva, Jéssica Graça Macedo de Carvalho, Larissa Macedo Pinto, Victor Guimaraes, Leticia Scalioni, Ana Helena Perosa, Gabriela Rodrigues Barbosa, Nancy Bellei e Marilda Siqueira on behalf of the Fiocruz COVID-19 Genomic Surveillance Network
EPI_ISL_15895130	Laboratorio Central de Saude Publica do Estado do Amapa (LACEN/AP)	Laboratory of Respiratory Viruses and Measles, Oswaldo Cruz Institute, FIOCRUZ	Paola Resende, Fernando Motta, Elisa Cavalcante Pereira, Ighor Arantes, Bruna Mendonça da Silva, Jéssica Graça Macedo de Carvalho, Larissa Macedo Pinto, Victor Guimaraes, Leticia Scalioni, Andreia Santos Costa, Marcia Socorro Pereira Cavalcante, Anne Caroline da Silva Soledade, Lindomar dos Anjos Silva, Marilda Siqueira on behalf of the Fiocruz COVID-19 Genomic Surveillance Network
EPI_ISL_15895133, EPI_ISL_15895134	Universidade Federal de São Paulo, Departamento de Medicina, Disciplina de Doenças Infecciosas e Parasitárias. Laboratório de Virologia	Laboratory of Respiratory Viruses and Measles, Oswaldo Cruz Institute, FIOCRUZ	Paola Resende, Fernando Motta, Elisa Cavalcante Pereira, Ighor Arantes, Bruna Mendonça da Silva, Jéssica Graça Macedo de Carvalho, Larissa Macedo Pinto, Victor Guimaraes, Leticia Scalioni, Ana Helena Perosa, Gabriela Rodrigues Barbosa, Nancy Bellei e Marilda Siqueira on behalf of the Fiocruz COVID-19 Genomic Surveillance Network
EPI_ISL_15895136, EPI_ISL_15895137	Laboratorio Central de Saude Publica do Estado do Parana (LACEN/PR)	Laboratory of Respiratory Viruses and Measles, Oswaldo Cruz Institute, FIOCRUZ	Paola Resende, Fernando Motta, Elisa Cavalcante Pereira, Ighor Arantes, Bruna Mendonça da Silva, Jéssica Graça Macedo de Carvalho, Larissa Macedo Pinto, Victor Guimaraes, Leticia Scalioni, Irina Riediger, Marilda Siqueira on behalf of the Fiocruz COVID-19 Genomic Surveillance Network
EPI_ISL_15895140, EPI_ISL_15895141	Laboratory of Respiratory Viruses and Measles, Oswaldo Cruz Institute, FIOCRUZ	Laboratory of Respiratory Viruses and Measles, Oswaldo Cruz Institute, FIOCRUZ	Paola Resende, Luciana Appolinario, Fernando Motta, Elisa Cavalcante Pereira, Ighor Arantes, Alice Sampaio Rocha, Bruna Mendonça da Silva, Jéssica Graça Macedo de Carvalho, Larissa Macedo Pinto, Victor Guimaraes, Leticia Scalioni, Marilda Siqueira on behalf of the Fiocruz COVID-19 Genomic Surveillance Network
EPI_ISL_15895142	Universidade Federal de São Paulo, Departamento de Medicina, Disciplina de Doenças Infecciosas e Parasitárias. Laboratório de Virologia	Laboratory of Respiratory Viruses and Measles, Oswaldo Cruz Institute, FIOCRUZ	Paola Resende, Fernando Motta, Elisa Cavalcante Pereira, Ighor Arantes, Bruna Mendonça da Silva, Jéssica Graça Macedo de Carvalho, Larissa Macedo Pinto, Victor Guimaraes, Leticia Scalioni, Ana Helena Perosa, Gabriela Rodrigues Barbosa, Nancy Bellei e Marilda Siqueira on behalf of the Fiocruz COVID-19 Genomic Surveillance Network
EPI_ISL_15896139	NT, Royal Darwin Hospital	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Steven Edwards, Yi-Mo Deng, Ammar Aziz, Ian Barr
EPI_ISL_15896140	VIC, RCH Molecular Microbiology Dept. (Bio21)	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Steven Edwards, Yi-Mo Deng, Ammar Aziz, Ian Barr
EPI_ISL_15896141	NT, Royal Darwin Hospital	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Steven Edwards, Yi-Mo Deng, Ammar Aziz, Ian Barr
EPI_ISL_15896142	QLD, Queensland Childrens Hospital	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Steven Edwards, Yi-Mo Deng, Ammar Aziz, Ian Barr
EPI_ISL_15896143	NT, Royal Darwin Hospital	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Steven Edwards, Yi-Mo Deng, Ammar Aziz, Ian Barr
EPI_ISL_15896144, EPI_ISL_15896145, EPI_ISL_15896146, EPI_ISL_15896147	QLD, Queensland Childrens Hospital	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Steven Edwards, Yi-Mo Deng, Ammar Aziz, Ian Barr
EPI_ISL_15896148, EPI_ISL_15896149, EPI_ISL_15896150, EPI_ISL_15896151, EPI_ISL_15896152	VIC, RCH Molecular Microbiology Dept. (Bio21)	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Steven Edwards, Yi-Mo Deng, Ammar Aziz, Ian Barr
EPI_ISL_15896153, EPI_ISL_15896154	QLD, Queensland Childrens Hospital	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Steven Edwards, Yi-Mo Deng, Ammar Aziz, Ian Barr
EPI_ISL_15896155	VIC, Royal Children's Hospital	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Steven Edwards, Yi-Mo Deng, Ammar Aziz, Ian Barr
EPI_ISL_15896156	NT, Royal Darwin Hospital	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Steven Edwards, Yi-Mo Deng, Ammar Aziz, Ian Barr
EPI_ISL_15896157, EPI_ISL_15896158, EPI_ISL_15896159	VIC, RCH Molecular Microbiology Dept. (Bio21)	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Steven Edwards, Yi-Mo Deng, Ammar Aziz, Ian Barr
EPI_ISL_15896160, EPI_ISL_15896161	NT, Royal Darwin Hospital	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Steven Edwards, Yi-Mo Deng, Ammar Aziz, Ian Barr
EPI_ISL_15896162, EPI_ISL_15896163, EPI_ISL_15896164	QLD, Queensland Childrens Hospital	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Steven Edwards, Yi-Mo Deng, Ammar Aziz, Ian Barr
EPI_ISL_15896165, EPI_ISL_15896166, EPI_ISL_15896167	VIC, RCH Molecular Microbiology Dept. (Bio21)	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Steven Edwards, Yi-Mo Deng, Ammar Aziz, Ian Barr
EPI_ISL_15896168, EPI_ISL_15896169,	NT, Royal Darwin Hospital	WHO Collaborating Centre for Reference and Research on	Xiaomin Dong, Steven Edwards, Yi-Mo Deng, Ammar Aziz, Ian Barr

EPI_ISL_15896170, EPI_ISL_15896171		Influenza	
EPI_ISL_15896172, EPI_ISL_15896173, EPI_ISL_15896174	QLD, Queensland Childrens Hospital	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Steven Edwards, Yi-Mo Deng, Ammar Aziz, Ian Barr
EPI_ISL_15896175, EPI_ISL_15896176, EPI_ISL_15896177, EPI_ISL_15896178, EPI_ISL_15896179, EPI_ISL_15896180, EPI_ISL_15896181, EPI_ISL_15896182, EPI_ISL_15896183, EPI_ISL_15896184, EPI_ISL_15896185			
see above	VIC, RCH Molecular Microbiology Dept. (Bio21)	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Steven Edwards, Yi-Mo Deng, Ammar Aziz, Ian Barr
EPI_ISL_15896186, EPI_ISL_15896187, EPI_ISL_15896188, EPI_ISL_15896189, EPI_ISL_15896190, EPI_ISL_15896191, EPI_ISL_15896192, EPI_ISL_15896193	NT, Royal Darwin Hospital	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Steven Edwards, Yi-Mo Deng, Ammar Aziz, Ian Barr
EPI_ISL_15896194, EPI_ISL_15896195, EPI_ISL_15896196, EPI_ISL_15896197	VIC, RCH Molecular Microbiology Dept. (Bio21)	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Steven Edwards, Yi-Mo Deng, Ammar Aziz, Ian Barr
EPI_ISL_15896198, EPI_ISL_15896199, EPI_ISL_15896200, EPI_ISL_15896201, EPI_ISL_15896202, EPI_ISL_15896203	NT, Royal Darwin Hospital	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Steven Edwards, Yi-Mo Deng, Ammar Aziz, Ian Barr
EPI_ISL_15896204, EPI_ISL_15896205, EPI_ISL_15896206, EPI_ISL_15896207, EPI_ISL_15896208, EPI_ISL_15896209	QLD, Queensland Childrens Hospital	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Steven Edwards, Yi-Mo Deng, Ammar Aziz, Ian Barr
EPI_ISL_15896210, EPI_ISL_15896211, EPI_ISL_15896212, EPI_ISL_15896213, EPI_ISL_15896214, EPI_ISL_15896215, EPI_ISL_15896216, EPI_ISL_15896217, EPI_ISL_15896218, EPI_ISL_15896219, EPI_ISL_15896220, EPI_ISL_15896221			
see above	VIC, RCH Molecular Microbiology Dept. (Bio21)	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Steven Edwards, Yi-Mo Deng, Ammar Aziz, Ian Barr
EPI_ISL_15896222, EPI_ISL_15896223, EPI_ISL_15896224, EPI_ISL_15896225, EPI_ISL_15896226, EPI_ISL_15896227, EPI_ISL_15896228, EPI_ISL_15896229	NT, Royal Darwin Hospital	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Steven Edwards, Yi-Mo Deng, Ammar Aziz, Ian Barr
EPI_ISL_15896230, EPI_ISL_15896231, EPI_ISL_15896232, EPI_ISL_15896233, EPI_ISL_15896234, EPI_ISL_15896235, EPI_ISL_15896236, EPI_ISL_15896237, EPI_ISL_15896238, EPI_ISL_15896239, EPI_ISL_15896240, EPI_ISL_15896241, EPI_ISL_15896242			
see above	QLD, Queensland Childrens Hospital	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Steven Edwards, Yi-Mo Deng, Ammar Aziz, Ian Barr
EPI_ISL_15896243, EPI_ISL_15896244, EPI_ISL_15896245, EPI_ISL_15896246, EPI_ISL_15896247, EPI_ISL_15896248	VIC, RCH Molecular Microbiology Dept. (Bio21)	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Steven Edwards, Yi-Mo Deng, Ammar Aziz, Ian Barr
EPI_ISL_15896249, EPI_ISL_15896250, EPI_ISL_15896251, EPI_ISL_15896252, EPI_ISL_15896253, EPI_ISL_15896254, EPI_ISL_15896255, EPI_ISL_15896256, EPI_ISL_15896257, EPI_ISL_15896258, EPI_ISL_15896259, EPI_ISL_15896260, EPI_ISL_15896261, EPI_ISL_15896262			
see above	NT, Royal Darwin Hospital	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Steven Edwards, Yi-Mo Deng, Ammar Aziz, Ian Barr
EPI_ISL_15896263, EPI_ISL_15896264, EPI_ISL_15896265, EPI_ISL_15896266, EPI_ISL_15896267, EPI_ISL_15896268, EPI_ISL_15896269, EPI_ISL_15896270, EPI_ISL_15896271, EPI_ISL_15896272, EPI_ISL_15896273, EPI_ISL_15896274			
see above	QLD, Queensland Childrens Hospital	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Steven Edwards, Yi-Mo Deng, Ammar Aziz, Ian Barr
EPI_ISL_15896275, EPI_ISL_15896276, EPI_ISL_15896277, EPI_ISL_15896278	VIC, RCH Molecular Microbiology Dept. (Bio21)	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Steven Edwards, Yi-Mo Deng, Ammar Aziz, Ian Barr
EPI_ISL_15896279, EPI_ISL_15896280, EPI_ISL_15896281, EPI_ISL_15896282, EPI_ISL_15896283, EPI_ISL_15896284, EPI_ISL_15896285, EPI_ISL_15896286, EPI_ISL_15896287, EPI_ISL_15896288	NT, Royal Darwin Hospital	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Steven Edwards, Yi-Mo Deng, Ammar Aziz, Ian Barr
EPI_ISL_15896289, EPI_ISL_15896290, EPI_ISL_15896291	QLD, Queensland Childrens Hospital	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Steven Edwards, Yi-Mo Deng, Ammar Aziz, Ian Barr
EPI_ISL_15896292, EPI_ISL_15896293, EPI_ISL_15896294, EPI_ISL_15896295, EPI_ISL_15896296	VIC, RCH Molecular Microbiology Dept. (Bio21)	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Steven Edwards, Yi-Mo Deng, Ammar Aziz, Ian Barr
EPI_ISL_15896297, EPI_ISL_15896298	NT, Royal Darwin Hospital	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Steven Edwards, Yi-Mo Deng, Ammar Aziz, Ian Barr
EPI_ISL_15896299, EPI_ISL_15896300	VIC, RCH Molecular Microbiology Dept. (Bio21)	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Steven Edwards, Yi-Mo Deng, Ammar Aziz, Ian Barr
EPI_ISL_16006110, EPI_ISL_16006111, EPI_ISL_16006112, EPI_ISL_16006114, EPI_ISL_16006115, EPI_ISL_16006116, EPI_ISL_16006117, EPI_ISL_16006118	Laboratory of Virology - Institute of Public Health Skopje, Macedonia	Laboratory of Virology - Institute of Public Health Skopje, Macedonia	Teodora Buzharova, Golubinka Boshevska, Elizabeta Jancheska
EPI_ISL_1647383, EPI_ISL_1647384, EPI_ISL_1647385, EPI_ISL_1647386, EPI_ISL_1647387, EPI_ISL_1647388, EPI_ISL_1647389, EPI_ISL_1647390, EPI_ISL_1647391, EPI_ISL_1647392, EPI_ISL_1647393, EPI_ISL_1647394, EPI_ISL_1647395, EPI_ISL_1647396, EPI_ISL_1647397, EPI_ISL_1647398, EPI_ISL_1647399, EPI_ISL_1647400, EPI_ISL_1647401, EPI_ISL_1647402, EPI_ISL_1647403, EPI_ISL_1647404, EPI_ISL_1647405, EPI_ISL_1647406, EPI_ISL_1647407, EPI_ISL_1647408, EPI_ISL_1647409, EPI_ISL_1647410, EPI_ISL_1647411, EPI_ISL_1647412, EPI_ISL_1647413, EPI_ISL_1647414, EPI_ISL_1647415, EPI_ISL_1647416, EPI_ISL_1647417, EPI_ISL_1647418, EPI_ISL_1647419, EPI_ISL_1647420, EPI_ISL_1647421, EPI_ISL_1647422			
see above	Respiratory Virus Unit, National Infection Service, Public Health England	National Infection Service, Public Health England	Zambon M, Talts T, Ellis J, Miah S, Platt S
EPI_ISL_1647456, EPI_ISL_1647457, EPI_ISL_1647458, EPI_ISL_1647459, EPI_ISL_1647460, EPI_ISL_1647461, EPI_ISL_1647462, EPI_ISL_1647463, EPI_ISL_1647464, EPI_ISL_1647465, EPI_ISL_1647466, EPI_ISL_1647467, EPI_ISL_1647468, EPI_ISL_1647469, EPI_ISL_1647470, EPI_ISL_1647471, EPI_ISL_1647472, EPI_ISL_1647473, EPI_ISL_1647474, EPI_ISL_1647475, EPI_ISL_1647476, EPI_ISL_1647477, EPI_ISL_1647478, EPI_ISL_1647479, EPI_ISL_1647480, EPI_ISL_1647481, EPI_ISL_1647482, EPI_ISL_1647483, EPI_ISL_1647484, EPI_ISL_1647485, EPI_ISL_1647486, EPI_ISL_1647487, EPI_ISL_1647488, EPI_ISL_1647489			
see above	Instituto Nacional de Saúde	WHO Influenza Centre for Reference and Research on Influenza	Angela Todd, Yi-Mo Deng, Almiro Rogerio Tivane, Naomi Komadina
EPI_ISL_1647490, EPI_ISL_1647491, EPI_ISL_1647492, EPI_ISL_1647493, EPI_ISL_1647494, EPI_ISL_1647495, EPI_ISL_1647496, EPI_ISL_1647497, EPI_ISL_1647498, EPI_ISL_1647499, EPI_ISL_1647500, EPI_ISL_1647501, EPI_ISL_1647502, EPI_ISL_1647503, EPI_ISL_1647504, EPI_ISL_1647505, EPI_ISL_1647506, EPI_ISL_1647507, EPI_ISL_1647508, EPI_ISL_1647509, EPI_ISL_1647510, EPI_ISL_1647511, EPI_ISL_1647512, EPI_ISL_1647513, EPI_ISL_1647514, EPI_ISL_1647515, EPI_ISL_1647516, EPI_ISL_1647517, EPI_ISL_1647518, EPI_ISL_1647519, EPI_ISL_1647520, EPI_ISL_1647521, EPI_ISL_1647522, EPI_ISL_1647523, EPI_ISL_1647524, EPI_ISL_1647525, EPI_ISL_1647526, EPI_ISL_1647527, EPI_ISL_1647528, EPI_ISL_1647529, EPI_ISL_1647530, EPI_ISL_1647531, EPI_ISL_1647532, EPI_ISL_1647533, EPI_ISL_1647534, EPI_ISL_1647535, EPI_ISL_1647536, EPI_ISL_1647537, EPI_ISL_1647538, EPI_ISL_1647539, EPI_ISL_1647540, EPI_ISL_1647541, EPI_ISL_1647542, EPI_ISL_1647543, EPI_ISL_1647544, EPI_ISL_1647545, EPI_ISL_1647546, EPI_ISL_1647547, EPI_ISL_1647548, EPI_ISL_1647549, EPI_ISL_1647550, EPI_ISL_1647551, EPI_ISL_1647552, EPI_ISL_1647553, EPI_ISL_1647554, EPI_ISL_1647555, EPI_ISL_1647556, EPI_ISL_1647557, EPI_ISL_1647558, EPI_ISL_1647559, EPI_ISL_1647560, EPI_ISL_1647561, EPI_ISL_1647562, EPI_ISL_1647563, EPI_ISL_1647564, EPI_ISL_1647565, EPI_ISL_1647566, EPI_ISL_1647567, EPI_ISL_1647568, EPI_ISL_1647569, EPI_ISL_1647570, EPI_ISL_1647571, EPI_ISL_1647572, EPI_ISL_1647573, EPI_ISL_1647574, EPI_ISL_1647575, EPI_ISL_1647576, EPI_ISL_1647577, EPI_ISL_1647578, EPI_ISL_1647579, EPI_ISL_1647580, EPI_ISL_1647581, EPI_ISL_1647582, EPI_ISL_1647583, EPI_ISL_1647584, EPI_ISL_1647585, EPI_ISL_1647586, EPI_ISL_1647587, EPI_ISL_1647588, EPI_ISL_1647589, EPI_ISL_1647590, EPI_ISL_1647591, EPI_ISL_1647592, EPI_ISL_1647593, EPI_ISL_1647594, EPI_ISL_1647595, EPI_ISL_1647596, EPI_ISL_1647597, EPI_ISL_1647598, EPI_ISL_1647599, EPI_ISL_1647600			

see above	Respiratory Virus Unit, National Infection Service, Public Health England	National Infection Service, Public Health England	Zambon M, Talts T, Ellis J, Miah S, Platt S
EPI_ISL_1653937	Royal Children's Hospital	WHO Influenza Centre for Reference and Research on Influenza	Angela Todd, Yi-Mo Deng, Annette Alafaci, Naomi Komadina
EPI_ISL_1653938, EPI_ISL_1653939	Royal Children's Hospital	WHO Influenza Centre for Reference and Research on Influenza	Jean Moselen, Yi-Mo Deng, Annette Alafaci, Naomi Komadina
EPI_ISL_1653940	Royal Children's Hospital	WHO Influenza Centre for Reference and Research on Influenza	Angela Todd, Yi-Mo Deng, Annette Alafaci, Naomi Komadina
EPI_ISL_1653941, EPI_ISL_1653942	Royal Children's Hospital	WHO Influenza Centre for Reference and Research on Influenza	Jean Moselen, Yi-Mo Deng, Annette Alafaci, Naomi Komadina
EPI_ISL_1653943	Royal Children's Hospital	WHO Influenza Centre for Reference and Research on Influenza	Angela Todd, Yi-Mo Deng, Annette Alafaci, Naomi Komadina
EPI_ISL_1653944	Royal Children's Hospital	WHO Influenza Centre for Reference and Research on Influenza	Jean Moselen, Yi-Mo Deng, Annette Alafaci, Naomi Komadina
EPI_ISL_1653945	Royal Children's Hospital	WHO Influenza Centre for Reference and Research on Influenza	Angela Todd, Yi-Mo Deng, Annette Alafaci, Naomi Komadina
EPI_ISL_1653946	Royal Children's Hospital	WHO Influenza Centre for Reference and Research on Influenza	Jean Moselen, Yi-Mo Deng, Annette Alafaci, Naomi Komadina
EPI_ISL_1653947	Royal Children's Hospital	WHO Influenza Centre for Reference and Research on Influenza	Angela Todd, Yi-Mo Deng, Annette Alafaci, Naomi Komadina
EPI_ISL_1653948	Royal Children's Hospital	WHO Influenza Centre for Reference and Research on Influenza	Jean Moselen, Yi-Mo Deng, Annette Alafaci, Naomi Komadina
EPI_ISL_1653949, EPI_ISL_1653950, EPI_ISL_1653951, EPI_ISL_1653952, EPI_ISL_1653953, EPI_ISL_1653954, EPI_ISL_1653955, EPI_ISL_1653956, EPI_ISL_1653957, EPI_ISL_1653958, EPI_ISL_1653959, EPI_ISL_1653960, EPI_ISL_1653961, EPI_ISL_1653962, EPI_ISL_1653963, EPI_ISL_1653964, EPI_ISL_1653965, EPI_ISL_1653966, EPI_ISL_1653967, EPI_ISL_1653968, EPI_ISL_1653969, EPI_ISL_1653970, EPI_ISL_1653971, EPI_ISL_1653972, EPI_ISL_1653973, EPI_ISL_1653974, EPI_ISL_1653975, EPI_ISL_1653976, EPI_ISL_1653977, EPI_ISL_1653978, EPI_ISL_1653979, EPI_ISL_1653980, EPI_ISL_1653981, EPI_ISL_1653982, EPI_ISL_1653983, EPI_ISL_1653984, EPI_ISL_1653985, EPI_ISL_1653986, EPI_ISL_1653987, EPI_ISL_1653988, EPI_ISL_1653989, EPI_ISL_1653990, EPI_ISL_1653991, EPI_ISL_1653992, EPI_ISL_1653993, EPI_ISL_1653994, EPI_ISL_1653995, EPI_ISL_1653996, EPI_ISL_1653997, EPI_ISL_1653998, EPI_ISL_1653999	Royal Children's Hospital	WHO Influenza Centre for Reference and Research on Influenza	Angela Todd, Yi-Mo Deng, Annette Alafaci, Naomi Komadina
EPI_ISL_1760383, EPI_ISL_1760384, EPI_ISL_1760385, EPI_ISL_1760386, EPI_ISL_1760387, EPI_ISL_1760388, EPI_ISL_1760389, EPI_ISL_1760390, EPI_ISL_1760391, EPI_ISL_1760392, EPI_ISL_1760393, EPI_ISL_1760394, EPI_ISL_1760395, EPI_ISL_1760396, EPI_ISL_1760397, EPI_ISL_1760398, EPI_ISL_1760399, EPI_ISL_1760400, EPI_ISL_1760401, EPI_ISL_1760402, EPI_ISL_1760403, EPI_ISL_1760404, EPI_ISL_1760405, EPI_ISL_1760406, EPI_ISL_1760407, EPI_ISL_1760408, EPI_ISL_1760409, EPI_ISL_1760410, EPI_ISL_1760411, EPI_ISL_1760412, EPI_ISL_1760413, EPI_ISL_1760414, EPI_ISL_1760415, EPI_ISL_1760416, EPI_ISL_1760417, EPI_ISL_1760418, EPI_ISL_1760419, EPI_ISL_1760420, EPI_ISL_1760421, EPI_ISL_1760422, EPI_ISL_1760423, EPI_ISL_1760424, EPI_ISL_1760425, EPI_ISL_1760426, EPI_ISL_1760427, EPI_ISL_1760428, EPI_ISL_1760429, EPI_ISL_1760430, EPI_ISL_1760431, EPI_ISL_1760432, EPI_ISL_1760433, EPI_ISL_1760434, EPI_ISL_1760435, EPI_ISL_1760436, EPI_ISL_1760437, EPI_ISL_1760438, EPI_ISL_1760439, EPI_ISL_1760440, EPI_ISL_1760441, EPI_ISL_1760442, EPI_ISL_1760443, EPI_ISL_1760444	Royal Children's Hospital, 50 Flemington Rd., Park	WHO Influenza Centre for Reference and Research on Influenza	Angela Todd, Yi-Mo Deng, Annette Alafaci, Naomi Komadina
EPI_ISL_1834083, EPI_ISL_1834084, EPI_ISL_1834085, EPI_ISL_1834086, EPI_ISL_1834087, EPI_ISL_1834088, EPI_ISL_1834089, EPI_ISL_1834090, EPI_ISL_1834091, EPI_ISL_1834092, EPI_ISL_1834093, EPI_ISL_1834094, EPI_ISL_1834095, EPI_ISL_1834096, EPI_ISL_1834097, EPI_ISL_1834098, EPI_ISL_1834099, EPI_ISL_1834100, EPI_ISL_1834101, EPI_ISL_1834102, EPI_ISL_1834103, EPI_ISL_1834104, EPI_ISL_1834105, EPI_ISL_1834106, EPI_ISL_1834107, EPI_ISL_1834108, EPI_ISL_1834109, EPI_ISL_1834110, EPI_ISL_1834112, EPI_ISL_1834113, EPI_ISL_1834114, EPI_ISL_1834115, EPI_ISL_1834116, EPI_ISL_1834117, EPI_ISL_1834118, EPI_ISL_1834119, EPI_ISL_1834120, EPI_ISL_1834121, EPI_ISL_1834123, EPI_ISL_1834124, EPI_ISL_1834125, EPI_ISL_1834126, EPI_ISL_1834127, EPI_ISL_1834128, EPI_ISL_1834129, EPI_ISL_1834130, EPI_ISL_1834131, EPI_ISL_1834132, EPI_ISL_1834133, EPI_ISL_1834134, EPI_ISL_1834135, EPI_ISL_1834136, EPI_ISL_1834137, EPI_ISL_1834138, EPI_ISL_1834139, EPI_ISL_1834140, EPI_ISL_1834141, EPI_ISL_1834142, EPI_ISL_1834143, EPI_ISL_1834144, EPI_ISL_1834145, EPI_ISL_1834146, EPI_ISL_1834147, EPI_ISL_1834148, EPI_ISL_1834149	Royal Children's Hospital	WHO Influenza Centre for Reference and Research on Influenza	Angela Todd, Yi-Mo Deng, Annette Alafaci, Naomi Komadina
EPI_ISL_1834150, EPI_ISL_1834151, EPI_ISL_1834152, EPI_ISL_1834153, EPI_ISL_1834154, EPI_ISL_1834155, EPI_ISL_1834156, EPI_ISL_1834157, EPI_ISL_1834158, EPI_ISL_1834159, EPI_ISL_1834160, EPI_ISL_1834161, EPI_ISL_1834162, EPI_ISL_1834163, EPI_ISL_1834164, EPI_ISL_1834165, EPI_ISL_1834166, EPI_ISL_1834167, EPI_ISL_1834168, EPI_ISL_1834169, EPI_ISL_1834170, EPI_ISL_1834171, EPI_ISL_1834172, EPI_ISL_1834173, EPI_ISL_1834174, EPI_ISL_1834175, EPI_ISL_1834176, EPI_ISL_1834177, EPI_ISL_1834178, EPI_ISL_1834179, EPI_ISL_1834180, EPI_ISL_1834181, EPI_ISL_1834182, EPI_ISL_1834183, EPI_ISL_1834184	Respiratory Virus Unit, National Infection Service, Public Health England	National Infection Service, Public Health England	Zambon M, Talts T, Ellis J, Miah S, Platt S
EPI_ISL_2156812, EPI_ISL_2156813, EPI_ISL_2156814, EPI_ISL_2156815, EPI_ISL_2156816, EPI_ISL_2156817, EPI_ISL_2156818, EPI_ISL_2156819, EPI_ISL_2156820	Royal Children's Hospital	WHO Influenza Centre for Reference and Research on Influenza	Angela Todd, Yi-Mo Deng, Annette Alafaci, Naomi Komadina
EPI_ISL_2543761	National Center for Communicable Diseases	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Darmaa Bardach, Yi-Mo Deng, Ammar Aziz, Naomi Komadina
EPI_ISL_2543762	Monash Medical Centre	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Michelle Francis, Tony Korman, Yi-Mo Deng, Ammar Aziz, Naomi Komadina
EPI_ISL_2543763	Royal Children's Hospital	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Annette Alafaci, Yi-Mo Deng, Ammar Aziz, Naomi Komadina
EPI_ISL_2543764, EPI_ISL_2543765, EPI_ISL_2543766, EPI_ISL_2543767, EPI_ISL_2543768, EPI_ISL_2543769, EPI_ISL_2543770, EPI_ISL_2543771, EPI_ISL_2543772, EPI_ISL_2543773, EPI_ISL_2543774, EPI_ISL_2543775, EPI_ISL_2543776, EPI_ISL_2543777, EPI_ISL_2543778, EPI_ISL_2543779, EPI_ISL_2543780, EPI_ISL_2543781	Monash Medical Centre	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Michelle Francis, Tony Korman, Yi-Mo Deng, Ammar Aziz, Naomi Komadina
EPI_ISL_2543782, EPI_ISL_2543783, EPI_ISL_2543784, EPI_ISL_2543785, EPI_ISL_2543786, EPI_ISL_2543787, EPI_ISL_2543788, EPI_ISL_2543789, EPI_ISL_2543790, EPI_ISL_2543791, EPI_ISL_2543792, EPI_ISL_2543793, EPI_ISL_2543794, EPI_ISL_2543795, EPI_ISL_2543796, EPI_ISL_2543797, EPI_ISL_2543798, EPI_ISL_2543799, EPI_ISL_2543800, EPI_ISL_2543801, EPI_ISL_2543802, EPI_ISL_2543803, EPI_ISL_2543804, EPI_ISL_2543805, EPI_ISL_2543806, EPI_ISL_2543807, EPI_ISL_2543808, EPI_ISL_2543809, EPI_ISL_2543810	Royal Children's Hospital	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Annette Alafaci, Yi-Mo Deng, Ammar Aziz, Naomi Komadina
EPI_ISL_2543811, EPI_ISL_2543812, EPI_ISL_2543813, EPI_ISL_2543814, EPI_ISL_2543815, EPI_ISL_2543816, EPI_ISL_2543817, EPI_ISL_2543818, EPI_ISL_2543819, EPI_ISL_2543820, EPI_ISL_2543821, EPI_ISL_2543822, EPI_ISL_2543823, EPI_ISL_2543824, EPI_ISL_2543825, EPI_ISL_2543826	Institut Pasteur de Cote d'Ivoire	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Herve Kadjo, Yi-Mo Deng, Ammar Aziz, Naomi Komadina
EPI_ISL_2543827, EPI_ISL_2543828, EPI_ISL_2543829, EPI_ISL_2543830, EPI_ISL_2543831, EPI_ISL_2543832, EPI_ISL_2543833, EPI_ISL_2543834, EPI_ISL_2543835, EPI_ISL_2543836, EPI_ISL_2543837, EPI_ISL_2543838, EPI_ISL_2543839, EPI_ISL_2543840, EPI_ISL_2543841, EPI_ISL_2543842, EPI_ISL_2543843, EPI_ISL_2543844	National Center for Communicable Diseases	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Darmaa Bardach, Yi-Mo Deng, Ammar Aziz, Naomi Komadina
EPI_ISL_2543845, EPI_ISL_2543846, EPI_ISL_2543847	NIC, National Institute of Health	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Pilailuk Akkapaiboon Okada, Yi-Mo Deng, Ammar Aziz, Naomi Komadina
EPI_ISL_2543848	Monash Medical Centre	WHO Collaborating Centre for Reference and Research on	Xiaomin Dong, Michelle Francis, Tony Korman, Yi-Mo Deng, Ammar Aziz, Naomi Komadina

EPI_ISL_2543849, EPI_ISL_2543850, EPI_ISL_2543851, EPI_ISL_2543852, EPI_ISL_2543853	Royal Children's Hospital	Influenza WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Annette Alafaci, Yi-Mo Deng, Ammar Aziz, Naomi Komadina
	Institut Pasteur de Cote d'Ivoire	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Herve Kadio, Yi-Mo Deng, Ammar Aziz, Naomi Komadina
EPI_ISL_2543860, EPI_ISL_2543861, EPI_ISL_2543862, EPI_ISL_2543863, EPI_ISL_2543864, EPI_ISL_2543865, EPI_ISL_2543866, EPI_ISL_2543867, EPI_ISL_2543868, EPI_ISL_2543869, EPI_ISL_2543870, EPI_ISL_2543871, EPI_ISL_2543872, EPI_ISL_2543873, EPI_ISL_2543874, EPI_ISL_2543875, EPI_ISL_2543876, EPI_ISL_2543877, EPI_ISL_2543878, EPI_ISL_2543879, EPI_ISL_2543880, EPI_ISL_2543881, EPI_ISL_2543882, EPI_ISL_2543883, EPI_ISL_2543884, EPI_ISL_2543885, EPI_ISL_2543886, EPI_ISL_2543887, EPI_ISL_2543888, EPI_ISL_2543889	National Center for Communicable Diseases	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Darmaa Bardach, Yi-Mo Deng, Ammar Aziz, Naomi Komadina
see above	NIC, National Institute of Health	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Pilailuk Akkapaiboon Okada, Yi-Mo Deng, Ammar Aziz, Naomi Komadina
EPI_ISL_2543890		WHO Collaborating Centre for Reference and Research on Influenza	
EPI_ISL_2558987	Department of Infectious Diseases and Pathobiology, Institute of Virology and Immunology (IVI)	Department of Infectious Diseases and Pathobiology, Institute of Virology and Immunology (IVI)	Thao,T.T.N., Labrousseau,F., Ebert,N., Stalder,H., Dijkman,R., Jores,J., Thiel,V., Bittel,P., Suter-Riniker,F. and Kelly,J.
EPI_ISL_2575367	Suguru Takeuchi Nagoya University Graduate School of Medicine, Pediatrics	Suguru Takeuchi Nagoya University Graduate School of Medicine, Pediatrics	Takeuchi,S., Kawada,J. and Ito,Y.
EPI_ISL_2575499	Department of Experimental Modeling and Infectious Diseases Pathogenesis, Federal Research Center of Fundamental and Translational Medicine	Department of Experimental Modeling and Infectious Diseases Pathogenesis, Federal Research Center of Fundamental and Translational Medicine	Kurskaya,O.G., Sobolev,I.A., Sharshov,K.A., Alexeev,A.Y., Murashkina,T.A., Kabilov,M.R., Alikina,T.Y. and Shestopalov,A.M.
EPI_ISL_2575500	Department of Experimental Modeling and Infectious Diseases Pathogenesis, Federal Research Center of Fundamental and Translational Medicine	Department of Experimental Modeling and Infectious Diseases Pathogenesis, Federal Research Center of Fundamental and Translational Medicine	Sobolev,I.A., Kurskaya,O.G., Sharshov,K.A., Alexeev,A.Y., Murashkina,T.A., Kabilov,M.R., Alikina,T.Y. and Shestopalov,A.M.
EPI_ISL_2575546, EPI_ISL_2575547	Department of Experimental Modeling and Infectious Diseases Pathogenesis, Federal Research Center of Fundamental and Translational Medicine	Department of Experimental Modeling and Infectious Diseases Pathogenesis, Federal Research Center of Fundamental and Translational Medicine	Kurskaya,O.G., Sobolev,I.A., Sharshov,K.A., Alexeev,A.Y., Murashkina,T.A., Kabilov,M.R., Alikina,T.Y. and Shestopalov,A.M.
EPI_ISL_2575571, EPI_ISL_2575606, EPI_ISL_2575615	Department of Experimental Modeling and Pathogenesis of Infectious Diseases, Federal Research Center of Fundamental and Translational Medicine	Department of Experimental Modeling and Pathogenesis of Infectious Diseases, Federal Research Center of Fundamental and Translational Medicine	Dubovitskiy,N.A., Sobolev,I.A., Kurskaya,O.G., Sharshov,K.A., Anoshina,A.V., Leonova,N.V., Murashkina,T.A., Solomatina,M.V., Derko,A.A., Saroyan,T.A., Kabilov,M.R., Alikina,T.Y. and Shestopalov,A.M.
EPI_ISL_2578803	Department of Pediatrics, Center of Excellence in Clinical Virology, Chulalongkorn	Department of Pediatrics, Center of Excellence in Clinical Virology, Chulalongkorn	Thongpan,I.
EPI_ISL_2582176, EPI_ISL_2582233, EPI_ISL_2582247	Laboratory Medicine, UW Virology	Laboratory Medicine, UW Virology	Lin,M.J., Tait,A. and Greninger,A.L.
EPI_ISL_2582274, EPI_ISL_2582275, EPI_ISL_2582278	Department of Experimental Modeling and Pathogenesis of Infectious Diseases, Federal Research Center of Fundamental and Translational Medicine	Department of Experimental Modeling and Pathogenesis of Infectious Diseases, Federal Research Center of Fundamental and Translational Medicine	Dubovitskiy,N.A., Sobolev,I.A., Kurskaya,O.G., Sharshov,K.A., Anoshina,A.V., Leonova,N.V., Murashkina,T.A., Solomatina,M.V., Derko,A.A., Saroyan,T.A., Kabilov,M.R., Alikina,T.Y. and Shestopalov,A.M.
EPI_ISL_2582536	Laboratory Medicine, UW Virology	Laboratory Medicine, UW Virology	Lin,M.J., Tait,A. and Greninger,A.L.
EPI_ISL_2582675	Suguru Takeuchi Nagoya University Graduate School of Medicine, Department of Pediatrics	Suguru Takeuchi Nagoya University Graduate School of Medicine, Department of Pediatrics	Takeuchi,S., Kawada,J. and Ito,Y.
EPI_ISL_2582832, EPI_ISL_2582834	Laboratory Medicine, UW Virology	Laboratory Medicine, UW Virology	Lin,M.J., Tait,A. and Greninger,A.L.
EPI_ISL_2582836, EPI_ISL_2582838	Department of Experimental Modeling and Pathogenesis of Infectious Diseases, Federal Research Center of Fundamental and Translational Medicine	Department of Experimental Modeling and Pathogenesis of Infectious Diseases, Federal Research Center of Fundamental and Translational Medicine	Dubovitskiy,N.A., Sobolev,I.A., Kurskaya,O.G., Sharshov,K.A., Anoshina,A.V., Leonova,N.V., Murashkina,T.A., Solomatina,M.V., Derko,A.A., Saroyan,T.A., Kabilov,M.R., Alikina,T.Y. and Shestopalov,A.M.
EPI_ISL_2582864	Gansu Center for Disease Control and Prevention, Pathogen Laboratory	Gansu Center for Disease Control and Prevention, Pathogen Laboratory	Qiao,R., Chen,J., Wu,H. and Yu,D.
EPI_ISL_2584489, EPI_ISL_2584492, EPI_ISL_2584494, EPI_ISL_2584500, EPI_ISL_2584504, EPI_ISL_2584591, EPI_ISL_2584665, EPI_ISL_2584670, EPI_ISL_2584673, EPI_ISL_2584674, EPI_ISL_2584690, EPI_ISL_2584718, EPI_ISL_2584719	Epidemiology and Demography, KEMRI-Wellcome Trust	Epidemiology and Demography, KEMRI-Wellcome Trust	Kamau,E., Otieno,J.R., Murunga,N., Nyiro,J.U., Oketch,J.W., Ngoi,J.M., de Laurent,Z.R., Mwema,A., Agoti,C.N. and Nokes,D.J.
see above	Laboratory Medicine, UW Virology	Laboratory Medicine, UW Virology	Lin,M.J., Tait,A. and Greninger,A.L.
EPI_ISL_2584773, EPI_ISL_2584774, EPI_ISL_2584856, EPI_ISL_2584866, EPI_ISL_2584867, EPI_ISL_2584868, EPI_ISL_2584869, EPI_ISL_2584871, EPI_ISL_2584881, EPI_ISL_2584882, EPI_ISL_2584883, EPI_ISL_2584884, EPI_ISL_2584885, EPI_ISL_2584886, EPI_ISL_2584887, EPI_ISL_2584888, EPI_ISL_2584889, EPI_ISL_2584912, EPI_ISL_2584913, EPI_ISL_2584914, EPI_ISL_2584915, EPI_ISL_2584916, EPI_ISL_2584917, EPI_ISL_2584918, EPI_ISL_2584919, EPI_ISL_2584920, EPI_ISL_2584921, EPI_ISL_2584922, EPI_ISL_2584923, EPI_ISL_2584924, EPI_ISL_2584925, EPI_ISL_2584926, EPI_ISL_2584927, EPI_ISL_2584928, EPI_ISL_2584929, EPI_ISL_2584930, EPI_ISL_2584931, EPI_ISL_2584932, EPI_ISL_2584933, EPI_ISL_2584934, EPI_ISL_2584935, EPI_ISL_2584936, EPI_ISL_2584937, EPI_ISL_2584938, EPI_ISL_2584939, EPI_ISL_2584940, EPI_ISL_2584941, EPI_ISL_2584942, EPI_ISL_2584943, EPI_ISL_2584944, EPI_ISL_2584945, EPI_ISL_2584946, EPI_ISL_2584947, EPI_ISL_2584948, EPI_ISL_2584949, EPI_ISL_2584950, EPI_ISL_2584951, EPI_ISL_2584952, EPI_ISL_2584953, EPI_ISL_2584954, EPI_ISL_2584955, EPI_ISL_2584956, EPI_ISL_2584957, EPI_ISL_2584958, EPI_ISL_2584959, EPI_ISL_2584960, EPI_ISL_2584961, EPI_ISL_2584962, EPI_ISL_2584963, EPI_ISL_2584964, EPI_ISL_2584965, EPI_ISL_2584966, EPI_ISL_2584967, EPI_ISL_2584968, EPI_ISL_2584969, EPI_ISL_2584970, EPI_ISL_2584971, EPI_ISL_2584972, EPI_ISL_2584973, EPI_ISL_2584974, EPI_ISL_2584975, EPI_ISL_2584976, EPI_ISL_2584977, EPI_ISL_2584978, EPI_ISL_2584979, EPI_ISL_2584980, EPI_ISL_2584981, EPI_ISL_2584982, EPI_ISL_2584983, EPI_ISL_2584984, EPI_ISL_2584985, EPI_ISL_2584986, EPI_ISL_2584987, EPI_ISL_2584988, EPI_ISL_2584989, EPI_ISL_2584990, EPI_ISL_2584991, EPI_ISL_2584992, EPI_ISL_2584993, EPI_ISL_2584994, EPI_ISL_2584995, EPI_ISL_2584996, EPI_ISL_2584997, EPI_ISL_2584998, EPI_ISL_2584999, EPI_ISL_2585000, EPI_ISL_2585001, EPI_ISL_2585002, EPI_ISL_2585003, EPI_ISL_2585004, EPI_ISL_2585005, EPI_ISL_2585006, EPI_ISL_2585007, EPI_ISL_2585008, EPI_ISL_2585009, EPI_ISL_2585010, 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EPI_ISL_2585185	Epidemiology and Demography, KEMRI-Wellcome Trust	Epidemiology and Demography, KEMRI-Wellcome Trust	Kamau,E., Otieno,J.R., Murunga,N., Nyiro,J.U., Oketch,J.W., Ngoi,J.M., de Laurent,Z.R., Mwema,A., Agoti,C.N. and Nokes,D.J.
see above	Laboratory Medicine, UW Virology	Laboratory Medicine, UW Virology	Lin,M.J., Tait,A. and Greninger,A.L.
EPI_ISL_2585292	Key Laboratory of Emergency Detection for Public Health of Zhejiang Province, Zhejiang Provincial Centre for Disease Control and Prevention	Key Laboratory of Emergency Detection for Public Health of Zhejiang Province, Zhejiang Provincial Centre for Disease Control and Prevention	Li,C.-X., Li,W., Zhou,J., Zhang,B., Feng,Y., Xu,C.-P., Lu,Y.-Y., Holmes,E.C. and Shi,M.
EPI_ISL_2595722	Department of Pediatrics, Center of Excellence in Clinical Virology, Chulalongkorn	Department of Pediatrics, Center of Excellence in Clinical Virology, Chulalongkorn	Thongpan,I.
EPI_ISL_2595723	Gansu Center for Disease Control and Prevention, Pathogen Laboratory	Gansu Center for Disease Control and Prevention, Pathogen Laboratory	Qiao,R., Chen,J., Wu,H. and Yu,D.
EPI_ISL_2595724	Laboratory Medicine, UW Virology	Laboratory Medicine, UW Virology	Lin,M.J., Tait,A. and Greninger,A.L.
EPI_ISL_2811729	Royal Children's Hospital	WHO Collaborating Centre for Reference and Research on Influenza	Jean Moselen, Annette Alafaci, Yi-Mo Deng, Ammar Aziz, Naomi Komadina
EPI_ISL_2835616	PathWest Laboratory Medicine WA Microbial Surveillance Unit	PathWest Laboratory Medicine WA Microbial Surveillance Unit	Chisha Sikazwe, Avram Levy, David Smith, Chris Blyth, Alice Michie, Cara Minney-Smith, David Speers
EPI_ISL_2839170, EPI_ISL_2839171, EPI_ISL_2839172, EPI_ISL_2839173,	PathWest Laboratory Medicine WA Microbial Surveillance Unit	PathWest Laboratory Medicine WA Microbial Surveillance Unit	"Chisha Sikazwe, Avram Levy, David Smith, Chris Blyth, Alice Michie, Cara Minney-Smith, David Speers"

[illegible]

	Services	Services		
EPI_ISL_2839455, EPI_ISL_2839456	Departments of Clinical Microbiology and Infectious Diseases	Centre for Infectious Diseases and Microbiology Laboratory Services	"John-Sebastian Eden, Jen Kok, Dominic Dwyer, Edward Holmes, Philip Britton, Alison Kesson, Elena Cutmore, Rachel Tulloch, Bethany Horsburgh"	
EPI_ISL_2839457	Centre for Infectious Diseases and Microbiology Laboratory Services	Centre for Infectious Diseases and Microbiology Laboratory Services	"John-Sebastian Eden, Jen Kok, Dominic Dwyer, Edward Holmes, Philip Britton, Alison Kesson, Elena Cutmore, Rachel Tulloch, Bethany Horsburgh"	
EPI_ISL_2989613	Monash Medical Centre	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Michelle Francis, Tony Korman, Yi-Mo Deng, Ammar Aziz, Naomi Komadina	
EPI_ISL_2989828	Royal Children's Hospital	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Annette Alafaci, Yi-Mo Deng, Ammar Aziz, Naomi Komadina	
EPI_ISL_2991498	PathWest Laboratory Medicine WA Microbial Surveillance Unit	PathWest Laboratory Medicine WA Microbial Surveillance Unit	Chisha Sikazwe, Avram Levy, David Smith, Chris Blyth, Alice Michie, Cara Minney-Smith, David Speers	
EPI_ISL_412460	Virology Laboratory, Ricardo Gutiérrez Children's Hospital	Virology Laboratory, Ricardo Gutiérrez Children's Hospital / Vanderbilt University Medical Center	Goya, Stephanie; Lucion, Maria Florencia; Juarez, Maria del Valle; Shilts, Meghan; Gentile, Angela; Mistchenko, Alicia S.; Das, Suman & Viegas, Mariana	
EPI_ISL_412859	WHO National Influenza Centre Russian Federation	WHO National Influenza Centre Russian Federation	Komissarova K., Fadeev A., Komissarov A., Krivitskaya V.	
EPI_ISL_412865	Respiratory Virus Unit, Microbiology Services Colindale, Public Health England	Microbiology Services Colindale, Public Health England	Zambon M	
EPI_ISL_412866	Respiratory Virus Unit, Microbiology Services Colindale, Public Health England	Microbiology Services Colindale, Public Health England	Zambon M.	
EPI_ISL_412867	Respiratory Virus Unit, Microbiology Services Colindale, Public Health England	Microbiology Services Colindale, Public Health England	Zambon M	
EPI_ISL_4602779	VIC, Victorian Infectious Diseases Reference Laboratory	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Annette Alafaci, Yi-Mo Deng, Ammar Aziz, Naomi Komadina	
EPI_ISL_5522625, EPI_ISL_5522626, EPI_ISL_5522627, EPI_ISL_5522628, EPI_ISL_5522629, EPI_ISL_5522630	Institut Pasteur de Côte d'Ivoire	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Herve Kadjo, Yi-Mo Deng, Ammar Aziz, Naomi Komadina	
EPI_ISL_6174132, EPI_ISL_6174133, EPI_ISL_6174134, EPI_ISL_6174135, EPI_ISL_6174136, EPI_ISL_6174137	Cote d'Ivoire, Institut Pasteur de Cote d'Ivoire	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Herve Kadjo, Yi-Mo Deng, Ammar Aziz, Naomi Komadina	
EPI_ISL_6174138, EPI_ISL_6208719, EPI_ISL_6208721, EPI_ISL_6208724, EPI_ISL_6208725, EPI_ISL_6208726, EPI_ISL_6208727	Egypt, Central Public Health Laboratory (CPHL)	WHO Collaborating Centre for Reference and Research on Influenza	Xiaomin Dong, Yi-Mo Deng, Amel Naguib, Naomi Komadina	
EPI_ISL_6268437, EPI_ISL_6268455, EPI_ISL_6268456, EPI_ISL_6268457, EPI_ISL_6268594, EPI_ISL_6268595, EPI_ISL_6268596, EPI_ISL_6268597, EPI_ISL_6268598, EPI_ISL_6268599, EPI_ISL_6268606, EPI_ISL_6268607, EPI_ISL_6268611, EPI_ISL_6268612, EPI_ISL_6268617, EPI_ISL_6268618, EPI_ISL_6268619, EPI_ISL_6268620, EPI_ISL_6268621, EPI_ISL_6268622, EPI_ISL_6268623, EPI_ISL_6268624, EPI_ISL_6268625, EPI_ISL_6268626, EPI_ISL_6268627, EPI_ISL_6268628, EPI_ISL_6314463, EPI_ISL_6314464, EPI_ISL_6314465, EPI_ISL_6314466, EPI_ISL_6314467, EPI_ISL_6314468, EPI_ISL_6314469, EPI_ISL_6314470, EPI_ISL_6314471, EPI_ISL_6314483, EPI_ISL_6314585, EPI_ISL_6314640, EPI_ISL_6314641, EPI_ISL_6314642, EPI_ISL_6314658, EPI_ISL_6314659, EPI_ISL_6314660, EPI_ISL_6314661, EPI_ISL_6314662, EPI_ISL_6314663	Department of Respiratory Medicine, Wuhan Children's Hospital	CAS Key Laboratory of Special Pathogens and Biosafety, Chinese Academy of Sciences	Decheng Wang, Yi Yan, Ying Li, Xiaoxia Lu, Di Liu	
EPI_ISL_732337, EPI_ISL_732338, EPI_ISL_732340, EPI_ISL_732341, EPI_ISL_732342, EPI_ISL_732343, EPI_ISL_732344, EPI_ISL_732345, EPI_ISL_732346, EPI_ISL_732347, EPI_ISL_732348, EPI_ISL_732349, EPI_ISL_732350, EPI_ISL_732351, EPI_ISL_732352, EPI_ISL_732353, EPI_ISL_732354, EPI_ISL_732355, EPI_ISL_732356, EPI_ISL_732358, EPI_ISL_732359, EPI_ISL_732360, EPI_ISL_732361, EPI_ISL_732362, EPI_ISL_732363, EPI_ISL_732364, EPI_ISL_732365, EPI_ISL_732366, EPI_ISL_732367, EPI_ISL_732368, EPI_ISL_732369, EPI_ISL_732371, EPI_ISL_732372, EPI_ISL_732373	see above	Respiratory Virus Unit, National Infection Service, Public Health England	National Infection Service, Public Health England	Zambon M, Talts T, Ellis J, Miah S, Platt S
EPI_ISL_9003918, EPI_ISL_9003920	National Institute for Communicable Diseases of the National Health Laboratory Service	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG, Everatt J, Mohale T, Ntuli N, Mahlangu B, Mnguni A, Ismail A, Bhiman JN, Wolter N	